PHASE II COMPREHENSIVE SITE ASSESSMENT

FORMER TEMPLE STUART SITE (AKA AMERICAN TISSUE MILL)

24 HOLMAN STREET
TEMPLETON, MASSACHUSETTS
RTN 2-0000924

EPA Contract 68HE0122D0001; Task Order 68HE0122F0044

US EPA SUPERFUND TECHNICAL ASSESSMENT & RESPONSE TEAM

CONTRACT No. 68HE0122D0001

FOR

U.S. ENVIRONMENTAL PROTECTION AGENCY-REGION I & TEMPLETON, MASSACHUSETTS ON BEHALF OF MACVALLEE, LLC

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1.0 INTRODUCTION

This Phase II Comprehensive Site Assessment Report (Phase II) has been prepared by KGSNE JV II, LLC (KGSNE) for the former American Tissue Mill site (also known as the former Temple Stuart factory) located 24 Holman Street in Templeton, Massachusetts (the Site) which was assigned release tracking number (RTN) 2-0000924. A Locus Plan depicting the approximate Site location is included as Figure 1-1.

This Phase II report has been prepared to meet the requirements set forth in in sections 310 CMR 40.0830 of the Massachusetts Contingency Plan (MCP). This Phase II report and has been prepared on behalf of the United States Environmental Protection Agency (EPA).

2.0 GENERAL SITE INFORMATION

The following sections describe the Site and surrounding properties and include summaries of ownership history and previous environmental investigations.

2.1 Site Location, Description, and Disposal Site Description

The Site is an approximately 23-acres former wood-ware and furniture factory, and later a storage facility for a paper manufacturing company. The developed portion of the property consists of paved and unpaved roads/driveways, a paved parking area, an empty warehouse constructed in approximately 1976, a derelict garage building constructed in approximately 1940, and a steel water tower. Several concrete foundations for building and other infrastructure are present. The undeveloped portion of the Site is located along the northeastern property boundary and consists of a heavily vegetated area formerly used as a landfill and wetland area.

The Site is bounded by an active railroad right-of-way along the western boundary, Route 202 and residential/undeveloped property to the north, and residential/undeveloped property to the east, and south.

The property is relatively flat with elevations ranging between 275 and 278 feet above mean sea level (AMSL), with the southern portion of the site located at elevations of 280 to 285 AMSL with a slope that is buttressed by a former building foundation separating the two tiers.

A Site Plan depicting pertinent Site features and the approximate Disposal Site limits is included as Figure 2-1.

Contaminants including polychlorinated biphenyls (PCBs), metals, and petroleum products (including free-phase petroleum) have been detected in soil and/or groundwater samples. One additional RTN has been linked to the primary RTN 2-0000924. Additional details are provided subsequently.

2.2 Site Ownership and Usage

According to Town of Templeton Assessor's office records, the Site is currently owned by MacVallee LLC. The Site is currently vacant.

2.3 Site Operations History

The Site was historically occupied by Holman & Harris to manufacture wooden pails, tubs and buckets from 1884 to 1909. Temple Stuart Company purchased the property and began manufacturing wooden furniture at the Site in 1910. Waste generated reportedly included crankcase oil, paint thinners, lacquers and glues. American Tissue Mills of MA (ATMM) purchased the property in 1992 and reportedly utilized the property for equipment and material storage until approximately 2000. The Site was first listed by Massachusetts Department of Environmental Protection (MassDEP) as a Location to be Investigated (LTBI) in January 1993 when a release of oil and hazardous materials was reported by ATMM, and RTN 2-0000924 was assigned.

2.4 Historical Investigations and Response Actions

A summary of historical Site investigations and removal actions is provided in this section. Several actions happened in conjunction with one another. A summary of historical sampling locations is provided on Figure 2-2.

2.4.1 August 1990 - Phase I ESA

A Phase I Environmental Site Assessment (ESA) was completed by ENSOL for ATMM in August 1990. Historical information showed that the Site was used for furniture manufacturing from 1910-1990 by Temple Stuarts, which included the use of lacquers, stains, glue, heating oil, and compressor oil. ENSOL noted there were three underground storage tanks (USTs) on the Site; one 10,000-gallon fuel oil UST, and two 500-gallon benzene USTs. ENSOL concluded there were three possible sources of contamination, including the three USTs, a historical septic field, and historical solid waste disposal on the Site.

As part of the Phase I ESA, 18 soil borings were advanced to 5 feet below ground surface (bgs) and six monitoring wells were installed and sampled. Low petroleum concentrations were detected in

soil and no volatile organic compounds (VOCs) or petroleum contamination was detected in groundwater. ENSOL concluded that there was no evidence of a release.

2.4.2 December 1991 – Environmental Audit

Tighe & Bond completed an Environmental Audit for ATMM in December 1991. Six additional borings were advanced, and four wells were installed and sampled for volatile organic compounds (VOCs), metals, and total petroleum hydrocarbons (TPH). Surface water samples were collected from the stream that flows adjacent to the toe of the Landfill Area and analyzed for VOCs only. The report documents multiple drums and containers, some obviously leaking, stored throughout the Site. The report identifies one 10,000-gallon fuel oil UST, one 10,000-gallon fuel oil above-ground storage tank (AST), two 500-gallon benzene USTs, and one 275-gallon fuel oil AST. Other potential sources of contamination identified in the report included four septic systems serving on the north portion of the Site. According to the report, the landfill was used to dispose of boiler ash, bricks, and other debris. Results of the investigation did not identify a significant release near the fuel oil UST or the septic systems. Barium was detected in a monitoring well in the Landfill Area (MW-9), and elevated concentrations of TPH (18,000 ppm) were detected in soil from a boring near the 10,000-gallon fuel oil AST (MW-13). The groundwater sample collected from this location did not contain elevated concentrations. A surface soil sample collected near an obviously leaking drum in the Landfill Area (L-1) contained 130,000 ppm TPH. The Environmental Audit report was submitted to MassDEP in April 1992 prompting the establishment of RTN 2-0000924.

2.4.3 1993 to 1994 – NAPL Discovery and STM

In March 1993, a Resource Conservation and Recovery Act (RCRA) inspection identified several drums and containers throughout the Site. In May 1993, MassDEP conducted a Site visit in response to a waiver application submitted in April. During the visit, 2 feet of non-aqueous phase liquid (NAPL) was present in MW-13, near the fuel oil AST. In July, MassDEP issued a letter to ATMM requesting a proposal for a Short-Term Measure (STM) to address the NAPL, surface soil contamination, and drums at the Site. Tighe & Bond submitted a STM proposal in August 1993 proposing the removal of contaminated surface soil, the screening/sorting of debris from the Landfill Area, the removal and disposal of drums/containers throughout the Site, and the installation of a passive oil recovery system in MW-13. The report states that the NAPL may be compressor oil released in a trench drain nearby in Building A, rather than heating oil from the 10,000- gallon AST.

Tighe & Bond submitted an STM Report in February 1994 which documented the removal of drums and storage containers. It also concluded that the NAPL was from the compressor/trench

area. Also in February 1994, Tighe & Bond submitted a letter regarding a Landfill Area investigation in which test pits indicated that the north and south landfill contained clean sand and one area contained miscellaneous debris.

An Interim Measure (IM) Proposal was submitted to MassDEP in March 1994 to address the NAPL. It proposed the installation of an oil scavenger in MW-13, demolition of a portion of Building A, and an excavation of 90 cubic yards of contaminated soil. This IM was denied as the soil volume was concluded to be underestimated. Similarly, the waiver application was denied since the NAPL was not controlled.

2.4.4 1994 to 2001 – Tier Classification

In May 1994, a Tier Classification was issued. The Site was officially classified as Tier 1A in October 1994. An Immediate Response Action (IRA) was initiated to assess the NAPL. In October 1999 the Tier Classification Permit expired. In March 2000, a Permit Extension Request was filed. MassDEP issued a conditional permit extension for the Site and established a deadline for the Phase II Response Action Outcome (RAO) to be completed by permit expiration in October 2001.

2.4.5 1995 - IRA

Tighe & Bond submitted an assessment-only IRA Plan to MassDEP in December 1994. A Status Report from March 1995 concluded that there was a true NAPL layer. In May 1995, an IRA Completion Statement was submitted presenting the limits of the plume area and proposed NAPL recovery be conducted via Release Abatement Measure (RAM).

2.4.6 1995 to 2001 - RAM

A RAM plan, which outlined a NAPL recovery system near MW-13, was submitted to MassDEP in August 1995 and approved in September. A Status Report in January 1996 indicated that no progress had been made and in June 1996, MassDEP requested a written commitment letter from ATMM, establishing an Interim Deadline for the RAM and Phase II (see Section 2.4.7 below for details on the Phase II). A commitment letter was signed later that month and proposed work on both the RAM and Phase II to begin in July, with completion of the Phase II by November, and the NAPL treatment system running by December. Two letters were submitted later in 1996 pushing back the deadline for the Phase II and RAM.

In June 1997, the NAPL treatment system started operating. Several RAM Status Reports were submitted between 1998 and 2000. All of them noted that system effluent was at an acceptable

level. The last Status Report in 2000 stated the 401,000 gallons of water had been treated and 38 gallons of NAPL had been recovered since the start of operation.

A RAM Modification Plan was submitted on November 6, 2000, proposing the excavation of 750 cubic yards of contaminated soil in the NAPL area. Excavation of soil had already begun prior to approval, and MassDEP issued conditional approval on November 30, 2000. Excavation was completed in December 2000. 500 cubic yards of soil were removed and transported from the site for disposal.

In February 2001, a RAM Completion Statement and Class A-2 Partial RAO were submitted for the NAPL release. Confirmatory sampling for extractable petroleum hydrocarbons (EPH) showed that soil and groundwater in the area were below the Method 1 Standards.

2.4.7 1995 to 2001 - Phase II & Phase III

In May 1995, a Phase II Scope of Work (SOW) was submitted at the same time as the RAM Plan, for additional test pitting and borings in the Landfill Area. In February 1997, a Phase II interim Report was submitted and indicated PCBs were detected in the landfill up to 3.6 ppm and in wetland sediments at 5 ppm. A dioxin sample from the landfill contained 9.96 ppt. No groundwater samples contained concentrations of contaminants that exceed Method 1 standards. A Method III Risk Assessment SOW was submitted to MassDEP in October 1997 and was approved in January 1998.

A letter from Tighe & Bond was received in January 2001 stating that an issue with the analytical lab has delayed dioxin results and the Phase II and III submittals would be delayed. MassDEP extended the deadline for the submittals.

On March 15, 2001, a Phase II Comprehensive Site Assessment and a Phase III Remedial Action Plan were submitted. The Phase II report concluded that there was a significant risk associated with soil and groundwater contamination in the Landfill Area and a Stage II Ecological Risk Assessment was required. The Phase III proposed additional sampling to confirm contaminant extent and the construction of an engineered barrier or cap to achieve a condition of No Significant Risk. The cost was estimated to be approximately $1 million.

2.4.8 2000 - EPA SI

In April 2000, the department received the EPA's Site Inspection (SI). A letter of No Further Remedial Action Planned (NFRAP) from EPA was issued for the Site.

2.4.9 2000 to 2001 - UST Removal IRA

In December 2000, the removal of an abandoned benzene UST was conducted. Elevated headspace levels up to 339 ppm were detected by the photoionization detector (PID) during removal, which prompted MassDEP notification and subsequently RTN 2-13599 was issued. An IRA was approved for the removal of the UST, removal of less than 50 cubic yards of soil and the screening of buildings and utilities for LEL. In January 2001, a notice of responsibility associated with RTN 2-13599 was issued to ATMM.

In February 2001 an IRA Plan was submitted for the UST Area. The plan proposed excavation of 50 cubic yards of soil and ex-situ bioremediation in a covered treatment cell to be constructed on a paved portion of the Site. No response from MassDEP was given and the IRA Plan was presumptively approved.

In May 2001, employees at ATMM started work proposed in the IRA without the knowledge or oversight of the Licensed Site Professional (LSP). Work was stopped after MassDEP's Emergency Response (ER) unit conducted a Site visit.

In June 2001, ATMM contacted ER and agreed to ship the soil off-Site for disposal rather than continue with the IRA as planned. A notice of noncompliance was issued to ATMM for the soil management violations observed in May. No further submittals for RTN 2-13599 or IRA completion documentation were included in MassDEP's electronic document system. Therefore, KGSNE cannot identify whether this IRA was formally closed or if a condition of No Significant Risk was achieved.

2.4.10 2001 to 2002 - Phase IV

October 2001 MassDEP established RAO and Phase IV deadlines. In January 2003, MassDEP issued a penalty to ATMM for failure to meet the deadline of the submittal of the Phase IV of August 2002.

2.4.11 2001 to 2004 - EPA Remedial Actions on the Site

EPA conducted a PA/SI in 2001 to evaluate the Site for a potential time critical removal action. Based on the PA/SI results, EPA issued an action memorandum to initiate a time-critical removal action.

EPA conducted a time-critical removal action in 2003 and 2004 which included the disposal of containerized wastes, an asbestos abatement of each building, demolition of several structures,

and offsite disposal of several wastes including asbestos waste, oil wastes, caustics, herbicides, fuel oils, demolition debris, and 600 tons of PCB contaminated soil.

In October through December 2002, the EPA conducted PCB soil sampling in the Landfill Area. PCBs up to 230 ppm were detected in surficial soil. An Agency of Toxic Substances and Disease Registry (ATSDR) Health Consultation regarding the PCBs concluded there was no public health hazard because of the limited exposure on the Site. However, a Site walk conducted in April 2003 revealed signs of active recreation. MassDEP requested additional PCB sampling to delineate potential Imminent Hazard (IH) areas so that fencing could be installed. Additional PCB sampling of surficial soils was conducted in May 2003, and included sampling in the area to the east of the landfill, which had not previously been sampled. Elevated concentrations of PCBs ranging from 40 to 60 ppm were found east of the landfill along the boundary of an adjacent residential property.

EPA agreed to do residential PCB sampling around the area and to perform corrective actions if needed. They stated that dioxin sampling was not needed as the cost was high and PCB remediation would likely address areas of dioxin contamination. EPA concluded that PCB contamination is likely from an incinerator operated between 1920 and 1950.

2.4.12 2003 to 2007 - EPA Residential Removal

EPA conducted a second PA/SI and collected surface soil samples for PCB analysis from 35 residential properties in 2003. Additionally, two drinking water samples were collected from two residences that had a shallow dug well with wide casing. Drinking water samples were analyzed for VOCs, semi-volatile organic compounds (SVOCs), PCBs, and metals. No groundwater results exceeded the MCP Reportable Concentrations for groundwater categorized as GW-1 (RCGW-1) standards. However, 26 of the 35 properties had PCB levels in soil that required a Removal Action. EPA selected 10 of those properties for a subsurface investigation to determine vertical extent of PCB contamination. The EPA contractor advanced borings to 3 feet bgs and collected samples at each interval. The maximum concentration detected was 14 ppm at 1 foot bgs.

After an action memorandum was approved, EPA conducted a time-critical removal action between 2004 to 2007 to address PCB contamination in the residential areas. Over 16,000 tons of contaminated soil and debris were removed from residential properties. In November, three sediment samples from the swale running perpendicular to Route 202 and three samples from a drainage area on the western portion of the Site were collected. All samples had low PCB detections.

2.4.13 2022 - Phase I ESA

In 2022, Tighe & Bond performed a Phase I ESA at the Site. The Phase I identified one Recognized Environmental Concern (REC) which was the widespread presence of PCB, dioxin, and metal contamination, which remains a risk even with previous removal actions that reduced some PCB levels in accessible soils. The Phase I also noted several historical RECs (HRECs) including excavations done under the STM, the compressor oil release, and the benzene UST removal IRA.

3.0 2023 PHASE II FIELD INVESTIGATION PROGRAM

This section describes the environmental investigations performed by KGSNE as part of the Phase II investigation. The investigation included the collection of soil, groundwater, and concrete for field screening and laboratory analysis. Descriptions of investigation methods, observations, and field screening results are presented in the sections that follow.

3.1 Field Investigations and Technical Approach

The 2023 Phase II investigations were performed to build upon historical environmental data, and to address areas of concern identified previously. The 2023 Phase II investigation was performed in accordance with the EPA-approved Quality Assurance Project Plan Addendum (QAPPA) prepared by KGSNE in February 2023 and the QAPPA Update prepared by KGSNE in September 2023.

3.2 Soil Boring Advancement and Soil Sampling

Between February 27 and March 7 2023, KGSNE oversaw the advancement of 25 overburden soil borings. Soil samples were collected using 5-foot long dedicated Macro-Core® sampling sleeves, which were advanced continuously to 12 feet bgs. Soils were visually characterized by the KGSNE field personnel using the Burmister Method classification method.

The soil borings were advanced by Technical Drilling Services (TDS) of Sterling, Massachusetts using a track-mounted Geoprobe® 7822DT drill rig equipped with direct push technology (DPT) tooling. During drilling activities soil samples were logged for Site geology; analyzed for the presence of VOCs using headspace screening methods with an Ion Science Tiger LT PID; and collected for laboratory analysis of VOCs, SVOCs, volatile petroleum hydrocarbons (VPH), PCBs, metals, and per- and polyfluorinated substances (PFAS).

If additional soil matrix was required to obtain the minimum sample volume, additional soil was collected by advancing additional boring(s) within one foot of the initial boring to the same sampling interval and homogenized with matrix from the initial boring to form one homogenous

aliquot for laboratory analysis. Soil sample results are discussed in Section 5.1.2. Soil boring logs and associated monitoring well construction logs are included in Appendix A. Soil borings were backfilled using the soil cuttings generated from the boring. Soil boring locations are shown on Figure 3-1.

KGSNE also collected six surficial soil samples from the Northern Landfill Area. Samples were collected using a stainless-steel hand auger that was decontaminated between locations. The samples were advanced to 2 feet bgs and were homogenized in plastic bags before being classified and field screened. Surficial samples were analyzed for VOCs, PCBs, metals, and EPH. Surface soil logs are included in Appendix A. Surface soil locations are shown on Figure 3-1.

Soil samples collected for laboratory analysis were containerized into laboratory-supplied glassware immediately from the sample sleeve. Soil samples were retained on ice and transported via courier under chain-of-custody to Eurofins Northeast of Kingston, Rhode Island (Eurofins).

KGSNE remobilized to the Site on March 24th, 2023, to collect a second sample from boring 2023-SB-12 to evaluate potential imminent hazard (IH) condition arising from an elevated PCB concentration (362 mg/kg) in surface soil. KGSNE personnel collected a 0–1' sample from the approximate area of SB-12 with a decontaminated stainless-steel hand auger. PCB concentrations in the 0–1' interval were detected at 9.08 mg/kg, which is below the IH threshold, however a temporary fence was installed around the SB-12 area to prevent access to this contamination.

KGSNE remobilized to the Site between September 25 and September 27, 2023 to oversee the advancement of 50 overburden soil borings. The soil borings were advanced by GeoSearch, Inc of Sterling, Massachusetts using a track-mounted Geoprobe® 6620DT drill rig equipped with DPT tooling. Soil samples were collected using 5-foot long dedicated Macro-Core® sampling sleeves, which were advanced continuously to 3 feet bgs. During drilling activities soil samples were logged for Site geology and collected for laboratory analysis of PCBs. Soils were visually characterized by the KGSNE field personnel using the Burmister Method classification method.

The soil matrix from each boring was homogenized to form one homogenous aliquot for laboratory analysis. Soil samples collected for laboratory analysis were containerized into laboratory-supplied glassware immediately after characterization. Soil samples were retained on ice and transported via courier under chain-of-custody to Eurofins. Soil sample results are discussed in Section 5.1.2. Soil boring logs are included in Appendix A. Soil borings were backfilled using the soil cuttings generated from the boring. Soil boring locations are shown on Figure 3-2.

3.3 Monitoring Well Installation and Development

During the March 2023 drilling investigation, nine soil borings were completed as overburden groundwater monitoring wells (2023-MW-01 through 2023-MW-09). The monitoring well locations were selected based on review of existing historical information and data collected during previous investigations and field observations.

Monitoring wells were installed to a maximum depth between 12 and 15 feet bgs, with the objective of installing a well screen that intersected the water table. Monitoring wells were constructed using 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) with 10-foot long 0.010-inch slotted screen. The borehole annulus surrounding each the monitoring well was filled with clean filter sand to 1 foot above the top of the well screen, then approximately 1 foot of bentonite chips, then brought to grade with a combination of filter sand and soil cuttings. Each monitoring well was completed with a flush-mounted road box set in concrete. The approximate locations of monitoring wells are shown on Figure 3-1. A summary of monitoring well construction details is presented on Table 3-1.

The newly installed groundwater monitoring wells were developed using surge and purge techniques using a submersible Whale® pump. The pump and associated tubing were surged along the length of the well screen. Once surging was completed, the Whale® pump was used to purge the wells to remove fine materials from the well screen and surrounding filter sand. Each monitoring well was developed until the extracted groundwater was visibly clear, or when approximately five well volumes had been removed, whichever occurred first. All groundwater purged during well development was returned to the ground around the wells.

During development of 2023-MW-02, the top 1.5 feet of PVC riser pipe became detached from the rest of the riser and was pulled out of the well. The filter sand subsequently fell into the opening and filled the well to 8.5 feet bgs, which was above the water table. TDS returned to the Site during groundwater sampling and drilled a new well 1 foot south of the original location. The well was then sampled directly without being developed.

3.4 Monitoring Well Elevation and Geographic Survey

On March 7, 2023 KGSNE surveyed eight monitoring wells for elevation data using a laser level. MW-02 was not included in the survey as this well had to be redrilled after surveying. Reference point elevations of the monitoring wells (top of PVC) were surveyed relative to an arbitrary benchmark elevation of 100 feet. The benchmark was chosen to be the top of a fire hydrant on the southwest side of the Site, near Holeman Street. This survey information was used in conjunction with groundwater depth information collected during groundwater sampling activities to

determine groundwater elevations and create a groundwater contour map (Figure 3-3). During Phase II investigations, the depth to groundwater at the Site ranged from approximately 1.75 to 10.5 feet bgs. Based on the information gathered during the Phase II investigation, groundwater flow appears to be to the south/southwest toward Elm Street. This flow direction is consistent with historical evaluations of groundwater flow direction.

3.5 Groundwater Sampling

On March 30 and 31, 2023, KGSNE collected groundwater samples from the nine newly installed wells. All groundwater samples were collected using the EPA low-flow groundwater sampling protocols. Groundwater geochemical parameters (pH, turbidity, temperature, dissolved oxygen, specific conductivity, and oxidation reduction potential) were continuously monitored during well purging using YSI ProDSS water quality meter sonde and a separate Geotech turbidity meter. Low flow groundwater sampling field logs are included in Appendix B. All low flow samples were collected using peristaltic pumps and dedicated HDPE tubing.

Groundwater samples were containerized into laboratory-supplied bottles, retained on ice, and transported via courier under chain-of-custody to Eurofins for analysis of VOCs, SVOCs, VPH, PCBs, metals and PFAS.

3.6 Supplemental PCB Concrete Investigation

On September 27, 2023, KGSNE collected 30 concrete samples from the former building foundations to try to identify the source of PCB contamination in soil and establish data for potential removal actions. Locations were laid out in a 40-foot grid across Building C and the northern portion of Building A. Using a rotary impact hammer drill, KGSNE drilled 0.5-inch-deep holes in the concrete and collected the concrete dust. Samples were containerized into laboratory-supplied glassware, retained on ice, and transported via courier under chain-of-custody to Eurofins. Locations of the concrete samples is shown on Figure 3-4.

4.0 DATA USABILITY EVALUATION

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data collected during the TBA. The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020);

the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, the QAPPA (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP, and the QAPPA Update (September 2023).

Overall, samples were qualified for blank contamination, duplicate exceedances, duplicate imprecision, surrogate recovery, and dual column precision.

Concrete samples had reporting limits for non-detect PCB results that exceeded the project action limit (PAL) in three samples due to required sample dilutions.

Groundwater results for five PFAS compounds in four monitoring wells were rejected due to low surrogate recovery. Results for benzidine, phenol, and pyridine were rejected in several wells due to low LCS/LCSD recoveries. Non-detect reporting limits (RLs) for hexachlorobenzene exceeded the PAL of 1 ug/L in all groundwater samples. Sample RLs ranged from 4.8 to 5.43 ug/L.

In soil, benzidine results in several samples were rejected due to MS/MSD recovery and/or low LCS/LCSD recovery. Non detect results for several PFAS compounds were rejected due to low surrogate recovery. Results for 3,3'-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, and aniline were rejected in one sample due to poor MS/MSD recoveries. Non-detect results for C9-C18 aliphatics were rejected in most of the surface soil samples due to poor MS/MSD recoveries.

Reporting limits (RLs) for non-detect results for 1,4-diclorobenzene and hexachlorobenzene exceed the PALs in two soil boring samples. RLs for non-detect MCP- 14 metals/mercury results met the PALs for the site except for thallium RLs in several samples, where the PAL was exceeded due to a 10x dilution factor required to report other analytes. RL for non-detect results for 1,1,2,2-tetrachloroethane, dibromochloromethane, and thallium exceeded the PALs in the surface soil samples and soil borings. Reporting limits for non-detect PCB Aroclor results exceeded the PAL in three samples due to sample dilutions. In addition, RLs for non-detect thallium results exceeded the PAL in two samples due to the dilution required.

Data validation memos are included in Appendix C.

5.0 CONTAMINATION NATURE AND EXTENT

KGSNE evaluated both the historical data and the data generated during the Phase II investigation by comparing the concentrations of contaminants to Massachusetts Contingency Plan 310 CMR 40.0000 (MCP) Method 1 Soil Standards. Laboratory reports are included in Appendix D.

Due to the presumably different release mechanisms that occurred on the mill complex versus those that occurred in the landfill area, these areas will be evaluated separately.

5.1 Mill Complex Contamination Nature and Extent

Several past releases have occurred in the former mill complex area resulting in petroleum and PCB-impacted soil. Soil sampling conducted during this Phase II investigation also identified areas of PCB, polycyclic aromatic hydrocarbon (PAH), and metals contamination that appears to be present in the uppermost 2 feet of soil. Further details are provided in subsequent sections. Full analytical results for the Mill Complex can be found in Appendix E.

5.1.1 Geology and Hydrogeology

Subsurface soils observed during KGSNE investigations generally consisted of fine to medium sand with varying amounts silt and small amounts of gravel. Some clayey deposits were encountered during drilling, especially near the bottom of soil borings (12'-15' bgs).

KGSNE surveyed eight monitoring wells for elevation data using a laser level. Reference point elevations of the monitoring wells (top of PVC) were surveyed relative to an arbitrary benchmark elevation of 100 feet. This survey information was used in conjunction with groundwater depth information collected during groundwater sampling activities to determine groundwater elevations and create a groundwater contour map (Figure 3-2). Based on the information gathered during the Supplemental Phase II investigation, groundwater flow appears to be to the south/southwest toward Elm Street. Hydraulic conductivity testing was conducted in 1996 by Tighe & Bond and reported in their 2001 Phase II report. The testing showed that hydraulic conductivity in the main mill complex ranged between 1.37 ft/day and 3.28 ft/day with an even higher gradient (18 ft/day) in the landfill area. The horizontal gradient was measured to be 0.018 ft/ft.

5.1.2 Soil Sampling Results

The sections below present the laboratory analytical results from soil samples collected during the Phase II investigation activities. Using the MCP Method 1 Risk Characterization methods and Table 40.0933(9) of the MCP, "accessible" soils at the Site (0 to 3 feet bgs) would be classified as S-1 due to the potential low frequency of use by children, given the Site's proximity to residential properties and unrestricted access (i.e. no perimeter fence). Using the same rationale, "potentially accessible" soils at the Site (3 to 15 feet bgs) would be classified as S-2 under the current use and possibly S-1 under a future use if the Site is redeveloped for commercial or residential use. As a result, the soil analytical data are compared to MCP Method 1 risk

assessment standards for Category S-1 soil to provide an evaluation of potential human health risks associated with future unrestricted use of the Site. During evaluation, soils from the Landfill Area were evaluated separately from the soils in the Main Area. The Landfill Area summary can be found in Section 5.2.

Soil samples were collected for specific laboratory analysis and varying depths in accordance with the approved FTWP/QAPPA. Laboratory data reports for soil samples collected during the Phase II are included in Appendix D. Exceedances from soil borings are shown in Table 5-1.

5.1.2.1 VOC Results in Soil

Few VOCs were detected across the Site, and all concentrations were below the Method 1 risk assessment standards. Several samples and trip blanks had low acetone detections which may be attributed to cross-contamination from the lab as acetone is a common laboratory contaminant.

5.1.2.2 SVOC Results in Soil

Concentrations of benzo(a)pyrene were detected above the S-1/GW-2 and S-1/GW-3 standards of 2 mg/kg in a sample collected from MW-01 from 0 to 2 feet bgs at a concentration of 2.09 mg/kg. Several other SVOCs were detected in this sample, however none were above the applicable standards. MW-01 was situated south of the Landfill Area and high contaminant concentrations may be attributed to the former landfill activities. The 4–6' interval in SB-09 had two detections greater than the S-1 standards: benzo(a)pyrene (8.33 mg/kg) and dibenz(a,h)anthracene (2.1 mg/kg).

Several boring locations had multiple SVOC detections in the 0-2' and 2-4' depth interval, but none exceeded applicable standards. A summary of KGSNE Phase II SVOC sampling results from soil borings are included in Appendix E1 and exceedances are shown in Table 5-1.

5.1.2.3 PCBs Results in Soil

Accessible Soil (0-3 feet bgs)

- Aroclor 1254
    - Detected in 74 of the 76 soil samples collected with a minimum detection of 0.0309 mg/kg and a maximum detection of 362 mg/kg.
    - The average Aroclor 1254 concentration in accessible soil is 11 mg/kg, and the median concentration is 1.029 mg/kg.

The detection of Aroclor 1254 at 362 mg/kg is significantly greater than both the MCP Method 1 risk characterization standards, the MCP Method 3 Ceiling Limits (M3CLs) (100 mg/kg) and the Toxic Substances Control Act (TSCA) PCB-containing material threshold of 50 mg/kg.

KGSNE installed a temporary fence around soil boring 2023-SB-12 due to the elevated concentrations detected. The results of a supplemental soil sample collected from this area from between 0 and 1-foot below grade did not exceed the 10 mg/kg threshold for a MCP 2-hour reporting condition for a release that could pose an Imminent Hazard..

- Aroclor 1260
    - Detected only in a 0-2' sample collected from MW-05, at a concentration of 3.59 mg/kg which exceeds the applicable Method 1-Risk Assessment standards.

Potentially Accessible Soil (3-15 feet bgs)

- Aroclor 1254
    - Detected in 51 of the 125 soil samples collected with a minimum detection of 0.0169 mg/kg and a maximum detection of 34.8 mg/kg.
    - The average Aroclor 1254 concentration in the potentially accessible soil is 0.495 mg/kg, and the median concentration is 0.0122 mg/kg.

The higher Aroclor 1254 detections in potentially accessible soil were from the uppermost areas of the potentially accessible soil band. Concentrations appear to decrease with depth.

- Aroclor 1260
    - Detected only in only three of the 125 samples collected. None of the detections exceeded MCP Method 1 Risk Standards.

A summary of KGSNE Phase II PCB sampling results from soil borings are included in Appendices E1 and E2 and exceedances are shown in Tables 5-1 and 5-2.

5.1.2.4 Metals Results in Soil

Metals were detected in every sample, however only one sample exhibited detections that exceeded applicable standards. The shallow (0-2') interval of the MW-05 boring contained barium, lead, and zinc at concentrations exceeding the Method 1 S-1 soil standard. Of these three metals, barium and lead exceeded Method 1 S-2 and S-3 soil standards, while zinc exceeded only the S-3 soil standard. Thallium was detected at a concentration exceeding the Method 1 S-1 in a sample

collected from the 10-12' interval, which is an S-2 soil. This detection did not exceed the S-2 or S-3 soil standards.

A summary of KGSNE Phase II metals sampling results from soil borings are included in Appendix E1 and exceedances are shown in Table 5-1.

5.1.2.5 PFAS Results in Soil

PFAS was detected in several samples, although there was no pattern in the depths at which it was detected. There are few standards established for PFAS, however standards for soil range from 300 µg/kg to 400 µg/kg, and all detections were less than 1 µg/kg. A summary of KGSNE Phase II PFAS sampling results from soil boredom is included in Appendix E1.

5.1.2.6 Summary of VPH Analytical Results in Soil

No VPH detections exceeded applicable standards. A summary of KGSNE Phase II VPH sampling results from soil borings are included in Appendix E1.

5.1.3 Groundwater Sample Results

The sections below present the laboratory analytical results of groundwater samples collected during Phase II investigation activities. Groundwater sampling results were evaluated by comparing them to MCP Method 1 risk assessment standards. The Site is not located in a Current or Potential Drinking Water Source Area, therefore MCP GW-1 standards do not apply to groundwater at the Site. Under future Site use scenarios, occupied buildings may be present on Site and the depth to groundwater is less than 15 feet; therefore, GW-2 standards apply to groundwater. Since all groundwater is considered a potential source to surface water, GW-3 standards also apply to the Site. Groundwater samples were collected for specific laboratory analysis in accordance with the approved FTWP/QAPPA.

Groundwater sampling data collected during the Phase II is summarized in Appendix E3. Laboratory data reports for groundwater samples collected during the Phase II are included in Appendix D.

5.1.3.1 VOC Results in Groundwater

Very few VOCs were detected in groundwater, and none were detected above the applicable standards. Acetone was detected in MW-05 at 1.61 ug/L. Bromoethane was detected in MW-01, MW-02, and MW-07 at concentrations of 1.81 µg/L, 1.57 µg/L, and 1.22 µg/L respectively. The GW-

2 standard for bromomethane is 7 µg/L. Ethanol was detected in MW-05 at 69.5 µg/L. There are no established standards for ethanol. Trichloroethane (TCE) was detected in MW-09 at 0.886 µg/L. The GW-2 standard for TCE is 5 µg/L.

5.1.3.2 SVOC Results in Groundwater

Several SVOCs were detected in groundwater. All detections were below the applicable standards. All of the wells, except for MW-04 through MW-06, had detections of acenaphthylene and acetophenone that were less than 1 µg/L. The lowest standard for both compounds is 10,000 µg/L. Those six wells also had detections of fluorene below 1 µg/L. The GW-3 standard for fluorene is 40 µg/L and there is no established fluorene GW-2 standard. Other compounds detected in Site groundwater below the GW-2 and GW-3 standards included 2-methylenapthalene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzoic acid, chrysene, dibenz(a,h)anthracene, and naphthalene.

5.1.3.3 PCB Results in Groundwater

There were no PCBs detected in any of the wells.

5.1.3.4 Metal Results in Groundwater

Several metals were detected in groundwater at the Site; however, all detections were below the GW-3 standards. None of the metals analyzed have established GW-2 standards. Barium was detected in all wells. Concentrations ranged from 2.5 µg/L to 38.8 µg/L, and the GW-3 standard is 50,000 µg/L. Lead concentrations ranged from 0.146 µg/L to 0.642 µg/L while the GW-3 standard for lead is 10 µg/L. Other analytes detected include chromium, mercury, nickel, selenium, vanadium, and zinc.

5.1.3.5 PFAS Results in Groundwater

Several PFAS compounds were detected in groundwater, however there were no exceedances of applicable standards. Analytes detected include PFBS (ranging from 0.318 ng/L to 0.905 ng/L), PFBA (1.04 ng/L to 2.03 ng/L), PFHpA (0.419 ng/L to 1.45 ng/L), PFHxS (0.244 ng/L to 1.23 ng/L), PFHxA (0.191 ng/L to 1.09 ng/L), PFNA (0.22 ng/L to 0.565 ng/L), and perfluoropentanonic acid (0.587 ng/L to 0.834 ng/L). Two compounds, PFOS and PFOA, were detected at concentrations notably higher than the other PFAS detections in MW-04. PFOS was detected at a concentration of 16.8 ng/L, while PFOA was detected at a concentration of 10.5 ng/L. Detections of PFOS in the other wells ranged from 0.484 ng/L to 1.44 ng/L. Detections of PFOA in other wells ranged from

0.483 ng/L to 3.22 ng/L. The GW-3 standard for PFOS and PFOA is 500,000 ng/L and 40,000,000 ng/L, respectively.

5.1.3.6 Summary of VPH Analytical Results in Groundwater

No VPH compounds were detected in groundwater samples.

5.1.4 PCBs in Concrete Sample Results

Three Aroclor compounds were detected in the concrete samples. The vast majority of the detections and overall PCB mass is associated with Aroclor-1254 with Aroclors 1260 and 1268 being detected less frequently and at generally lower concentrations. A summary of PCB exceedances in concrete are found in Table 5-3. Full analytical results are found in Appendix E4. Sample locations and results are shown on Figure 3-4.

PCB contamination of concrete is regulated under 40 CFR 761, which implements TSCA. TSCA addresses PCBs as total PCBs, therefore while individual Aroclor mixtures are detected in the concrete, the total PCB values are subject to regulation.

Cleanup of PCBs in concrete would be addressed as a Bulk PCB Remediation Waste and would be subject to an assessment of "Occupancy". The status of "High Occupancy" is met when a person spends at least 6.7 hours per week in the PCB impacted area without dermal or respiratory protection. The status of "Low Occupancy" is met when a person spends less than 6.7 hours per week in the PCB impacted area without dermal or respiratory protection.

The following table provides the logic behind the TSCA PCB cleanup for Bulk PCB Remediation Waste.

High Occupancy		Low Occupancy	
Cleanup Scenario	Cleanup Standard	Cleanup Scenario	Cleanup Standard
Unconditional use; no cover system or institutional control	≤1 mg/kg	Conditional use controlled by institutional controls only	≤25 mg/kg
Conditional use; cover system and institutional control	>1 - ≤10 mg/kg	Conditional use; secured by fence, marked per regulation, and institutional controls	> 25 - ≤50 mg/kg
		Conditional use; cover system and institutional control	>25 - ≤100 mg/kg

All but seven of the 30 concrete samples fail to meet the High Occupancy Unconditional Use threshold. Of these 23 concrete samples (excluding field duplicates), 8 fail to meet the High Occupancy Conditional Use threshold. Of those eight samples failing to meet the High Occupancy Conditional Use threshold, two exceed the Low Occupancy Conditional (Cover and Institutional Controls) threshold. The remaining 15 concrete sample PCB concentrations meet the High Occupancy Conditional (Cover and Institutional Controls Use threshold.

The maximum PCB concentration was detected in sample ATM-CC-14 at 89.9 mg/kg. The average PCB concentration in the concrete samples is approximately 10 mg/kg, which meets the High Occupancy Conditional Use threshold.

5.2 Landfill Contamination Nature and Extent

Several past sampling events in the former landfill area have identified contamination in soil. Further details are provided in subsequent sections. Full analytical results for the Landfill Area can be found in Appendix E5, while exceedances are found in Table 5-4.

5.2.1 VOC Results in Surface Soil

VOCs were detected at concentrations below applicable soil standards in all six surface soil locations.

5.2.2 PCB Results in Surface Soil

PCBs were detected in four of the six surface soil locations at concentrations above the S-1/GW-2 and S-1/GW-3 standards of 1 mg/Kg including SS-01, SS-03, SS-04, and SS-06. Concentrations

ranged from 1.61 mg/Kg to 6.4 mg/Kg, the highest being found in SS-06. Exceedances in surface soil are shown in Table 5-4.

5.2.3 Metals Results in Surface Soil

Metals were detected in all six surface soil samples below the applicable standards.

5.2.4 EPH Results in Surface Soil

EPH was detected in four of the six surface soil samples below the applicable standards. SS-01, SS-03, and SS-04 exhibited detections of aromatics and aliphatics. SS-06 had detects of every EPH compound except aromatics.

6.0 ENVIRONMENTAL FATE AND TRANSPORT OF CONTAMINANTS OF CONCERN AND POTENTIAL MIGRATION PATHWAY

The primary contaminants of concern (COCs) at the Site are PCBs, SVOCs, and metals in accessible and potentially accessible soil.

6.1 Environmental Fate and Transport

Elevated concentrations of SVOCs, PCBs, and metals have been detected in soil at the Site. Contaminants released to the subsurface undergo physical, chemical, and biological processes that affect the fate and transport of these compounds. These processes include dispersion, dilution, volatilization, sorption, and biodegradation. Portions of the contaminants may become adsorbed to soil particles, portions volatilize into the vadose zone, and, depending on the volume released, the soluble portion may be transported in the dissolved phase through precipitation passing through the vadose zone. The water-soluble constituents will migrate with groundwater via advection and dispersion. Based on data collected during 2023 investigations, PCB impacts appear to be widespread across the Site, while SVOC and metals impacts are limited to a few specific locations which may be related to previous excavations and the former landfill.

6.2 Potential Migration Pathways

The potential migration pathways associated with Site soil and groundwater are evaluated in the sections that follow.

6.2.1 Soil Pathway

Elevated concentrations of PCBs, SVOCs, and metals have been detected in surface and subsurface soils. Under current use, potential exposure to these soils is high. Although the Site is

vacant, it is not fenced off and evidence of recreation on the Site has been observed. Under future use (residential, commercial, or industrial) exposure to these soils is possible through ingestion, inhalation of fugitive dusts, or dermal contact.

6.2.2 Groundwater Pathway

Low concentrations of VOCs, metals, SVOCs, and PFAS have been detected in groundwater samples collected at the Site. Under current use, groundwater at the Site is not used for drinking water supply or manufacturing processes, so this exposure pathway is currently incomplete. Under future use scenarios, exposure to contaminated groundwater is unlikely, but not prohibited.

7.0 NATURE AND EXTENT OF CONTAMINATION AND DISPOSAL SITE LIMITS

Concentrations of PCBs, SVOCs, and metals have been detected above applicable MCP Method 1 soil standards throughout the Site. Concentrations of metals and SVOCs in soil have been limited to isolated locations, while PCB distribution is widespread. Using MCP Method 1 Risk Assessment methods, concentrations of PCBs, and metals detected in Site soils still pose a significant risk to human health and the environment.

7.1 Soil Contamination

Concentrations of PCBs, SVOCs, and metals that exceed applicable Method 1 soil standards were detected in soil boring samples throughout the Main Area of the Site, while the TBA samples collected from the Landfill Area only exhibited PCB exceedances.

PCBs detected in the Main Area extend across the entire Main Area Site. The source of the PCBs is not known. In this area, PCB contamination is mainly surficial but extends to 6 feet bgs in SB-07. The highest concentration was detected in SB-12 in the 0–2-foot sample (362 mg/kg). These PCB detections extend through an area where several historical excavations took place, for the benzene UST and PCB contamination. One other location, SB-01, which is south of the Landfill Area, had surficial PCBs exceedances and may be attributed to migration from the landfill.

SVOC exceedances were found in two locations. SVOCs in SB-09, which was near the former compressor oil clean up, exceeded standards in the 4-6 foot sample, while exceedances in MW-01 were found in the 0-2 foot sample. Metals were found in the 0–2-foot sample of MW-05, which is in the area of the former benzene UST. PCB exceedances in the Landfill Area were found in four of the locations sampled.

7.2 Groundwater Contamination

Low concentrations of VOCs, metals, SVOCs, and PFAS were detected in all of the nine monitoring wells. None of the concentrations exceed applicable Method 1 groundwater standards.

7.3 Concrete Contamination

Concentrations of PCBs were detected in concrete samples collected from throughout the Building A slab and throughout the exposed portions of the Building C slab. No concrete samples were collected from within the Building C warehouse building.

Concentrations ranged from less than 1 mg/kg to 89.9 mg/kg. Approximately 20% of the concrete samples met TSCA's High Occupancy – Unconditional threshold. The remaining samples and therefore the majority of the Building A and C slabs are impacted.

8.0 EXPOSURE ASSESSMENT

Because the Site is unsecured, impacted soil and concrete that are "accessible" present the most significant potential exposure risk. Most of the soil samples where concentrations exceed MCP Method 1 standards are considered "accessible" under the MCP. Therefore, under the current use scenario, there is a potential for trespasser exposure to soil contamination.

Under current use, groundwater at the Site is not used for drinking water supply or manufacturing processes. Therefore, exposure to groundwater COCs is unlikely.

Future use for the site has not been established, and therefore, a conservative future exposure assumption of residential use is evaluated.

9.0 RISK CHARACTERIZATION

A summary of human and environmental receptors is provided in the sections that follow.

9.1 Identification of Human Receptors

The Site is currently unoccupied and potential human receptors under current use are restricted to trespassers. Residential properties are located within 100 feet of the Site, and the Site is currently unsecured, therefore it is reasonable to expect that teenage or older trespassers are accessing the Site. It is unlikely that children are accessing the Site on a regular basis, however due to the abutting residences, it is not impossible.

Potential future receptors under reasonably foreseeable conditions could include lifelong residents, young children, women of child bearing age, trespassers, and construction/utility workers.

9.2 Identification of Environmental Receptors

Based on information available from Massachusetts Geographic Information Systems (MassGIS) Map (Figure 9-1), there are no Zone II areas, Interim Wellhead Protection Areas, Zone A areas, Potentially Productive Aquifers or Groundwater Protection Districts within 500 feet of the Site. There are also no Areas of Environmental Concern/Environmental Receptors as defined in 40.0483(1)(a)(8)(c), such as:

- Areas of Critical Environmental Concern;
- Sole Source Aquifers;
- Fish Habitats;
- Habitats of Species of Special Concern; and
- Habitats of Species of Threatened or Endangered Species.

9.3 Identification of Site Activities and Uses

The Site does not currently have any uses, as it has been vacant and unoccupied for several years. Potential future activities and uses include construction/demolition and residential and/or commercial use.

9.4 Identification of Applicable Soil and Groundwater Categories

Using the MCP Method 1 Risk Characterization methods and Table 40.0933(9) of the MCP, "accessible" soils at the Site (0 to 3 feet bgs) are classified as S-1 due to the potential high frequency of use by children, given the Site's proximity to residential properties and unrestricted access. Using the same rationale, "potentially accessible" soils at the Site (3 to 15 feet bgs) would be classified as S-2 under the current use and possibly classified as S-1 under a future use. For the purpose of evaluating risks, KGSNE has assumed all soil at the Site is classified as S-1.

9.5 Identification of Exposure Points and Exposure Pathways

For soil, the exposure point is the horizontal and vertical extent of contaminated soil identified through the collection of soil samples from the Site. The potential exposure pathways for soil are through ingestions of soil, inhalation of dusts, or dermal absorption.

9.6 Calculation of Exposure Point Concentrations

KGSNE evaluated human health, public welfare, and environmental risk for several analytes in soil using a Method 1 Risk Characterization as outlined in 40 CMR 40.0973. To do this, KGSNE calculated the Exposure Point Concentration (EPC) for several analytes in soil including PCBs, SVOCs, and metals. A condition of no significant risk would exist at the Site if no EPC is greater than the applicable MCP Method 1 Soil Standard.

EPCs for Site soil in the Main Area were developed using data gathered during soil boring investigations in March 2023 and September 2023. Historical data was not included, as in some cases it may have been remediated previously, may be too old, and may not be of sufficient quality to meet presumptive certainty to be assessed in an EPC calculation. The EPCs were evaluated by depth; a 0-3 feet bgs range for accessible soils, and a 3-15 feet bgs range for potentially accessible soils. Although accessible and potentially accessible soil was assessed separately, both data sets included samples from 2-4 feet bgs to capture the 3-foot interval. EPCs were calculated using two methods based on the sample collection methods of each data set according to 40 CMR 40.0926(8)(a)1 and 2. For exposure points where systematic sampling was used, the 90th percentile Chebyshev non-parametric upper confidence limit (UCL) was used as the EPC. The UCL was calculated using ProUCL Version 5.1. These exposure points include PCBs in soil shallower than 3 feet, and concrete. A copy of the ProUCL outputs for both media is included in Appendix F. For exposure points where judgmental sampling was implemented, the arithmetic mean of data was used as the EPC. This included PCBs, PAHs, and metals.

For PCBs in accessible soil in the Main Area, KGSNE calculated EPCs using the 90% UCL (Table 9-1A), due to the systematic sampling that occurred in September 2023. However, because the initial sampling in March 2023, which accounts for half the data used in the data set, was conducted using judgmental sampling based off historical site use, KGSNE also calculated the EPC using the arithmetic mean. An evaluation of the Aroclor 1254 data identified a hot spot (a concentration that was greater than 10 times the standard) at boring 2023-SB-12 where the maximum concentration of 362 mg/kg was greater than 10 times the standard (the S-1 standard for Aroclor 1254 at this depth being 1 mg/kg). According to 40 CMR 40.0926(8)a1, in this instance, the maximum concentration of the data set would be used as the EPC. The calculation for this EPC is shown in Table 9-1B. To demonstrate the extent of PCBs in surficial soil, KGSNE also calculated the EPC for this exposure point using the arithmetic mean without substituting for the hotspot value (Table 9-1C). In all three instances, the EPC for Aroclor 1254 exceeded the MCP S-1 standard. KGSNE used both methods to calculate the EPC for Aroclor 1260, which was below the MCP S-1 standard in both cases. The table below shows the different EPC outcomes for the different calculation methods.

Analyte	Calculation Method	EPC	MCP S-1 Exceedance
Aroclor 1254	90% UCL	19.93	Yes
	Arithmetic mean using hotspot EPC	362	Yes
	Arithmetic mean without hotspot substitution	8.63	Yes
Aroclor 1260	90% UCL	0.17	No
	Arithmetic mean	0.193	No

For concrete, KGSNE evaluated EPCs for three PCB compounds; Aroclor 1254, Aroclor, 1260, and Aroclor 1268. KGSNE calculated the EPC using the 90% UCL. There is no MCP standard for concrete, so KGSNE compared the EPC to the S-1 soil standard. All three PCB compounds had EPCs greater than the S-1 standard of 1 mg/kg. Aroclor 1254 had the highest EPC of 16.78 mg/kg, while Aroclor 1268 had the lowest at 1.18 mg/kg. EPC calculations are shown in Table 9-2.

PAHs and metals exhibited exceedances in both the accessible and potentially accessible soil. The EPCs for these analytes, as well as PCBs deeper than 3 feet, were calculated using the arithmetic mean. The data used for this assessment was from the judgmental sampling conducted in March 2023. The data sets were analyzed to ensure that 75% of the data used in the averaging was less than or equal to the applicable standard and no data point was 10 times greater than the applicable standard. One data set, Aroclor 1254 in the 3–15-foot range, had a hot spot. The maximum concentration of 34.8 mg/kg was used as the EPC. All EPCs were less than the MCP S-1 standard, except for Aroclor 1254. Calculations and EPC results are shown in Table 9-3.

Only one analyte, Aroclor 1254, had exceedances in the Landfill Area, and required risk assessment and EPC calculation (Table 9-4). Historical data was included in the EPC calculation and is shown in Table 9-5. The calculated EPC of 5.37 was greater than the Method 1 Standard.

PCBs across the Site in different media do not meet a condition of of No Significant Risk under the MCP. EPCs for Aroclor 1254 exceeded the MCP S-1 standard in surface soil and deeper soil in the main area, surface soil in the landfill area, and in concrete. EPCs for Aroclor 1260 and Aroclor 1268 also exceeded the S-1 standard in the Main Area. These concentrations pose a Significant Risk under current and future Site use.

10.0 PHASE II CONCLUSIONS

KGSNE has completed a Phase II Comprehensive Site Assessment for the American Tissue Mill property located in Templeton, Massachusetts. The following summarizes the results of historical investigations, historical remedial actions, Phase II Investigation activities performed by KGSNE in 2023, and describes the current conceptual Site model.

- The Site is approximately 23 acres in size and improved with a vacant warehouse, a water towner, and several concrete foundations and slabs. The Site is located in a residential area of Templeton, Massachusetts, and is abutted by residences to the north and east, and an active railroad track to the south and west.

- The Site was used to manufacture wooden pails, tubs and buckets from 1884 to 1909, and wooden furniture from 1910 to 1992. Waste generated reportedly included crankcase oil, paint thinners, lacquers and glues. ATMM purchased the property in 1992 and operated until approximately 2000.

Prior investigations and remedial actions have included Phase II CSAs, RAMs, IRAs, Phase III RAPs, EPA PA/Sis, and EPA time-critical removal actions.

- In 2022, Tighe & Bond performed a Phase I ESA at the Site. The Phase I identified one REC which was the presence of PCB, dioxin, and metals contamination at the site and PCB soil impacts on adjoining properties. The Phase I also noted several HRECs including excavations done under the STM, the compressor oil release, the benzene UST removal IRA.

- In March 2023 KGSNE performed a Phase II investigation to delineate the nature and extent of contamination in soil and groundwater at the Site.

- Very few VOCs were detected in soil, and all detections were below the standards. No VPH was detected in soil.

- One SVOC compound was detected in the 0-2 ft interval in MW-01 at a concentration of 2.09 mg/kg which is greater than the 2 mg/kg standard. The 4–6-foot interval in SB-09 had four detections greater than the S-1 standards. Benzo(a)pyrene (8.33 mg/kg) has an S-1 standard of 2 mg/kg and dibenz(a,h)anthracene (2.1 mg/kg) has a standard of 2 mg/kg.

- Aroclor 1260 was detected in MW-05 0–2' interval at a concentration of 3.59 mg/kg. This exceeds the applicable S-1/GW-2 and S-1/GW-3 standards of 1 mg/kg.

- Aroclor 1254 was detected in several locations in the 0–2-foot, 2-4 foot, and 4-6 foot above the 1 mg/kg standard. The 0–2' intervals where Aroclor 1254 exceeded the standard was MW-05 (26.3 mg/kg), MW-07 (8.6 mg/kg), SB-01 (1.41 mg/kg), SB-05 (1.99 mg/kg), SB-06 (23.5 mg/kg), SB-07 (2.84 mg/kg), SB-12 (362 mg/kg), and SB-13 (10.3 mg/kg). The 2-4' intervals where Aroclor 1254 exceeded the standard was MW-05 (1.08 mg/kg), SB-01 (1.21 mg/kg), SB-06 (34.8 mg/kg), and SB-07 (1.05 mg/kg). Aroclor 1254 was detected at 16.2

mg/kg and 1.11 mg/kg in SB-07 4-6' interval, and 6-8' interval respectively. Aroclor 1254 was also detected in SB-15 4-6' interval at 1.09 mg/kg.

- During the supplemental PCB investigation Aroclor 1254 was detected in exceedance of the S-1/GW-2 and S-1/GW-3 standards, both 1 mg/kg, in 29 locations. Concentrations ranged from 1.1 mg/kg to 35.6 mg/kg and had one outlier that had a concentration of 93.6 mg/kg. Surficial PCB contamination was mainly found in borings advanced in the former footprint of Building B.

- MW-05 0-2-foot interval had standard exceedances of barium, lead, and zinc. Barium was detected at 3,780 mg/kg while the S-1/GW-2 and S-1/GW-3 standards are 1,000 mg/kg. Lead was detected at 676 mg/kg and the applicable standards are 200 mg/kg. Zinc was detected at 1,970 mg/kg while the standards are 1,000 mg/kg.

- Thallium was detected above the S-1 standard of 8 mg/kg in MW-07 10–12-foot interval at a concentration of 13.6 mg/kg.

- PFAS was detected in several samples, although there was no pattern in the depths at which it was detected and none of the detections exceeded applicable standards.

- VOCs, metals, and EPH were all detected below applicable standards in the surface soil samples from the landfill.

- PCBs were detected in four of the six surface soil locations at concentrations above the S-1/GW-2 and S-1/GW-3 standards of 1 mg/Kg including SS-01, SS-03, SS-04, and SS-06. Concentrations ranged from 1.61 mg/Kg to 6.4 mg/Kg, the highest being found in SS-06.

- VOCs, SVOCs, and metals were detected in groundwater below the applicable standards. No PCBs or VPH were detected in any of the wells. Several PFAS compounds were detected below the standards in groundwater.

- Concentrations of PCBs, SVOCs, and metals were detected above the applicable MCP Method 1 soil standards in the Main Area of the Site. Using Method 1 Risk Assessment methods, concentrations of Aroclor 1254, Aroclor 1260, Aroclor 1268 still pose a Significant Risk to human health, welfare, or the environment.

Based on information presented in this Phase II CSA, KGSNE offers the following Conceptual Site Model:

- In the Main Mill Area, historical mill operations have contributed to several releases such as burning wood, spreading and dumping of debris, ash, and used materials, leaking from USTs and equipment, and spills from equipment.

- PCB distribution throughout the Site is likely caused by historical burning of wood painted with PCB-containing paints or open pit burning of the paints themselves; smokestack/incinerator deposition; and ash handling and disposal causing widespread PCB impacts at the Site and surrounding area. Locations with surficial PCB contamination are attributable to historical operation.

- SB-12 and SB-06 were advanced to evaluate former PCB excavations. PCBs detected in these locations indicate that the original excavations did not successfully remove the full extent of contamination in those areas.

- Several locations were advanced to evaluate former UST removals. It is likely that contamination from the original excavations remains, and deeper contamination may be attributed to reuse of excavation spoils as backfill.

- PAHs detected in deeper soil are likely attributed to the compressor oil release.

- Contamination present in surface soil, concrete, and subsurface soil of the main area appears to be stable and partitioning into groundwater is limited.

- Surface soil and concrete pose a threat to site users under current and future uses, while subsurface soil and groundwater mainly pose a threat to site workers during redevelopment.

- Elevated PCB concentrations in the soil within the Landfill Area can be attributed to landfill waste. Historical groundwater, surface water, and sediment samples with high PCB concentrations indicate the landfill contaminants are migrating into these medias.

- Surface soil, surface water, and sediment pose a threat to current and future users of the landfill area. Subsurface soil has the potential to harm future site construction workers, should this portion of the site ever be developed.

A graphical representation of this CSM can be found on Figure 10-1. Concentrations of PCBs, SVOCs, and metals detected in Site soils during KGSNE supplemental Phase II investigations exceed applicable Method 1 Soil Standards, indicating that residual source material is still present

at the Site and additional remediation is necessary. Prior to the submittal of this Phase II, EPA has indicated their intent to perform a removal action at the Site including excavation of soil and scarifying the concrete of the former building footprints that remain in place. This removal action will likely require a Phase II CSA Addendum to document the outcomes and re-evaluate the Site risks.

11.0 PHASE II COMPLETION STATEMENT

In accordance with 310 CMR 40.0836, a Phase II Completion Statement is being submitted along with this Phase II CSA. The Phase II Completion Statement contains the LSP opinion and certification required by 310 CMR 40.0009. The LSP-of-record for the Site, Mr. Adam Roy, renders the opinion that the response actions have been completed in accordance with all applicable requirements of the MCP, specifically 310 CMR 40.0830. This opinion is subject to the limitations presented in Appendix G.

Comprehensive Remedial Actions are necessary at the Site to achieve a Permanent Solution as described in 310 CMR 40.1000.

The Site is currently classified as Tier II. The MassDEP online database indicates that this classification was last updated in June 2023. If a removal action and Phase II Addendum is completed, the current Tier Classification will be reevaluated and rescored if necessary.

12.0 PUBLIC INVOLVEMENT

Public notification letters have been submitted to the Town of Templeton Town Manager and Board of Health to notify them of the availability of the Phase II Completion Statements. Copies of the notification letters are included as Appendix H.

TABLES

Table 3-1
Monitoring Well and Groundwater Elevation Data
American Tissue Mill
Templeton, Massachusetts

Well Designation	Top of PVC Elevation	Depth to Groundwater (ft below measuring point)	Relative Groundwater Elevation (ft)
MW-1	87.24	3.35	83.89
MW-2	--	--	--
MW-3	82.39	1.75	80.64
MW-4	91.14	3.04	88.10
MW-5	83.77	2.72	81.05
MW-6	94.07	10.32	83.75
MW-7	82.71	10.00	72.71
MW-8	82.21	8.84	73.37
MW-9	84.51	3.83	80.68

Notes:

Reference point elevations of the monitoring wells (top of PVC) were surveyed relative to an arbitrary benchmark elevation of 100 feet (fire hydrant).

MW- 2 was reinstalled on March 31, 2023 and was not resurveyed.

ft = feet

Table 5-1
Soil Boring Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									**2023-MW-01**	**2023-MW-05**		**2023-MW-07**	
Depth Interval									**0 - 2 ft**	**0 - 2 ft**	**2 - 4 ft**	**0 - 2 ft**	**10 - 12 ft**
Sample Date									**02/27/2023**	**03/03/2023**	**03/03/2023**	**03/01/2023**	**03/01/2023**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-MW-01-0002**	**2023-MW-05-0002**	**2023-MW-05-0204**	**2023-MW-07-0002**	**2023-MW-07-1012**
Semivolatiles													
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**2.09**	**0.104**	**0.125**	**1.67 J**	0.0913 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	**0.525**	0.0741 U	0.0763 U	**0.561**	0.0913 U
PCBs													
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.967**	**26.3**	**1.08**	**8.6**	0.0273 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0423 U	**3.59**	0.0446 U	0.221 U	0.0273 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.967**	**29.89**	**1.08**	**8.6**	0.0273 U
Metals													
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**65.2**	**3,780**	**531**	**162 J**	**155**
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**29.1 J**	**676**	**76.1**	**19.3 J+**	**14.7**
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.7 U	3.11 U	2.86 U	3.1 UJ	**13.6**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**54.8 J**	**1,970**	**302**	**17.3**	**90.8**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
R = Rejected
N = Normal
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
Highlights indicate exceedances
Detections shown in bold

Table 5-1
Soil Boring Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									**2023-SB-01**		**2023-SB-05**	**2023-SB-06**	
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**0 - 2 ft**	**0 - 2 ft**	**2 - 4 ft**
Sample Date									**02/27/2023**	**02/27/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-01-0002**	**2023-SB-01-0204**	**2023-SB-05-0002**	**2023-SB-06-0002**	**2023-SB-06-0204**
Semivolatiles													
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.0698 U	**0.0531 J**	**0.157**	0.152 U	0.0782 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.0698 U	0.0716 U	**0.0575 J**	0.152 U	0.0782 U
PCBs													
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**1.41**	**1.21**	**1.99**	**23.5**	**34.8**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.1 U	0.102 U	0.11 U	1.14 U	1.17 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**1.41**	**1.21**	**1.99**	**23.5**	**34.8**
Metals													
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**19.1 J**	**26.1 J**	**57**	**130**	**225**
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**6.92 J-**	**7.11 J-**	**26.8**	**13.4**	**27.8**
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.06 U	3.18 U	3.1 U	3.44 U	3.29 U
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**17.3 J-**	**24.3 J-**	**81**	**85.7**	**125**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
R = Rejected
N = Normal
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
Highlights indicate exceedances
Detections shown in bold

Table 5-1
Soil Boring Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									**2023-SB-07**			
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**
Sample Date									**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-07-0002**	**2023-SB-07-0204**	**2023-SB-07-0406**	**2023-SB-07-0608**
Semivolatiles												
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.071 U	**0.0652 J**	0.0736 U	0.0736 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.071 U	0.075 U	0.0736 U	0.0736 U
PCBs												
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**2.84**	**1.05**	**16.2**	**1.11**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.109 U	0.0231 U	0.468 U	0.046 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**2.84**	**1.05**	**16.2**	**1.11**
Metals												
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**33.1**	**26.3**	**31.4**	**30.1**
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**6.36**	**3.02**	**4.51**	**3.25**
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.26 U	3.35 U	3.29 U	2.4 U
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**23.2**	**8.66**	**19.4**	**12.2**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram U = Not Detected Highlights indicate exceedances
R = Rejected B = Qualified for Blank Contamination Detections shown in bold
N = Normal J = Concentration is estimated, bias is indicated.

Table 5-1
Soil Boring Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									**2023-SB-09**	**2023-SB-12**		**2023-SB-13**	**2023-SB-15**
Depth Interval									**4 - 6 ft**	**0 - 1 ft**	**0 - 2 ft**	**0 - 2 ft**	**4 - 6 ft**
Sample Date									**03/06/2023**	**03/24/2023**	**03/03/2023**	**03/01/2023**	**03/01/2023**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-09-0406**	**2023-SB-12-0001**	**2023-SB-12-0002**	**2023-SB-13-0002**	**2023-SB-15-0406**
Semivolatiles													
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**8.33**	NA	**0.579**	**0.13 J**	0.0694 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	**2.1**	NA	**0.3**	0.142 U	0.0694 U
PCBs													
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.416 J+**	**9.08 J+**	**362**	**10.3**	**1.09**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	**0.0227 J+**	0.248 U	11.9 U	0.42 U	0.206 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.4387 J**	**9.08 J+**	**362**	**10.3**	**1.09**
Metals													
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**24.4 J**	NA	**66.5**	**29.4**	**13.3**
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**8.25 J**	NA	**26.9**	**9.6**	**2.05**
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.96 U	NA	3.11 U	2.49 U	2.99 U
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**14.7 J**	NA	**161**	**14.3**	**7.74**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
R = Rejected
N = Normal
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
Highlights indicate exceedances
Detections shown in bold

Table 5-2
Supplemental PCB Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-3	PCB-5	PCB-7	PCB-9	PCB-10	PCB-11	PCB-13	PCB-14
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023
Sample Type									N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-3-0003	ATM-PCB-5-0003	ATM-PCB-7-0003	ATM-PCB-9-0003	ATM-PCB-10-0003	ATM-PCB-11-0003	ATM-PCB-13-0003	ATM-PCB-14-0003
PCBs																
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**30.5 J**	**7.2 J**	**2.62 J**	**11.5 J**	**33.2 J**	**2.91 J**	**7.65 J**	**11.9 J**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4.
mg/kg = milligrams/kilogram
N = Normal
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 5-2
Supplemental PCB Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-15	PCB-16	PCB-17	PCB-18	PCB-20	PCB-21	PCB-23	PCB-24	PCB-25
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023
Sample Type									N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-15-0003	ATM-PCB-16-0003	ATM-PCB-17-0003	ATM-PCB-18-0003	ATM-PCB-20-0003	ATM-PCB-21-0003	ATM-PCB-23-0003	ATM-PCB-24-0003	ATM-PCB-25-0003
PCBs																	
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**9.39 J**	**8.47 J**	**11 J**	**13.2 J**	**5.13 J**	**4.17 J**	**14.6 J**	**93.6 J**	**18.5 J**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4.
mg/kg = milligrams/kilogram
N = Normal
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 5-2
Supplemental PCB Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-28	PCB-29	PCB-30		PCB-34	PCB-35	PCB-36	PCB-37
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft		0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023	09/25/2023		09/26/2023	09/26/2023	09/26/2023	09/26/2023
Sample Type									N	N	N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-28-0003	ATM-PCB-29-0003	ATM-PCB-30-0003	FD-02-092523	ATM-PCB-34-0003	ATM-PCB-35-0003	ATM-PCB-36-0003	ATM-PCB-37-0003
PCBs																
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**1.27 J**	**1.5 J**	**35.6 J**	**13.2 J**	**12.1 J**	**4.19 J**	**20.4 J**	**2.59 J**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4.
mg/kg = milligrams/kilogram
N = Normal
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 5-2
Supplemental PCB Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-39	PCB-45	PCB-46	PCB-49
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/26/2023	09/26/2023	09/26/2023	09/26/2023
Sample Type									N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-39-0003	ATM-PCB-45-0003	ATM-PCB-46-0003	ATM-PCB-49-0003
PCBs												
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**2.17 J**	**1.09 J**	**1.1 J**	**4.54 J**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4.
mg/kg = milligrams/kilogram
N = Normal
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 5-3
Concrete Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location							**CC-01**	**CC-02**	**CC-03**	**CC-04**	**CC-05**	**CC-06**	**CC-07**	**CC-08**	**CC-09**	**CC-10**	**CC-11**
Sample Date							**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**
Sample Type							**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**High Occupancy (Unconditional)**	**High Occupancy (Conditional)**	**Low Occupancy (Conditional - ICs Only)**	**Low Occpancy (Conditional - Cover and ICs)**	**ATM-CC-01**	**ATM-CC-02**	**ATM-CC-03**	**ATM-CC-04**	**ATM-CC-05**	**ATM-CC-06**	**ATM-CC-07**	**ATM-CC-08**	**ATM-CC-09**	**ATM-CC-10**	**ATM-CC-11**
PCBs																	
Aroclor 1254	11097-69-1	mg/kg	--	--	--	--	**11.1**	**7.37**	**0.466**	**4.92**	**11.2**	**7.81**	**1.56**	**7**	**2.61**	**11.5**	**1.17**
Aroclor 1260	11096-82-5	mg/kg	--	--	--	--	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U	0.497 U	1.1 U	0.0527 U
Aroclor 1268	11100-14-4	mg/kg	--	--	--	--	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U	0.497 U	1.1 U	0.0527 U
Aroclor, Total	AROCLORTOT	mg/kg	≤1	>1 to ≤10	≤25	>25 to ≤100	**11.1**	**7.37**	**0.466**	**4.92**	**11.2**	**7.81**	**1.56**	**7**	**2.61**	**11.5**	**1.17**

Notes:
Criteria from 40 CFR 761.3
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate that the concentration falls within this criteria

U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 5-3
Concrete Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location							**CC-12**	**CC-13**	**CC-14**		**CC-15**	**CC-16**	**CC-17**	**CC-18**	**CC-19**	**CC-20**	**CC-21**
Sample Date							**09/27/2023**	**09/27/2023**	**09/27/2023**		**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**
Sample Type							**N**	**N**	**N**	**FD**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**High Occupancy (Unconditional)**	**High Occupancy (Conditional)**	**Low Occupancy (Conditional - ICs Only)**	**Low Occpancy (Conditional - Cover and ICs)**	**ATM-CC-12**	**ATM-CC-13**	**ATM-CC-14**	**FD-01-092723**	**ATM-CC-15**	**ATM-CC-16**	**ATM-CC-17**	**ATM-CC-18**	**ATM-CC-19**	**ATM-CC-20**	**ATM-CC-21**
PCBs																	
Aroclor 1254	11097-69-1	mg/kg	--	--	--	--	**0.666**	**5.67**	**89.9**	**67**	**6.29**	**13**	**4.33**	**19.3**	**11.3**	**0.0722**	**0.377**
Aroclor 1260	11096-82-5	mg/kg	--	--	--	--	0.0545 U	0.478 U	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U	0.594 U	0.06 U	**1.41**
Aroclor 1268	11100-14-4	mg/kg	--	--	--	--	0.0545 U	0.478 U	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U	0.594 U	0.06 U	**0.814**
Aroclor, Total	AROCLORTOT	mg/kg	≤1	>1 to ≤10	≤25	>25 to ≤100	**0.666**	**5.67**	**89.9**	**67**	**6.29**	**13**	**4.33**	**19.3**	**11.3**	**0.0722**	**2.601**

Notes:
Criteria from 40 CFR 761.3
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate that the concentration falls within this criteria

U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 5-3
Concrete Exceedances
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location							**CC-22**	**CC-23**	**CC-24**	**CC-25**	**CC-26**	**CC-27**	**CC-28**		**CC-29**	**CC-30**
Sample Date							**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**	**09/27/2023**		**09/27/2023**	**09/27/2023**
Sample Type							**N**	**N**	**N**	**N**	**N**	**N**	**N**	**FD**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**High Occupancy (Unconditional)**	**High Occupancy (Conditional)**	**Low Occupancy (Conditional - ICs Only)**	**Low Occpancy (Conditional - Cover and ICs)**	**ATM-CC-22**	**ATM-CC-23**	**ATM-CC-24**	**ATM-CC-25**	**ATM-CC-26**	**ATM-CC-27**	**ATM-CC-28**	**FD-02-092723**	**ATM-CC-29**	**ATM-CC-30**
PCBs																
Aroclor 1254	11097-69-1	mg/kg	--	--	--	--	**0.054 U**	**0.35**	**0.0757**	**0.192**	**0.818**	**0.185**	**14.1**	**11.2**	**0.0574**	**0.479**
Aroclor 1260	11096-82-5	mg/kg	--	--	--	--	**0.234**	**4.34**	**0.188 J**	**0.606**	**1.65**	**0.142**	**14.8**	**12.8**	**0.171**	**0.85**
Aroclor 1268	11100-14-4	mg/kg	--	--	--	--	**0.196**	**3.23**	**0.223**	**0.362**	**1.17**	**0.0585**	**5.77**	**5.26**	**0.133**	**0.487**
Aroclor, Total	AROCLORTOT	mg/kg	≤1	>1 to ≤10	≤25	>25 to ≤100	**0.43**	**7.92**	**0.4867**	**1.16**	**3.638**	**0.3855**	**34.67**	**29.26**	**0.3614**	**1.816**

Notes:
Criteria from 40 CFR 761.3
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate that the concentration falls within this criteria

U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 5-4
Surface Soil Exceedances
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-01	2023-SS-03	2023-SS-04	2023-SS-06
Depth Interval									0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-01	2023-SS-03	2023-SS-04	2023-SS-06
PCBs												
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**1.61**	**5.84**	**1.81**	**6.4**
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**1.61**	**5.84**	**1.81**	**6.4**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024
mg/kg = milligrams/kilogram
N = Normal
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Table 9-1A
EPC for Surface Soil Using 90% UCL
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Matrix	Interval (ft bgs)	Analyte	Units	No. Samples Analyzed[1]	No. of Detects	No. of Non Detects	Exposure Point Concentration[2]	MCP S-1 Exceedance Summary	
								S-1 Standard[3]	Is EPC > S-1?
Soil	0-3[4]	Aroclor 1254	mg/kg	100	87	13	19.93	1	Yes
		Aroclor 1260	mg/kg	100	6	94	0.17	1	No

Notes:

[1]Duplicate samples from same sample location are considered as one sample using the maximum detected result for the purposes of these summary statistics.

[2] Exposure Point Concentration was found using ProUCL Version 5.1 to calculate the 90% KM Chebyshev UCL.

[3]Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(6) Tables 2 S-1 Soil GW-2 & GW-3 Categories, Updated 2024. The lowest value was used.

[4]This exposure point uses data from soil borings in March 2023 and borings for supplemental PCB data in September 2023 and includes samples from 2-4 feet.

Table 9-1B
EPCs for Surface Soil Using Arithmetic Means with Hotspots
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Interval (feet bgs)	Analyte	Units	No. Samples Analyzed[1]	No. of Detects	No. of Non Detects	Percentage Detected	Minimum Detected Concentration	Maximum Detected Concentration	Max Location	Average Detected Concentration[2]	Exposure Point Concentration[3]	MCP S-1 Exceedance Summary				
												S-1 Standard[4]	No. of Exceedances	Percent of data points < S-1 Standard	Is EPC > S-1?	Hot Spots (greater than 10x S-1)
0-3[5]	Aroclor 1254	mg/kg	100	87	13	87%	0.0169	362	SB-12	9.92	362.00	1	42	58%	Yes	Yes
	Aroclor 1260	mg/kg	100	6	94	6.00%	0.0144	3.59	MW-05	0.624	0.198	1	1	99%	No	No

Notes:

[1]Duplicate samples from same sample location are considered as one sample using the maximum detected result for the purposes of these summary statistics.

[2]Average concentrations detected exclude non-detect values.

[3]Exposure Point Concentration average was calculated using half the detection limit value at locations where analytes were not detected.

[4]Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(6) Tables 2 S-1 Soil GW-2 & GW-3 Categories, Updated 2024. The lowest value was used.

[5]This exposure point uses data from soil borings in March 2023 and borings for supplemental PCB data in September 2023 and includes samples from 2-4 feet.

Table 9-1C
EPCs for Surface Soil Using Arithmetic Mean
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Interval (feet bgs)	Analyte	Units	No. Samples Analyzed[1]	No. of Detects	No. of Non Detects	Percentage Detected	Minimum Detected Concentration	Maximum Detected Concentration	Max Location	Average Detected Concentration[2]	Exposure Point Concentration[3]	MCP S-1 Exceedance Summary				
												S-1 Standard[4]	No. of Exceedances	Percent of data points < S-1 Standard	Is EPC > S-1?	Hot Spots (greater than 10x S-1)
0-3[5]	Aroclor 1254	mg/kg	100	87	13	87%	0.0169	362	SB-12	9.92	8.63	1	41	59%	Yes	Yes
	Aroclor 1260	mg/kg	100	6	94	6.00%	0.0144	3.59	MW-05	0.624	0.198	1	1	99%	No	No

Notes:
[1]Duplicate samples from same sample location are considered as one sample using the maximum detected result for the purposes of these summary statistics.
[2]Average concentrations detected exclude non-detect values.
[3]Exposure Point Concentration average was calculated using half the detection limit value at locations where analytes were not detected.

Table 9-2
EPCs for Concrete Using 90% UCL
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Matrix	Interval (ft bgs)	Analyte	Units	No. Samples Analyzed[1]	No. of Detects	No. of Non Detects	Exposure Point Concentration[2]	MCP S-1 Exceedance Summary	
								S-1 Standard[3]	Is EPC > S-1?
Concrete[4]	Surface	Aroclor 1254	mg/kg	30	29	1	16.78	1[5]	Yes
	Surface	Aroclor 1260	mg/kg	30	10	20	2.46	1[5]	Yes
	Surface	Aroclor 1268	mg/kg	30	10	20	1.18	1[5]	Yes

Notes:

[1]Duplicate samples from same sample location are considered as one sample using the maximum detected result for the purposes of these summary statistics.

[2] Exposure Point Concentration was found using ProUCL Version 5.1 to calculate the 90% KM Chebyshev UCL.

[3]Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(6) Tables 2 S-1 Soil GW-2 & GW-3 Categories, Updated 2024. The lowest value was used.

[4]There are no MCP standards for concrete. The EPC was compared to the S-1 standard for soil.

[5]This exposure point uses data from soil borings in March 2023 and borings for supplemental PCB data in September 2023.

Table 9-3
EPCs for Surface and Subsurface Soils Using Arithmetic Means
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Interval (feet bgs)	Analyte	Units	No. Samples Analyzed[1]	No. of Detects	No. of Non Detects	Percentage Detected	Minimum Detected Concentration	Maximum Detected Concentration	Max Location	Average Detected Concentration[2]	Exposure Point Concentration[3]	MCP S-1 Exceedance Summary				
												S-1 Standard[4]	No. of Exceedances	Percent of data points < S-1 Standard	Is EPC > S-1?	Hot Spots (greater than 10x S-1)
0-3[6]	Benzo(a)pyrene	mg/kg	50	17	33	34%	0.0531	2.09	MW-01	0.53	0.21	2	1	98%	No	No
	Barium	mg/kg	50	50	0	100%	11.9	3780	MW-05	131.00	131.00	1000	1	98%	No	No
	Lead	mg/kg	50	50	0	100%	1.68	676	MW-05	26.60	26.60	200	1	98%	No	No
	Zinc	mg/kg	50	50	0	100%	6.55	1970	MW-05	79.20	79.20	1000	1	98%	No	No
3-15[6]	Benzo(a)anthracene	mg/kg	125	11	114	9%	0.452	8.9	SB-09	1.05	0.13	20	1	99%	No	No
	Benzo(a)pyrene	mg/kg	125	10	115	8%	0.0531	8.33	SB-09	1.09	0.12	2	1	99%	No	No
	Benzo(b)fluoranthene	mg/kg	125	8	117	6%	0.0758	9.22	SB-09	1.44	0.13	20	1	99%	No	No
	Dibenz(a,h)anthracene	mg/kg	125	4	121	3%	0.0687	2.1	SB-09	0.668	0.06	2	1	99%	No	No
	Aroclor 1254	mg/kg	125	51	74	41%	0.0169	34.8	SB-06	1.21	34.8[5]	1	7	94%	Yes	Yes
	Thallium	mg/kg	125	12	113	10%	1.21	13.6	MW-07	2.71	3.84	8	1	99%	No	No

Notes:
[1]Duplicate samples from same sample location are considered as one sample using the maximum detected result for the purposes of these summary statistics.
[2]Average concentrations detected exclude non-detect values.
[3]Exposure Point Concentration average was calculated using half the detection limit value at locations where analytes were not detected.
[4]Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(6) Tables 2 S-1 Soil GW-2 & GW-3 Categories, Updated 2024. The lowest value was used.
[5]The data set contained hot spot, which had a concentration (16.2 mg/kg) that was greater than 10 times the S-1 standard.
[6]Data includes samples from the 2-4 foot interval.

Table 9-4
EPCs for Surface Soil Using 90% UCL
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Matrix	Interval (ft bgs)	Analyte	Units	No. Samples Analyzed[1]	No. of Detects	No. of Non Detects	Exposure Point Concentration[2]	MCP S-1 Exceedance Summary	
								S-1 Standard[3]	Is EPC > S-1?
Surface Soil	0-2	Aroclor 1254	mg/kg	10	9	1	5.37	1	Yes

Notes:

[1]Duplicate samples from same sample location are considered as one sample using the maximum detected result for the purposes of these summary statistics.

[2] Exposure Point Concentration was found using ProUCL Version 5.1 to calculate the 90% KM Chebyshev UCL.

[3]Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(6) Tables 2 S-1 Soil GW-2 & GW-3 Categories, Updated 2024. The lowest value was used.

Table 9-5
Data Included in Surface Soil EPC Calculations
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location	Interval (ft bgs)	Sample Type	Sample ID	Date	Analysis	Chemical	Result (Qualifier)		Units
MW-22	0-2	N	MW-22 (12/20/00)(0'-2')	12/20/2000	Pesticides/PCBs	Aroclor 1254	110	U	mg/kg
2023-SS-02	0-2	N	2023-SS-02	2/27/2023	Pesticides/PCBs	Aroclor 1254	0.563		mg/kg
2023-SS-05	0-2	N	2023-SS-05	2/27/2023	Pesticides/PCBs	Aroclor 1254	0.735		mg/kg
B-33	0-2	N	B-33 (12/20/00)(0'-2')	12/20/2000	Pesticides/PCBs	Aroclor 1254	1		mg/kg
2023-SS-01	0-2	N	2023-SS-01	2/27/2023	Pesticides/PCBs	Aroclor 1254	1.61		mg/kg
2023-SS-04	0-2	N	2023-SS-04	2/27/2023	Pesticides/PCBs	Aroclor 1254	1.81		mg/kg
B-32	0-2	N	B-32 (12/20/00)(0'-2')	12/20/2000	Pesticides/PCBs	Aroclor 1254	3.6		mg/kg
MW-21	0-2	N	MW-21 (12/20/00)(0'-2')	12/20/2000	Pesticides/PCBs	Aroclor 1254	5.5		mg/kg
2023-SS-03	0-2	N	2023-SS-03	2/27/2023	Pesticides/PCBs	Aroclor 1254	5.84		mg/kg
2023-SS-06	0-2	N	2023-SS-06	2/27/2023	Pesticides/PCBs	Aroclor 1254	6.4		mg/kg

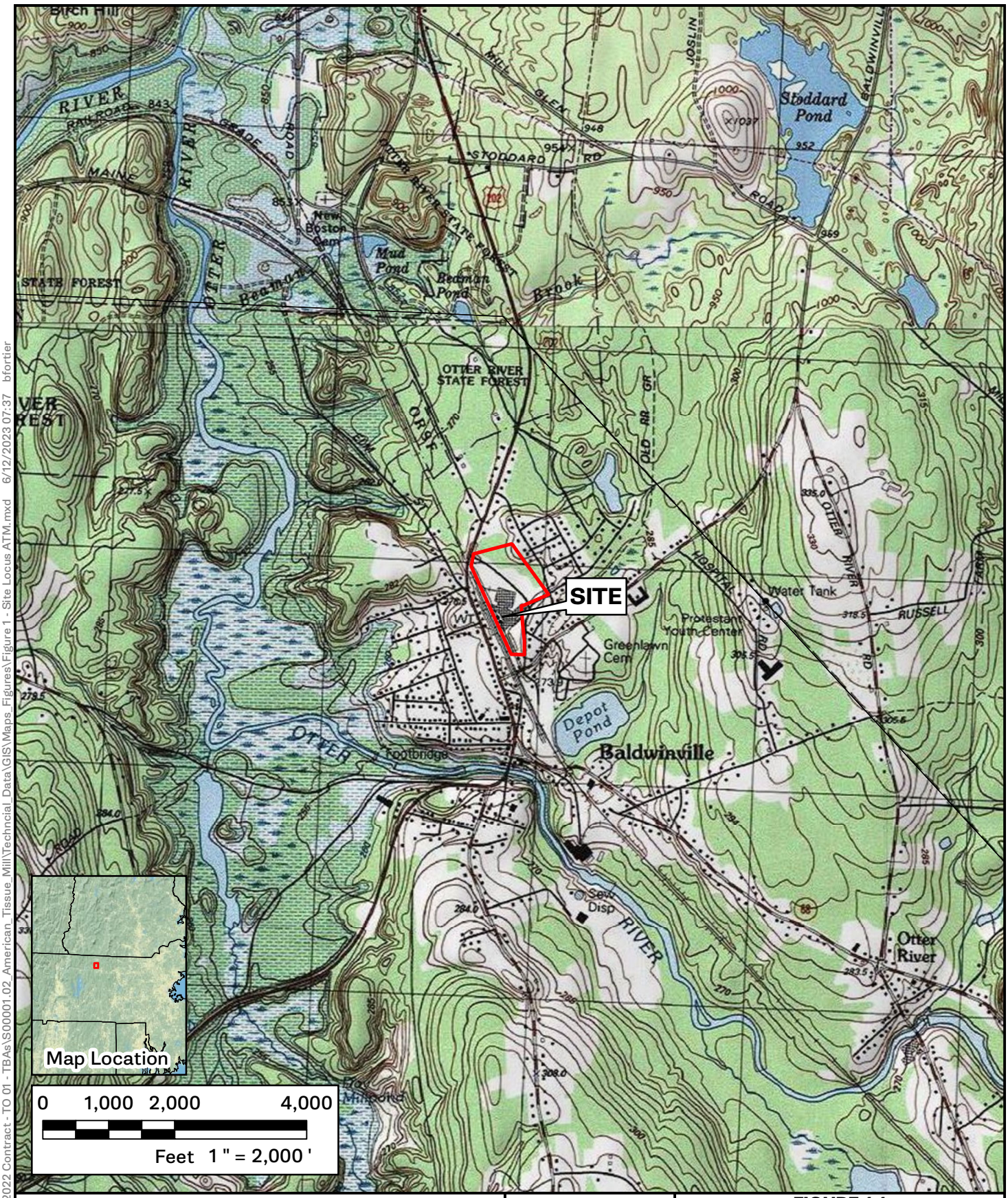
Notes:

N = Normal

U = Non Detect

mg/kg = milligrams per kilogram

FIGURES



USGS Topographic Map
Revised 1983

N

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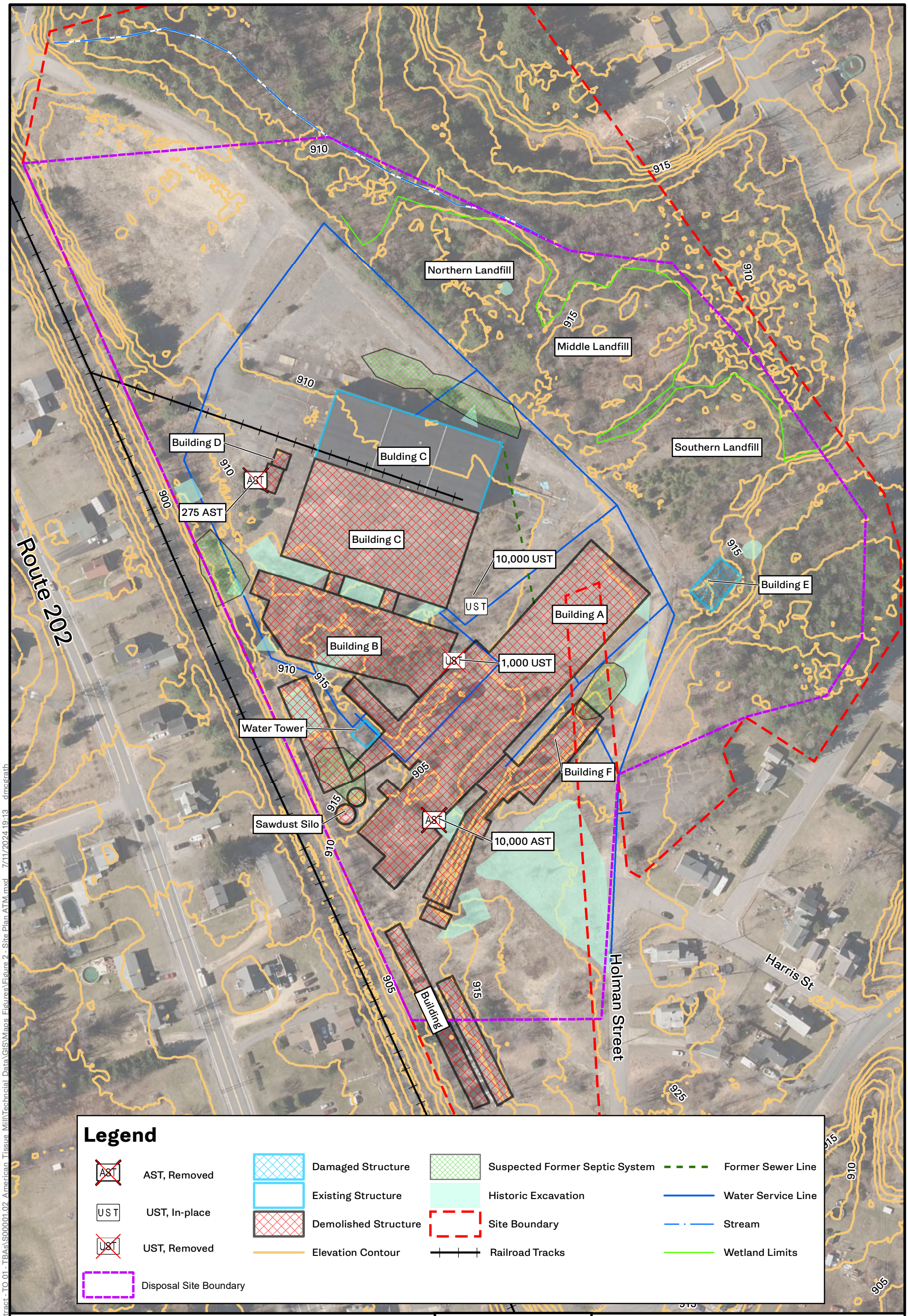
FIGURE 1-1
SITE LOCUS
AMERICAN TISSUE MILL
4 HOLEMAN STREET
TEMPLETON, MASSACHUSETTS

PREPARED BY: TF	CHECKED BY: RM
PROJECT NO. S00001.02	DATE: JUNE 2023

J:\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02_American_Tissue_Mill\Technical_Data\GIS\Maps_Figures\Figure 1 - Site Locus ATM.mxd 6/12/2023 07:37 bfortier



Notes:

1. Elevation contours were created using lidar data from MassGIS and captured in 2013/2014. The contour elevations are approximate and used for visualization purposes only.

0 62.5 125 250

Feet

1 inch = 125 feet

N

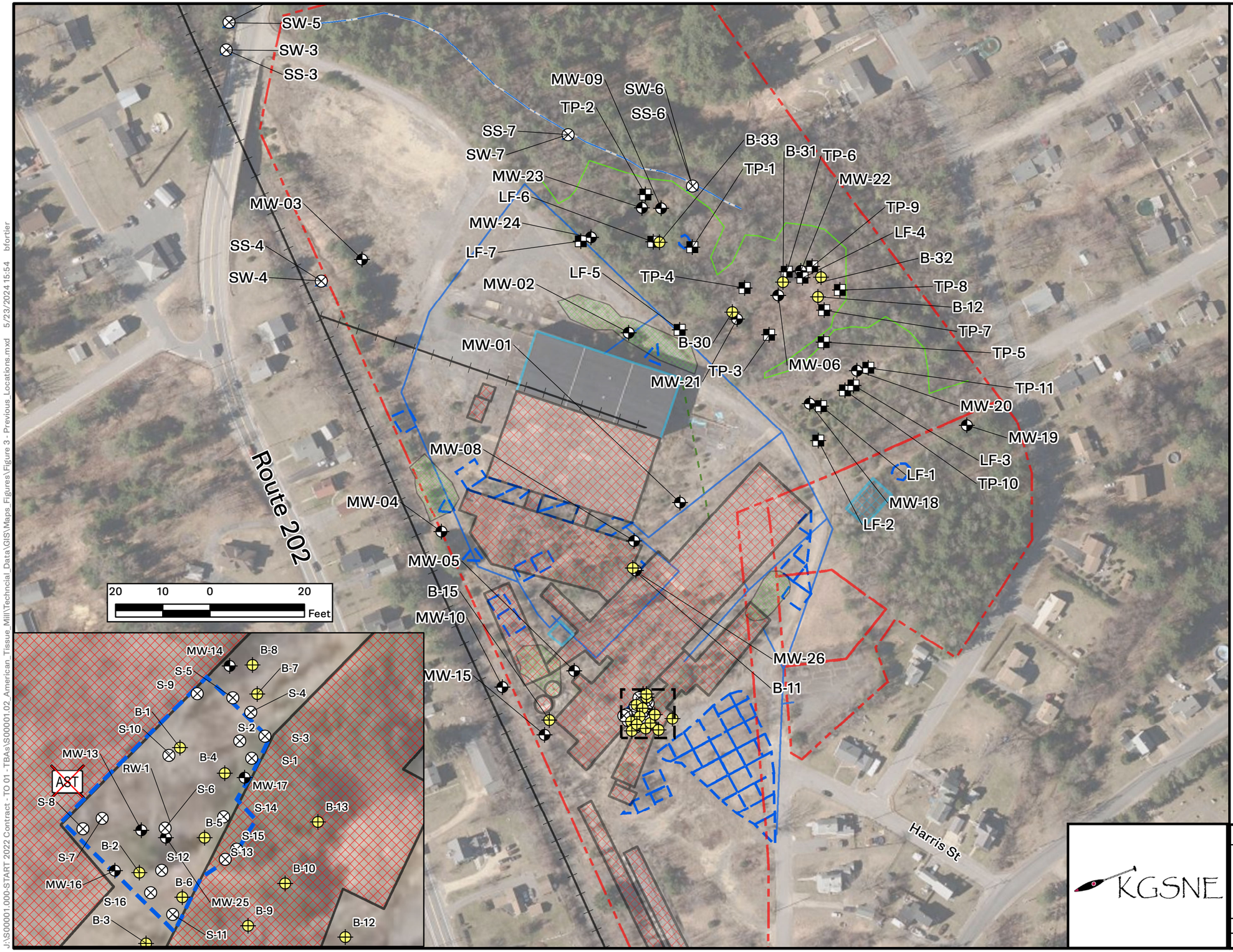
KGSNE

FIGURE 2-1

SITE PLAN
AMERICAN TISSUE MILL
4 HOLEMAN STREET
TEMPLETON, MA

PREPARED BY: BMF	CHECKED BY: DM
PROJECT NO.S00001.002	DATE: JUNE 2024

J:\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02 American Tissue Mill\Technical Data\GIS\Maps Figures\Figure 2 - Site Plan ATM.mxd 7/11/2024 19:13 dmcgrath



Notes:

1. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

Legend

- Previous Monitoring Well
- Previous Soil Boring
- Previous Soil Sample
- Previous Surface Water
- Previous Test Pit
- Approximate Site Boundaries
- Existing Structure
- Damaged Structure
- Demolished Structure
- Septic System
- Historic Excavation
- Former Sewer Line
- Water Service Line
- Stream
- Wetland Limits
- RailRoad

0 75 150 300
Feet
1 inch = 150 feet

N

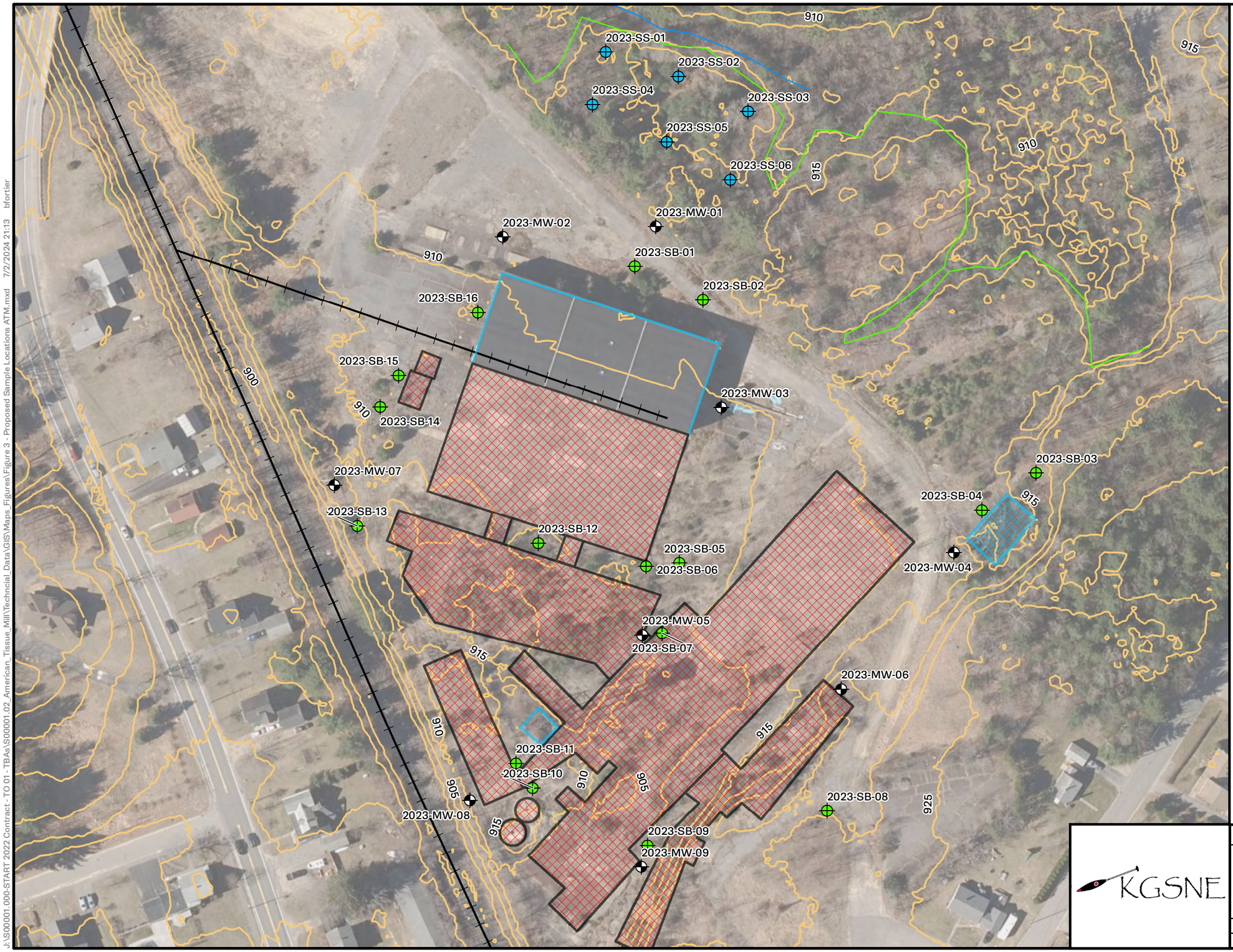
KGSNE

FIGURE 2-2

PREVIOUS LOCATIONS PLAN
AMERICAN TISSUE MILL
4 HOLMAN STREET
TEMPLETON, MASSACHUSETTS

PREPARED BY: TF	CHECKED BY: RM
PROJECT NO. S00001.02	DATE: JUNE 2023

J:\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02_American_Tissue_Mill\Technical_Data\GIS\Maps_Figures\Figures\Figure 3 - Previous_Locations.mxd 5/23/2024 15:54 bfortier



Notes:
1. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

2. Elevation contours were created using lidar data from MassGIS and captured in 2013/2014. The contour elevations are approximate and used for visualization purposes only.

Legend

- RailRoad
- streams
- Wetlands Limit
- Damaged Structure
- Existing Structure
- Demolished Structure
- Monitoring Well Location
- Boring Location
- Surface Soil Location
- Elevation Contour

N

0 50 100 200

Feet
1 inch = 100 feet

KGSNE

FIGURE 3-1

MARCH 2023 SAMPLE LOCATIONS
AMERICAN TISSUE MILL
4 HOLMAN STREET
TEMPLETON, MASSACHUSETTS

PREPARED BY: TF	CHECKED BY: RM
PROJECT NO. S00001.02	DATE: JUNE 2023

J:\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02_American_Tissue_Mill\Technical_Data\GIS\Maps_Figures\Figure 3 - Proposed Sample Locations ATM.mxd 7/2/2024 21:13 bfortier

Notes:
1. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

2. Elevation contours were created using lidar data from MassGIS and captured in 2013/2014. The contour elevations are approximate and used for visualization purposes only.

Legend

PCB Analytical Results

- < 1 mg/kg
- >1 - 4 mg/kg
- > 4 - 10 mg/kg
- > 10 mg/kg
- RailRoad
- Streams
- Wetlands Limit
- Damaged Structure
- Existing Structure
- Demolished Structure
- Elevation Contour

0 25 50 100
Feet
1 inch = 50 feet

N

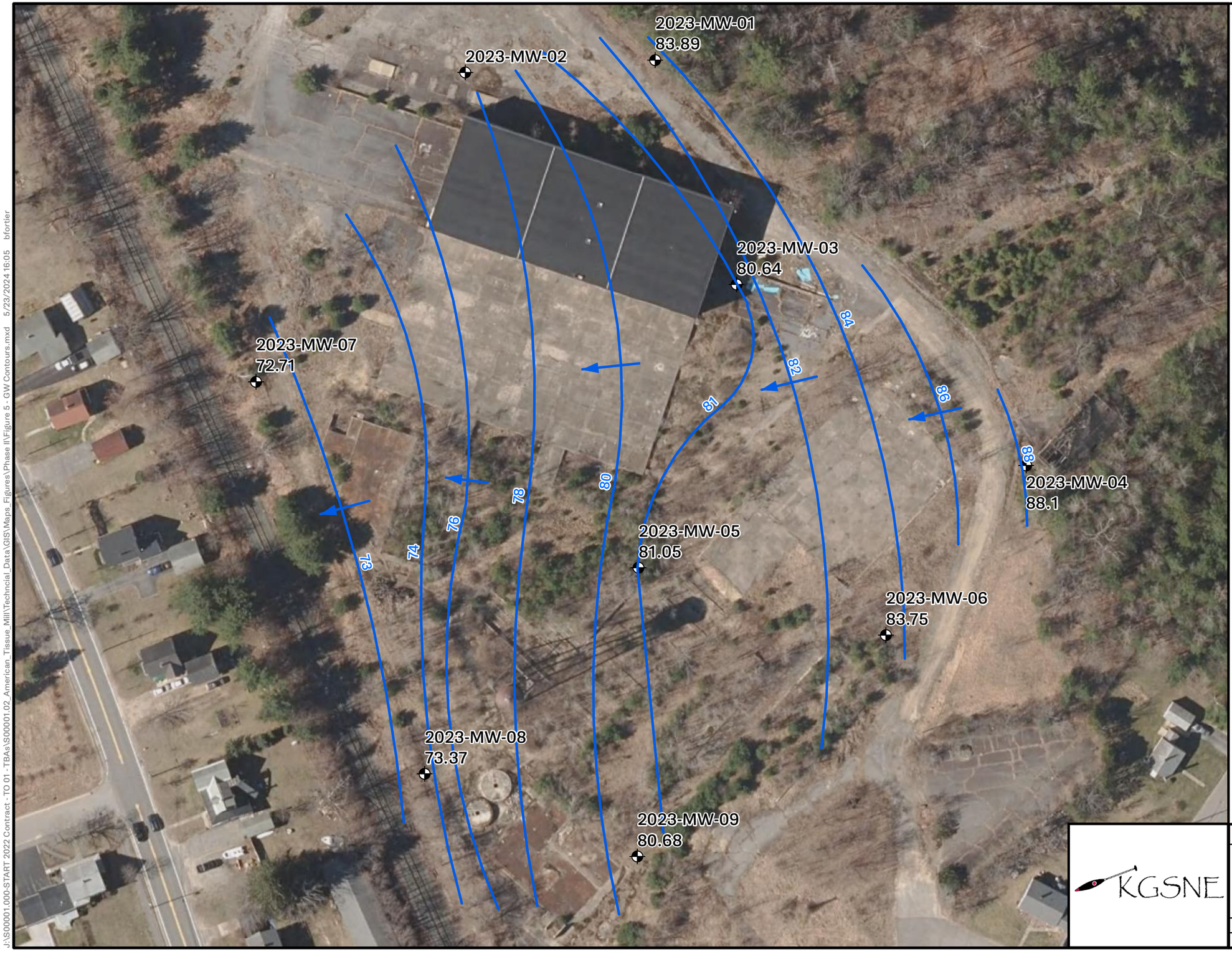
KGSNE

FIGURE 3-2

SOIL SAMPLE PCB ANALYTICAL
RESULTS <4' BGS
AMERICAN TISSUE MILL
4 HOLMAN STREET
TEMPLETON, MASSACHUSETTS

PREPARED BY: TF	CHECKED BY: DM
PROJECT NO. S00001.02	DATE: JULY 2024

\\nobis.local\shares\Projects\Active\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02_American_Tissue_Mill\Technical_Data\GIS\Maps_Figures\For_EPA\Figure 1 - Supplemental PCB Data.mxd 7/3/2024 09:06 tfistori



Notes:

1. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

2. 2023-MW-02 was not surveyed due to damages to the PVC pipe.

Legend

- Groundwater Contour
- Groundwater Flow Direction
- Monitoring Well

0 40 80 160

Feet
1 inch = 80 feet

N

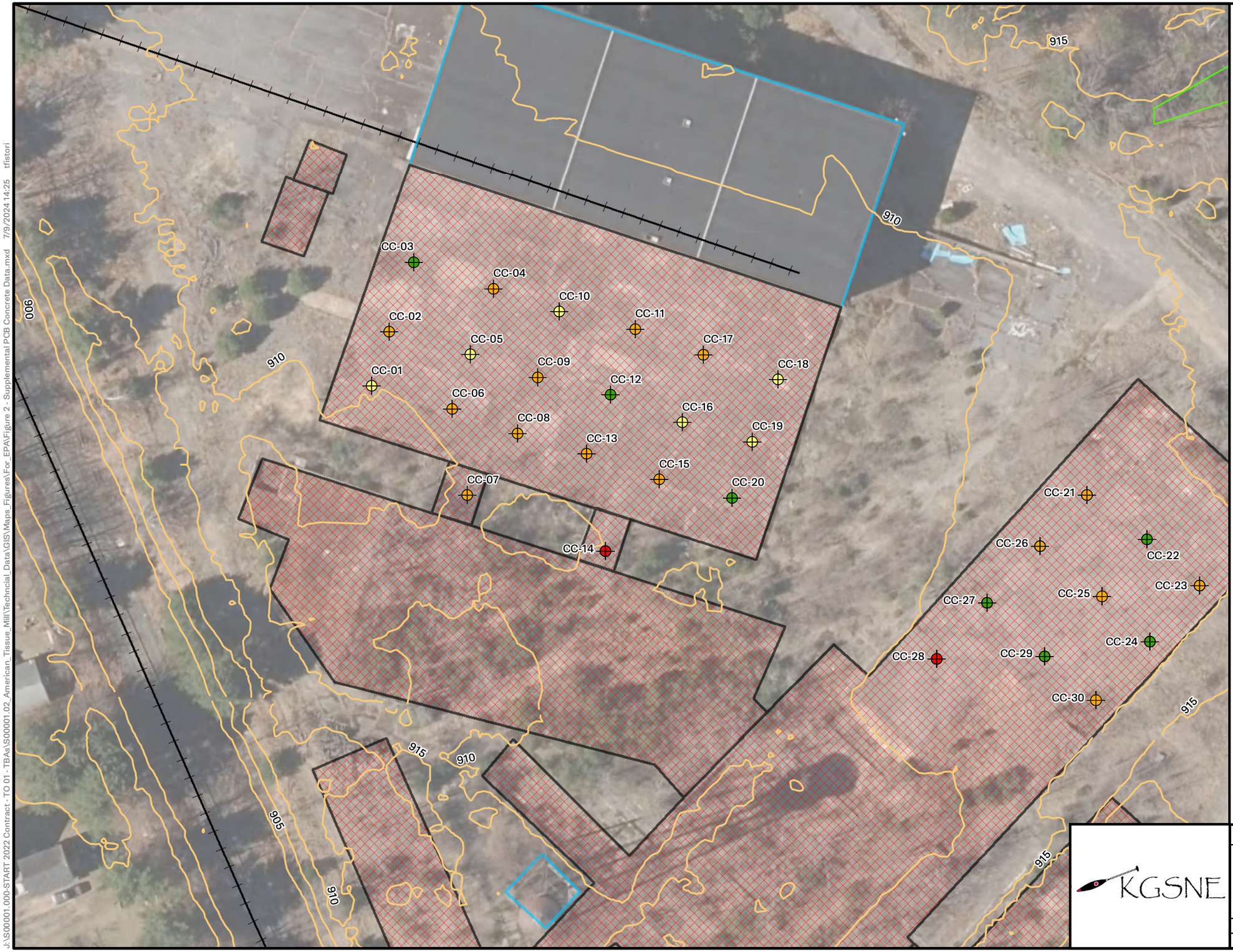
KGSNE

FIGURE 3-3

GROUNDWATER CONTOURS
AMERICAN TISSUE MILL
PHASE II
TEMPLETON, MA

PREPARED BY: BMF	CHECKED BY: DM
PROJECT NO. S00001.02	DATE: JUNE 2023

J:\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02_American_Tissue_Mill\Technical_Data\GIS\Maps_Figures\Phase II\Figure 5 - GW Contours.mxd 5/23/2024 16:05 bfortier



Notes:
1. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

2. Elevation contours were created using lidar data from Mass GIS and captured in 2013/2014. The contour elevations are approximate and used for visualization purposes only.

Legend

PCB Analytical Results

- ≤1 mg/kg
- >1 - ≤10 mg/kg
- ≤25 mg/kg
- >25 - ≤100 mg/kg
- RailRoad
- Streams
- Wetlands Limit
- Damaged Structure
- Existing Structure
- Demolished Structure
- Elevation Contour

N

0 25 50 100

Feet
1 inch = 50 feet

KGSNE

FIGURE 3-4

CONCRETE SAMPLE PCB ANALYTICAL
AMERICAN TISSUE MILL
4 HOLMAN STREET
TEMPLETON, MASSACHUSETTS

PREPARED BY: TF	CHECKED BY: DM
PROJECT NO. S00001.02	DATE: JULY 2024

J:\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02 American Tissue Mill\Technical Data\GIS\Maps_Figures\For_EPA\Figure 2 - Supplemental PCB Concrete Data.mxd 7/9/2024 14:25 tfistori

MassDEP - Bureau of Waste Site Cleanup

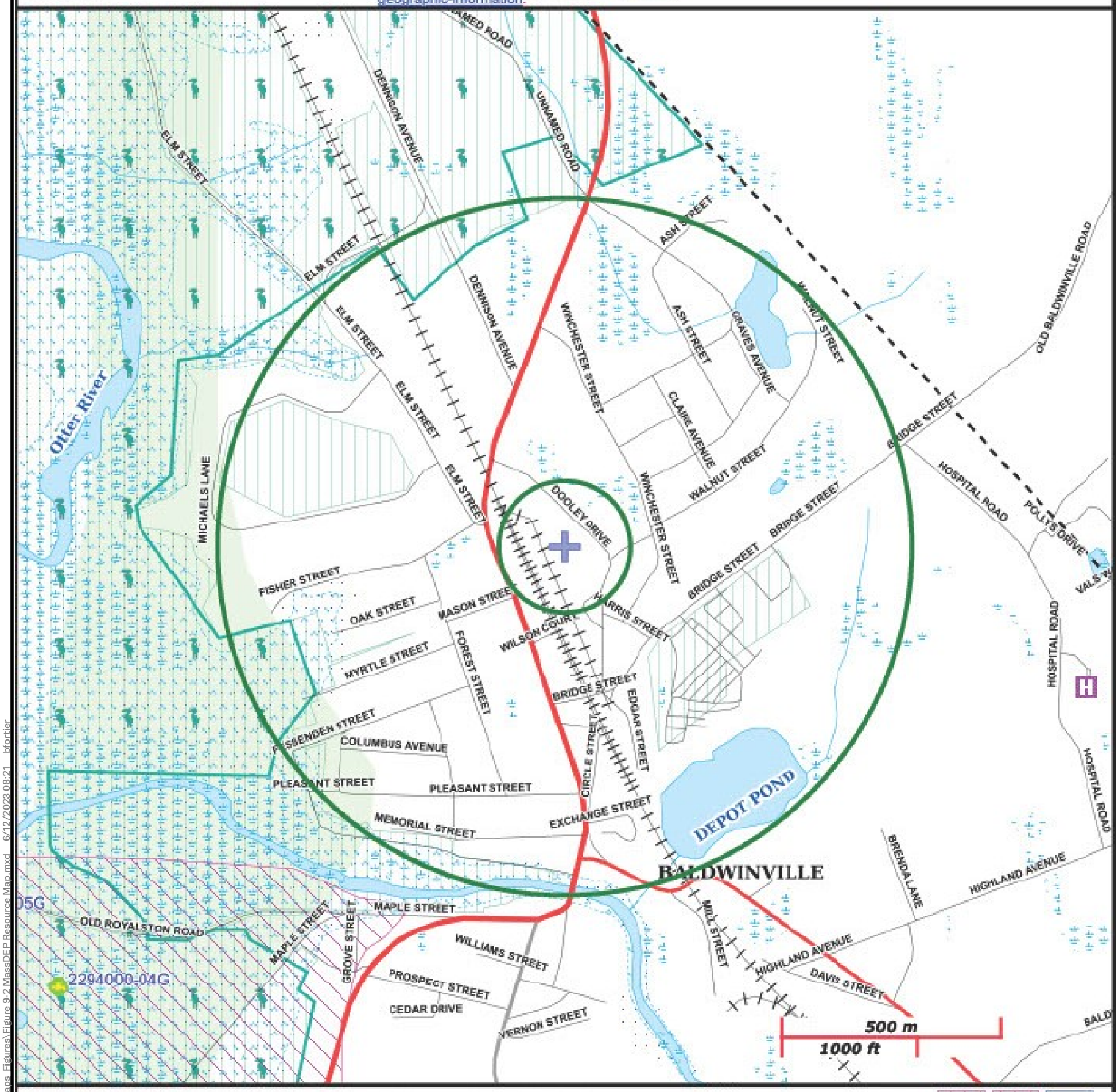
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
AMERICAN TISSUE MILL
4 HOLEMAN AVE TEMPLETON, MA

NAD83 UTM Meters:
4722058mN , 739865mE (Zone: 18)
June 2, 2023

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: https://www.mass.gov/orgs/massgis-bureau-of-geographic-information.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

NHESP Pri-Hab of Rare Species; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com.GW,SW, Emerg.,Non-Com.

N

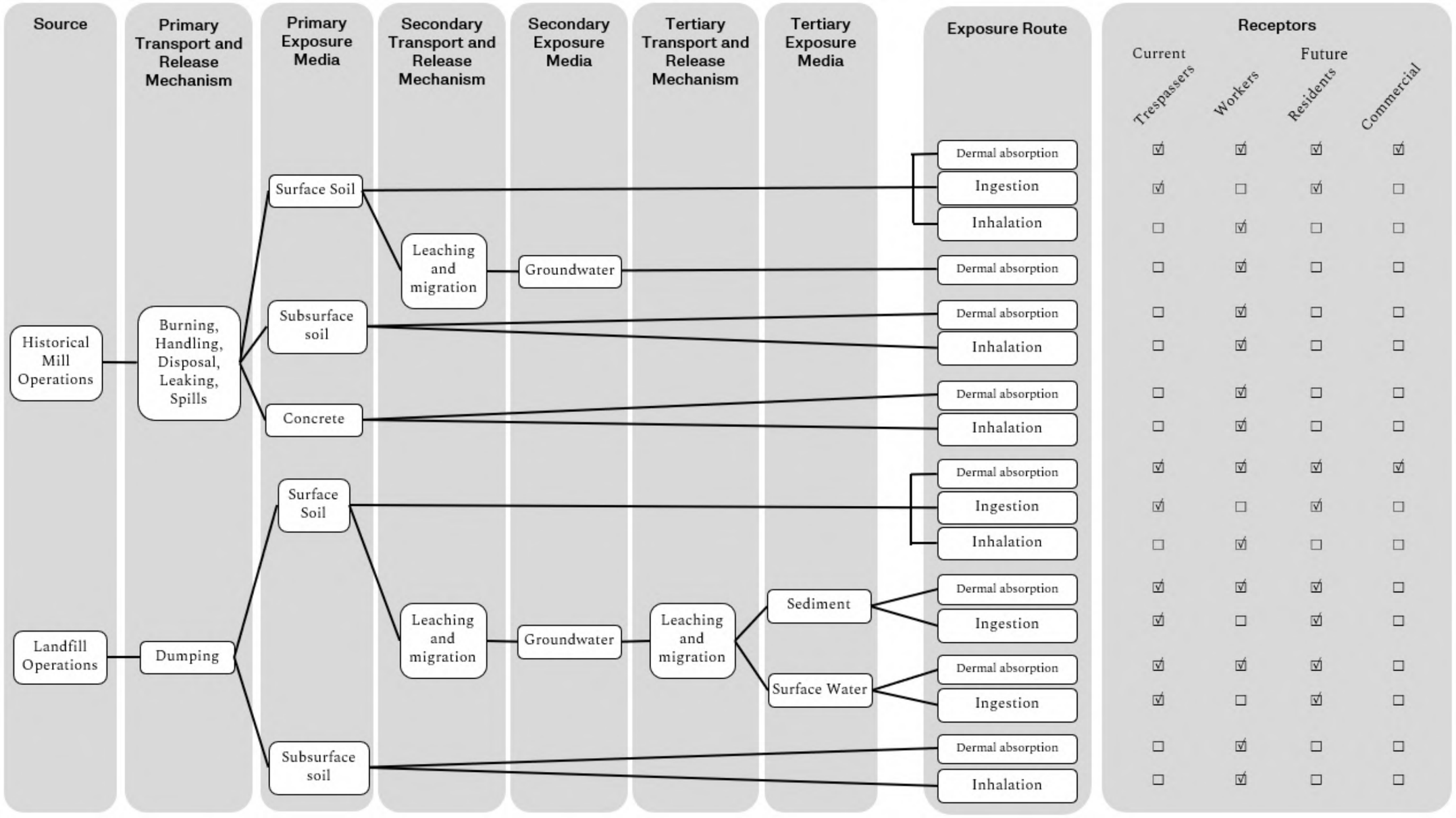
KGSNE

FIGURE 9-1

MassDEP PRIORITY RESOURCE MAP
AMERICAN TISSUE MILL
4 HOLEMAN AVE
TEMPLETON, MA

PREPARED BY: BMF	CHECKED BY: DM
PROJECT NO. S00001.002	DATE: JUNE 2023

J:\S00001.000-START 2022 Contract - TO 01 - TBAs\S00001.02 American Tissue Mill\Technical Data\GIS\Maps_Figures\Figure 9-2 MassDEP Resource Map.mxd 6/12/2023 08:21 bfortier



☑ = Complete Exposure Pathway ☐ = Incomplete Exposure Pathway

KGSNE

FIGURE 10-1

CONCEPTUAL SITE MODEL
AMERICAN TISSUE MILL
4 HOLMAN STREET
TEMPLETON, MASSACHUSETTS

PREPARED BY: BF	CHECKED BY: DM
PROJECT NO. S00001.02	DATE: JULY 2024

J:\S00001.000-START 2022 Contract - TO 01- TBAs\S00001.02 American Tissue Mill\Technical Data\GIS\Maps_Figures\ATM_ArcPro.aprx 7/5/2024 19:23 bfortier

APPENDIX A

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-01**

Boring Location: MW-01

Checked by: B. Fortier

Date Start: February 27, 2023

Date Finish: February 27, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

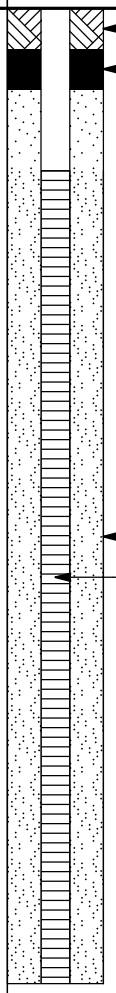
	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	3.35		10.1	23 days

Depth (ft.)	Sample Info: Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Lithology: Graphic	Lithology: Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)
1	S-1	47	0-5					ASPHALT	S-1A (5"): Black, Asphalt. Dry. S-1B (18"): Dark brown to brown, fine to coarse SAND, some Silt, little fine to coarse Gravel. Dry.
2					0				
3					0				S-1C (24"): Tan, fine to coarse SAND, little Silt. Moist.
4						▼			
5					0				
6	S-2	56	5-10		0				S-2A (35"): Tan, fine to coarse SAND, little Silt, trace fine to coarse Gravel. Wet.
7					0				
8								SILTY SAND	
9					0				S-2B (13"): Tan, fine to medium SAND, some Silt. Wet.
10									S-2C (8"): Tan, fine to coarse SAND, trace Silt. Wet.
11	S-3	57	10-12						S-3A (43"): Tan, fine to coarse SAND, trace Silt. Wet.
12					0				
13									
14					0 0				S-3B (6"): Gray, SILT and fine Sand. Wet.
15								CLAY	S-3C (8"): Gray, CLAY. Wet. Boring terminated at 12 feet

WELL DETAIL



NOTES

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-MW-01-0002 at 13:30, 2023-MW-01-0204 at 13:35, 2023-MW-01-0406 at 13:40, 2023-MW-01-0608 at 13:45, 2023-MW-01-0810 at 13:50, 2023-MW-01-1012 at 13:55.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:02 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNICAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-02**

Boring Location: MW-02

Checked by: B. Fortier

Date Start: February 27, 2023

Date Finish: February 27, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	8.85		11.71	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
1	S-1	42	0-5					ASPHALT	S-1A (7"): Black, Asphalt. Dry.	Concrete road box	
								GRAVELLY SAND	S-1B (12"): Tan, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	Bentonite chips	
2					0					Filter sand	
3					0				S-1C (23"): Brown to tan, fine to medium SAND, some Silt, trace fine to coarse Gravel. Moist.		
4					0			SILTY SAND			
5					0						
6	S-2	48	5-10						S-2A (15"): Tan, fine to medium SAND, little Silt, trace fine to coarse Gravel. Moist.		
					0						
7									S-2B (26"): Tan to orange, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Moist.		
8					0			GRAVELLY SAND		0.010 inch slotted PVC	
9						▼			S-2C (7"): Tan, fine SAND, some Silt. Moist.		
10					0						
11	S-3	37	10-12		0			SILTY SAND	S-3A (18"): Tan, fine to medium SAND, little Silt, trace fine Gravel. Moist.		
12					0				S-3B (9"): Tan to gray, fine SAND and Silt. Wet.		
13									S-3C (10"): Orange, fine to medium SAND, some Silt. Wet.		
14									Boring terminated at 12 feet.		
15											

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-MW-02-0002 at 15:00, 2023-MW-02-0204 at 15:05, 2023-MW-02-0406 at 15:10, 2023-MW-02-0608 at 15:15, 2023-MW-02-0810 at 15:20, 2023-MW-02-1012 at 15:25.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:02 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-03**

Boring Location: MW-03

Checked by: B. Fortier

Date Start: March 3, 2023

Date Finish: March 6, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

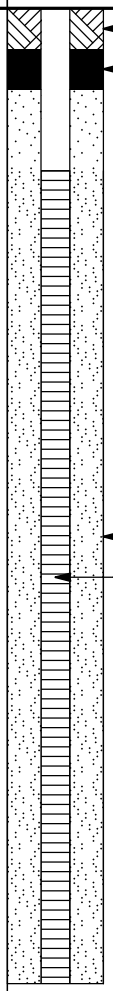
	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	1.75		10.1	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)
	S-1	36	0-5					ASPHALT	S-1A (5"): Black, Asphalt. Dry.
1					7.5			SILTY SAND	S-1B (16"): Tan to orange, fine to coarse SAND, some Silt, trace fine to coarse Gravel. Wet.
2					7	▼			S-1C (5"): Gray, Silty CLAY. Wet.
3					5.7				
4					5.7				
5					5.6				
	S-2	57	5-10						S-2A (5"): Gray to tan, fine to coarse SAND and fine Gravel. Wet.
6								SILT AND CLAY	S-2B (17"): Tan, Clayey SILT, little fine to medium Sand. Wet.
7					6				
8					5.1				S-2C (35"): Tan, Clayey SILT. Wet.
9					5				
10					5.6				
	S-3	57	10-12						S-3A (16"): Gray, fine to medium SAND, some fine to coarse Gravel, trace Silt. Wet.
11								GRAVELLY SAND	
12									S-3B (41"): Gray, Silty CLAY. Wet.
13								SILTY CLAY	
14									
15									Boring terminated at 12 feet

WELL DETAIL



NOTES

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-MW-03-0002 at 14:20, 2023-MW-03-0204 at 14:25, 2023-MW-03-0406 at 14:30, 2023-MW-03-0608 at 14:35, 2023-MW-03-0810 at 14:40, 2023-MW-03-1012 at 14:20 (3/6/23).

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:02 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-04**

Boring Location: MW-04

Checked by: B. Fortier

Date Start: March 2, 2023

Date Finish: March 2, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	3.04		11.66	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
0	S-1	45	0-5					SAND AND GRAVEL	S-1A (7"): Dark brown, fine to coarse SAND and fine to coarse Gravel. Dry. S-1B (38"): Tan, fine to medium SAND, little Silt, White crashed rock from 29 to 34 inches. Moist.	Concrete road box Bentonite chips	
1					0.2						
2											
3					0.2						
4					0.2	▼					
5					0.2			SILTY SAND			
6	S-2	54	5-10						S-2A (30"): Tan, fine to medium SAND, some Silt. Wet.		
7					0.2					Filter sand	
8					0.2				S-2B (24"): Tan, Silty CLAY. Wet.	0.010 inch slotted PVC	
9								SILTY CLAY			
10					0.2						
11	S-3	57	10-12		0.2				S-3A (38"): Tan, fine to medium SAND, some Silt. Wet.		
12											
13					0.2			SILTY SAND			
14									S-3B (19"): Tan, fine SAND and Silt. Wet.		
15									Boring terminated at 12 feet		

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-MW-04-0002 at 11:10, 2023-MW-04-0204 at 11:15, 2023-MW-04-0406 at 11:20, 2023-MW-04-0608 at 11:25, 2023-MW-04-0810 at 11:30, 2023-MW-04-1012 at 11:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-05**

Boring Location: MW-05

Checked by: B. Fortier

Date Start: March 3, 2023

Date Finish: March 3, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

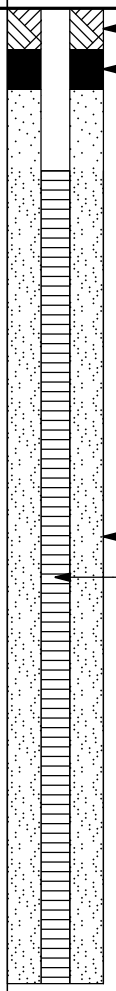
	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/20/23	00:00	2.72		10.68	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)
1	S-1	35	0-5					SILTY SAND	S-1A (19"): Brown, fine to coarse SAND, some Silt, trace fine to coarse Gravel, Very few brick fragments at 18 inches. Moist.
2					2.1				
					4			ASPHALT	S-1B (6"): Black, Asphalt. Very few wood fragments at 24 inches. Dry.
3					5	▼			S-1C (10"): Dark brown, fine to medium SAND and Silt. Moist.
4					3.1				
5									
6	S-2	41	5-10		4				S-2A (41"): Dark brown, fine to medium SAND, some Silt. Wet.
7									
8									
9								SILTY SAND	
10					2.1				
11	S-3	57	10-12		3.3				S-3A (57"): Dark brown, fine to medium SAND, little Silt, little fine to coarse Gravel. Wet.
12									
13					4.7				
14									
15					4.8				Boring terminated at 12 feet

WELL DETAIL



NOTES

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-MW-05-0002 at 10:40, 2023-MW-05-0204 at 10:45, 2023-MW-05-0406 at 11:05, 2023-MW-05-0608 at 10:50, 2023-MW-05-0810 at 10:55, 2023-MW-05-1012 at 11:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-06**

Boring Location: MW-06

Checked by: B. Fortier

Date Start: March 2, 2023

Date Finish: March 2, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	10.32		11.21	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
1	S-1	49	0-5		0.2				S-1A (16"): Dark brown, fine to medium SAND, some Silt, trace fine Gravel, Few roots throughout. Moist.	Concrete road box; Bentonite chips	
2									S-1B (29"): Tan, fine SAND, little Silt, Orange staining throughout. Moist.		
3					0.2						
4					0.2				S-1C (4"): Tan, fine to coarse SAND, trace Silt. Moit.		
5					0.2						
6	S-2	51	5-10		0.2				S-2A (5"): Gray, fine to medium SAND, little Silt. Moist. S-2B (4"): Orange, fine to coarse SAND, trace fine Gravel. Moist. S-2C (21"): Tan with orange staining, fine to medium SAND, some Silt. Moist.		
7								SILTY SAND		Filter sand; 0.010 inch slotted PVC	
8					0.2				S-2D (21"): Tan, fine SAND and Silt. Wet.		
9											
10					0.2						
11	S-3	40	10-12		0.2	▼			S-3A (20"): Tan, fine to medium SAND, some Silt. Wet.		
12									S-3B (20"): Tan to gray, fine SAND and Silt. Wet.		
13					0.2						
14									Boring terminated at 12 feet.		
15											

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-MW-06-0002 at 14:15, 2023-MW-06-0204 at 14:20, 2023-MW-06-0406 at 14:25, 2023-MW-06-0608 at 14:30, 2023-MW-06-0810 at 14:35, 2023-MW-06-1012 at 14:40.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

nobis

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-07**

Boring Location: MW-07

Checked by: B. Fortier

Date Start: March 1, 2023

Date Finish: March 1, 2023

Contractor: Technical Drilling Services

Driller: M. Kelly

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	10.00		14.67	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
0	S-1	46	0-5						S-1A (46"): Dark brown to tan, fine to medium SAND, some Silt, trace fine to coarse Gravel, Seam of Asphalt at 8 inches, vert few roots and leaves at top 3 inches. Dry.	Concrete road box	
1					0.1						
					0.1					Filter sand and cuttings	
2											
										Bentonite chips	
3											
4					0.1						
					0.1						
5											
	S-2	46	5-10					SILTY SAND	S-2A (46"): Tan with orange staining, fine to medium SAND, little Silt. Moist.		
6					0.1						
7											
					0.1						
8					0.1						
9										Filter sand	
					0.1						
10						▼				0.010 inch slot PVC	
	S-3	28	10-12						S-3A (12"): Tan, fine to coarse SAND, some Silt. Wet.		
11											
									S-3B (16"): Tan to brown, CLAY. Wet.		
12								CLAY			
									Boring terminated at 12 feet.		
13											
14											
15											

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-MW-07-0002 at 14:05, 2023-MW-07-0204 at 14:10, 2023-MW-07-0406 at 14:15, 2023-MW-07-0608 at 14:20, 2023-MW-07-0810 at 14:25, 2023-MW-07-1012 at 14:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-08**

Boring Location: MW-08

Checked by: B. Fortier

Date Start: March 6, 2023

Date Finish: March 6, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	8.84		14.35	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
1	S-1	45	0-5					ASPHALT	S-1A (8"): Black, Asphalt. Dry.	Concrete road box	
								GRAVELLY SAND	S-1B (10"): Dark brown, fine to medium SAND, some fine to coarse Gravel, trace Silt. Dry.		
2					0.4				S-1C (25"): Tan to brown, fine to medium SAND, little Silt. Dry.	Filter sand and cuttings	
3					1.7						
4					1.2					Bentonite chips	
5					0.2						
6	S-2	48	5-10					SILTY SAND	S-2A (48"): Dark brown to tan, fine to medium SAND, some Silt. Moist.		
7					0.5						
8											
9					1.6	▼					
10					0					Filter sand	
11	S-3	22	10-12					GRAVELLY SAND	S-3A (22"): Tan to gray, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Wet.	0.010 inch slotted PVC	
12					0						
13									Boring terminated at 12 feet.		
14											
15											

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples: 2023-MW-08-0002 at 8:45, 2023-MW-08-0204 at 8:50, 2023-MW-08-0406 at 8:55, 2023-MW-08-0608 at 9:00, 2023-MW-08-0810 at 9:05, 2023-MW-08-1012 at 9:10.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNICAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **MW-09**

Boring Location: MW-09

Checked by: B. Fortier

Date Start: March 6, 2023

Date Finish: March 6, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▼ 03/30/23	00:00	3.83		14.27	23 days

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)
1	S-1	43	0-5					GRAVEL	S-1A (10"): White, Crushed rock. Dry.
2					0.6				S-1B (12"): Dark brown to black, fine to medium SAND, little Silt, little fine Gravel, Few roots and peat at 13 inches. Dry.
3					1.2				S-1C (21"): Orange to tan, fine to medium SAND, trace Silt. Moist.
4					1.7				
5					0.7	▼		SAND	
6	S-2	46	5-10		2.6				S-2A (24"): Tan, fine to medium SAND, trace Silt, trace fine Gravel. Wet.
7					3				
8					1.8				S-2B (22"): Tan, Clayey SILT and fine Sand. Wet.
9					2.1			CLAYEY SILT	
10					2.3				S-2C (4"): Tan, fine to medium SAND, little Silt. Wet.
11	S-3	50	10-12					SAND	S-3A (15"): Tan to dark brown, fine to medium SAND and fine to coarse Gravel. Wet.
12									S-3B (7"): Tan, fine to medium SAND, little Silt. Wet.
13								CLAYEY SILT	S-3C (19"): Tan to orange, Clayey SILT and fine Sand. Wet.
14								SAND	S-3D (9"): Orange, fine to medium SAND, trace Silt. Wet.
15									Boring terminated at 12 feet.

WELL DETAIL: Concrete road box; Bentonite chips; Filter sand; 0.010 inch slotted PVC

NOTES

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-MW-09-0002 at 13:00, 2023-MW-09-0204 at 13:05, 2023-MW-09-0406 at 13:10, 2023-MW-09-0608 at 13:15, 2023-MW-09-0810 at 13:20, 2023-MW-09-1012 at 13:25.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNICIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-01**

Boring Location: SB-01

Checked by: B. Fortier

Date Start: February 27, 2023

Date Finish: February 27, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	40	0-5					SAND	S-1A (40"): Brown to tan, fine to medium SAND, little Silt, trace fine to coarse Gravel, Few organic material at top 2 inches (roots). Moist.	
2					0					
3					0					
4					0					
5					0					
6	S-2	49	5-10						S-2A (22"): Tan, fine to coarse SAND, trace fine Gravel, trace Silt. Wet.	
7					0					
8					0			CLAYEY SILT FILL	S-2B (6"): Tan to gray, Clayey SILT. Wet.	
9					0				S-2C (17"): Tan to red, fine to coarse SAND, little Silt. Wet.	
10									S-2D (4"): Reddish, fine to medium SAND, some Silt. Wet.	
11	S-3	58	10-12						S-3A (43"): Tan to red, fine to medium SAND, some Silt. Wet.	
12					0			SILTY SAND		
13					0					
14									S-3B (15"): Reddish to tan, SILT and fine Sand. Wet.	
15									Boring terminated at 12 feet	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-01-0002 at 13:00, 2023-SB-01-0204 at 13:05, 2023-SB-01-0406 at 13:10, 2023-SB-01-0608 at 13:15, 2023-SB-01-0810 at 13:20, 2023-SB-01-1012 at 13:25.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

nobis

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-02**

Boring Location: SB-02

Checked by: B. Fortier

Date Start: February 27, 2023

Date Finish: February 27, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	40	0-5					SAND	S-1A (40"): Brown to tan, fine to medium SAND, some Silt, Few organic material at top 6 inches (roots, grass, leaves). Moist.	
2					0					
3					0					
4										
5					0					
6	S-2	44	5-10		0				S-2A (13"): Brown, fine to medium SAND, some Silt. Wet.	
7					0				S-2B (13"): Brown to red, fine to coarse SAND, some fine to coarse Gravel, little Silt, Fragments of crashed rock from 19 to 22 inches. Wet.	
8					0				S-2C (11"): Tan to brown, fine to medium SAND, some Silt. Wet.	
9					0			SILTY CLAY	S-2D (7"): Tan to gray, Silty CLAY. Wet.	
10										
11	S-3	60	10-12		0			SAND	S-3A (12"): Tan to brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt, Suspect cave in. Wet.	
12									S-3B (12"): Tan, fine to medium SAND, some Silt. Wet.	
13								SAND AND SILT	S-3C (30"): Tan to brown, SAND AND SILT. Wet.	
14										
15								CLAY	S-3D (6"): Tan, CLAY. Wet.	
16									Boring terminated at 12 feet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-02-0002 at 10:30, 2023-SB-02-0204 at 10:35, 2023-SB-02-0406 at 10:40, 2023-SB-02-0608 at 10:45, 2023-SB-02-0810 at 10:50, 2023-SB-02-1012 at 10:55.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

nobis

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-03**

Boring Location: SB-03

Checked by: B. Fortier

Date Start: March 2, 2023

Date Finish: March 2, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	34	0-5						S-1A (8"): Dark brown, fine to coarse SAND, some Silt, trace fine to coarse Gravel, Few organic material (wood, leaves, roots). Dry.	
									S-1B (13"): Tan, fine SAND, some Silt. Moist.	
2					0				S-1C (13"): Tan with orange staining, fine to medium SAND, some Silt. Wet.	
3					0					
4					0			SILTY SAND		
5					0					
6	S-2	57	5-10		0				S-2A (24"): Tan, fine to medium SAND and Silt. Wet.	
7										
8					0				S-2B (12"): Brown, Silty CLAY. Wet.	
9					0			SILTY CLAY	S-2C (21"): Brown, CLAY. Wet.	
10										
11	S-3	57	10-12						S-3A (12"): Tan, fine to medium SAND, some Silt, trace fine Gravel. Wet.	
12					0				S-3B (12"): Tan with orange staining, fine to coarse SAND, little Silt. Wet.	
13					0			SILTY SAND	S-3C (24"): Tan, fine to medium SAND, some Silt. Wet.	
14										
15								CLAY	S-3D (9"): Brown to gray, CLAY. Wet.	
									Boring terminated at 12 feet	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-03-0002 at 10:05, 2023-SB-03-0204 at 10:10, 2023-SB-03-0406 at 10:15, 2023-SB-03-0608 at 10:20, 2023-SB-03-0810 at 10:25, 2023-SB-03-1012 at 10:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

nobis

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-04**

Boring Location: SB-04

Checked by: B. Fortier

Date Start: March 2, 2023

Date Finish: March 2, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	40	0-5					GRAVELLY SAND	S-1A (5"): Dark brown to brown, fine to coarse SAND, some fine to coarse Gravel. Moist.	
1					0				S-1B (8"): Brown, SILT and fine Sand. Moist.	
					0				S-1C (27"): Tan, fine to medium SAND, some Silt. Moist.	
2										
3										
4					0					
					0			SILTY SAND		
5										
	S-2	53	5-10						S-2A (29"): Tan, fine to medium SAND, little Silt. Wet.	
6					0					
7										
8					0				S-2B (9"): Brown, fine SAND and Silt. Wet.	
9								SILTY CLAY	S-2C (12"): Brown, Silty CLAY. Wet.	
10					0				S-2D (3"): Orange, fine SAND and Silt. Wet.	
	S-3	57	10-12		0				S-3A (21"): Tan, fine to medium SAND, little Silt. Wet.	
11										
					0					
12								SILTY SAND	S-3B (36"): Tan, fine to medium SAND, some Silt. Wet.	
13										
14										
15									Boring terminated at 12 feet	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-04-0002 at 9:10, 2023-SB-04-0204 at 9:15, 2023-SB-04-0406 at 9:20, 2023-SB-04-0608 at 9:25, 2023-SB-04-0810 at 9:30, 2023-SB-04-1012 at 9:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-05**

Boring Location: SB-05

Checked by: B. Fortier

Date Start: March 3, 2023

Date Finish: March 3, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	48	0-5					FILL	S-1A (17"): Brown, fine to medium SAND, some Silt, trace fine to coarse Gravel. Dry.	
2					0				S-1B (4"): Black, SILT, some fine Sand, Few brick fragments from 18 to 20 inches. Dry. S-1C (24"): Dark brown, fine to medium SAND, some Silt, trace fine Gravel. Moist.	
3					0					
4					0					
5					0					
6	S-2	42	5-10					SILTY SAND	S-2A (42"): Dark brown, fine to coarse SAND, some Silt, trace fine Gravel. Wet.	
7					0					
8										
9					0					
10					0					
11	S-3	57	10-12					GRAVELLY SAND	S-3A (47"): Brown to tan, fine to coarse SAND, some fine to coarse Gravel, little Silt. Wet.	
12					0					
13										
14										
15								SILTY CLAY	S-3B (10"): Gray, Silty CLAY. Wet. Boring terminated at 12 feet	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-05-0002 at 13:10, 2023-SB-05-0204 at 13:15, 2023-SB-05-0406 at 13:20, 2023-SB-05-0608 at 13:25, 2023-SB-05-0810 at 13:30, 2023-SB-05-1012 at 13:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNICAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-06**

Boring Location: SB-06

Checked by: B. Fortier

Date Start: March 3, 2023

Date Finish: March 3, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
0	S-1	46	0-5					ASPHALT	S-1A (8"): Black, Asphalt. Dry.	
1									S-1B (38"): Brown to gray, fine to medium SAND, some Silt. Moist.	
2					3.1					
3					5.5					
4					4.1					
5										
6	S-2	52	5-10		6.9			SILTY SAND	S-2A (25"): Brown, fine to coarse SAND, trace Silt. Wet.	
7					6.3					
8					6.3				S-2B (27"): Gray, fine to coarse SAND, some Silt, little fine to coarse Gravel. Wet.	
9										
10					4.9					
11	S-3	57	10-12		6			SAND AND GRAVEL	S-3A (29"): Gray, fine to coarse SAND and fine Gravel. Wet.	
12					5					
13									S-3B (28"): Gray, Silty CLAY. Wet.	
14								SILTY CLAY		
15									Boring terminated at 12 feet	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-06-0002 at 11:35, 2023-SB-06-0204 at 11:40, 2023-SB-06-0406 at 11:45, 2023-SB-06-0608 at 11:50, 2023-SB-06-0810 at 11:55, 2023-SB-06-1012 at 12:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-07**

Boring Location: SB-07

Checked by: B. Fortier

Date Start: March 3, 2023

Date Finish: March 3, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	40	0-5					SILTY SAND	S-1A (5"): Dark brown, fine to medium SAND, some Silt, trace fine Gravel. Moist.	
									S-1B (17"): White, Crushed rock. Dry.	
2					1.1			CRUSHED GRAVEL		
3					1.4				S-1C (18"): Dark brown, fine to medium SAND, some Silt, Very few brick particles at 23 inches. Wet.	
4					1.3					
5										
6	S-2	49	5-10		2				S-2A (49"): Dark brown to brown, fine to medium SAND, some Silt, little fine Gravel. Wet.	
7					1.4					
8					1.1					
9					0.5			SILTY SAND		
10					1					
11	S-3	57	10-12						S-3A (49"): Brown, fine to coarse SAND, some Silt, little fine Gravel. Wet.	
12					1.2					
13										
14										
15								SILTY CLAY	S-3B (8"): Gray, Silty CLAY. Wet.	
									Boring terminated at 12 feet	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-07-0002 at 09:50, 2023-SB-07-0204 at 09:55, 2023-SB-07-0406 at 10:00, 2023-SB-07-0608 at 10:05, 2023-SB-07-0810 at 10:10, 2023-SB-07-1012 at 10:15.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNICIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-08**

Boring Location: SB-08

Checked by: B. Fortier

Date Start: March 2, 2023

Date Finish: March 2, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	30	0-5					ASPHALT	S-1A (6"): Black, Asphalt. Dry.	
1					0.2				S-1B (24"): Dark brown, fine to coarse SAND, some fine to coarse Gravel. Moist.	
2										
3					0.2			GRAVELLY SAND		
4					0.2					
5					0.2					
	S-2	46	5-10						S-2A (38"): Tan with orange staining, fine SAND, some Silt, trace fine to coarse Gravel. Moist.	
6					0.2					
7										
8					0.2					
9									S-2B (8"): Orange, fine to medium SAND, some Silt. Moist.	
10					0.2			SILTY SAND		
	S-3	42	10-12		0.2				S-3A (33"): Tan to orange, fine to medium SAND, some Silt, Seam of asphalt at 8 inches. Moist.	
11										
12										
13					0.2				S-3B (9"): Brown, SILT and fine Sand. Moist.	
14									Boring terminated at 12 feet.	
15										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-08-0002 at 15:10, 2023-SB-08-0204 at 15:15, 2023-SB-08-0406 at 15:20, 2023-SB-08-0608 at 15:25, 2023-SB-08-0810 at 15:30, 2023-SB-08-1012 at 15:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-09**

Boring Location: SB-09

Checked by: B. Fortier

Date Start: March 6, 2023

Date Finish: March 6, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	42	0-5						S-1A (42"): Brown, fine to medium SAND, some Silt, little fine to coarse Gravel, Pocket of black asphalt from 19 to 24 inches. Moist.	
2					0					
3					1.4			SILTY SAND		
4					3.1					
5					0.8					
6	S-2	31	5-10		0.8			GRAVELLY SAND	S-2A (12"): Brown, fine to medium SAND, some fine to coarse Gravel, little Silt. Wet.	
7					1.3				S-2B (12"): Tan to brown, Silty CLAY. Wet.	
8					2.7			SILTY CLAY	S-2C (7"): Orange to tan, fine to medium SAND, little Silt. Wet.	
9					2.7					
10					2.8					
11	S-3	48	10-12					SILTY SAND	S-3A (30"): Tan to brown, fine to coarse SAND, little Silt. Wet.	
12										
13									S-3B (13"): Tan, Silty CLAY. Wet.	
14								SILTY CLAY		
15								SILTY SAND	S-3C (5"): Orange to tan, fine to medium SAND, little Silt. Wet. Boring terminated at 12 feet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-09-0002 at 12:10, 2023-SB-09-0204 at 12:15, 2023-SB-09-0406 at 12:20, 2023-SB-09-0608 at 12:25, 2023-SB-09-0810 at 12:30, 2023-SB-09-1012 at 12:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNICAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-10**

Boring Location: SB-10

Checked by: B. Fortier

Date Start: March 6, 2023

Date Finish: March 6, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	47	0-5					CRUSHED ROCK	S-1A (14"): White, Crushed rock. Dry.	
2					7.1				S-1B (14"): Dark brown, fine to medium SAND, some Silt, trace fine Gravel. Moist.	
3					7.4				S-1C (33"): Dark brown, fine to medium SAND, some Silt, little fine Gravel. Moist.	
4					7.9					
5					7.8			SILTY SAND		
6	S-2	35	5-10		7.8				S-2A (11"): Dark brown, fine to coarse SAND and Silt. Wet.	
7					8				S-2B (19"): Dark brown, fine to medium SAND, some Silt. Wet.	
8					7.5				S-2C (5"): Gray, Clayey SILT. Wet.	
9								CLAYEY SILT		
10					7 7.3					
11	S-3	40	10-12					SILTY SAND	S-3A (17"): Dark brown, fine to medium SAND and Silt. Wet.	
12									S-3B (23"): Gray, Silty CLAY. Wet.	
13								SILTY CLAY		
14									Boring terminated at 12 feet.	
15										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-10-0002 at 9:50, 2023-SB-10-0204 at 9:55, 2023-SB-10-0406 at 10:00, 2023-SB-10-0608 at 10:05, 2023-SB-10-0810 at 10:10, 2023-SB-10-1012 at 10:15.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-11**

Boring Location: SB-11

Checked by: B. Fortier

Date Start: March 6, 2023

Date Finish: March 6, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	32	0-5					SAND AND GRAVEL	S-1A (2"): Brown, fine to medium SAND, some fine to coarse Gravel, little Silt, Few roots and wood fragments. Wet. S-1B (6"): White, Crashed rock. Dry. S-1C (24"): Tan to dark brown, fine to medium SAND, some Silt, trace fine to coarse Gravel. Moist.	
2					7.1					
3					7.9					
4					7.8					
5					7.4					
6	S-2	41	5-10		7.5				S-2A (27"): Dark brown, fine to medium SAND, some Silt, trace fine to coarse Gravel. Moist.	
7					7.9			SILTY SAND		
8					7.9				S-2B (14"): Gray, fine SAND, some Silt. Moist.	
9					8.3					
10					7.8					
11	S-3	41	10-12						S-3A (27"): Brown to gray, fine SAND, little Silt, trace fine to coarse Gravel. Wet.	
12										
13									S-3B (14"): Gray, fine to medium SAND, some Silt. Wet.	
14									Boring terminated at 12 feet.	
15										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-11-0002 at 10:50, 2023-SB-11-0204 at 10:55, 2023-SB-11-0406 at 11:00, 2023-SB-11-0608 at 11:05, 2023-SB-11-0810 at 11:10, 2023-SB-11-1012 at 11:15.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

nobis

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-12**

Boring Location: SB-12

Checked by: B. Fortier

Date Start: March 3, 2023

Date Finish: March 3, 2023

Contractor: Technical Drilling Services

Driller: J. Berthiaume

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	45	0-5						S-1A (28"): Dark brown to brown, fine to medium SAND, some Silt, Few roots at top 2 inches. Moist.	
2					0.3					
3					0.9				S-1B (17"): Tan, fine to coarse SAND, little Silt, trace fine Gravel. Wet.	
4								SILTY SAND		
5					0.6					
6	S-2	50	5-10						S-2A (10"): Tan, fine to coarse SAND, little Silt, trace fine Gravel. Wet.	
7					0.4				S-2B (12"): Tan, fine to medium SAND, some Silt. Wet.	
8					1.1				S-2C (27"): Tan, Clayey SILT. Wet.	
9					0.5			CLAYEY SILT		
10									S-2D (3"): Tan, fine SAND and Silt. Wet.	
11	S-3	57	10-12						S-3A (14"): Tan, fine to coarse SAND, some fine to coarse Gravel, Potential cave in. Wet.	
12					0.4				S-3B (39"): Tan, fine to medium SAND, some Silt. Wet.	
13								SAND		
14					1.1					
15					1.2					
								CLAYEY SILT	S-3C (4"): Tan, Silty CLAY. Wet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

Boring terminated at 12 feet.

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-12-0002 at 9:00, 2023-SB-12-0204 at 9:05, 2023-SB-12-0406 at 9:10, 2023-SB-12-0608 at 9:15, 2023-SB-12-0810 at 9:20, 2023-SB-12-1012 at 9:25.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNICIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-13**

Boring Location: SB-13

Checked by: B. Fortier

Date Start: March 1, 2023

Date Finish: March 1, 2023

Contractor: Technical Drilling Services

Driller: M.Kelly

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	44	0-5						S-1A (41"): Brown to orange, fine to medium SAND, some Silt, Pocket of Asphalt from 12-14 inches, few roots at top 1 inch. Dry.	
2					0					
3					0					
4										
5					0					
6	S-2	45	5-10		0.1			SILTY SAND	S-2A (45"): Tan, fine to medium SAND, some Silt, little fine to coarse Gravel. Moist.	
7					0.1					
8					0.1					
9					0.1					
10					0.1					
11	S-3	27	10-12					SAND AND GRAVEL	S-3A (3"): Tan, fine to coarse SAND and fine to coarse Gravel. Potential cave-in. Moist.	
12								CLAY	S-3B (24"): Tan to gray, CLAY. Wet.	
13									Boring terminated at 12 feet.	
14										
15										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-13-0002 at 12:50, 2023-SB-13-0204 at 12:55, 2023-SB-13-0406 at 13:00, 2023-SB-13-0608 at 13:05, 2023-SB-13-0810 at 13:10, 2023-SB-13-1012 at 13:15.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-14**

Boring Location: SB-14

Checked by: B. Fortier

Date Start: March 1, 2023

Date Finish: March 1, 2023

Contractor: Technical Drilling Services

Driller: M.Kelly

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION: Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY: Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	41	0-5						S-1A (23"): Dark brown to tan, fine to coarse SAND, little Silt, trace fine to coarse Gravel, Few roots at top 2 inches. Moist.	
2					0					
3					0				S-1B (18"): Tan, fine to medium SAND, little Silt, Orange staining. Moist.	
4					0					
5					0					
6	S-2	38	5-10						S-2A (38"): Tan, fine to medium SAND, little Silt, trace fine Gravel. Moist.	
7					0					
8					0			SILTY SAND		
9										
10					0					
11	S-3	49	10-12						S-3A (8"): Tan, fine to medium SAND, little Silt. Moist.	
12					0				S-3B (25"): Tan, fine to coarse SAND, little Silt. Wet.	
13										
14									S-3C (16"): Tan, CLAY. Wet.	
15								CLAY	Boring terminated at 12 feet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-14-0002 at 11:20, 2023-SB-14-0204 at 11:25, 2023-SB-14-0406 at 11:30, 2023-SB-14-0608 at 11:35, 2023-SB-14-0810 at 11:40, 2023-SB-14-1012 at 11:45.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNICAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-15**

Boring Location: SB-15

Checked by: B. Fortier

Date Start: March 1, 2023

Date Finish: March 1, 2023

Contractor: Technical Drilling Services

Driller: M.Kelly

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	41	0-5					ASPHALT	S-1A (8"): Gray, Asphalt. Dry. S-1B (33"): Tan, fine to medium SAND, little Silt, trace fine Gravel. Moist.	
2					0					
3					0					
4										
5					0					
6	S-2	47	5-10		0				S-2A (47"): Tan, fine to medium SAND, little Silt, trace fine Gravel, Few organic material at 32 inches(wood). Moist.	
7					0					
8								SILTY SAND		
9										
10										
11	S-3	48	10-12		0				S-3A (48"): Tan, fine to coarse SAND, some Silt. Wet.	
12					0					
13					0					
14										
15									Boring terminated at 12 feet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded some.
2) Samples: 2023-SB-15-0002 at 10:00, 2023-SB-15-0204 at 10:05, 2023-SB-15-0406 at 10:10, 2023-SB-15-0608 at 10:15, 2023-SB-15-0810 at 10:20, 2023-SB-15-1012 at 10:25.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNICIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **SB-16**

Boring Location: SB-16

Checked by: B. Fortier

Date Start: March 1, 2023

Date Finish: March 1, 2023

Contractor: Technical Drilling Services

Driller: M.Kelly

Nobis Rep.: K.Mato

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S-1	47	0-5				ASPHALT	S-1A (6"): Black, Asphalt. Dry. S-1B (9"): Dark brown, fine to coarse SAND, some Silt, trace fine to coarse Gravel. Dry.	
2								S-1C (32"): Tan to orange, fine to medium SAND, some Silt. Moist.	
3									
4							SILTY SAND		
5									
6	S-2	44	5-10					S-2A (14"): Tan to orange, fine to medium SAND, little Silt, Pocket of Asphalt from 11-13 inches. Moist.	
7								S-2B (15"): Tan, fine to coarse SAND, trace Silt. Moist.	
8								S-2C (15"): Brown, Clayey SILT. Wet.	
9							CLAYEY SILT		
10									
11	S-3	57	10-12				SILTY SAND	S-3A (9"): Brown, fine to coarse SAND, some Silt. Wet.	
12								S-3B (48"): Brown, CLAY. Wet.	
13							CLAY		
14									
15								Boring terminated at 12 feet	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 12 feet however bottom material expanded to fill sleeve.
2) Samples: 2023-SB-16-0002 at 8:55, 2023-SB-16-0204 at 9:00, 2023-SB-16-0406 at 9:05, 2023-SB-16-0608 at 9:10, 2023-SB-16-0810 at 9:15, 2023-SB-16-1012 at 9:20.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 4/11/23 11:03 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

SURFICIAL SOIL, SEDIMENT, AND SLUDGE SAMPLING LOG SHEET

SOP No:	SA-007	Page:	1 of 1
Rev. Date:	2/16/10	Rev. #:	1

Log Sheet Prepared by: K. Mato

Log Sheet Approved by: B. Fortier

SITE INFORMATION

Site Name: American Tissue Mill
Project Number/Task: S00001.002
Personnel: BF + KM
Temperature Range: Mid 30's
Precipitation: None
Wind Speed/Direction: None

SAMPLE INFORMATION

Matrix: Soil
Sample Type: Grab
QA Sample Information: None
Sample ID: 2023-SS-01
Sampled By: B. Fortier
Sample Location: SS-01
Sample Date/Time: 2/27/2023 9:35
Sampler Signature:
Method: Hand Auger
Depth: 0-2'
Monitor Reading (ppmv): 0
Color: Dark Brown

Sample Description: (sand, clay, muck, peat, dry moist, wet, etc.)
Dark Brown, fine to medium sand, some silt, trace fine gravel, very few roots. Moist.

SAMPLE COLLECTION INFORMATION

Analysis: VOCs, PCBs, metals, EPH
Container Requirements:
Collected (circle): YES / NO
Other:

SAMPLE TRACKING INFORMATION

Analysis	Bottle Lot No.	CLP #	Other Sample #	Comments

SAMPLE DATA/COMMENTS/SKETCH

Approval Signature:

SURFICIAL SOIL, SEDIMENT, AND SLUDGE SAMPLING LOG SHEET

SOP No:	SA-007	Page:	1 of 1
Rev. Date:	2/16/10	Rev. #:	1

Log Sheet Prepared by: K. Mato

Log Sheet Approved by: B. Fortier

SITE INFORMATION

Site Name: American Tissue Mill
Project Number/Task: S00001.002
Personnel: BF + KM
Temperature Range: Mid 30's
Precipitation: None
Wind Speed/Direction: None

SAMPLE INFORMATION

Matrix: Soil
Sample Type: Grab
QA Sample Information: None
Sample ID: 2023-SS-02
Sampled By: B. Fortier
Sample Location: SS-02
Sample Date/Time: 2/27/2023 9:30
Sampler Signature:
Method: Hand Auger
Depth: 0-2'
Monitor Reading (ppmv): 0
Color: Tan

Sample Description: (sand, clay, muck, peat, dry moist, wet, etc.)
Tan and brown, fine to medium sand, little silt, trace fine to coarse gravel, ver few roots. Moist.

SAMPLE COLLECTION INFORMATION

Analysis: VOCs, PCBs, metals, EPH
Container Requirements:
Collected (circle): YES / NO
Other:

SAMPLE TRACKING INFORMATION

Analysis	Bottle Lot No.	CLP #	Other Sample #	Comments

SAMPLE DATA/COMMENTS/SKETCH

Approval Signature:

SURFICIAL SOIL, SEDIMENT, AND SLUDGE SAMPLING LOG SHEET

SOP No:	SA-007	Page:	1 of 1
Rev. Date:	2/16/10	Rev. #:	1

Log Sheet Prepared by: K. Mato

Log Sheet Approved by: B. Fortier

SITE INFORMATION

Site Name: American Tissue Mill
Project Number/Task: S00001.002
Personnel: BF + KM
Temperature Range: Mid 30's
Precipitation: None
Wind Speed/Direction: None

SAMPLE INFORMATION

Matrix: Soil
Sample Type: Grab
QA Sample Information: None
Sample ID: 2023-SS-03
Sampled By: B. Fortier
Sample Location: SS-03
Sample Date/Time: 2/27/2023 9:20
Sampler Signature:
Method: Hand Auger
Depth: 0-2'
Monitor Reading (ppmv): 0
Color: Dark Brown
Sample Description: (sand, clay, muck, peat, dry moist, wet, etc.)
Dark brown, fine to medium sand, some silt, very few roots and leaves. Moist.

SAMPLE COLLECTION INFORMATION

Analysis: VOCs, PCBs, metals, EPH
Container Requirements:
Collected (circle): YES / NO
Other:

SAMPLE TRACKING INFORMATION

Analysis	Bottle Lot No.	CLP #	Other Sample #	Comments

SAMPLE DATA/COMMENTS/SKETCH

Approval Signature:

SURFICIAL SOIL, SEDIMENT, AND SLUDGE SAMPLING LOG SHEET

SOP No:	SA-007	Page:	1 of 1
Rev. Date:	2/16/10	Rev. #:	1

Log Sheet Prepared by: K. Mato

Log Sheet Approved by: B. Fortier

SITE INFORMATION

Site Name: American Tissue Mill
Project Number/Task: S00001.002
Personnel: BF + KM
Temperature Range: Mid 30's
Precipitation: None
Wind Speed/Direction: None

SAMPLE INFORMATION

Matrix: Soil
Sample Type: Grab
QA Sample Information: None
Sample ID: 2023-SS-04
Sampled By: B. Fortier
Sample Location: SS-04
Sample Date/Time: 2/27/2023 9:45
Sampler Signature:
Method: Hand Auger
Depth: 0-2'
Monitor Reading (ppmv): 0.3
Color: Dark Brown

Sample Description: (sand, clay, muck, peat, dry moist, wet, etc.)
Dark brown, fine to medium sand, some silt, trace fine gravel, very few roots. Moist.

SAMPLE COLLECTION INFORMATION

Analysis: VOCs, PCBs, metals, EPH
Container Requirements:
Collected (circle): YES / NO
Other:

SAMPLE TRACKING INFORMATION

Analysis	Bottle Lot No.	CLP #	Other Sample #	Comments

SAMPLE DATA/COMMENTS/SKETCH

Approval Signature:

SURFICIAL SOIL, SEDIMENT, AND SLUDGE SAMPLING LOG SHEET

SOP No:	SA-007	Page:	1 of 1
Rev. Date:	2/16/10	Rev. #:	1

Log Sheet Prepared by: K. Mato

Log Sheet Approved by: B. Fortier

SITE INFORMATION

Site Name: American Tissue Mill
Project Number/Task: S00001.002
Personnel: BF + KM
Temperature Range: Mid 30's
Precipitation: None
Wind Speed/Direction: None

SAMPLE INFORMATION

Matrix: Soil
Sample Type: Grab
QA Sample Information: Field Duplicate: FD-02 at 08:05 AM
Sample ID: 2023-SS-05
Sampled By: B. Fortier
Sample Location: SS-05
Sample Date/Time: 2/27/2023 9:50
Sampler Signature:
Method: Hand Auger
Depth: 0-2'
Monitor Reading (ppmv): 6.2
Color: Brown
Sample Description: (sand, clay, muck, peat, dry moist, wet, etc.)
Brown, fine to medium sant, little silt, very few roots, very few trash/plastic fragments. Dry.

SAMPLE COLLECTION INFORMATION

Analysis: VOCs, PCBs, metals, EPH
Container Requirements:
Collected (circle): YES / NO
Other:

SAMPLE TRACKING INFORMATION

Analysis	Bottle Lot No.	CLP #	Other Sample #	Comments

SAMPLE DATA/COMMENTS/SKETCH

Approval Signature:

SURFICIAL SOIL, SEDIMENT, AND SLUDGE SAMPLING LOG SHEET

SOP No:	SA-007	Page:	1 of 1
Rev. Date:	2/16/10	Rev. #:	1

Log Sheet Prepared by: K. Mato

Log Sheet Approved by: B. Fortier

SITE INFORMATION

Site Name: American Tissue Mill
Project Number/Task: S00001.002
Personnel: BF + KM
Temperature Range: Mid 30's
Precipitation: None
Wind Speed/Direction: None

SAMPLE INFORMATION

Matrix: Soil
Sample Type: Grab
QA Sample Information: MS/MSD
Sample ID: 2023-SS-06
Sampled By: B. Fortier
Sample Location: SS-06
Sample Date/Time: 2/27/2023 9:05
Sampler Signature:
Method: Hand Auger
Depth: 0-2'
Monitor Reading (ppmv): 0
Color: Dark Brown

Sample Description: (sand, clay, muck, peat, dry moist, wet, etc.)

Dark brown, fine to medium sand, some silt, trace fine to coarse gravel, very few roots. Moist.

SAMPLE COLLECTION INFORMATION

Analysis: VOCs, PCBs, metals, EPH
Container Requirements:
Collected (circle): YES / NO
Other:

SAMPLE TRACKING INFORMATION

Analysis	Bottle Lot No.	CLP #	Other Sample #	Comments

SAMPLE DATA/COMMENTS/SKETCH

Approval Signature:

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-01**

Boring Location: ATM-PCB-1

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (19"): Brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
2							SAND	S-1B (29"): Light brown, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	
3								S-1C (36"): Dark brown, fine to medium SAND, little Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring terminated at 3 feet however bottom material expanded.
2) ATM-PCB-1-0003 collected at 08:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill		Boring No.: **PCB-02**
		Boring Location: ATM-PCB-2
Location: Templeton, MA		Checked by: B. Fortier
Nobis Project No.: S00001.002		Date Start: September 25, 2023
		Date Finish: September 25, 2023
Contractor: Geosearch, Inc.	Rig Type / Model: Geoprobe 6620DT	Ground Surface Elev.:
Driller: M. Kelly	Hammer Type: N/A	
Nobis Rep.: S. Stone	Hammer Hoist: N/A	Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	24	0-3				SAND	S-1A (9"): Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, few small plants and roots. Dry.	
								S-1B (15"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
2									
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) ATM-PCB-2-0003 collected at 08:40.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-03**

Boring Location: ATM-PCB-3

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	34	0-3				SAND	S-1A (11"): Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, grass and small plants as top. Dry.	
2							GRAVEL and SAND	S-1B (10"): Dark brown, fine to coarse GRAVEL and fine to coarse Sand, trace Silt. Dry.	
3							SAND	S-1C (10"): Brown, fine SAND, little Silt. Dry.	
4								S-1D (2"): Dark brown, fine SAND, little Silt. Dry.	
5								Boring terminated at 3 feet.	

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-3-0003 collected at 08:55.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-04**

Boring Location: ATM-PCB-4

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	31	0-3				SAND	S-1A (11"): Dark brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
								S-1B (7"): Dark brown, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
2							GRAVEL and SAND	S-1C (13"): Dark brown, fine to coarse GRAVEL and Sand, little Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-4-0003 collected at 09:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-05**

Boring Location: ATM-PCB-5

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				ASPHALT	S-1A (11"): ASPHALT. Dry.	
								S-1B (11"): Light brown, fine to medium SAND, some fine to coarse Gravel, trace Silt. Dry.	
2							SAND	S-1C (7"): Brown, fine to coarse SAND, little fine Gravel, trace Silt. Dry.	
3								S-1D (7"): Dark brown, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-5-0003 collected at 09:20. MS/MSD collected.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-06**

Boring Location: ATM-PCB-6

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				ASPHALT	S-1A (10"): Gray, ASPHALT. Dry.	
								S-1B (11"): Brown and tan, fine SAND. Dry.	
2							SAND	S-1C (6"): Tan, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
								S-1D (9"): Tan and red, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-6-0003 collected at 09:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-07**

Boring Location: ATM-PCB-7

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				SAND	S-1A (5"): Dark brown, fine to medium SAND, trace Silt, few small plants and roots. Dry.	
							SAND and GRAVEL	S-1B (5"): Brown, fine to medium SAND and fine to coarse Gravel, trace Silt. Dry.	
1								S-1C (9"): Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
								S-1D (17"): Tan, fine SAND, little fine to coarse Gravel, trace Silt. Dry.	
2							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-7-0003 collected at 09:40.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-08**

Boring Location: ATM-PCB-8

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	32	0-3				SAND	S-1A (12"): Black, fine to coarse SAND, little fine Gravel, trace Silt. Dry.	
							CRUSHED ROCK	S-1B (2"): Gray, crushed rock.	
2							SAND	S-1C (18"): Red-brown, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-8-0003 collected at 09:50.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-09**

Boring Location: ATM-PCB-9

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (8"): Dark brown, fine to medium SAND, little fine Gravel, trace Silt, few small plant roots. Dry.	
								S-1B (6"): Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
2								S-1C (5"): Tan, fine SAND, trace Silt. Dry.	
								S-1D (5"): Gray, fine to coarse SAND, little coarse Gravel, trace Silt. Dry.	
3								S-1E (7"): Dark brown, fine to medium SAND, little Silt. Dry.	
								S-1F (7"): Brown and gray, fine to coarse SAND, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-9-0003 collected at 10:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-10**

Boring Location: ATM-PCB-10

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	29	0-3				FILL	S-1A (8"): Tan, fine to coarse SAND and fine to coarse Gravel, trace Silt. Dry. S-1B (3"): ASPHALT and CRUSHED ROCK. Dry. S-1C (18"): Tan, fine to coarse SAND and fine to coarse Gravel, trace Silt. Dry.	
2							SAND and GRAVEL		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-10-0003 collected at 10:10.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-11**

Boring Location: ATM-PCB-11

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (4"): Brown, fine to medium SAND, trace Silt, few small vegetation. Dry. S-1B (4"): Tan, fine to coarse SAND, trace Silt. Dry. S-1C (7"): Brown and gray, fine SAND, trace Silt, very few plants and roots. Dry. S-1D (3"): Tan, fine to coarse SAND, little fine Gravel, trace Silt. Dry. S-1E (18"): Red-brown, SAND, little fine to coarse Gravel, trace Silt. Dry.	
2									
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-11-0003 collected at 10:45.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-12**

Boring Location: ATM-PCB-12

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (29"): Tan, brown, and black, fine to medium SAND, trace Silt, brick fragment at 28 inches. Dry.	
2							SAND		
3								S-1B (7"): Tan, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-12-0003 collected at 10:50. FD-01-092523 collected at 08:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-13**

Boring Location: ATM-PCB-13

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (6"): Brown, fine to medium SAND, little coarse Gravel, trace Silt, few plants and roots. Dry.	
								S-1B (17"): Dark brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
2							SAND		
								S-1C (13"): Red-brown, fine to medium SAND, trace Silt, very few plant roots. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-13-0003 collected at 11:15.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-14**

Boring Location: ATM-PCB-14

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3					S-1A (4"): Black, fine to medium SAND, trace Silt, small plant roots and grass. Dry.	
								S-1B (6"): Tan, fine to medium SAND, some fine to coarse Gravel, trace Silt. Dry.	
1								S-1C (2"): Tan, fine SAND, trace Silt. Dry.	
								S-1D (10"): Black, fine to medium SAND, some fine to coarse Gravel, trace Silt, brick fragment at 17 inches. Dry.	
							SAND		
2								S-1E (14"): Red-brown, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-14-0003 collected at 11:25.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-15**

Boring Location: ATM-PCB-15

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (4"): Brown and tan, fine to medium SAND, some fine to coarse Gravel, trace Silt, few plant roots. Dry. S-1B (26"): Black, fine GRAVEL, and BRICK FRAGMENTS. Dry.	
2							FILL		
3							SAND	S-1C (6"): Tan, fine SAND, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-15-0003 collected at 11:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-16**

Boring Location: ATM-PCB-16

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				FILL	S-1A (4"): Tan and brown, fine to medium SAND, little fine Gravel, trace Silt, few small plant roots and grass. Dry. S-1B (3"): Black, fine to medium SAND, and BRICK FRAGMENTS. Dry.	
2							SAND	S-1C (29"): Dark brown, fine to medium SAND, little Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-16-0003 collected at 11:55.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-17**

Boring Location: ATM-PCB-17

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (22"): Brown, tan, and black, fine to medium SAND, little fine to coarse Gravel, trace Silt, brick fragment at 6 inches. Dry.	
2								S-1B (14"): Gray and red-brown, fine SAND, little fine Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-17-0003 collected at 12:05.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-18**

Boring Location: ATM-PCB-18

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	26	0-3				FILL	S-1A (15"): Tan, fine to medium SAND, little fine Gravel, trace Silt, few small tree roots. Dry.	
2								S-1B (3"): Black, ASPHALT and Wood Chunks. Dry. S-1C (4"): Red, BRICK FRAGMENTS. Dry.	
3							SAND	S-1D (3"): Brown, fine to medium SAND, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-18-0003 collected at 12:10.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-19**

Boring Location: ATM-PCB-19

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	30	0-3				CRUSHED ROCK	S-1A (3"): CRUSHED ROCK.	
1							SAND	S-1B (10"): Tan, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
							SAND and GRAVEL	S-1C (6"): Black, fine to medium SAND and fine Gravel, trace Silt. Dry.	
2							SAND	S-1D (11"): Tan, fine to coarse SAND, little fine Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-19-0003 collected at 12:20.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-20**

Boring Location: ATM-PCB-20

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				ASPHALT	S-1A (4"): ASPHALT. Dry.	
								S-1B (5"): Tan, CRUSHED ROCK. Dry.	
1								S-1C (9"): Tan, CRUSHED ROCK and BRICK FRAGMENTS. Dry.	
							FILL		
								S-1D (6"): Tan, CRUSHED ROCK.	
2								S-1E (2"): Orangish brown, fine to medium SAND, trace Silt. Dry.	
								S-1F (5"): Gray, CRUSHED ROCK and BRICK FRAGMENT at 31 inches.	
								S-1G (4"): Tan, fine to medium SAND.	
3							SAND		
								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-20-0003 collected at 12:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-21**

Boring Location: ATM-PCB-21

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	35	0-3					S-1A (9"): Dark brown, fine to medium SAND, little fine to coarse Gravel, trace Silt, few small roots from 0-5 inches. Dry.	
								S-1B (6"): Tan, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
2								S-1C (20"): Black, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-21-0003 collected at 13:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-22**

Boring Location: ATM-PCB-22

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				SAND	S-1A (7"): Black, fine to medium SAND, little fine Gravel, trace Silt, several tree and plant roots. Dry.	
1								S-1B (14"): Gray, Crushed Rock. Dry.	
							CRUSHED ROCK		
2								S-1C (15"): Dark brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, few small plant roots. Dry.	
							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-22-0003 collected at 13:40.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-23**

Boring Location: ATM-PCB-23

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (21"): Tan, fine to medium SAND, little fine to coarse Gravel, trace Silt, very few small plant roots. Dry.	
2							SAND	S-1B (15"): Black and tan, fine SAND, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-23-0003 collected at 13:50.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-24**

Boring Location: ATM-PCB-24

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	35	0-3					S-1A (6"): Tan, fine to medium SAND, trace Silt, very few small plant roots. Dry.	
1								S-1B (8"): Gray, fine SAND, little fine Gravel, trace Silt. Dry.	
2							SAND	S-1C (18"): Gray, black, and tan, fine SAND, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-24-0003 collected at 13:55.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-25**

Boring Location: ATM-PCB-25

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (2"): Tan, fine to medium SAND, trace fine Gravel, trace Silt, very few small plant roots. Dry. S-1B (4"): Gray and brown, fine SAND, little fine Gravel, trace Silt. Dry. S-1C (30"): Tan, fine to coarse SAND, trace fine Gravel, trace Silt. Dry.	
2							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-25-0003 collected at 14:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-26**

Boring Location: ATM-PCB-26

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-0.3				FILL	S-1A (6"): Red, CRUSHED BRICK FRAGMENTS. Dry. S-1B (6"): Tan, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
2								S-1C (4"): Red, CRUSHED BRICK FRAGMENTS. Dry. S-1D (20"): Tan, fine SAND, little fine Gravel, trace Silt. Dry.	
3							SAND		
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-26-0003 collected at 14:15.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-27**

Boring Location: ATM-PCB-27

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	21	0-3				CRUSHED ROCK	S-1A (2"): Tan, CRUSHED ROCK. Dry.	
								S-1B (10"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
							SAND		
2							CRUSHED ROCK	S-1C (2"): Gray, CRUSHED ROCK. Dry.	
								S-1D (7"): Gray, fine SAND, trace Silt. Dry.	
							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-27-0003 collected at 14:20.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

nobis

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-28**

Boring Location: ATM-PCB-28

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (4"): Red-brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, few small tree and grass roots. Dry. S-1B (25"): Gray and tan, fine SAND, trace Silt. Dry.	
2							SAND	S-1C (7"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-28-0003 collected at 14:25.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-29**

Boring Location: ATM-PCB-29

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	32	0-3					S-1A (7"): Brown, fine to medium SAND, little coarse Gravel, trace Sand, few small roots and grass. Dry.	
								S-1B (13"): Tan and gray, fine to medium SAND, trace Silt. Dry.	
2							SAND	S-1C (6"): Tan, fine to coarse SAND, some fine Gravel, trace Silt. Dry.	
3								S-1D (6"): Tan, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-29-0003 collected at 14:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-30**

Boring Location: ATM-PCB-30

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (9"): Brown and black, fine to medium SAND, trace Silt, few plant roots from 0-2 inches. Dry.	
								S-1B (27"): Tan and gray, fine SAND, trace Silt. Dry.	
2							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-30-0003 collected at 14:55. FD-02-092523 collected at 09:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-31**

Boring Location: ATM-PCB-31

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (36"): Tan, gray, and brown, fine SAND, trace Silt. Dry.	
2									
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-31-0003 collected at 15:00.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-32**

Boring Location: ATM-PCB-32

Checked by: B. Fortier

Date Start: September 25, 2023

Date Finish: September 25, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	24	0-3				SAND	S-1A (2"): Dark brown, fine to medium SAND, trace Silt, few small plants. Dry.	
							CRUSHED ROCK	S-1B (2"): Tan, CRUSHED ROCK. Dry.	
								S-1C (20"): Dark brown and tan, fine to medium SAND, trace Silt, few small plant roots. Dry.	
2							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-32-0003 collected at 15:10.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-33**

Boring Location: ATM-PCB-33

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (6"): Dark brown, fine to medium SAND, trace Silt, several small plant roots. Dry. S-1B (28"): Orangish brown, fine to medium SAND, trace Silt. Dry.	
2									
3								S-1C (2"): Orangish brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry. Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-33-0003 collected at 08:45.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-34**

Boring Location: ATM-PCB-34

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				ASPHALT	S-1A (9"): Black, ASPHALT. Dry.	
								S-1B (26"): Dark brown and tan, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
2							SAND		
3							CRUSHED ROCK	S-1C (1"): Gray, CRUSHED ROCK. Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-34-0003 collected at 08:50.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-35**

Boring Location: ATM-PCB-35

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				SAND	S-1A (5"): Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
							ASPHALT	S-1B (1"): Black, ASPHALT.	
1								S-1C (17"): Brown and tan, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	
2							SAND	S-1D (13"): Red-brown, fine to medium SAND, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-35-0003 collected at 09:00. MS/MSD collected.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-36**

Boring Location: ATM-PCB-36

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				WOOD	S-1A (7"): WOOD.	
							ASPHALT	S-1B (1"): ASPHALT.	
1								S-1C (3"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt, few small roots. Dry.	
								S-1D (25"): Red-brown, fine to medium SAND, trace Silt, large root at 22 inches. Dry.	
2							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-36-0003 collected at 09:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-37**

Boring Location: ATM-PCB-37

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (2"): Dark brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt, few pine needles and small tree roots. Dry.	
							ASPHALT	S-1B (5"): Fine to coarse SAND, trace Silt, CRUSHED ASPHALT. Dry.	
								S-1C (6"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
2								S-1D (23"): Dark brown and tan, fine to medium SAND, trace Silt. Dry.	
							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-37-0003 collected at 09:40.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-38**

Boring Location: ATM-PCB-38

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (6"): Dark brown, fine to medium SAND, trace Silt, few small plant roots. Dry. S-1B (30"): Orangish brown, fine to medium SAND, trace fine Gravel, trace Silt. Dry.	
2									
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-38-0003 collected at 09:45.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-39**

Boring Location: ATM-PCB-39

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				SAND	S-1A (6"): Brown, fine to medium SAND, little fine Gravel, trace Silt, several small plants and roots. Dry.	
							ASPHALT	S-1B (1"): ASPHALT.	
							SAND	S-1C (2"): Fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
							WOOD	S-1D (2"): WOOD.	
1								S-1E (8"): Dark brown, fine to medium SAND, trace Silt. Dry.	
								S-1F (17"): Tan, fine SAND, trace Silt. Dry.	
2							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-39-0003 collected at 10:15.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BOREHOLE LOG

Project: American Tissue Mill
Location: Templeton, MA
Nobis Project No.: S00001.002

Boring No.: **PCB-40**
Boring Location: ATM-PCB-40
Checked by: B. Fortier
Date Start: September 26, 2023
Date Finish: September 26, 2023

Contractor: Geosearch, Inc.
Driller: M. Kelly
Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT
Hammer Type: N/A
Hammer Hoist: N/A

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				ASPHALT	S-1A (2"): ASPHALT. S-1B (5"): Red-brown and black, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	
1								S-1C (5"): Red-brown, fine to medium SAND, trace Silt. Dry.	
							SAND	S-1D (16"): Orangish brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
2									
							CRUSHED ROCK	S-1E (1"): CRUSHED ROCK.	
							SAND	S-1F (7"): Tan and orange, fine SAND, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) ATM-PCB-40-0003 collected at 10:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-41**

Boring Location: ATM-PCB-41

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	18	0-3				SAND	S-1A (3"): Brown, fine to medium SAND, little fine Gravel, trace Silt, few small plant leaves and roots. Dry.	
							CRUSHED ROCK	S-1B (1"): CRUSHED ROCK.	
								S-1C (14"): Tan, fine SAND, trace Silt. Dry.	
2							SAND		
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-41-0003 collected at 10:35.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-42**

Boring Location: ATM-PCB-42

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (4"): Brown, fine to medium SAND, trace Silt, few small plant roots. Dry. S-1B (13"): Tan, fine SAND, trace Silt. Dry.	
2							SAND	S-1C (19"): Tan, fine to medium SAND, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-42-0003 collected at 10:40.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-43**

Boring Location: ATM-PCB-43

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (6"): Dark brown, fine to medium SAND, trace Silt, few roots and large plant stalk. Dry.	
								S-1B (7"): Tan, fine SAND, trace Silt. Dry.	
2							SAND	S-1C (23"): Orangish brown, fine to medium SAND, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-43-0003 collected at 10:40. FD-03-092623 collected at 08:30.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBASIS\00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-44**

Boring Location: ATM-PCB-44

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (2"): Brown, fine to medium SAND, little fine Gravel, trace Silt, few roots. Dry. S-1B (24"): Tan, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	
2									
3								S-1C (4"): Orange, fine to coarse SAND, some fine Gravel, trace Silt. Dry. S-1D (6"): Tan, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-44-0003 collected at 10:50.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-45**

Boring Location: ATM-PCB-45

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (6"): Brown, fine to medium SAND, trace Silt, few small plant roots. Dry.	
								S-1B (10"): Red-brown, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
2							SAND	S-1C (20"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-45-0003 collected at 10:55.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-46**

Boring Location: ATM-PCB-46

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3					S-1A (4"): Brown, fine to medium SAND, little fine Gravel, trace Silt, few small plant roots. Dry. S-1B (9"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
2							SAND	S-1C (4"): Tan, fine to medium SAND, trace Silt. Dry. S-1D (18"): Tan, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
3							CRUSHED ROCK	S-1E (1"): ROCK FRAGMENT. Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-46-0003 collected at 11:05.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-47**

Boring Location: ATM-PCB-47

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
							ASPHALT	S-1A (2"): ASPHALT.	
1	S1	36	0-3					S-1B (7"): Dark brown, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	
								S-1C (3"): Tan, fine to coarse SAND, trace Silt. Dry.	
2							SAND	S-1D (8"): Tan, fine SAND, trace Silt. Dry.	
								S-1E (10"): Tan and orange, fine to coarse SAND, trace Silt. Dry.	
3								S-1F (6"): Tan, fine to coarse SAND, trace Silt. Dry.	
								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-47-0003 collected at 11:10.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-48**

Boring Location: ATM-PCB-48

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (2"): Brown, fine to medium SAND, trace Silt, few plant roots. Dry. S-1B (26"): Red-brown, fine to medium SAND, little fine to coarse Gravel, trace Silt. Dry.	
2									
3								S-1C (8"): Tan, fine to medium SAND, trace Silt. Dry.	
4								Boring terminated at 3 feet.	
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-48-0003 collected at 11:15. MS/MSD collected.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill

Location: Templeton, MA

Nobis Project No.: S00001.002

Boring No.: **PCB-49**

Boring Location: ATM-PCB-49

Checked by: B. Fortier

Date Start: September 26, 2023

Date Finish: September 26, 2023

Contractor: Geosearch, Inc.

Driller: M. Kelly

Nobis Rep.: S. Stone

Rig Type / Model: Geoprobe 6620DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
1	S1	36	0-3				SAND	S-1A (2"): Brown, fine to medium SAND, trace Silt, few small plant roots. Dry. S-1B (26"): Brown, fine to medium SAND, little fine to coarse Gravel, trace Silt, few roots. Dry.	
2									
3								S-1C (4"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry. S-1D (4"): Black, fine SAND, trace Silt. Dry. Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) ATM-PCB-49-0003 collected at 10:05.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

BORING LOG

Project: American Tissue Mill		Boring No.: **PCB-50**
		Boring Location: ATM-PCB-50
Location: Templeton, MA		Checked by: B. Fortier
Nobis Project No.: S00001.002		Date Start: September 26, 2023
		Date Finish: September 26, 2023
Contractor: Geosearch, Inc.	Rig Type / Model: Geoprobe 6620DT	Ground Surface Elev.:
Driller: M. Kelly	Hammer Type: N/A	
Nobis Rep.: S. Stone	Hammer Hoist: N/A	Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	36	0-3				CONCRETE	S-1A (6"): CONCRETE.	
1							SAND	S-1B (6"): Tan, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.	
							CRUSHED ROCK	S-1C (1"): CRUSHED ROCK.	
2							SAND	S-1D (23"): Brown and tan, fine to coarse SAND, little fine to coarse Gravel, trace Silt. Dry.	
3								Boring terminated at 3 feet.	
4									
5									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) ATM-PCB-50-0003 collected at 09:55.

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 5/16/24 15:47 - J:\S00001.000-START 2022 CONTRACT - TO 01 - TBAS\S00001.02_AMERICAN_TISSUE_MILL\TECHNCIAL_DATA\GINT\AMERICAN TISSUE MILL BORING LOGS.GPJ

APPENDIX B

Low-Flow Field Log

Site Name: American Tissue Mill
Job Number: S00001.002/0400
Sampler: K.Mato

Date: 3/31/2023

Well ID: **MW-01**
Sample ID: 2023-MW-01
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 3.42 (ft from MP)
Depth to Bottom: 10.07 (ft from MP)
Pump Intake Depth: 10 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 1120
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 1215
Total volume purged (gals): 3.5
Time at purge completion: 1205

Equipment Vendor: US Environmental
Pump Type: Peristaltic
Turbidity Meter: Geotech
Serial #: 17111527
Multimeter: YSI PRO DSS
Serial #: 21K102275

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1120		260	3.42	0.00	0.00								
1125		240	3.45	0.03	0.03	6.30	200.6	6.34	113.6	4.05	32		
1130		220	3.45	0.00	0.03	6.30	212.9	6.35	106.5	3.71	26.3		
1135		200	3.45	0.00	0.03	6.20	221.9	6.36	97.4	3.38	20.7		Not Stable
1140		200	3.45	0.00	0.03	6.20	217.7	6.36	95.2	3.40	15.9	water is stable	Not Stable
1145		200	3.45	0.00	0.03	6.20	214.4	6.37	93.4	3.43	14.7		Not Stable
1150		200	3.45	0.00	0.03	6.20	213.3	6.37	91.4	3.45	10.9		Not Stable
1155		200	3.45	0.00	0.03	6.30	211.8	6.36	91	3.49	5.79		Not Stable
1200		200	3.45	0.00	0.03	6.30	211.4	6.37	89.5	3.46	5.31		Not Stable
1205		200	3.45	0.00	0.03	6.40	214.3	6.37	87.8	3.38	5.7		Stable

Low-Flow Field Log

Date: 3/31/2023

Site Name: American Tissue Mill
Job Number: S00001.002/0400
Sampler: K.Mato

Well ID: **MW-02**
Sample ID: 2023-MW-02
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 8.85 (ft from MP)
Depth to Bottom: 11.71 (ft from MP)
Pump Intake Depth: 11 (ft from MP)
Well depth as installed: 12 (ft bgs)
Screen interval (range): 2-12 (ft bgs)

Purging start time: 1425
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 1600
Total volume purged (gals): 5
Time at purge completion: 1550

Equipment Vendor: US Environmental
Pump Type: Peristaltic
Turbidity Meter: Geotech
Serial #: 17111527
Multimeter: YSI PRO DSS
Serial #: 21K102275

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1425			8.85	0.00	0.00								
1430		240	9.00	0.15	0.15	9.40	106.3	6.34	-45.6	5.27	755		
1435		240	9.40	0.40	0.55							had to fix tubing very little water coming out	
1440		220	9.44	0.04	0.59	8.30	111	6.31	-34	5.38	732		Not Stable
1445		200	9.47	0.03	0.62	8.30	107.4	6.28	-29.9	5.45	274		Not Stable
1450		200	9.48	0.01	0.63	8.10	97.2	6.08	-2.3	5.83	131		Not Stable
1455		200	9.50	0.02	0.65	8.00	88.8	6.04	4.7	6.13	74.1		Not Stable
1500		200	9.50	0.00	0.65	8.00	86.5	6.02	11.3	6.65	43.6		Not Stable
1505		200	9.50	0.00	0.65	7.80	84.9	6.01	10.3	7.00	22.4		Not Stable
1510		200	9.50	0.00	0.65	7.70	83.4	6.01	11.1	7.18	15		Not Stable
1515		200	9.50	0.00	0.65	7.70	84.8	5.99	10.9	7.21	13.2		Not Stable
1520		200	9.50	0.00	0.65	7.70	83.9	5.99	10.9	7.16	12.9	water is stable	Not Stable
1525		200	9.50	0.00	0.65	7.70	83.8	6.00	9.9	7.23	11.3		Not Stable
1530		200	9.50	0.00	0.65	7.70	83.6	5.98	11.3	7.19	9.87		Not Stable
1535		200	9.50	0.00	0.65	7.60	86	5.98	11.5	7.22	8.85		Not Stable
1540		200	9.50	0.00	0.65	7.60	84.3	5.97	11.1	7.13	8.72		Not Stable
1545		200	9.50	0.00	0.65	7.60	83.5	5.98	11.5	7.24	8.8		Stable

Low-Flow Field Log

Date: 3/30/2023

Site Name: American Tissue
Job Number: S00001.002/400
Sampler: S. Stone

Well ID: MW-03
Sample ID: 2023-MW-03
Reviewed By:

Measurement Reference Point (MP): (PVC, Casing, Ground, etc.)
Depth to GW: 2 (ft from MP)
Depth to Bottom: 11.53 (ft from MP)
Pump Intake Depth: (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 1000
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 11:25
Total volume purged (gals): 3 gallons
Time at purge completion: 11:20

Equipment Vendor: US Environmental
Pump Type: Peri
Turbidity Meter: Geotech
Serial #: 18081849
Multimeter: YSI Pro DSS
Serial #: 21K104095

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1000			2.00	0.00	0.00								
1005			2.04	0.04	0.04	5.70	407.5	6.26	14.2	0.38	74.3		
1010		146	2.04	0.00	0.04	5.90	406.5	6.26	14.7	0.25	77.3		
1025			2.11	0.07	0.11	5.90	399.9	6.26	16.1	0.28	41		Not Stable
1030			2.19	0.08	0.19	5.80	382.1	6.26	21	0.44	31.1		Not Stable
1035			2.11	-0.08	0.11	5.70	334.5	6.26	31.3	0.89	38.4		Not Stable
1040			2.11	0.00	0.11	5.80	301.3	6.26	35.3	1.29	16.7		Not Stable
1045		152	2.11	0.00	0.11	5.70	260	6.26	42.3	1.64	8.61		Not Stable
1050			2.10	-0.01	0.10	5.70	238.7	6.26	42.6	1.56	0.02		Not Stable
1055			2.10	0.00	0.10	5.50	232.6	6.25	41	1.51	0.02		Not Stable
1100			2.11	0.01	0.11	5.60	252.1	6.24	37.8	1.35	0.02		Not Stable
1105			2.11	0.00	0.11	5.70	219.1	6.25	38.4	1.32	0.02		Not Stable
1110			2.11	0.00	0.11	5.70	215.7	6.26	38.6	1.24	0.02		Not Stable
1115			2.11	0.00	0.11	5.80	218.9	6.25	36.4	1.16	0.02		Not Stable
1120		170	2.11	0.00	0.11	5.80	213.3	6.26	37.6	1.19	0.02		Stable

Low-Flow Field Log

Date: 3/30/2023

Site Name: American Tissue Mill
Job Number: S00001.002/0400
Sampler: K.Mato

Well ID: MW-04
Sample ID: 2023-MW-04
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 3.05 (ft from MP)
Depth to Bottom: 11.89 (ft from MP)
Pump Intake Depth: 11 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 1305
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 1420
Total volume purged (gals): 5
Time at purge completion: 1410

Equipment Vendor: US Environmental
Pump Type: Peristaltic
Turbidity Meter: Geotech
Serial #: 18081849
Multimeter: YSI PRO DSS
Serial #: 21K102275

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD) MS/MSD

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1305		240	3.05	0.00	0.00								
1310		220	3.16	0.11	0.11	4.40	88.7	6.13	178.4	8.86	28.9		
1315		190	3.12	-0.04	0.07	4.20	87.6	6.13	170.2	8.90	22.7		
1320		200	3.12	0.00	0.07	4.40	86.3	6.15	168.5	9.19	22.9		Not Stable
1325		200	3.12	0.00	0.07	4.30	88.7	6.18	166.2	9.45	22.8		Not Stable
1330		200	3.12	0.00	0.07	4.50	86.8	6.18	134	9.25	13.1	water stable	Not Stable
1335		200	3.12	0.00	0.07	4.50	83.7	6.14	147.7	8.66	11.2		Not Stable
1340		200	3.12	0.00	0.07	4.60	85.8	6.15	157	9.41	6.91		Not Stable
1345		200	3.12	0.00	0.07	4.60	87.6	6.16	160.6	9.77	5.35		Not Stable
1350		200	3.12	0.00	0.07	4.60	87.4	6.17	160.7	9.78	5.14		Not Stable
1355		200	3.12	0.00	0.07	4.60	88.9	6.17	164.8	9.66	4.45		Not Stable
1400		200	3.12	0.00	0.07	4.60	89.2	6.19	165.4	9.65	3.48		Not Stable
1405		200	3.12	0.00	0.07	4.50	91.3	6.19	165.2	9.21	2.73		Stable
1410													
1415													
1420													

Low-Flow Field Log

Date: 3/30/2023

Site Name: American Tissue
Job Number: S00001.002/400
Sampler: S. Stone

Well ID: MW-05
Sample ID: 2023-MW-05
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 7.79 (ft from MP)
Depth to Bottom: 10.6 (ft from MP)
Pump Intake Depth: (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 13:55
Parameter stabalization (Y/N): y
Two hour time limit reached (Y/N): n
Sample time: 15:05
Total volume purged (gals): 3
Time at purge completion: 15:00

Equipment Vendor: US Environmental
Pump Type: Peri
Turbidity Meter: Geotech
Serial #: 18081849
Multimeter: YSI Pro DSS Sonde
Serial #: 21K104095

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1355		220	7.79	0.00	0.00								
1405		220	3.25	-4.54	-4.54	5.80	212.7	5.67	28.4	0.46	7.06		
1410		220	3.24	-0.01	-4.55	6.00	212.8	5.66	28.3	0.29	4.73		
1415		220	3.24	0.00	-4.55	6.00	213.1	5.66	27.2	0.26	4.42		Not Stable
1420		220	3.24	0.00	-4.55	6.00	213.4	5.67	22.6	0.26	4.18		Stable
1435		240	3.24	0.00	-4.55	5.70	214.4	5.68	17.2	0.15	1.82		Not Stable
1440		240	3.19	-0.05	-4.60	5.90	214.9	5.68	15	0.13	1.08		Not Stable
1450		240	3.19	0.00	-4.60	5.80	214.1	5.68	11.7	0.11	2.85		Not Stable
1455		240	3.19	0.00	-4.60	5.80	214.2	5.67	11.1	0.10	2.8		Stable

Low-Flow Field Log

Date: 3/30/2023

Site Name: American Tissue Mill
Job Number: S00001.002/0400
Sampler: K.Mato

Well ID: **MW-06**
Sample ID: 2023-MW-01
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 8.29 (ft from MP)
Depth to Bottom: 11.21 (ft from MP)
Pump Intake Depth: 11 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 1025
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 1210
Total volume purged (gals): 4.8
Time at purge completion: 1200

Equipment Vendor: US Environmental
Pump Type: Peristaltic

Turbidity Meter: Geotech
Serial #: 18081849

Multimeter: YSI PRO DSS
Serial #: 21K102275

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1030		120	8.29	0.00	0.00								
1035		140	8.41	0.12	0.12	4.10	24.7	6.63	90	11.87	162		
1040		140	8.49	0.08	0.20	3.80	25.3	6.55	96.8	11.77	146		
1045		140	8.51	0.02	0.22	4.30	26.2	6.53	103.1	11.71	119		Not Stable
1050		140	8.55	0.04	0.26	4.30	27.6	6.53	107.7	11.68	80.1		Not Stable
1055		140	8.59	0.04	0.30	4.50	29.7	6.53	113.1	11.52	42.4		Not Stable
1100		140	8.59	0.00	0.30	4.20	29..5	6.54	114.9	11.56	36.1		Not Stable
1105		140	8.60	0.01	0.31	4.50	30.8	6.53	121.3	11.44	23		Not Stable
1110		140	8.61	0.01	0.32	4.60	30.9	6.54	121.7	11.42	20.4		Not Stable
1115		140	8.61	0.00	0.32	4.60	30.6	6.54	123.3	11.42	9.46		Not Stable
1120		140	8.61	0.00	0.32	4.70	30.9	6.54	124.3	11.42	8.69	water level stable	Not Stable
1125		140	8.61	0.00	0.32	5.00	31.9	6.54	126.8	11.34	4.9		Not Stable
1130		140	8.61	0.00	0.32	5.00	31.6	6.55	127.6	11.38	4.83		Not Stable
1135		140	8.61	0.00	0.32	4.80	31	6.56	129	11.36	3.69		Not Stable
1140		140	8.61	0.00	0.32	4.70	30.6	6.56	130	11.39	3.5		Not Stable
1145		140	8.61	0.00	0.32	4.80	32	6.57	130.7	11.37	3.48		Not Stable
1150		140	8.61	0.00	0.32	4.90	31.5	6.59	130.6	11.10	3.11		Not Stable

Low-Flow Field Log

Date: 3/30/2023

Site Name: American Tissue Mill
Job Number: S00001.002/0400
Sampler: K.Mato

Well ID: **MW-06**
Sample ID: 2023-MW-01
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 8.29 (ft from MP)
Depth to Bottom: 11.21 (ft from MP)
Pump Intake Depth: 11 (ft from MP)
Well depth as installed: 0 (ft bgs)
Screen interval (range): 0 (ft bgs)

Purging start time: 1025
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 1210
Total volume purged (gals): 4.8
Time at purge completion: 1200

Equipment Vendor: US Environmental
Pump Type: Peristaltic
Turbidity Meter: Geotech
Serial #: 18081849
Multimeter: YSI PRO DSS
Serial #: 21K102275

Notes (Initial PID reading, SOP deviations, etc.): 0

Lab Analyses: 0
QC Info (Duplicate, MS/MSD) 0

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cm		mV	mg/L	NTU		
1155		140	8.61	0.00	0.32	5.00	30.9	6.59	127.8	11.41	1.97		Not Stable
1200		140	8.61	0.00	0.32	4.90	31.3	6.61	128	11.36	1.38		Stable

SOP No: SA-003 Draft Revision: 4

Low-Flow Field Log

Date: 3/31/2023

Site Name: American Tissue Mill
Job Number: S00001.002/0400
Sampler: K.Mato

Well ID: MW-07
Sample ID: 2023-MW-07
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 9.53 (ft from MP)
Depth to Bottom: 14.6 (ft from MP)
Pump Intake Depth: 14 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 950
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 1055
Total volume purged (gals): 3
Time at purge completion: 1045

Equipment Vendor: US Environmental
Pump Type: Peristaltic

Turbidity Meter: Geotech
Serial #: 17111527

Multimeter: YSI PRO DSS
Serial #: 21K102275

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:

QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
950		200	9.53	0.00	0.00								
955		160	9.56	0.03	0.03	7.10	157.8	6.15	154.9	6.89	14.3		
1000		180	9.56	0.00	0.03	7.10	157.5	6.14	164.2	7.17	7.98		
1005		180	9.56	0.00	0.03	7.00	156.7	6.13	174.9	7.32	15.3		Not Stable
1010		180	9.56	0.00	0.03	6.90	156.6	6.14	182.6	7.79	11.1	water stable	Not Stable
1015		180	9.56	0.00	0.03	6.80	156.6	6.15	189	8.50	7.88		Not Stable
1020		180	9.56	0.00	0.03	6.70	155.2	6.16	192.6	9.09	8.43		Not Stable
1025		180	9.56	0.00	0.03	6.60	154.8	6.16	195.5	9.30	9.31		Not Stable
1030		180	9.56	0.00	0.03	6.70	153.4	6.17	197.5	10.63	6.72		Not Stable
1035		180	9.56	0.00	0.03	6.80	151.7	6.17	198..7	10.73	5.26		Not Stable
1040		180	9.56	0.00	0.03	7.00	151.2	6.18	199.9	10.81	4.99		Not Stable
1045		180	9.56	0.00	0.03	6.90	149.8	6.18	200.4	10.97	5.36		Stable
1050													

Low-Flow Field Log

Date: 3/31/2023

Site Name: American Tissue
Job Number: S00001.002/400
Sampler: S.Stone

Well ID: **MW-8**
Sample ID: 2023-MW-08
Reviewed By: B. Fortier

Measurement Reference Point (MP): pvc (PVC, Casing, Ground, etc.)
Depth to GW: 8.03 (ft from MP)
Depth to Bottom: 14.52 (ft from MP)
Pump Intake Depth: (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 9:40
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 11:00
Total volume purged (gals): 4.5
Time at purge completion: 10:45

Equipment Vendor: US Environmental
Pump Type: Peri

Turbidity Meter: Geotech
Serial #: 18081849

Multimeter: YSI Pro Dss
Serial #: 21K104095

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
940		300	8.03	0.00	0.00								
945		300	8.65	0.62	0.62	6.60	234.3	6.14	205.3	6.09	15.3		
950		300	8.75	0.10	0.72	6.40	223.5	6.14	203.7	5.99	34.1		
955		300	8.68	-0.07	0.65	6.30	234.1	6.17	203.9	6.00	29.5		Not Stable
1000		220	8.64	-0.04	0.61	6.30	242.6	6.18	201.3	5.77	25.7		Not Stable
1005		220	8.63	-0.01	0.60	6.50	244.7	6.18	199.7	5.64	20.4		Not Stable
1010		220	8.65	0.02	0.62	6.20	253.5	6.20	198.8	5.58	14.7		Not Stable
1015		220	8.65	0.00	0.62	6.30	257.5	6.21	198.4	5.52	8.09		Not Stable
1020		220	8.65	0.00	0.62	6.40	256.9	6.20	197.2	5.47	5.16		Not Stable
1025		220	8.65	0.00	0.62	6.30	255.7	6.20	196.9	5.46	5.37		Not Stable
1030		220	8.65	0.00	0.62	6.40	257.3	6.20	195.9	5.42	4.71		Not Stable
1035		220	8.68	0.03	0.65	6.50	256.8	6.20	194.6	5.40	4.42		Not Stable
1040		220	8.68	0.00	0.65	6.50	258.1	6.21	195.8	5.37	4.01		Stable

Low-Flow Field Log

Date: 3/31/2023

Site Name: American Tissue Mill
Job Number: S00001.002/0400
Sampler: K.Mato

Well ID: MW-09
Sample ID: 2023-MW-09
Reviewed By: B. Fortier

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 3.83 (ft from MP)
Depth to Bottom: 14.23 (ft from MP)
Pump Intake Depth: 14 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 825
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 920
Total volume purged (gals): 3.5
Time at purge completion: 910

Equipment Vendor: US Environmental
Pump Type: Peristaltic

Turbidity Meter: Geotech
Serial #: 17111527

Multimeter: YSI PRO DSS
Serial #: 21K102275

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
825		140	3.83	0.00	0.00								
830		200	4.00	0.17	0.17	6.40	141	6.18	203.4	6.88	18.9		
835		190	3.94	-0.06	0.11	6.20	141.1	6.18	212.6	6.90	18.8		
840		190	3.94	0.00	0.11	6.30	141.7	6.15	215.3	6.84	15.1		Not Stable
845		190	3.94	0.00	0.11	6.20	142.3	6.20	213.1	6.89	10.2		Not Stable
850		190	3.94	0.00	0.11	6.20	141.1	6.18	211.4	6.89	6.66	water stable	Not Stable
855		190	3.94	0.00	0.11	6.30	140.1	6.14	209	6.77	6.92		Not Stable
900		190	3.94	0.00	0.11	6.30	139.3	6.15	207.8	6.77	5.4		Not Stable
905		190	3.94	0.00	0.11	6.40	139.6	6.14	206.7	6.77	5.45		Not Stable
910		190	3.94	0.00	0.11	6.40	139	6.15	205.6	6.76	4.94		Stable
915													

APPENDIX C

March 30, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620104861
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic Data Review

Polychlorinated Biphenyls (PCBs by 8082):

1/Soil Sample: 2023-SB-12-0001

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic analytical data for the sample listed above. The sample was collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 24, 2023. The sample was analyzed for Polychlorinated Biphenyls by EPA Method 8082 by Eurofins New England in North Kingstown, RI.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Preservation and Technical Holding Times
*	•	Blanks
	•	Surrogates
NA	•	Internal Standards
NA	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)

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NA	•	Field Duplicates
NA	•	Performance Evaluation (PE) Samples
*	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

The data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

PCBs:
Results were qualified due to surrogate recovery exceedance.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

American Tissue Mill
SDG 620104861

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil
Lab Sample ID		620-10486-1
Field Sample ID		2023-SB-12-0001
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	03/24/23
Aroclor 1016	mg/kg	0.248 U
Aroclor 1221	mg/kg	0.248 U
Aroclor 1232	mg/kg	0.248 U
Aroclor 1242	mg/kg	0.248 U
Aroclor 1248	mg/kg	0.248 U
Aroclor 1254	mg/kg	9.08 J+
Aroclor 1260	mg/kg	0.248 U
Aroclor 1262	mg/kg	0.248 U
Aroclor 1268	mg/kg	0.248 U

Data Review Qualification Actions
Case: American Tissue Mill
SDG: 620104861

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PCBs					
	Aroclor 1254	2023-SB-12-0001	Surrogate recovery	J+	

Tier 1/Stage 2A Data Review Checklist

Project: **American Tissue Mill, Templeton, Massachusetts**
Targeted Brownfields Assessment (TBA)
Project #: **S00001.02**
Case#: **NA**
Date: **03/29/2023**

Methods: **Polychlorinated Biphenyls (PCBs) (8082)**

Laboratory: Eurofins New England, North Kingstown, RI
SDG: 620104861
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
One (1) soil sample was listed on the COC for SDG 620104861. The sample was collected on 03/24/2023. The sample was received at the laboratory on 03/27/2023 at 2.2 °C.

Sample ID	Laboratory ID	Analyses
2023-SB-12-0001	620-10486-1	PCBs

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte list reported by the laboratory was compared to the required analyte list per Table 2 (soil) in the QAPPA (February 2023) for the site. Results for all requested Aroclors were reported by the laboratory. MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

2. **Holding Time and Sample Preservation Compliance**

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

3. **Calibration Issues**

Not assessed for S2AVM data review.

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4. **Laboratory and Field Blanks**

   PCBs: Results for PCB laboratory method blank MB 620-20843/1-A were non-detect. No blank actions are required.

   Field blanks were not submitted with this SDG. No action is required.

5. **Interference Check Sample (metals only)**

   Not applicable for this analysis.

6. **Surrogates**

   PCBs: Percent surrogate recoveries for the sample were within the Program QAPP limits of 30-150% except for the recovery of decachlorobiphenyl (DCB) on the primary analytical column (178%). The detected result for Aroclor 1254 in sample 2023-SB-12-0001 is qualified as estimated with a potential high bias (J+) due to the exceeded surrogate recovery.

7. **Laboratory Control Samples**

   PCBs: Percent recoveries of Aroclors 1016 and 1260 in LCS/LCSD pair 620-20843/2-A and 3-A met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30% for soils. No actions are required.

8. **Matrix Spikes**

   MS/MSD analyses were not included in this SDG. No actions are required.

9. **Laboratory Duplicates (metals only)**

   Not applicable for this analysis.

10. **Serial Dilution (metals only)**

    Not applicable for this analysis.

11. **Field Duplicate Precision**

    Field duplicate samples were not included in this SDG. No actions are required.

12. **Internal Standards**

    Not applicable for this analysis.

13. **Dual Column Precision (PCBs only)**

    Laboratory data for PCB identification and quantitation are not a required deliverable for the MCP CAM for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections. No action is taken.

14. **Performance Evaluation Samples**

Performance Evaluation (PE) samples were not included in this SDG.

15. **Reporting Limits**

RLs for non-detect PCB results in sample 2023-SB-12-0001 met the Project Action Level (PAL) of 1 mg/kg for the site.

16. **Other**

Percent solids within Reg 1/NE criteria (> 30%). No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

10486

620-10486 Chain of Custody

CHAIN OF CUSTODY RECORD

ıım Analytical

Page 1 of 1

Special Handling:

☐ Standard TAT - 7 to 10 business days

☑ Rush TAT - Date Needed 24 h

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Nobis Engineering Inc. , 585 Middlesex St, Lowell, MA
Denis McGrath
Telephone #: 978-758-3744
Project Mgr: Denis McGrath

Invoice To: Nobis Engineering Inc. , 585 Middlesex St, Lowell, MA
P O No: S00001 002 Quote #:

Project No: S00001 002
Site Name: American Tissue Mill
Location: Templeton State: MA
Sampler(s): Klementina Mato

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: PCBs 8082(Soxhlet)	Check if chlorinated
01	2023-SB-12-0001	3/24/2023	12:00 ~~AM~~ PM	G	SO		1			x	☐
											☐
											☐
											☐
											☐
											☐
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											☐
											☐
											☐

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
Klementina Mato	Basement Fridge	3/24/23	14:00	Observed 2.0
		3/27/23	1305	Correction Factor +0.2
		3/27/23	1533	Corrected 2.2
				IR ID # 6

☑ EDD format: Equis EDD
☑ E-mail to: dmcgrath@nobis-group com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev Nov 2016

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3/28/2023

May 8, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620100211
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 (mod.)

15/Soil Samples: 2023-SB-02-0002, 2023-SB-02-0204, 2023-SB-02-0406, 2023-SB-02-0608, 2023-SB-02-0810, 2023-SB-02-1012, 2023-SB-01-0002, 2023-SB-01-0204, 2023-SB-01-0406, 2023-SB-01-0608, 2023-SB-01-0810, 2023-SB-01-1012, 2023-FD-01, 2023-MW-01-0002, 2023-MW-01-0204
1/Field Duplicate Pair: 2023-SB-01-0406 and 2023-FD-01
1/Solid Trip Blank: TB-01-022723

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on February 27, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D, Polychlorinated Biphenyls by EPA Method 8082, VPHs by MassDEP-VPH, MCP-14 Metals/Mercury by EPA Method 6010D/7471B, and PFAS by EPA Method 537 (Modified) by Eurofins New England in North Kingstown, RI, Eurofins Northeast in Amherst, NY (MassDEP-VPH analyses), and Eurofins Lancaster Laboratory in Lancaster, PA (for metals/mercury, and PFAS analyses).

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020); USEPA's Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018); the Program Quality Assurance Project

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Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Preservation and Technical Holding Times
	• Blanks
	• Surrogates (organic analyses only)
NA	• Internal Standards
	• Matrix Spike Analysis
	• Laboratory Duplicates
	• Laboratory Control Samples (LCS)
*	• Field Duplicates
	• ICP Serial Dilutions (metals only)
NA	• Performance Evaluation (PE) Samples
NA	• Target Analyte Identification
	• Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Note that the PFAS analyses were inadvertently not included on the COC from Eurofins New England to Eurofins Lancaster Laboratory. The samples were analyzed for PFAS by Eurofins Lancaster, as otherwise indicated in the laboratory report. No actions are required.

The trip blank sample ID is listed as “Trip Blank” on the COC. The date of sample collection was appended to the sample ID during data validation for specificity.

Non-detect results for benzidine were rejected (R) in all soil samples due to low LCS/LCSD recovery. Non-detect results for two PFAS compounds were rejected (R) in one sample due to low surrogate recovery.

Reporting limits for non-detect results for 1,4-dichlorobenzene, bis(2-chloroethyl)ether, and hexachlorobenzene exceeded their associated project action limits (PALs) in the SVOC analysis of sample 2023-MW-01-0002.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for LCS/LCSD exceedances and trip blank contamination.

SVOCs:
Benzidine results were rejected in all soil samples due to low LCS/LCSD recovery.

PCBs:
Qualification of the data was not required.

MassDEP-VPH:
Results were qualified for laboratory blank contamination.

MCP-14 Metals/Mercury:
Results were qualified for laboratory blank contamination, MS/MSD exceedances, serial dilution non-conformance, and laboratory duplicate imprecision.

PFAS:
Results were rejected for low surrogate recovery and qualified for surrogate recovery non-conformances.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Antimony	mg/kg	4.87 U	5.04 U	4.07 U	4.33 U	5.01 U
Arsenic	mg/kg	2.8 J	2.17 J	2.21 J	1.3 J	2.14 J
Barium	mg/kg	23.9 J	17.9 J	13.8 J	15.1 J	13.8 J
Beryllium	mg/kg	0.416 J	0.414 J	0.288 J	0.317 J	0.368 J
Cadmium	mg/kg	0.487 U	0.504 U	0.407 U	0.433 U	0.501 U
Chromium	mg/kg	5.9 J-	5.28 J-	2.83 J	5.82 J-	3.83 J
Lead	mg/kg	19.2 J-	2.42 J-	1.91 J-	2.04 J-	4.04 J-
Mercury	mg/kg	0.0326 J	0.0669 U	0.068 U	0.0685 U	0.0692 U
Nickel	mg/kg	3.25	3.09	1.67	2.5	2.19
Selenium	mg/kg	4.87 U	5.04 U	4.07 U	4.33 U	5.01 U
Silver	mg/kg	0.974 U	1.01 U	0.813 U	0.865 U	1 U
Thallium	mg/kg	2.92 U	3.02 U	2.44 U	2.6 U	3.01 U
Vanadium	mg/kg	9.37 J-	8.35 J-	4.34 J-	5.78 J-	5.52 J-
Zinc	mg/kg	33.9 J-	13.7 J-	9.57 J-	9.93 J-	10.8 J-

U – not detected; J – estimated value; R – rejected; EB – detected in equipment blank; N – tentatively identified; + biased high; - biased low

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Antimony	mg/kg	4.49 UJ	5.88 UJ	5.39 U	4.45 U	4.06 U
Arsenic	mg/kg	4.3	3.74	2.29 J	2.05 J	2.43 J
Barium	mg/kg	65.2	29.4	13 J	12.1 J	19 J
Beryllium	mg/kg	0.627	0.872	0.441 J	0.371 J	0.413
Cadmium	mg/kg	0.152 J	0.588 U	0.539 U	0.445 U	0.406 U
Chromium	mg/kg	6.79	8.75	5.59 J-	6.72 J-	6.69 J-
Lead	mg/kg	29.1 J	12 J	3.02 J-	4.4 J-	2.55 J-
Mercury	mg/kg	0.0732	0.0405 J	0.0655 U	0.0732 U	0.0646 U
Nickel	mg/kg	3.81	2.7	3.07	2.49	3.03
Selenium	mg/kg	4.49 U	5.88 U	5.39 U	4.45 U	4.06 U
Silver	mg/kg	0.898 U	1.18 U	1.08 U	0.891 U	0.813 U
Thallium	mg/kg	2.7 U	3.53 U	3.23 U	2.67 U	2.44 U
Vanadium	mg/kg	11.6	15.9	8.17 J-	6.6 J-	12.1 J-
Zinc	mg/kg	54.8 J	19.1 J	10.4 J-	9.36 J-	15.6 J-

U – not detected; J – estimated value; R – rejected; EB – detected in equipment blank; N – tentatively identified; + biased high; - biased low

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Antimony	mg/kg	4.62 U	4.95 U	5.1 U	5.29 U	4.9 U
Arsenic	mg/kg	6.17	1.59 J	2.97 J	3.95	2.65 J
Barium	mg/kg	65.8 J	13.1 J	19.1 J	26.1 J	14 J
Beryllium	mg/kg	1.21	0.317 J	0.457 J	0.603	0.412 J
Cadmium	mg/kg	0.462 U	0.495 U	0.51 U	0.529 U	0.49 U
Chromium	mg/kg	15.8 J-	3.49 J	4.52 J-	7.55 J-	3.92 J
Lead	mg/kg	6.33 J-	2.03 J-	6.92 J-	7.11 J-	3.79 J-
Mercury	mg/kg	0.0697 U	0.0743 U	0.0227 J	0.0246 J	0.0677 U
Nickel	mg/kg	9.74	2.03	2.99	3.65	2.51
Selenium	mg/kg	4.62 U	4.95 U	5.1 U	5.29 U	4.9 U
Silver	mg/kg	0.923 U	0.99 U	1.02 U	1.06 U	0.98 U
Thallium	mg/kg	2.77 U	2.97 U	3.06 U	3.18 U	2.94 U
Vanadium	mg/kg	27.7 J-	6.12 J-	8.46 J-	13.1 J-	5.86 J-
Zinc	mg/kg	37.9 J-	7.79 J-	17.3 J-	24.3 J-	12 J-

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Aroclor 1016	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U
Aroclor 1221	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U
Aroclor 1232	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U
Aroclor 1242	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U
Aroclor 1248	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U
Aroclor 1254	mg/kg	0.472	0.0226 U	0.0224 U	0.0238 U	0.432
Aroclor 1260	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U
Aroclor 1262	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U
Aroclor 1268	mg/kg	0.0227 U	0.0226 U	0.0224 U	0.0238 U	0.023 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Aroclor 1016	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U
Aroclor 1221	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U
Aroclor 1232	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U
Aroclor 1242	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U
Aroclor 1248	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U
Aroclor 1254	mg/kg	0.967	0.0383	0.0232 U	0.097	0.0218 U
Aroclor 1260	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U
Aroclor 1262	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U
Aroclor 1268	mg/kg	0.0423 U	0.0237 U	0.0232 U	0.024 U	0.0218 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Aroclor 1016	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U
Aroclor 1221	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U
Aroclor 1232	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U
Aroclor 1242	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U
Aroclor 1248	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U
Aroclor 1254	mg/kg	0.0236 U	0.0244 U	1.41	1.21	0.369
Aroclor 1260	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U
Aroclor 1262	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U
Aroclor 1268	mg/kg	0.0236 U	0.0244 U	0.1 U	0.102 U	0.0224 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
10:2 FTS	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.29 U	3.52 U	3.38 U	3.71 U	3.38 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
6:2 Fluorotelomer sulfonate	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
8:2 Fluorotelomer sulfonate	ug/kg	3.29 U	3.52 U	3.38 U	3.71 U	3.38 U
9Cl-PF3ONS	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.19 U	2.35 UJ	2.25 U	2.48 U	2.26 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 UJ
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.19 UJ	2.35 UJ	2.25 U	2.48 U	2.26 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 UJ
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
Perfluorodecane Sulfonate	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
10:2 FTS	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.2 U	3.7 U	3.42 U	3.55 U	3.32 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
6:2 Fluorotelomer sulfonate	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
8:2 Fluorotelomer sulfonate	ug/kg	3.2 U	3.7 U	3.42 U	3.55 U	3.32 U
9Cl-PF3ONS	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.13 U	2.47 UJ	2.28 UJ	2.37 U	2.22 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.13 UJ	2.47 U	2.28 U	2.37 U	2.22 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.13 U	2.47 UJ	2.28 UJ	2.37 U	2.22 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.13 UJ	2.47 U	2.28 U	2.37 U	2.22 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
Perfluorodecane Sulfonate	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
10:2 FTS	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.51 U	3.57 U	3.15 U	3.27 U	3.4 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
6:2 Fluorotelomer sulfonate	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
8:2 Fluorotelomer sulfonate	ug/kg	3.51 U	3.57 U	3.15 U	3.27 U	3.4 U
9Cl-PF3ONS	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.34 UJ	2.38 U	2.1 UJ	R	2.26 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.34 U	2.38 U	2.1 UJ	2.18 U	2.26 UJ
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.34 UJ	2.38 U	2.1 UJ	R	2.26 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.34 U	2.38 U	2.1 UJ	2.18 U	2.26 UJ
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
Perfluorodecane Sulfonate	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.19 U	2.35 U	2.25 U	2.48 U	2.26 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluoroheptane sulfonate	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorohexadecanoic acid	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorononanesulfonic acid	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorononanoic acid (PFNA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorooctadecanoic acid	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluorooctylsulfonamide	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluoropentanoic Acid	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.657 U	0.704 U	0.676 U	0.743 U	0.677 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.13 U	2.47 U	2.28 U	2.37 U	2.22 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluoroheptane sulfonate	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorohexadecanoic acid	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorononanesulfonic acid	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorononanoic acid (PFNA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorooctadecanoic acid	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluorooctylsulfonamide	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluoropentanoic Acid	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.64 U	0.74 U	0.685 U	0.711 U	0.665 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.34 U	2.38 U	2.1 U	2.18 U	2.26 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluoroheptane sulfonate	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorohexadecanoic acid	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorononanesulfonic acid	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorononanoic acid (PFNA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorooctadecanoic acid	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluorooctylsulfonamide	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluoropentanoic Acid	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.702 U	0.714 U	0.631 U	0.654 U	0.679 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
1,2,4-Trichlorobenzene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
1,2-Dichlorobenzene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
1,3-Dichlorobenzene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
1,4-Dichlorobenzene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
2,4,6-Trichlorophenol	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
2,4-Dichlorophenol	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
2,4-Dimethylphenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
2,4-Dinitrophenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
2,4-Dinitrotoluene	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
2,6-Dinitrotoluene	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
2-Chloronaphthalene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
2-Chlorophenol	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
2-Methylnaphthalene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
2-Methylphenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
2-Nitroaniline	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
2-Nitrophenol	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
3 & 4 Methylphenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
3,3'-Dichlorobenzidine	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,2,4,5-Tetrachlorobenzene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
1,2,4-Trichlorobenzene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
1,2-Dichlorobenzene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
1,3-Dichlorobenzene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
1,4-Dichlorobenzene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
2,4,5-Trichlorophenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
2,4,6-Trichlorophenol	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
2,4-Dichlorophenol	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
2,4-Dimethylphenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
2,4-Dinitrophenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
2,4-Dinitrotoluene	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
2,6-Dinitrotoluene	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
2-Chloronaphthalene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
2-Chlorophenol	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
2-Methylnaphthalene	mg/kg	0.355 U	0.0824 U	0.0753 U	0.0806 U	0.0736 U
2-Methylphenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
2-Nitroaniline	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
2-Nitrophenol	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
3 & 4 Methylphenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
3,3'-Dichlorobenzidine	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
1,2,4-Trichlorobenzene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
1,2-Dichlorobenzene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
1,3-Dichlorobenzene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
1,4-Dichlorobenzene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
2,4,6-Trichlorophenol	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
2,4-Dichlorophenol	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
2,4-Dimethylphenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
2,4-Dinitrophenol	mg/kg	0.385 U	0.403 U	0.345 U	1.29	0.114 J
2,4-Dinitrotoluene	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
2,6-Dinitrotoluene	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
2-Chloronaphthalene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
2-Chlorophenol	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
2-Methylnaphthalene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
2-Methylphenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
2-Nitroaniline	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
2-Nitrophenol	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
3 & 4 Methylphenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
3,3'-Dichlorobenzidine	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
3-Nitroaniline	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
4,6-Dinitro-2-methylphenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
4-Bromophenyl-phenylether	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
4-Chloro-3-methylphenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
4-Chloroaniline	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
4-Chlorophenyl-phenylether	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
4-Nitroaniline	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
4-Nitrophenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Acenaphthene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Acenaphthylene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Acetophenone	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Aniline	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Anthracene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Azobenzene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.0468 J	0.0797 U	0.076 U	0.082 U	0.0759 U
Benzo(a)pyrene	mg/kg	0.057 J	0.0797 U	0.076 U	0.082 U	0.0759 U
Benzo(b)fluoranthene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Benzo(g,h,i)perylene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Benzo(k)fluoranthene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Benzoic Acid	mg/kg	0.773	0.394 U	0.376 U	0.406 U	0.376 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
3-Nitroaniline	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
4,6-Dinitro-2-methylphenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
4-Bromophenyl-phenylether	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
4-Chloro-3-methylphenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
4-Chloroaniline	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
4-Chlorophenyl-phenylether	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
4-Nitroaniline	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
4-Nitrophenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Acenaphthene	mg/kg	0.355 U	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Acenaphthylene	mg/kg	1.34	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Acetophenone	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Aniline	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Anthracene	mg/kg	0.656	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Azobenzene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	1.21	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Benzo(a)pyrene	mg/kg	2.09	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Benzo(b)fluoranthene	mg/kg	1.05	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Benzo(g,h,i)perylene	mg/kg	1.77	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Benzo(k)fluoranthene	mg/kg	1.12	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Benzoic Acid	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
3-Nitroaniline	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
4,6-Dinitro-2-methylphenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
4-Bromophenyl-phenylether	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
4-Chloro-3-methylphenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
4-Chloroaniline	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
4-Chlorophenyl-phenylether	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
4-Nitroaniline	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
4-Nitrophenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Acenaphthene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Acenaphthylene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Acetophenone	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Aniline	mg/kg	0.385 U	0.403 U	0.345 U	0.0374 J	0.375 U
Anthracene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Azobenzene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0452 J	0.0758 U
Benzo(a)pyrene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0531 J	0.0758 U
Benzo(b)fluoranthene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Benzo(g,h,i)perylene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Benzo(k)fluoranthene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Benzoic Acid	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzyl Alcohol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Bis(2-chloroethoxy)methane	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Bis(2-chloroethyl)ether	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
bis-(2-chloroisopropyl)ether	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Bis(2-ethylhexyl)phthalate	mg/kg	8.05	0.2 U	0.19 U	0.205 U	0.536
Butylbenzylphthalate	mg/kg	0.0462 J	0.394 U	0.376 U	0.406 U	0.0477 J
Carbazole	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Chrysene	mg/kg	0.0712 J	0.0797 U	0.076 U	0.082 U	0.0759 U
Dibenz(a,h)anthracene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Dibenzofuran	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Diethylphthalate	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Dimethylphthalate	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Di-N-Butylphthalate	mg/kg	1.06	0.394 U	0.376 U	0.406 U	0.376 U
Di-N-Octyl Phthalate	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Fluoranthene	mg/kg	0.117	0.0797 U	0.076 U	0.082 U	0.0759 U
Fluorene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Hexachlorobenzene	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Hexachlorobutadiene	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Hexachloroethane	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzyl Alcohol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Bis(2-chloroethoxy)methane	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Bis(2-chloroethyl)ether	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
bis-(2-chloroisopropyl)ether	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Butylbenzylphthalate	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Carbazole	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Chrysene	mg/kg	1.51	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Dibenz(a,h)anthracene	mg/kg	0.525	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Dibenzofuran	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Diethylphthalate	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Dimethylphthalate	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Di-N-Butylphthalate	mg/kg	0.77 J	0.408 U	0.373 U	0.399 U	0.364 U
Di-N-Octyl Phthalate	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Fluoranthene	mg/kg	1	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Fluorene	mg/kg	0.355 U	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Hexachlorobenzene	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Hexachlorobutadiene	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Hexachlorocyclopentadiene	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Hexachloroethane	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Indeno(1,2,3-cd)pyrene	mg/kg	1.08	0.0824 U	0.0753 U	0.0806 U	0.0736 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzyl Alcohol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Bis(2-chloroethoxy)methane	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Bis(2-chloroethyl)ether	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
bis-(2-chloroisopropyl)ether	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.195 U	0.204 U	2.73	1.26	0.366
Butylbenzylphthalate	mg/kg	0.385 U	0.403 U	0.142 J	0.125 J	0.375 U
Carbazole	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Chrysene	mg/kg	0.0779 U	0.0815 U	0.0518 J	0.0663 J	0.0758 U
Dibenz(a,h)anthracene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Dibenzofuran	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Diethylphthalate	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Dimethylphthalate	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Di-N-Butylphthalate	mg/kg	0.385 U	0.403 U	0.12 J	0.12 J	0.375 U
Di-N-Octyl Phthalate	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Fluoranthene	mg/kg	0.0779 U	0.0815 U	0.112	0.11	0.0758 U
Fluorene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Hexachlorobenzene	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Hexachlorobutadiene	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Hexachloroethane	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Isophorone	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
Naphthalene	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Naphthalene, 1-methyl-	mg/kg	0.0746 U	0.0797 U	0.076 U	0.082 U	0.0759 U
Nitrobenzene	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.187 U	0.2 U	0.19 U	0.205 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Pentachloronitrobenzene	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Pentachlorophenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Phenanthrene	mg/kg	0.068 J	0.0797 U	0.076 U	0.082 U	0.0759 U
Phenol	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U
Pyrene	mg/kg	0.163	0.0797 U	0.076 U	0.082 U	0.0759 U
Pyridine	mg/kg	0.369 U	0.394 U	0.376 U	0.406 U	0.376 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Isophorone	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
Naphthalene	mg/kg	0.355 U	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Naphthalene, 1-methyl-	mg/kg	0.355 U	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Nitrobenzene	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.889 U	0.206 U	0.189 U	0.202 U	0.184 U
N-Nitrosodiphenylamine	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Pentachloronitrobenzene	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Pentachlorophenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Phenanthrene	mg/kg	0.62	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Phenol	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U
Pyrene	mg/kg	2.5	0.0824 U	0.0753 U	0.0806 U	0.0736 U
Pyridine	mg/kg	1.76 U	0.408 U	0.373 U	0.399 U	0.364 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Isophorone	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
Naphthalene	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Naphthalene, 1-methyl-	mg/kg	0.0779 U	0.0815 U	0.0698 U	0.0716 U	0.0758 U
Nitrobenzene	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.195 U	0.204 U	0.175 U	0.179 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Pentachloronitrobenzene	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Pentachlorophenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Phenanthrene	mg/kg	0.0779 U	0.0815 U	0.081	0.118	0.0758 U
Phenol	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U
Pyrene	mg/kg	0.0779 U	0.0815 U	0.12	0.162	0.0758 U
Pyridine	mg/kg	0.385 U	0.403 U	0.345 U	0.354 U	0.375 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,1,1-Trichloroethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,1,2-Trichloroethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,1-Dichloroethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,1-Dichloroethene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,1-Dichloropropene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2,3-Trichlorobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2,3-Trichloropropane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2,4-Trichlorobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2,4-Trimethylbenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
1,2-Dibromoethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2-Dichlorobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2-Dichloroethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,2-Dichloropropane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,3,5-Trichlorobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,3,5-Trimethylbenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,3-Dichlorobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,3-Dichloropropane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,1,1-Trichloroethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,1,2-Trichloroethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,1-Dichloroethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,1-Dichloroethene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,1-Dichloropropene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2,3-Trichlorobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2,3-Trichloropropane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2,4-Trichlorobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2,4-Trimethylbenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
1,2-Dibromoethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2-Dichlorobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2-Dichloroethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,2-Dichloropropane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,3,5-Trichlorobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,3,5-Trimethylbenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,3-Dichlorobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,3-Dichloropropane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,1,1-Trichloroethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,1,2-Trichloroethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,1-Dichloroethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,1-Dichloroethene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,1-Dichloropropene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2,3-Trichlorobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2,3-Trichloropropane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2,4-Trichlorobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2,4-Trimethylbenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
1,2-Dibromoethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2-Dichlorobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2-Dichloroethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,2-Dichloropropane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,3,5-Trichlorobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,3,5-Trimethylbenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,3-Dichlorobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,3-Dichloropropane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,3-Dichloropropene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,4-Dichlorobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
1,4-Dioxane	mg/kg	0.0937 U	0.0901 U	0.0925 U	0.0988 U	0.0963 U
2,2-Dichloropropane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
2-Butanone	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
2-Chlorotoluene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
2-Hexanone	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
4-Chlorotoluene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
4-Isopropyltoluene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
4-Methyl-2-pentanone	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
Acetone	mg/kg	0.0469 U	0.0451 U	0.0463 U	0.0494 U	0.0482 U
Acrylonitrile	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Benzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Bromobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Bromochloromethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Bromodichloromethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Bromoform	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Bromomethane	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
Carbon disulfide	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
Carbon tetrachloride	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Chlorobenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,3-Dichloropropene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,4-Dichlorobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
1,4-Dioxane	mg/kg	0.0978 U	0.106 U	0.0825 U	0.0695 U	0.0651 U
2,2-Dichloropropane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
2-Butanone	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
2-Chlorotoluene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
2-Hexanone	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
4-Chlorotoluene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
4-Isopropyltoluene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
4-Methyl-2-pentanone	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
Acetone	mg/kg	0.0489 U	0.053 U	0.0412 U	0.0347 U	0.0325 U
Acrylonitrile	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Benzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Bromobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Bromochloromethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Bromodichloromethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Bromoform	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Bromomethane	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
Carbon disulfide	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
Carbon tetrachloride	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Chlorobenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,3-Dichloropropene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,4-Dichlorobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
1,4-Dioxane	mg/kg	0.0816 U	0.101 U	0.0996 U	0.103 U	0.106 U
2,2-Dichloropropane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
2-Butanone	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
2-Chlorotoluene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
2-Hexanone	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
4-Chlorotoluene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
4-Isopropyltoluene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
4-Methyl-2-pentanone	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
Acetone	mg/kg	0.0408 U	0.0507 U	0.0498 U	0.0515 U	0.0529 U
Acrylonitrile	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Benzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Bromobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Bromochloromethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Bromodichloromethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Bromoform	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Bromomethane	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
Carbon disulfide	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
Carbon tetrachloride	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Chlorobenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Chloroethane	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
Chloroform	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Chloromethane	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
cis-1,2-Dichloroethene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
cis-1,3-Dichloropropene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Dibromochloromethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Dibromomethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Dichlorodifluoromethane	mg/kg	0.00937 UJ	0.00901 UJ	0.00925 UJ	0.00988 UJ	0.00963 UJ
Diethyl ether	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Diisopropyl Ether	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Ethanol	mg/kg	0.937 U	0.901 U	0.925 U	0.988 U	0.963 U
Ethylbenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Hexachlorobutadiene	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
Isopropylbenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
m,p-Xylene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Methyl tert-butyl ether	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Methylene chloride	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
Naphthalene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
n-Butylbenzene	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
n-Propylbenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
o-Xylene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Chloroethane	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
Chloroform	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Chloromethane	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
cis-1,2-Dichloroethene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
cis-1,3-Dichloropropene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Dibromochloromethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Dibromomethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Dichlorodifluoromethane	mg/kg	0.00978 U	0.0106 UJ	0.00825 UJ	0.00695 UJ	0.00651 UJ
Diethyl ether	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Diisopropyl Ether	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Ethanol	mg/kg	0.978 U	1.06 U	0.825 U	0.695 U	0.651 U
Ethylbenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Hexachlorobutadiene	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
Isopropylbenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
m,p-Xylene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Methyl tert-butyl ether	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Methylene chloride	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
Naphthalene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
n-Butylbenzene	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
n-Propylbenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
o-Xylene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Chloroethane	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
Chloroform	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Chloromethane	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
cis-1,2-Dichloroethene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
cis-1,3-Dichloropropene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Dibromochloromethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Dibromomethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Dichlorodifluoromethane	mg/kg	0.00816 U	0.0101 UJ	0.00996 UJ	0.0103 UJ	0.0106 UJ
Diethyl ether	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Diisopropyl Ether	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Ethanol	mg/kg	0.816 U	1.01 U	0.996 U	1.03 U	1.06 U
Ethylbenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Hexachlorobutadiene	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
Isopropylbenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
m,p-Xylene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Methyl tert-butyl ether	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Methylene chloride	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
Naphthalene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
n-Butylbenzene	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
n-Propylbenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
o-Xylene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
sec-Butylbenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Styrene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
tert-Amyl methyl ether	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
tert-Butyl Alcohol	mg/kg	0.0937 U	0.0901 U	0.0925 U	0.0988 U	0.0963 U
Tert-Butyl Ethyl Ether	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
tert-Butylbenzene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Tetrachloroethene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Tetrahydrofuran	mg/kg	0.00937 U	0.00901 U	0.00925 U	0.00988 U	0.00963 U
Toluene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
trans-1,2-Dichloroethene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
trans-1,3-Dichloropropene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
trans-1,4-Dichlorobutene	mg/kg	0.0234 U	0.0225 U	0.0231 U	0.0247 U	0.0241 U
Trichloroethene	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Trichlorofluoromethane	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Vinyl chloride	mg/kg	0.00469 U	0.00451 U	0.00463 U	0.00494 U	0.00482 U
Xylene (total)	mg/kg	0.0141 U	0.0135 U	0.0139 U	0.0148 U	0.0145 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
sec-Butylbenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Styrene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
tert-Amyl methyl ether	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
tert-Butyl Alcohol	mg/kg	0.0978 U	0.106 U	0.0825 U	0.0695 U	0.0651 U
Tert-Butyl Ethyl Ether	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
tert-Butylbenzene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Tetrachloroethene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Tetrahydrofuran	mg/kg	0.00978 U	0.0106 U	0.00825 U	0.00695 U	0.00651 U
Toluene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
trans-1,2-Dichloroethene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
trans-1,3-Dichloropropene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
trans-1,4-Dichlorobutene	mg/kg	0.0245 U	0.0265 U	0.0206 U	0.0174 U	0.0163 U
Trichloroethene	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Trichlorofluoromethane	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Vinyl chloride	mg/kg	0.00489 U	0.0053 U	0.00412 U	0.00347 U	0.00325 U
Xylene (total)	mg/kg	0.0147 U	0.0159 U	0.0124 U	0.0104 U	0.00976 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
sec-Butylbenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Styrene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
tert-Amyl methyl ether	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
tert-Butyl Alcohol	mg/kg	0.0816 U	0.101 U	0.0996 U	0.103 U	0.106 U
Tert-Butyl Ethyl Ether	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
tert-Butylbenzene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Tetrachloroethene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Tetrahydrofuran	mg/kg	0.00816 U	0.0101 U	0.00996 U	0.0103 U	0.0106 U
Toluene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
trans-1,2-Dichloroethene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
trans-1,3-Dichloropropene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
trans-1,4-Dichlorobutene	mg/kg	0.0204 U	0.0253 U	0.0249 U	0.0258 U	0.0264 U
Trichloroethene	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Trichlorofluoromethane	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Vinyl chloride	mg/kg	0.00408 U	0.00507 U	0.00498 U	0.00515 U	0.00529 U
Xylene (total)	mg/kg	0.0122 U	0.0152 U	0.0149 U	0.0155 U	0.0159 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10021-1	620-10021-10	620-10021-11	620-10021-12	620-10021-13
Field Sample ID		2023-SB-02-0002	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012	2023-FD-01
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-01-0406
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzene	mg/kg	0.0449 U	0.0455 U	0.0506 U	0.0498 U	0.0509 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.225 U	0.227 U	0.253 U	0.249 U	0.254 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.225 U	0.227 U	0.253 U	0.249 U	0.254 U
C9-C10 Aromatics	mg/kg	0.225 U	0.227 U	0.253 U	0.249 U	0.254 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.225 U	0.227 U	0.253 U	0.249 U	0.254 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.225 U	0.227 U	0.253 U	0.249 U	0.254 U
Ethylbenzene	mg/kg	0.0449 U	0.0455 U	0.0506 U	0.0498 U	0.0509 U
m,p-Xylene	mg/kg	0.0899 U	0.0909 U	0.101 U	0.0996 U	0.102 U
Methyl tert-butyl ether	mg/kg	0.0449 U	0.0455 U	0.0506 U	0.0498 U	0.0509 U
Naphthalene	mg/kg	0.0449 U	0.0455 U	0.0506 U	0.0498 U	0.0509 U
o-Xylene	mg/kg	0.0449 U	0.0455 U	0.0506 U	0.0498 U	0.0509 U
Toluene	mg/kg	0.0449 U	0.0455 U	0.0506 U	0.0498 U	0.0509 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10021-14	620-10021-15	620-10021-2	620-10021-3	620-10021-4
Field Sample ID		2023-MW-01-0002	2023-MW-01-0204	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzene	mg/kg	0.0575 U	0.0516 U	0.0467 U	0.0478 U	0.0411 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.288 U	0.258 U	0.234 U	0.239 U	0.206 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.288 U	0.258 U	0.234 U	0.239 U	0.206 U
C9-C10 Aromatics	mg/kg	0.288 U	0.258 U	0.234 U	0.239 U	0.206 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.288 U	0.258 U	0.234 U	0.239 U	0.206 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.288 U	0.258 U	0.234 U	0.239 U	0.206 U
Ethylbenzene	mg/kg	0.0575 U	0.0516 U	0.0467 U	0.0478 U	0.0411 U
m,p-Xylene	mg/kg	0.115 U	0.103 U	0.0935 U	0.0956 U	0.0822 U
Methyl tert-butyl ether	mg/kg	0.0575 U	0.0516 U	0.0467 U	0.0478 U	0.0411 U
Naphthalene	mg/kg	0.0575 U	0.0516 U	0.0467 U	0.0478 U	0.0411 U
o-Xylene	mg/kg	0.0575 U	0.0516 U	0.0467 U	0.0478 U	0.0411 U
Toluene	mg/kg	0.0575 U	0.0516 U	0.0467 U	0.0478 U	0.0411 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10021-5	620-10021-6	620-10021-7	620-10021-8	620-10021-9
Field Sample ID		2023-SB-02-0810	2023-SB-02-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzene	mg/kg	0.0441 U	0.0516 U	0.052 U	0.0723 U	0.0501 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.221 U	0.258 U	0.26 U	0.362 U	0.25 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.221 U	0.258 U	0.26 U	0.362 U	0.25 U
C9-C10 Aromatics	mg/kg	0.221 U	0.258 U	0.26 U	0.362 U	0.25 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.221 U	0.258 U	0.26 U	0.362 U	0.25 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.221 U	0.258 U	0.26 U	0.362 U	0.25 U
Ethylbenzene	mg/kg	0.0441 U	0.0516 U	0.052 U	0.0723 U	0.0501 U
m,p-Xylene	mg/kg	0.0882 U	0.103 U	0.104 U	0.145 U	0.1 U
Methyl tert-butyl ether	mg/kg	0.0441 U	0.0516 U	0.052 U	0.0723 U	0.0501 U
Naphthalene	mg/kg	0.0441 U	0.0516 U	0.052 U	0.0723 U	0.0501 U
o-Xylene	mg/kg	0.0441 U	0.0516 U	0.052 U	0.0723 U	0.0501 U
Toluene	mg/kg	0.0441 U	0.0516 U	0.052 U	0.0723 U	0.0501 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10021-16
Field Sample ID		Trip Blank-022723
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.005 U
1,1,1-Trichloroethane	mg/kg	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U
1,1-Dichloroethane	mg/kg	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U
1,1-Dichloropropene	mg/kg	0.005 U
1,2,3-Trichlorobenzene	mg/kg	0.005 U
1,2,3-Trichloropropane	mg/kg	0.005 U
1,2,4-Trichlorobenzene	mg/kg	0.005 U
1,2,4-Trimethylbenzene	mg/kg	0.005 U
1,2-Dibromo-3-chloropropane	mg/kg	0.01 U
1,2-Dibromoethane	mg/kg	0.005 U
1,2-Dichlorobenzene	mg/kg	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U
1,3,5-Trichlorobenzene	mg/kg	0.005 U
1,3,5-Trimethylbenzene	mg/kg	0.005 U
1,3-Dichlorobenzene	mg/kg	0.005 U
1,3-Dichloropropane	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10021-16
Field Sample ID		Trip Blank-022723
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	02/27/23
1,3-Dichloropropene	mg/kg	0.005 U
1,4-Dichlorobenzene	mg/kg	0.005 U
1,4-Dioxane	mg/kg	0.1 U
2,2-Dichloropropane	mg/kg	0.005 U
2-Butanone	mg/kg	0.01 U
2-Chlorotoluene	mg/kg	0.005 U
2-Hexanone	mg/kg	0.01 U
4-Chlorotoluene	mg/kg	0.005 U
4-Isopropyltoluene	mg/kg	0.005 U
4-Methyl-2-pentanone	mg/kg	0.01 U
Acetone	mg/kg	0.036 BJ
Acrylonitrile	mg/kg	0.005 U
Benzene	mg/kg	0.005 U
Bromobenzene	mg/kg	0.005 U
Bromochloromethane	mg/kg	0.005 U
Bromodichloromethane	mg/kg	0.005 U
Bromoform	mg/kg	0.005 U
Bromomethane	mg/kg	0.01 U
Carbon disulfide	mg/kg	0.01 U
Carbon tetrachloride	mg/kg	0.005 U
Chlorobenzene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10021-16
Field Sample ID		Trip Blank-022723
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	02/27/23
Chloroethane	mg/kg	0.01 U
Chloroform	mg/kg	0.005 U
Chloromethane	mg/kg	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.005 U
cis-1,3-Dichloropropene	mg/kg	0.005 U
Dibromochloromethane	mg/kg	0.005 U
Dibromomethane	mg/kg	0.005 U
Dichlorodifluoromethane	mg/kg	0.01 U
Diethyl ether	mg/kg	0.005 U
Diisopropyl Ether	mg/kg	0.005 U
Ethanol	mg/kg	1 U
Ethylbenzene	mg/kg	0.005 U
Hexachlorobutadiene	mg/kg	0.01 U
Isopropylbenzene	mg/kg	0.005 U
m,p-Xylene	mg/kg	0.005 U
Methyl tert-butyl ether	mg/kg	0.005 U
Methylene chloride	mg/kg	0.0107
Naphthalene	mg/kg	0.005 U
n-Butylbenzene	mg/kg	0.01 U
n-Propylbenzene	mg/kg	0.005 U
o-Xylene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10021-16
Field Sample ID		Trip Blank-022723
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	02/27/23
sec-Butylbenzene	mg/kg	0.005 U
Styrene	mg/kg	0.005 U
tert-Amyl methyl ether	mg/kg	0.005 U
tert-Butyl Alcohol	mg/kg	0.1 U
Tert-Butyl Ethyl Ether	mg/kg	0.005 U
tert-Butylbenzene	mg/kg	0.005 U
Tetrachloroethene	mg/kg	0.005 U
Tetrahydrofuran	mg/kg	0.01 U
Toluene	mg/kg	0.00615
trans-1,2-Dichloroethene	mg/kg	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U
trans-1,4-Dichlorobutene	mg/kg	0.025 U
Trichloroethene	mg/kg	0.005 U
Trichlorofluoromethane	mg/kg	0.005 U
Vinyl chloride	mg/kg	0.005 U
Xylene (total)	mg/kg	0.015 U

Data Review Qualification Actions
American Tissue Mill
SDG 62010021

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Acetone	2023-SB-01-0406, 2023-SB-02-0204	Trip blank contamination	RL (U)	
	Methylene chloride	2023-MW-01-0204	Trip blank contamination	RL (U)	
	Dichlorodifluoromethane	All soil samples except 2023-SB-02-0810 and 2023-MW-01-0002	LCS/LCSD recovery	UJ	No detected results.
SVOCs					
	Benzidine	All soil samples.	LCS/LCSD recovery	R	No detected results.
PCBs					
	Qualification of the data was not required.				
MassDEP-VPH					
	Naphthalene	2023-SB-01-0204, 2023-SB-02-0002	Laboratory blank contamination	RL (U)	
MCP-14 Metals / Mercury					
	Chromium	2023-SB-02-1012, 2023-SB-01-0406, 2023-SB-01-0810, 2023-FD-01	Laboratory blank contamination	J+	Final qual J due to MS/MSD actions.
	Antimony	All MW soil samples.	MS recovery; no PDS required.	UJ	No detected results.
	Lead	All MW soil samples.	MS/MSD recovery; no PDS	J-	No non-detect results. Final qual J due to lab dup.
	Barium	All SB soil samples.	MS/MSD recovery and RPD; no PDS	J	Indeterminate bias. No non-detect results.
	Barium	All SB soil samples.	Serial dilution not performed	J	No non-detect results.

Data Review Qualification Actions
American Tissue Mill
SDG 62010021

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	Chromium, vanadium, zinc	All SB soil amples.	MSD recovery; no PDS	J-	No non-detect results. Final qual J for chromium for SB samples associated with blank contamination, above.
	Lead	All SB soil samples.	MSD recovery	J-	No ND results.
	Lead, zinc	All MW soil samples.	Laboratory duplicate precision	J	No non-detect results.
PFAS					
	NMeFOSAA, NEtFOSAA	2023-SB-02-0204, 2023-SB-02-0810, 2023-SB-01-0002, 2023-SB-01-0406, 2023-SB-01-0608, 2023-FD-01, 2023-MW-01-0204	Surrogate recovery	UJ	
	NMeFOSAA	2023-SB-02-0002	Surrogate recovery	UJ	
	NMeFOSAA, NEtFOSAA	2023-SB-01-0204	Surrogate recovery (< 10%)	R	
	NMePFOSA, NEtPFOSA	2023-SB-01-0002, 2023-SB-01-0406, 2023-FD-01, 2023-MW-01-0002	Surrogate recovery	UJ	

MW - Monitoring Well
SB - Soil Boring

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 03/15/2023

Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod)

Laboratory: Eurofins New England, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (Metals and PFAS); Eurofins Northeast, Amherst, NY (MassDEP-VPH)
SDG: 620100211
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Fifteen (15) soil samples were listed on the COC for SDG 620100211, including one field duplicate sample. One trip blank sample was also included on the COC. All samples were collected on 02/27/2023. The samples were received at the Eurofins New England Laboratory on 02/27/2023 at 0.2, 3.4 and 3.6 °C. Samples for MassDEP-VPH analysis were subsequently shipped to Eurofins Northeast Laboratory and samples for MCP-14 metals/mercury and PFAS analyses were shipped to Eurofins Lancaster Laboratory for analysis. Samples were received at Eurofins Northeast and Lancaster Laboratory on 02/28/2023 at 2.0 and 1.4 °C, respectively.

Sample ID	Laboratory ID	Analyses
2023-SB-02-0002	620-10021-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-SB-02-0204	620-10021-2	
2023-SB-02-0406	620-10021-3	
2023-SB-02-0608	620-10021-4	
2023-SB-02-0810	620-10021-5	
2023-SB-02-1012	620-10021-6	
2023-SB-01-0002	620-10021-7	
2023-SB-01-0204	620-10021-8	
2023-SB-01-0406	620-10021-9	
2023-SB-01-0608	620-10021-10	
2023-SB-01-0810	620-10021-11	
2023-SB-01-1012	620-10021-12	
2023-FD-01	620-10021-13	
2023-MW-01-0002	620-10021-14	
2023-MW-01-0204	620-10021-15	
Trip Blank-022723	620-10021-16	VOCs

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Note that the PFAS analyses were inadvertently not included on the COC from Eurofins New England to Eurofins Lancaster. The samples were analyzed for PFAS by Eurofins Lancaster, as otherwise indicated in the laboratory report.

The trip blank sample ID is listed as “Trip Blank” on the COC. The date of sample collection was appended to the sample ID during data validation for specificity.

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (soil) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for several additional VOCs were also reported by the laboratory. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1’-biphenyl. Based on the QAPPA (February 2023), 1,1-biphenyl is not a compound of concern for the site. Results for several additional SVOCs were also reported by the laboratory. No actions are required.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory. Results for MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report. No actions are required.

MassDEP VPH: Results for all VPH parameters were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, copper, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which does not include these analytes.

PFAS: Results for all PFAS compounds on Table 2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for mercury; within 180 days for all other analytes) were met.

PFAS: Samples were extracted within the QAPP-specified holding time of 28 days from collection. Samples were analyzed within 40 days of extraction. No actions are taken.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Laboratory and Field Blanks

VOCs: Acetone was detected in VOC laboratory method blank MB 620-20151/3-A at < reporting limit (RL). Acetone was also detected in the trip blank associated with the samples, at a slightly higher concentration than the laboratory blank concentration, but still < RL. Therefore, based on the National Functional Guidelines (NFGs, 2020), blank actions for acetone are taken based on the trip blank and discussed further below. Note that in this case, the blank actions for the laboratory blank and trip blank acetone detections are the same since both the laboratory and field blank results were < RL.

Trip blank sample Trip Blank-022723 (620-10021-16) is associated with the soil samples of this SDG. Acetone was detected at < RL in the trip blank. Results for acetone were non-detect in all soil samples except samples 2023-SB-01-0406 (620-10021-9) and 2023-SB-02-0204 (620-10021-2), where acetone was detected at < RL. Based on the NFGs (2020), the detected acetone results in samples 2023-SB-01-0406 and 2023-SB-02-0204 are qualified as non-detect at the RL (RL (U)).

Methylene chloride was detected in the trip blank at > RL. Methylene chloride results were non-detect in all samples except for sample 2023-MW-01-0204 (620-10021-15) where it was detected at < RL. Therefore, based on the NFGs (2020), the detected result for methylene chloride in sample 2023-MW-01-0204 was qualified as non-detect at the RL (RL (U)).

Toluene was also detected in the trip blank at > RL. Results for toluene were non-detect in all soil samples; therefore, no blank actions are required.

SVOCs: Results for laboratory blank MB 620-20217/1-A were all non-detect. No blank actions are required.

PCBs: Results for all PCB laboratory method blanks were non-detect. No blank actions are required.

MassDEP-VPH: Naphthalene and C9-C10 aromatics were detected in laboratory blank MB 480-660132/1-A at < RL. Results for C9-C10 aromatics were non-detect in all soil samples and no blank actions are required for C9-C10 aromatics. Naphthalene was detected in samples 2023-

SB-01-0204 (620-10221-1) and 2023-SB-02-0002 (620-10021-8) at < RL. Based on the NFGs (2020) for the VOC analysis, professional judgement was used to qualify the detected results for naphthalene in samples 2023-SB-01-0204 and 2023-SB-02-0002 as non-detect at the RL (RL (U)).

MCP-14 Metals/Mercury: Chromium was detected at < RL in laboratory method blank MB-410-349123/1-A. This method blank is associated with all soil samples except 2023-SB-02-0810 (620-10021-5). Chromium results in the associated samples were all > 10x the concentration in the method blank except in samples 2023-SB-02-1012 (620-10021-6), 2023-SB-01-0406 (620-10021-9), 2023-SB-01-0810 (620-10021-11), and 2023-FD-01 (620-10021-13). Based on the NFGs (2020) and professional judgement, detected chromium results <10x the blank contamination in these samples are qualified as estimated with a potential high bias (J+) due to the method blank contamination. Note that the final qualification is estimated with an indeterminate bias (J) due to MS/MSD recoveries, as further discussed below. Chromium results in the remaining samples are accepted unqualified since the chromium concentration in the method blank is considered to have an insignificant impact on the associated sample concentrations.

Beryllium was detected at < RL in laboratory method blank MB 410-349150/1-A. This method blank is associated with sample 2023-SB-02-0810 (620-10021-5). Beryllium was detected in the sample at a concentration > 10x the blank concentration; therefore, the beryllium concentration in the method blank is considered to have an insignificant impact on the associated sample concentration. No action is taken.

Results for mercury were non-detect in the laboratory method blanks. No blank actions are required.

PFAS: Results for PFAS were non-detect in laboratory method blank MB 410-349094/1-B. No blank actions are required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

SVOC: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-130% for soil. No actions are required.

PCBs: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-150% on both analytical columns. No actions are required.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.

PFAS: Percent recoveries of several surrogates were below the Program QAPP limits of 50-150% in several samples. Results for all PFAS compounds were non-detect in all soil samples. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), associated PFAS compound results were qualified as estimated (UJ) in the affected samples. One sample had surrogate recoveries < 10%; nondetect results for the associated compounds were rejected (R) in the affected sample. Refer to the Data Review Qualification Actions Table for action details.

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover. All percent LCS/LCSD recoveries meet the Program QAPP recovery limits except for chloromethane (69%) and dichlorodifluoromethane (37%) in the analyses of LCS/LCSD pair 620-20151/1-A and 2-A. The MCP CAM identifies these two compounds as "potentially difficult"; therefore, the recovery limits of 40-160% apply for these two compounds. This LCS/LCSD pair is associated with all soil samples except samples 2023-SB-02-0810 (620-10021-5) and 2023-MW-01-0002 (620-10021-14). The NFGs (2020) do not include guidance for LCS results for the VOC analysis; therefore, professional judgement based on the MS/MSD guidance in the NFGs (2020) was used to qualify the non-detect results for dichlorodifluoromethane as estimated (UJ) in all soil samples except 2023-SB-02-0810 and 2023-MW-01-0002. RPDs met the Program QAPP limit of ≤ 20%.

The percent recoveries of dichlorodifluoromethane in LCS/LCSD pair 620-20238/1-A and 2-A were below the 70-130% limits but within the expanded limits of 40-160%. RPDs met the Program QAPP and MCP CAM limit of ≤ 20%. No actions are required.

SVOCs: The percent recoveries of benzidine in LCS/LCSD pair 620-20217/2-A and 3-A were below the Program QAPP and MCP CAM limits of 40-140% for base/neutral compounds (14% and 19%, respectively). Benzidine is not an MCP CAM compound identified as "potentially difficult". RPDs met the QAPP limit of ≤ 30% for all compounds except benzidine, where the RPD was 31%. This LCS/LCSD pair is associated with all soil samples in the SDG. Benzidine was non-detect in all samples. Based on the NFGs (2020), the non-detect results for benzidine are rejected (R) in all soil samples due to the low recoveries in the associated LCS/LCSD pair. Project objectives may be impacted.

PCBs: Percent recoveries of Aroclors 1016 and 1260 in LCS/LCSD pair 620-20161/2-A and 3-A and LCS/LCSD pair 620-20162/2-A and 3-A met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30% for soils. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pair 480-660132/2-A and 3-A meet the Program QAPP recovery limits of 70-130%. All RPDs meet the Program QAPP RPD limit of ≤ 25%. No action is required.

MCP-14 Metals/Mercury: Percent recoveries for the metals and mercury LCS analyses were within the limits of 80-120%. The Program QAPP and MCP CAM recovery limits for soil are within vendor 95% confidence limits. Vendor limits were not presented in the laboratory report; the

laboratory used 80-120% as recovery limits based on the MassDEP CAM Method 6010D. Percent recoveries for metals ranged from 100% to 117%. The percent recovery for mercury was 100%. RPDs meet the Program QAPP limit of ≤ 30% for metals and mercury. Professional judgement was used to accept sample results for metals and mercury unqualified for LCS performance.

PFAS: Percent recoveries for the PFAS LCS 410-349094/2-B met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP does not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS results. LCS recoveries ranged from 75% to 96%. An LCSD was not analyzed for the PFAS analysis since MSD and/or laboratory duplicate analyses were provided in the laboratory report. Per the Program QAPP, an LCSD for the PFAS analysis is only required if MSD analyses are not provided. No actions are required.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix.

Based on professional judgement, qualifications were applied to soil boring (SB) and monitoring well (MW) samples separately since MS/MSD analyses were performed for each sample type.

MS and/or MSD analyses were performed for the metals, mercury, and PFAS analyses only.

MCP-14 Metals/Mercury: MS/MSD analyses was performed on sample 2023-MW-01-0204 (620-10021-15). Percent recoveries for the MS and MSD analyses are all within the Program QAPP limits of 75-125% except for antimony in the MS analysis (68%) and lead, which was recovered at 28% in the MS analysis and 27% in the MSD analysis. A post-digest spike (PDS) analysis was not performed for lead (a PDS is not required for antimony). RPDs are ≤ 35% as specified in the QAPP. Antimony was not detected in the monitoring well (MW) soil samples. Based on the NFGs (2020), the non-detect results for antimony are qualified as estimated (UJ) in all MW soil samples due to the low recovery in the MS analysis. Lead was detected in the MW soil samples. The detected results for lead are qualified as estimated with a potential low bias (J-) in the MW soil samples due to MS/MSD recoveries < 30%. Note that the final qualification for lead is estimated with an indeterminate bias (J) due to poor laboratory duplicate precision as further discussed below.

MS/MSD analyses were also performed on sample 2023-SB-02-0810 (620-10021-5). Barium recoveries exceeded the QAPP limits of 75-125% (135% and 27%, respectively) and the RPD exceeded the limit of ≤ 35% (49%). Based on the NFGs (2020), professional judgement was used to qualify the detected barium results as estimated with an indeterminate bias (J) in all SB soil samples due to the high and low MS/MSD recoveries.

Percent recoveries for chromium, vanadium, and zinc were < 75% but > 30% in the MSD analysis of sample 2023-SB-02-0810 (620-10021-5). These analytes were detected in all soil samples. Based on the NFGs (2020), detected results for chromium, vanadium, and zinc are qualified as estimated with a potential low bias (J-) in all SB samples due to the low recoveries. Note that the final qualification for chromium is estimated with an indeterminate bias (J) in samples 2023-SB-02-1012, 2023-SB-01-0406, 2023-SB-01-0810, and 2023-FD-01 due to blank actions, as discussed above.

The percent recovery of lead in the MSD analysis of sample 2023-SB-02-0810 (620-10021-5) was < 30%. Lead was detected in all SB soil samples. Based on the NFGs (2020), detected lead results in all SB soil samples are qualified as estimated with a potential low bias (J-) due to the MSD results.

MS/MSD analyses for mercury were performed on sample 2023-MW-01-0204 (620-10021-15). Percent recoveries for mercury met the Program QAPP limits of 75-125% and RPD ≤ 35%. No action is required.

PFAS: MS/MSD analyses were performed on sample 2023-MW-01-0204 (620-10021-15). Percent recoveries for all PFAS compounds met the laboratory-established limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include MS/MSD recovery limits for PFAS. Therefore, the laboratory-established recovery and RPD limits were used to evaluate the MS/MSD results. MS/MSD recoveries ranged from 77% to 97% and RPDs were all < 30%. No actions are required.

8. Laboratory Duplicates (metals only)

MCP-14 Metals/Mercury: Laboratory duplicate analyses were performed on samples 2023-MW-01-0204 (620-10021-15) and 2023-SB-02-0810 (620-10021-5).

Program QAPP laboratory duplicate criteria (≤ 35% RPD) were met for all analytes for the duplicate analysis performed on sample 2023-MW-01-0204 except for lead and zinc, where the RPDs were > 35% (38% and 40%, respectively). Results for lead and zinc in the sample and duplicate analyses were > 5x RL. Based on the NFGs (2020), the detected results for lead and zinc are qualified as estimated (J) in all MW soil samples due to poor laboratory duplicate precision.

Program QAPP laboratory duplicate criteria (≤ 35% RPD) were met for all analytes for the duplicate analysis performed on sample 2023-SB-02-0810. No actions are required.

The RPD for the laboratory duplicate analysis performed on sample 2023-MW-01-0204 for mercury was > 35% (48%). Sample and duplicate results for mercury were < RL and already reported by the laboratory as estimated (J). The absolute difference between the sample and duplicate results was < RL; therefore, based on the NFGs (2020), no action is required.

Results for mercury were non-detect in the sample and laboratory duplicate analysis performed on sample 2023-SB-02-0810. Laboratory duplicate precision criteria is acceptable and no actions are required.

Note that Table 2-12-2 of the Program QAPP lists a laboratory duplicate as a QC sample for the PFAS analysis with no associated QC limit. A laboratory duplicate analysis was not reported by the laboratory. The EPA Data Review and Validation Guidelines for PFAS Analyzed using EPA Method 537 (2018) does not include discussion of laboratory duplicate analyses. No actions are taken.

9. Serial Dilution (metals only)

MCP-14 Metals/Mercury: A serial dilution analysis was not performed for this SDG. The Massachusetts CAM requires a serial dilution analysis on samples used for MS/MSD analyses where analytes are detected at > 50x RL. MS/MSD analyses were performed on samples 2023-SB-02-0810 and 2023-MW-01-0204 for this SDG. Detected analyte results were < 50x RL for

both samples except for barium in 2023-SB-02-0810, which was detected at 65.8 mg/kg with an RL of 0.462 mg/kg. Soil sample results for barium were all detected. Based on the NFGs, detected results are qualified as estimated (J) if a serial dilution analysis is not performed. Detected results for barium were previously qualified as estimated (J) in all SB soil samples due to MS/MSD results, as discussed above, and further action is not required. There are no serial dilution criteria included in the Program QAPP.

10. Field Duplicate Precision

The field duplicate pair 2023-SB-01-0406 (620-10021-9) / 2023-FD-01 (620-10021-13) is associated with the soil samples of this SDG. Acceptable field duplicate precision is an RPD of ≤ 50% for results > 5x RL and an absolute difference < 4x RL for results < 5x RL, based on the Region 1 EPA New England Environmental Data Review Supplement (September 2020).

Based on Region 1 guidelines, qualifications are applied to all field samples with similar matrix.

Field precision criteria were met for the VOC, SVOC, PCB, MassDEP VPH, MCP-14 Metals, and PFAS analyses. No actions are required.

11. Internal Standards

Not assessed for S2AVM data review.

12. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections. No action is taken.

13. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

14. Reporting Limits

RLs for on-detect results for VOCs, PCBs, MassDEP-VPH, and MCP-14 metals/mercury analyses met the Project Action Levels (PALs) for the site.

SVOC RLs for non-detect results meet PALs except for 1,4-dichlorobenzene, bis(2-chloroethyl)ether, and hexachlorobenzene in sample 2023-MW-01-0002 (620-10021-14). PALs for 1,4-dichlorobenzene, bis(2-chloroethyl)ether, and hexachlorobenzene are 1 mg/kg, 0.7 mg/kg, and 0.7 mg/kg, respectively. The non-detect RLs for these compounds are 1.76 mg/kg, 0.889 mg/kg, and 0.889 mg/kg, respectively. Site objectives may be impacted.

Note there are no PALs associated with the PFAS analysis.

15. Other

EPA Region 1 Supplement (2020) criterion for percent solids content (> 30%) was met for all soil samples. No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620100211 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-01-0406**		**2023-FD-01**				
	620-10021-9		**620-10021-13**				
1,1,1,2-Tetrachloroethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,1,1-Trichloroethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,1,2,2-Tetrachloroethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,1,2-Trichloroethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,1-Dichloroethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,1-Dichloroethene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,1-Dichloropropene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,2,3-Trichlorobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,2,3-Trichloropropane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,2,4-Trichlorobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,2,4-Trimethylbenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
chloropropane	0.0106	U	0.00963	U	-9.59		Ok - both ND
1,2-Dibromoethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,2-Dichlorobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,2-Dichloroethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,2-Dichloropropane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,3,5-Trichlorobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,3,5-Trimethylbenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,3-Dichlorobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,3-Dichloropropane	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,3-Dichloropropene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,4-Dichlorobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
1,4-Dioxane	0.106	U	0.0963	U	-9.59		Ok - both ND
2,2-Dichloropropane	0.00529	U	0.00482	U	-9.30		Ok - both ND
2-Butanone	0.0106	U	0.00963	U	-9.59		Ok - both ND
2-Chlorotoluene	0.00529	U	0.00482	U	-9.30		Ok - both ND
2-Hexanone	0.0106	U	0.00963	U	-9.59		Ok - both ND
4-Chlorotoluene	0.00529	U	0.00482	U	-9.30		Ok - both ND
4-Isopropyltoluene	0.00529	U	0.00482	U	-9.30		Ok - both ND
4-Methyl-2-pentanone	0.0106	U	0.00963	U	-9.59		Ok - both ND
Acetone	0.0137	BJ	0.0482	U	111.47		Ok - ND and < RL
Acrylonitrile	0.00529	U	0.00482	U	-9.30		Ok - both ND
Benzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Bromobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Bromochloromethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
Bromodichloromethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
Bromoform	0.00529	U	0.00482	U	-9.30		Ok - both ND
Bromomethane	0.0106	U	0.00963	U	-9.59		Ok - both ND
Carbon disulfide	0.0106	U	0.00963	U	-9.59		Ok - both ND
Carbon tetrachloride	0.00529	U	0.00482	U	-9.30		Ok - both ND
Chlorobenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Chloroethane	0.0106	U	0.00963	U	-9.59		Ok - both ND
Chloroform	0.00529	U	0.00482	U	-9.30		Ok - both ND
Chloromethane	0.0106	U	0.00963	U	-9.59		Ok - both ND
cis-1,2-Dichloroethene	0.00529	U	0.00482	U	-9.30		Ok - both ND
cis-1,3-Dichloropropene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Dibromochloromethane	0.00529	U	0.00482	U	-9.30		Ok - both ND

Field Duplicate Evaluation

SDG: 620100211 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Dibromomethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
Dichlorodifluoromethane	0.0106	U	0.00963	U	-9.59		Ok - both ND
Diethyl ether	0.00529	U	0.00482	U	-9.30		Ok - both ND
Diisopropyl Ether	0.00529	U	0.00482	U	-9.30		Ok - both ND
Ethanol	1.06	U	0.963	U	-9.59		Ok - both ND
Ethylbenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Hexachlorobutadiene	0.0106	U	0.00963	U	-9.59		Ok - both ND
Isopropylbenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
m,p-Xylene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Methyl tert-butyl ether	0.00529	U	0.00482	U	-9.30		Ok - both ND
Methylene chloride	0.0106	U	0.00963	U	-9.59		Ok - both ND
Naphthalene	0.00529	U	0.00482	U	-9.30		Ok - both ND
n-Butylbenzene	0.0106	U	0.00963	U	-9.59		Ok - both ND
n-Propylbenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
o-Xylene	0.00529	U	0.00482	U	-9.30		Ok - both ND
sec-Butylbenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Styrene	0.00529	U	0.00482	U	-9.30		Ok - both ND
tert-Amyl methyl ether	0.00529	U	0.00482	U	-9.30		Ok - both ND
tert-Butyl Alcohol	0.106	U	0.0963	U	-9.59		Ok - both ND
Tert-Butyl Ethyl Ether	0.00529	U	0.00482	U	-9.30		Ok - both ND
tert-Butylbenzene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Tetrachloroethene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Tetrahydrofuran	0.0106	U	0.00963	U	-9.59		Ok - both ND
Toluene	0.00529	U	0.00482	U	-9.30		Ok - both ND
trans-1,2-Dichloroethene	0.00529	U	0.00482	U	-9.30		Ok - both ND
trans-1,3-Dichloropropene	0.00529	U	0.00482	U	-9.30		Ok - both ND
trans-1,4-Dichlorobutene	0.0264	U	0.0241	U	-9.11		Ok - both ND
Trichloroethene	0.00529	U	0.00482	U	-9.30		Ok - both ND
Trichlorofluoromethane	0.00529	U	0.00482	U	-9.30		Ok - both ND
Vinyl chloride	0.00529	U	0.00482	U	-9.30		Ok - both ND
Xylene (total)	0.0159	U	0.0145	U	-9.21		Ok - both ND

Field Duplicate Evaluation

SDG: 620100211 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-01-0406**		**2023-FD-01**				
	620-10021-9		**620-10021-13**				
1,2,4,5-Tetrachlorobenzene	0.375	U	0.376	U	0.27		Ok - both ND
1,2,4-Trichlorobenzene	0.375	U	0.376	U	0.27		Ok - both ND
1,2-Dichlorobenzene	0.375	U	0.376	U	0.27		Ok - both ND
1,3-Dichlorobenzene	0.375	U	0.376	U	0.27		Ok - both ND
1,4-Dichlorobenzene	0.375	U	0.376	U	0.27		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.19	U	0.19	U	0.00		Ok - both ND
2,4,5-Trichlorophenol	0.375	U	0.376	U	0.27		Ok - both ND
2,4,6-Trichlorophenol	0.19	U	0.19	U	0.00		Ok - both ND
2,4-Dichlorophenol	0.19	U	0.19	U	0.00		Ok - both ND
2,4-Dimethylphenol	0.375	U	0.376	U	0.27		Ok - both ND
2,4-Dinitrophenol	0.114	J	0.376	U	106.94		Ok - ND and < RL
2,4-Dinitrotoluene	0.19	U	0.19	U	0.00		Ok - both ND
2,6-Dinitrotoluene	0.19	U	0.19	U	0.00		Ok - both ND
2-Chloronaphthalene	0.375	U	0.376	U	0.27		Ok - both ND
2-Chlorophenol	0.19	U	0.19	U	0.00		Ok - both ND
2-Methylnaphthalene	0.0758	U	0.0759	U	0.13		Ok - both ND
2-Methylphenol	0.375	U	0.376	U	0.27		Ok - both ND
2-Nitroaniline	0.375	U	0.376	U	0.27		Ok - both ND
2-Nitrophenol	0.19	U	0.19	U	0.00		Ok - both ND
3 & 4 Methylphenol	0.375	U	0.376	U	0.27		Ok - both ND
3,3'-Dichlorobenzidine	0.375	U	0.376	U	0.27		Ok - both ND
3-Nitroaniline	0.375	U	0.376	U	0.27		Ok - both ND
4,6-Dinitro-2-methylphenol	0.375	U	0.376	U	0.27		Ok - both ND
4-Bromophenyl-phenylether	0.375	U	0.376	U	0.27		Ok - both ND
4-Chloro-3-methylphenol	0.375	U	0.376	U	0.27		Ok - both ND
4-Chloroaniline	0.19	U	0.19	U	0.00		Ok - both ND
4-Chlorophenyl-phenylether	0.375	U	0.376	U	0.27		Ok - both ND
4-Nitroaniline	0.19	U	0.19	U	0.00		Ok - both ND
4-Nitrophenol	0.375	U	0.376	U	0.27		Ok - both ND
Acenaphthene	0.0758	U	0.0759	U	0.13		Ok - both ND
Acenaphthylene	0.0758	U	0.0759	U	0.13		Ok - both ND
Acetophenone	0.19	U	0.19	U	0.00		Ok - both ND
Aniline	0.375	U	0.376	U	0.27		Ok - both ND
Anthracene	0.0758	U	0.0759	U	0.13		Ok - both ND
Azobenzene	0.375	U	0.376	U	0.27		Ok - both ND
Benzidine	0.75	U	0.751	U	0.13		Ok - both ND
Benzo(a)anthracene	0.0758	U	0.0759	U	0.13		Ok - both ND
Benzo(a)pyrene	0.0758	U	0.0759	U	0.13		Ok - both ND
Benzo(b)fluoranthene	0.0758	U	0.0759	U	0.13		Ok - both ND
Benzo(g,h,i)perylene	0.0758	U	0.0759	U	0.13		Ok - both ND
Benzo(k)fluoranthene	0.0758	U	0.0759	U	0.13		Ok - both ND
Benzoic Acid	0.375	U	0.376	U	0.27		Ok - both ND
Benzyl Alcohol	0.375	U	0.376	U	0.27		Ok - both ND
Bis(2-chloroethoxy)methane	0.375	U	0.376	U	0.27		Ok - both ND
Bis(2-chloroethyl)ether	0.19	U	0.19	U	0.00		Ok - both ND
Bis(2-chloroisopropyl)ether	0.19	U	0.19	U	0.00		Ok - both ND
Bis(2-ethylhexyl)phthalate	0.366		0.536		37.69	0.17	Ok - abs diff < 4x RL
Butylbenzylphthalate	0.375	U	0.0477	J	-154.86		Ok - ND and < RL

Field Duplicate Evaluation

SDG: 620100211 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Carbazole	0.19	U	0.19	U	0.00		Ok - both ND
Chrysene	0.0758	U	0.0759	U	0.13		Ok - both ND
Dibenz(a,h)anthracene	0.0758	U	0.0759	U	0.13		Ok - both ND
Dibenzofuran	0.19	U	0.19	U	0.00		Ok - both ND
Diethylphthalate	0.375	U	0.376	U	0.27		Ok - both ND
Dimethylphthalate	0.375	U	0.376	U	0.27		Ok - both ND
Di-N-Butylphthalate	0.375	U	0.376	U	0.27		Ok - both ND
Di-N-Octyl Phthalate	0.375	U	0.376	U	0.27		Ok - both ND
Fluoranthene	0.0758	U	0.0759	U	0.13		Ok - both ND
Fluorene	0.0758	U	0.0759	U	0.13		Ok - both ND
Hexachlorobenzene	0.19	U	0.19	U	0.00		Ok - both ND
Hexachlorobutadiene	0.19	U	0.19	U	0.00		Ok - both ND
Hexachlorocyclopentadiene	0.19	U	0.19	U	0.00		Ok - both ND
Hexachloroethane	0.19	U	0.19	U	0.00		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.0758	U	0.0759	U	0.13		Ok - both ND
Isophorone	0.19	U	0.19	U	0.00		Ok - both ND
Naphthalene	0.0758	U	0.0759	U	0.13		Ok - both ND
Naphthalene, 1-methyl-	0.0758	U	0.0759	U	0.13		Ok - both ND
Nitrobenzene	0.19	U	0.19	U	0.00		Ok - both ND
(NDMA)	0.19	U	0.19	U	0.00		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.19	U	0.19	U	0.00		Ok - both ND
N-Nitrosodiphenylamine	0.375	U	0.376	U	0.27		Ok - both ND
Pentachloronitrobenzene	0.375	U	0.376	U	0.27		Ok - both ND
Pentachlorophenol	0.375	U	0.376	U	0.27		Ok - both ND
Phenanthrene	0.0758	U	0.0759	U	0.13		Ok - both ND
Phenol	0.375	U	0.376	U	0.27		Ok - both ND
Pyrene	0.0758	U	0.0759	U	0.13		Ok - both ND
Pyridine	0.375	U	0.376	U	0.27		Ok - both ND

Field Duplicate Evaluation

SDG: 620100211 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-01-0406**		**2023-FD-01**				
	620-10021-9		**620-10021-13**				
Aroclor 1016	0.0224	U	0.023	U	2.64		Ok - both ND
Aroclor 1221	0.0224	U	0.023	U	2.64		Ok - both ND
Aroclor 1232	0.0224	U	0.023	U	2.64		Ok - both ND
Aroclor 1242	0.0224	U	0.023	U	2.64		Ok - both ND
Aroclor 1248	0.0224	U	0.023	U	2.64		Ok - both ND
Aroclor 1254	0.369		0.432		15.73		Ok - RPD < 50%
Aroclor 1260	0.0224	U	0.023	U	2.64		Ok - both ND
Aroclor 1262	0.0224	U	0.023	U	2.64		Ok - both ND
Aroclor 1268	0.0224	U	0.023	U	2.64		Ok - both ND

Field Duplicate Evaluation

SDG: 620100211 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-01-0406**		**2023-FD-01**				
	620-10021-9		**620-10021-13**				
Benzene	0.0501	U	0.0509	U	1.58		Ok - both ND
C5-C8 Aliphatics (adjusted)	0.25	U	0.254	U	1.59		Ok - both ND
C5-C8 Aliphatics (unadjusted)	0.25	U	0.254	U	1.59		Ok - both ND
C9-C10 Aromatics	0.25	U	0.254	U	1.59		Ok - both ND
C9-C12 Aliphatics (adjusted)	0.25	U	0.254	U	1.59		Ok - both ND
C9-C12 Aliphatics (unadjusted)	0.25	U	0.254	U	1.59		Ok - both ND
Ethylbenzene	0.0501	U	0.0509	U	1.58		Ok - both ND
m,p-Xylene	0.1	U	0.102	U	1.98		Ok - both ND
Methyl tert-butyl ether	0.0501	U	0.0509	U	1.58		Ok - both ND
Naphthalene	0.0501	U	0.0509	U	1.58		Ok - both ND
o-Xylene	0.0501	U	0.0509	U	1.58		Ok - both ND
Toluene	0.0501	U	0.0509	U	1.58		Ok - both ND

Field Duplicate Evaluation

SDG: 620100211 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-01-0406**		**2023-FD-01**				
	620-10021-9		**620-10021-13**				
Antimony	4.9	U	5.01	U	2.22		Ok - both ND
Arsenic	2.65	J	2.14	J	-21.29		Ok - both < RL
Barium	14		13.8		-1.44		Ok -RPD < 50%
Beryllium	0.412	J	0.368	J	-11.28		Ok - both < RL
Cadmium	0.49	U	0.501	U	2.22		Ok - both ND
Chromium	3.92		3.83		-2.32	-0.09	Ok - abs diff < 4x RL
Lead	3.79		4.04		6.39	0.25	Ok - abs diff < 4x RL
Mercury	0.0677	U	0.0692	U	2.19		Ok - both ND
Nickel	2.51		2.19		-13.62	-0.32	Ok - abs diff < 4x RL
Selenium	4.9	U	5.01	U	2.22		Ok - both ND
Silver	0.98	U	1	U	2.02		Ok - both ND
Thallium	2.94	U	3.01	U	2.35		Ok - both ND
Vanadium	5.86		5.52		-5.98		Ok - RPD < 50%
Zinc	12		10.8		-10.53		Ok - RPD < 50%

Field Duplicate Evaluation

SDG: 620100211 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-01-0406**		**2023-FD-01**				
	620-10021-9		**620-10021-13**				
10:2 FTS	2.26	U	2.26	U	0.00		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.679	U	0.677	U	-0.29		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.26	U	2.26	U	0.00		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.26	U	2.26	U	0.00		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.4	U	3.38	U	-0.59		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.26	U	2.26	U	0.00		Ok - both ND
6:2 Fluorotelomer sulfonate	2.26	U	2.26	U	0.00		Ok - both ND
8:2 Fluorotelomer sulfonate	3.4	U	3.38	U	-0.59		Ok - both ND
9Cl-PF3ONS	2.26	U	2.26	U	0.00		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.26	U	2.26	U	0.00		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.26	U	2.26	U	0.00		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	2.26	U	2.26	U	0.00		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.26	U	2.26	U	0.00		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.26	U	2.26	U	0.00		Ok - both ND
Perfluorobutanesulfonic acid (PFBS)	2.26	U	2.26	U	0.00		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.26	U	2.26	U	0.00		Ok - both ND
Perfluorodecane Sulfonate	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.26	U	2.26	U	0.00		Ok - both ND
Perfluorododecanoic Acid (PFDoA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluoroheptane sulfonate	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorohexadecanoic acid	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorohexanesulfonic acid (PFHxS)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorononanesulfonic acid	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorononanoic acid (PFNA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluoro-n-tridecanoic acid (PFTrDA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorooctadecanoic acid	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorooctanesulfonic acid (PFOS)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluorooctylsulfonamide	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluoropentanoic Acid	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluoropetanesulfonic acid (PFPeS)	0.679	U	0.677	U	-0.29		Ok - both ND
Perfluoroundecanoic Acid (PFUna)	0.679	U	0.677	U	-0.29		Ok - both ND

10021

Chain of Custody Record

eurofins | Environment Testing

620-10021 Chain of Custody

	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 1
	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 17

Bridget Fortier			
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): Standard		
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone: 978 359 9651	PO #: 500001.002		
Email: bfortier@nobis-group com	WO #:		
Project Name: American Tissue Mill	Project #:		
Site: Templeton, MA	SSOW#:		

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							P		F					
01	2023-SB-02-0002'	2/27/23	10 30	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023-SB-02-0204'		10:35		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023-SB-02-0406'		10:40		Solid			✓	✓	✓	✓	✓	✓	7	
04	2023-SB-02-0608'		10 45		Solid			✓	✓	✓	✓	✓	✓	7	
05	2023-SB-02-0810'		10.50		Solid			✓	✓	✓	✓	✓	✓	7	
06	2023-SB-02-1012'		10 55		Solid			✓	✓	✓	✓	✓	✓	7	
07	2023-SB-01-0002'		12:00		Solid			✓	✓	✓	✓	✓	✓	7	
08	2023-SB-01-0204'		12.05		Solid			✓	✓	✓	✓	✓	✓	7	
09	2023-SB-01-0406'		12:10		Solid			✓	✓	✓	✓	✓	✓	7	
10	2023-SB-01-0608'		12:15		Solid			✓	✓	✓	✓	✓	✓	7	
11	2023-SB-01-0810'	↓	12:20	↓	Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III IV, Other (specify) EQUIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/27/23 14:00	Company	Received by:	Date/Time: 2/27/23 4:40	Company
Relinquished by:	Date/Time: 2/27/23 16:50	Company	Received by:	Date/Time: 2/27/23 16:50	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.
Cooler Temperature(s) °C and Other Remarks:	3.4 +0.2 3.6 #6

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3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

(0021)

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.2
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 2 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978 399 9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
Preservation Code:							F, J		F					
2023-SB-01-1012'	2/27/23	12:25	G	Solid			✓	✓	✓	✓	✓	✓	7	
2023-FD-01		08:00		Solid			✓	✓	✓	✓	✓	✓	7	
2023-MW-01-0002'		13:30		Solid			✓	✓	✓	✓	✓	✓	7	
2023-MW-01-0204'		13:35		Solid			✓	✓	✓	✓	✓	✓	7	
TRIP BLANK	~~2/27~~			Solid			✓						2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/27/23 14:00			2/27/23 14:00	
2		2/27/23 16:50			2/27/23 16:50	ENE
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 IR#6

Ver 06/08/2021

3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8451.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/8/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-02-0002' (620-10021-1)	2/27/23	10:30 Eastern		Solid			X	X	2	
2023-SB-02-0204' (620-10021-2)	2/27/23	10:35 Eastern		Solid			X	X	2	
2023-SB-02-0406' (620-10021-3)	2/27/23	10:40 Eastern		Solid			X	X	2	
2023-SB-02-0608' (620-10021-4)	2/27/23	10:45 Eastern		Solid			X	X	2	
2023-SB-02-0810' (620-10021-5)	2/27/23	10:50 Eastern		Solid			X	X	2	
2023-SB-02-1012' (620-10021-6)	2/27/23	10:55 Eastern		Solid			X	X	2	
2023-SB-01-0002' (620-10021-7)	2/27/23	12:00 Eastern		Solid			X	X	2	
2023-SB-01-0204' (620-10021-8)	2/27/23	12:05 Eastern		Solid			X	X	2	
2023-SB-01-0406' (620-10021-9)	2/27/23	12:10 Eastern		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	[signature]	2/27/23 17:40	ET	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2/28/23 9:41	Company ECET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4

Ver: 06/08/2021

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8451.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/8/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-01-0608' (620-10021-10)	2/27/23	12:15 Eastern		Solid			X	X	2	
2023-SB-01-0810' (620-10021-11)	2/27/23	12:20 Eastern		Solid			X	X	2	
2023-SB-01-1012' (620-10021-12)	2/27/23	12:25 Eastern		Solid			X	X	2	
2023-FD-01 (620-10021-13)	2/27/23	08:00 Eastern		Solid			X	X	2	
2023-MW-01-0002' (620-10021-14)	2/27/23	13:30 Eastern		Solid			X	X	2	
2023-MW-01-0204' (620-10021-15)	2/27/23	13:35 Eastern		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 2/27/23 12:40	Company: EWET	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2/28/23 9:41	Company: EWET
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4		

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8453.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/8/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc Standard Targets and Carbon Ranges MAVPH	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-02-0002' (620-10021-1)	2/27/23	10:30 Eastern		Solid			X	X	1	
2023-SB-02-0204' (620-10021-2)	2/27/23	10:35 Eastern		Solid			X	X	1	
2023-SB-02-0406' (620-10021-3)	2/27/23	10:40 Eastern		Solid			X	X	1	
2023-SB-02-0608' (620-10021-4)	2/27/23	10:45 Eastern		Solid			X	X	1	
2023-SB-02-0810' (620-10021-5)	2/27/23	10:50 Eastern		Solid			X	X	1	
2023-SB-02-1012' (620-10021-6)	2/27/23	10:55 Eastern		Solid			X	X	1	
2023-SB-01-0002' (620-10021-7)	2/27/23	12:00 Eastern		Solid			X	X	1	
2023-SB-01-0204' (620-10021-8)	2/27/23	12:05 Eastern		Solid			X	X	1	
2023-SB-01-0406' (620-10021-9)	2/27/23	12:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		2/27/23 12:39	EUF	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					2-28-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 TCC

Ver: 06/08/2021

3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8453.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/8/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc Standard Targets and Carbon Ranges MAVPH	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-01-0608' (620-10021-10)	2/27/23	12:15 Eastern		Solid			X	X	1	
2023-SB-01-0810' (620-10021-11)	2/27/23	12:20 Eastern		Solid			X	X	1	
2023-SB-01-1012' (620-10021-12)	2/27/23	12:25 Eastern		Solid			X	X	1	
2023-FD-01 (620-10021-13)	2/27/23	08:00 Eastern		Solid			X	X	1	
2023-MW-01-0002' (620-10021-14)	2/27/23	13:30 Eastern		Solid			X	X	1	
2023-MW-01-0204' (620-10021-15)	2/27/23	13:35 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 2/27/23 17:39	Company Eur E	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 3/14/2023 4:09:21 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10021-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

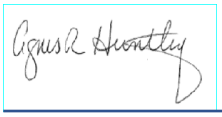
See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10021-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10021-1 through 620-10021-16

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/14/2023

Job ID: 620-10021-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10021-1

Receipt
The samples were received on 2/27/2023 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20152 exhibited % difference of > 20% for the following analyte: Vinyl chloride; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 620-20152 recovered outside control limits but were greater than 10% for the following analytes: Dichlorodifluoromethane and Chloromethane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The associated samples are: (LCS 620-20151/1-A) and (LCSD 620-20151/2-A).

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Dichlorodifluoromethane.
(CCVIS 620-20152/3)

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20238 and analytical batch 620-20239 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20217 and analytical batch 620-20317 recovered outside control limits for the following analyte(s): Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270D: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzidine. These analytes may have a %D >60%.

Method 8270D: The following sample(s) is a QA/QC reference sample and is not subject to holding time. (620-9817-A-51-A MDLS).

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20217 and analytical batch 620-20317 recovered outside control limits for the following analytes: Benzidine.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20349/4) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 2,4-Dinitrophenol, Benzidine, Bis(2-ethylhexyl) phthalate, Carbazole, Di-n-butyl phthalate, Di-n-octyl phthalate and Pentachloronitrobenzene.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 2023-MW-01-0002' (620-10021-14). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20349 recovered above the upper control limit for

Job ID: 620-10021-1 (Continued)

Laboratory: Eurofins New England (Continued)

Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate. The following samples had detections above the reporting limit for these analytes: 2023-SB-02-0002' (620-10021-1), 2023-SB-01-0002' (620-10021-7), 2023-FD-01 (620-10021-13) and 2023-MW-01-0002' (620-10021-14). The results are considered bias high.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20386/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, Benzidine, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachlorobutadiene and Pentachloronitrobenzene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-660132 and analytical batch 480-660138 contained Naphthalene and C9-C10 Aromatics above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

Method 537 (modified): The LCS labeled isotope(s): d5-NEtPFOSA recovery associated with samples: 2023-SB-02-0002' (620-10021-1), 2023-SB-02-0204' (620-10021-2), 2023-SB-02-0406' (620-10021-3), 2023-SB-02-0608' (620-10021-4), 2023-SB-02-0810' (620-10021-5), 2023-SB-02-1012' (620-10021-6), 2023-SB-01-0002' (620-10021-7), 2023-SB-01-0406' (620-10021-9), 2023-SB-01-0608' (620-10021-10), 2023-SB-01-0810' (620-10021-11), 2023-SB-01-1012' (620-10021-12), 2023-FD-01 (620-10021-13), 2023-MW-01-0002' (620-10021-14) and 2023-MW-01-0204' (620-10021-15) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

Method 537 (modified): Isotope dilution analyte (IDA) recoveries for d3-NMeFOSAA and d5-NEtFOSAA were outside QC acceptance criteria in sample 2023-SB-01-0204' (620-10021-8). The isotope dilution technique corrects the results for the target analytes for any losses that occur during the sample extraction and/or concentration. For all IDAs, the signal to noise was greater than 10:1, therefore the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0002' — Lab Sample ID: 620-10021-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0468	J	0.0746	0.0419	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0570	J	0.0746	0.0533	mg/Kg	1	☼	8270D	Total/NA
Benzoic acid	0.773		0.369	0.254	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	8.05		0.933	0.238	mg/Kg	5	☼	8270D	Total/NA
Butyl benzyl phthalate	0.0462	J	0.369	0.0370	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0712	J	0.0746	0.0421	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	1.06		0.369	0.0395	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.117		0.0746	0.0437	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0680	J	0.0746	0.0423	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.163		0.0746	0.0411	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0387	J B	0.0449	0.0306	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.472		0.0227	0.0177	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.80	J	2.92	1.36	mg/Kg	1	☼	6010D	Total/NA
Barium	23.9		0.487	0.146	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.416	J	0.487	0.0974	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.90	B	1.46	0.341	mg/Kg	1	☼	6010D	Total/NA
Lead	19.2		1.46	0.584	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.25		0.974	0.253	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.37		0.974	0.419	mg/Kg	1	☼	6010D	Total/NA
Zinc	33.9		1.95	0.779	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0326	J	0.0672	0.0224	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-02-0204' — Lab Sample ID: 620-10021-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.00945	J B	0.0412	0.00924	mg/Kg	1	☼	8260C	Total/NA
Arsenic	2.29	J	3.23	1.51	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.539	0.162	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.441	J	0.539	0.108	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.59	B	1.62	0.377	mg/Kg	1	☼	6010D	Total/NA
Lead	3.02		1.62	0.647	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.07		1.08	0.280	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.17		1.08	0.464	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.4		2.16	0.862	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-0406' — Lab Sample ID: 620-10021-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0970		0.0240	0.0187	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.05	J	2.67	1.25	mg/Kg	1	☼	6010D	Total/NA
Barium	12.1		0.445	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.371	J	0.445	0.0891	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.72	B	1.34	0.312	mg/Kg	1	☼	6010D	Total/NA
Lead	4.40		1.34	0.534	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.891	0.232	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.60		0.891	0.383	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.36		1.78	0.712	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-0608' — Lab Sample ID: 620-10021-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.43	J	2.44	1.14	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-02-0608' (Continued)

Lab Sample ID: 620-10021-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	19.0		0.406	0.122	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.413		0.406	0.0813	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.69	B	1.22	0.284	mg/Kg	1	☼	6010D	Total/NA
Lead	2.55		1.22	0.488	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.03		0.813	0.211	mg/Kg	1	☼	6010D	Total/NA
Vanadium	12.1		0.813	0.349	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.6		1.63	0.650	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-0810'

Lab Sample ID: 620-10021-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.17		2.77	1.29	mg/Kg	1	☼	6010D	Total/NA
Barium	65.8	F2 F1	0.462	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.21	B	0.462	0.0923	mg/Kg	1	☼	6010D	Total/NA
Chromium	15.8	F1	1.38	0.323	mg/Kg	1	☼	6010D	Total/NA
Lead	6.33	F2 F1	1.38	0.554	mg/Kg	1	☼	6010D	Total/NA
Nickel	9.74		0.923	0.240	mg/Kg	1	☼	6010D	Total/NA
Vanadium	27.7	F1	0.923	0.397	mg/Kg	1	☼	6010D	Total/NA
Zinc	37.9	F1	1.85	0.739	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-1012'

Lab Sample ID: 620-10021-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.59	J	2.97	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	13.1		0.495	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.317	J	0.495	0.0990	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.49	B	1.49	0.347	mg/Kg	1	☼	6010D	Total/NA
Lead	2.03		1.49	0.594	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.03		0.990	0.257	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.12		0.990	0.426	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.79		1.98	0.792	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-01-0002'

Lab Sample ID: 620-10021-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.73		0.175	0.0445	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.142	J	0.345	0.0346	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0518	J	0.0698	0.0395	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.120	J	0.345	0.0369	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.112		0.0698	0.0409	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0810		0.0698	0.0396	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.120		0.0698	0.0385	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	1.41		0.100	0.0781	mg/Kg	5	☼	8082	Total/NA
Arsenic	2.97	J	3.06	1.43	mg/Kg	1	☼	6010D	Total/NA
Barium	19.1		0.510	0.153	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.457	J	0.510	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.52	B	1.53	0.357	mg/Kg	1	☼	6010D	Total/NA
Lead	6.92		1.53	0.612	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.99		1.02	0.265	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.46		1.02	0.439	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.3		2.04	0.817	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0227	J	0.0588	0.0196	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0204'

Lab Sample ID: 620-10021-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	1.29		0.354	0.0931	mg/Kg	1	☼	8270D	Total/NA
Aniline	0.0374	J	0.354	0.0271	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0452	J	0.0716	0.0402	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0531	J	0.0716	0.0512	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	1.26		0.179	0.0456	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.125	J	0.354	0.0355	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0663	J	0.0716	0.0404	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.120	J	0.354	0.0379	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.110		0.0716	0.0420	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.118		0.0716	0.0406	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.162		0.0716	0.0395	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0719	J B	0.0723	0.0492	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	1.21		0.102	0.0791	mg/Kg	5	☼	8082	Total/NA
Arsenic	3.95		3.18	1.48	mg/Kg	1	☼	6010D	Total/NA
Barium	26.1		0.529	0.159	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.603		0.529	0.106	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.55	B	1.59	0.371	mg/Kg	1	☼	6010D	Total/NA
Lead	7.11		1.59	0.635	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.65		1.06	0.275	mg/Kg	1	☼	6010D	Total/NA
Vanadium	13.1		1.06	0.455	mg/Kg	1	☼	6010D	Total/NA
Zinc	24.3		2.12	0.847	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0246	J	0.0604	0.0201	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-01-0406'

Lab Sample ID: 620-10021-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0137	J B	0.0529	0.0118	mg/Kg	1	☼	8260C	Total/NA
2,4-Dinitrophenol	0.114	J	0.375	0.0986	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.366		0.190	0.0483	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.369		0.0224	0.0174	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.65	J	2.94	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	14.0		0.490	0.147	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.412	J	0.490	0.0980	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.92	B	1.47	0.343	mg/Kg	1	☼	6010D	Total/NA
Lead	3.79		1.47	0.588	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.51		0.980	0.255	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.86		0.980	0.421	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.0		1.96	0.784	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-01-0608'

Lab Sample ID: 620-10021-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.17	J	3.02	1.41	mg/Kg	1	☼	6010D	Total/NA
Barium	17.9		0.504	0.151	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.414	J	0.504	0.101	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.28	B	1.51	0.352	mg/Kg	1	☼	6010D	Total/NA
Lead	2.42		1.51	0.604	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.09		1.01	0.262	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.35		1.01	0.433	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.7		2.01	0.806	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0810'

Lab Sample ID: 620-10021-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.21	J	2.44	1.14	mg/Kg	1	☼	6010D	Total/NA
Barium	13.8		0.407	0.122	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.288	J	0.407	0.0813	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.83	B	1.22	0.285	mg/Kg	1	☼	6010D	Total/NA
Lead	1.91		1.22	0.488	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.67		0.813	0.211	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.34		0.813	0.350	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.57		1.63	0.651	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-01-1012'

Lab Sample ID: 620-10021-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.30	J	2.60	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	15.1		0.433	0.130	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.317	J	0.433	0.0865	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.82	B	1.30	0.303	mg/Kg	1	☼	6010D	Total/NA
Lead	2.04		1.30	0.519	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.50		0.865	0.225	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.78		0.865	0.372	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.93		1.73	0.692	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-01

Lab Sample ID: 620-10021-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.536		0.190	0.0484	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.0477	J	0.376	0.0377	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.432		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.14	J	3.01	1.40	mg/Kg	1	☼	6010D	Total/NA
Barium	13.8		0.501	0.150	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.368	J	0.501	0.100	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.83	B	1.50	0.351	mg/Kg	1	☼	6010D	Total/NA
Lead	4.04		1.50	0.602	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.19		1.00	0.261	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.52		1.00	0.431	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.8		2.01	0.802	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-0002'

Lab Sample ID: 620-10021-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	1.34		0.355	0.233	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.656		0.355	0.205	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.21		0.355	0.200	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2.09		0.355	0.254	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.05		0.355	0.294	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.77		0.355	0.277	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.12		0.355	0.276	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.51		0.355	0.201	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.525		0.355	0.271	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.770	J	1.76	0.188	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.00		0.355	0.208	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.08		0.355	0.301	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.620		0.355	0.201	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-01-0002' (Continued) — Lab Sample ID: 620-10021-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	2.50		0.355	0.196	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.967		0.0423	0.0329	mg/Kg	2	☼	8082	Total/NA
Arsenic	4.30		2.70	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	65.2		0.449	0.135	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.627		0.449	0.0898	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.152	J	0.449	0.0898	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.79	B	1.35	0.314	mg/Kg	1	☼	6010D	Total/NA
Lead	29.1		1.35	0.539	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.81		0.898	0.234	mg/Kg	1	☼	6010D	Total/NA
Vanadium	11.6		0.898	0.386	mg/Kg	1	☼	6010D	Total/NA
Zinc	54.8		1.80	0.719	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0732		0.0597	0.0199	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-01-0204' — Lab Sample ID: 620-10021-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00905	J	0.0106	0.00284	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.0383		0.0237	0.0185	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.74		3.53	1.65	mg/Kg	1	☼	6010D	Total/NA
Barium	29.4		0.588	0.176	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.872		0.588	0.118	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.75	B	1.76	0.412	mg/Kg	1	☼	6010D	Total/NA
Lead	12.0	F1	1.76	0.705	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.70		1.18	0.306	mg/Kg	1	☼	6010D	Total/NA
Vanadium	15.9		1.18	0.506	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.1		2.35	0.941	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0405	J	0.0701	0.0234	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 620-10021-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0360	J B	0.0500	0.0112	mg/Kg	1		8260C	Total/NA
Methylene Chloride	0.0107		0.0100	0.00268	mg/Kg	1		8260C	Total/NA
Toluene	0.00615		0.00500	0.00317	mg/Kg	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00469	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Acetone	ND		0.0469	0.0105	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Acrylonitrile	ND		0.00469	0.00281	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Benzene	ND		0.00469	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromobenzene	ND		0.00469	0.00312	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromochloromethane	ND		0.00469	0.00266	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromodichloromethane	ND		0.00469	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromoform	ND		0.00469	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromomethane	ND		0.00937	0.00584	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2-Butanone (MEK)	ND		0.00937	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
n-Butylbenzene	ND		0.00937	0.00502	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
sec-Butylbenzene	ND		0.00469	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
tert-Butylbenzene	ND		0.00469	0.00369	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Carbon disulfide	ND		0.00937	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Carbon tetrachloride	ND		0.00469	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chlorobenzene	ND		0.00469	0.00343	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chloroethane	ND		0.00937	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chloroform	ND		0.00469	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chloromethane	ND	*-	0.00937	0.00360	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2-Chlorotoluene	ND		0.00469	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
4-Chlorotoluene	ND		0.00469	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dibromo-3-Chloropropane	ND		0.00937	0.00397	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Dibromochloromethane	ND		0.00469	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dibromoethane (EDB)	ND		0.00469	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Dibromomethane	ND		0.00469	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dichlorobenzene	ND		0.00469	0.00435	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3-Dichlorobenzene	ND		0.00469	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,4-Dichlorobenzene	ND		0.00469	0.00444	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00937	0.00251	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1-Dichloroethane	ND		0.00469	0.00318	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dichloroethane	ND		0.00469	0.00316	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1-Dichloroethene	ND		0.00469	0.00287	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
cis-1,2-Dichloroethene	ND		0.00469	0.00271	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
trans-1,2-Dichloroethene	ND		0.00469	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dichloropropane	ND		0.00469	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3-Dichloropropane	ND		0.00469	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2,2-Dichloropropane	ND		0.00469	0.00323	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1-Dichloropropene	ND		0.00469	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
cis-1,3-Dichloropropene	ND		0.00469	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
trans-1,3-Dichloropropene	ND		0.00469	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethylbenzene	ND		0.00469	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Hexachlorobutadiene	ND		0.00937	0.00471	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2-Hexanone (MBK)	ND		0.00937	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Isopropylbenzene	ND		0.00469	0.00354	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
4-Isopropyltoluene	ND		0.00469	0.00460	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Methyl tert-butyl ether	ND		0.00469	0.00270	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.00937	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Methylene Chloride	ND		0.00937	0.00251	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Naphthalene	ND		0.00469	0.00424	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00469	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Styrene	ND		0.00469	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,1,2-Tetrachloroethane	ND		0.00469	0.00351	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.00469	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Tetrachloroethene	ND		0.00469	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Toluene	ND		0.00469	0.00297	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,3-Trichlorobenzene	ND		0.00469	0.00395	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,4-Trichlorobenzene	ND		0.00469	0.00432	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3,5-Trichlorobenzene	ND		0.00469	0.00445	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,1-Trichloroethane	ND		0.00469	0.00320	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,2-Trichloroethane	ND		0.00469	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Trichloroethene	ND		0.00469	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00469	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,3-Trichloropropane	ND		0.00469	0.00416	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,4-Trimethylbenzene	ND		0.00469	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3,5-Trimethylbenzene	ND		0.00469	0.00398	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Vinyl chloride	ND		0.00469	0.00286	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
m,p-Xylene	ND		0.00469	0.00640	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
o-Xylene	ND		0.00469	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Tetrahydrofuran	ND		0.00937	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethyl ether	ND		0.00469	0.00246	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Tert-amyl methyl ether	ND		0.00469	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethyl tert-butyl ether	ND		0.00469	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
di-Isopropyl ether	ND		0.00469	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
tert-Butanol	ND		0.0937	0.0251	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,4-Dioxane	ND		0.0937	0.0291	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
trans-1,4-Dichloro-2-butene	ND		0.0234	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethanol	ND		0.937	0.0581	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3-Dichloropropene, Total	ND		0.00469	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Xylenes, Total	ND		0.0141	0.00469	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.369	0.0656	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,2,4-Trichlorobenzene	ND		0.369	0.0845	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,2-Dichlorobenzene	ND		0.369	0.0711	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,3-Dichlorobenzene	ND		0.369	0.0893	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,4-Dichlorobenzene	ND		0.369	0.0869	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1-Methylnaphthalene	ND		0.0746	0.0626	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4,5-Trichlorophenol	ND		0.369	0.0423	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4,6-Trichlorophenol	ND		0.187	0.0456	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4-Dichlorophenol	ND		0.187	0.0743	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4-Dimethylphenol	ND		0.369	0.0541	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4-Dinitrophenol	ND		0.369	0.0970	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0437	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,6-Dinitrotoluene	ND		0.187	0.0437	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Chloronaphthalene	ND		0.369	0.0853	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Chlorophenol	ND		0.187	0.0763	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Methylnaphthalene	ND		0.0746	0.0551	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Methylphenol	ND		0.369	0.0539	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Nitroaniline	ND		0.369	0.0351	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Nitrophenol	ND		0.187	0.0663	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
3 & 4 Methylphenol	ND		0.369	0.0699	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
3,3'-Dichlorobenzidine	ND		0.369	0.0609	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
3-Nitroaniline	ND		0.369	0.0330	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4,6-Dinitro-2-methylphenol	ND		0.369	0.0663	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Bromophenyl phenyl ether	ND		0.369	0.0417	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Chloro-3-methylphenol	ND		0.369	0.0722	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Chloroaniline	ND		0.187	0.0283	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Chlorophenyl phenyl ether	ND		0.369	0.0395	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Nitroaniline	ND		0.187	0.0589	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Nitrophenol	ND		0.369	0.129	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Acenaphthene	ND		0.0746	0.0595	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Acenaphthylene	ND		0.0746	0.0490	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Acetophenone	ND		0.187	0.0455	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Aniline	ND		0.369	0.0283	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Anthracene	ND		0.0746	0.0431	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Azobenzene/Diphenyldiazene	ND		0.369	0.0629	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzidine	ND	*- *1	0.738	0.109	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[a]anthracene	**0.0468**	**J**	0.0746	0.0419	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[a]pyrene	**0.0570**	**J**	0.0746	0.0533	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[b]fluoranthene	ND		0.0746	0.0618	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[g,h,i]perylene	ND		0.0746	0.0582	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[k]fluoranthene	ND		0.0746	0.0580	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzoic acid	**0.773**		0.369	0.254	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzyl alcohol	ND		0.369	0.0668	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Bis(2-chloroethoxy)methane	ND		0.369	0.0642	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Bis(2-chloroethyl)ether	ND		0.187	0.0610	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0831	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Bis(2-ethylhexyl) phthalate	**8.05**		0.933	0.238	mg/Kg	☼	03/02/23 10:19	03/09/23 14:20	5
Butyl benzyl phthalate	**0.0462**	**J**	0.369	0.0370	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Carbazole	ND		0.187	0.0488	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Chrysene	**0.0712**	**J**	0.0746	0.0421	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Dibenz(a,h)anthracene	ND		0.0746	0.0569	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Dibenzofuran	ND		0.187	0.0646	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Diethyl phthalate	ND		0.369	0.0405	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Dimethyl phthalate	ND		0.369	0.0481	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Di-n-butyl phthalate	**1.06**		0.369	0.0395	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Di-n-octyl phthalate	ND		0.369	0.0609	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Fluoranthene	**0.117**		0.0746	0.0437	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Fluorene	ND		0.0746	0.0681	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Hexachlorobenzene	ND		0.187	0.0518	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Hexachlorobutadiene	ND		0.187	0.0931	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0713	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Hexachloroethane	ND		0.187	0.0733	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Indeno[1,2,3-cd]pyrene	ND		0.0746	0.0633	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Isophorone	ND		0.187	0.0511	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Naphthalene	ND		0.0746	0.0715	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Nitrobenzene	ND		0.187	0.0862	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
N-Nitrosodimethylamine	ND		0.187	0.0490	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0743	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
N-Nitrosodiphenylamine	ND		0.369	0.0471	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pentachloronitrobenzene	ND		0.369	0.0582	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pentachlorophenol	ND		0.369	0.151	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Phenanthrene	**0.0680**	**J**	0.0746	0.0423	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Phenol	ND		0.369	0.0760	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pyrene	**0.163**		0.0746	0.0411	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pyridine	ND		0.369	0.0873	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
2,4,6-Tribromophenol (Surr)	*102*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 110*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
Terphenyl-d14	*84*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/02/23 10:19*	*03/09/23 14:20*	*5*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.225	0.115	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.225	0.0962	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Ethylbenzene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Methyl tert-butyl ether	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
m,p-Xylene	ND		0.0899	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Naphthalene	**0.0387**	**J B**	0.0449	0.0306	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
o-Xylene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Toluene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
C5-C8 Aliphatics (unadjusted)	ND		0.225	0.115	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
C9-C10 Aromatics	ND		0.225	0.0315	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
C9-C12 Aliphatics (unadjusted)	ND		0.225	0.0962	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*102*		*70 - 130*	*03/01/23 07:14*	*03/01/23 10:32*	*1*

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*70 - 130*	*03/01/23 07:14*	*03/01/23 10:32*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0227	0.0164	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1221	ND		0.0227	0.00671	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1232	ND		0.0227	0.00629	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1242	ND		0.0227	0.00359	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1248	ND		0.0227	0.00710	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1254	**0.472**		0.0227	0.0177	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1262	ND		0.0227	0.00529	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1260	ND		0.0227	0.00488	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1268	ND		0.0227	0.00484	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*
Tetrachloro-m-xylene	*77*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoroheptanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorononanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorodecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorotridecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorotetradecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorobutanesulfonic acid	ND		2.19	0.438	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorohexanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NEtFOSAA	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NMeFOSAA	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
10:2 FTS	ND		2.19	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoropentanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoroheptanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorononanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorodecanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctanesulfonamide	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorohexadecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctadecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorobutanoic acid	ND		2.19	0.876	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoropentanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NMeFOSE	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NMeFOSA	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NEtFOSE	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NEtFOSA	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.19	1.10	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
DONA	ND		3.29	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
9Cl-PF3ONS	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
11Cl-PF3OUdS	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorododecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
4:2 Fluorotelomer sulfonic acid	ND		2.19	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoroundecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
6:2 Fluorotelomer sulfonic acid	ND		2.19	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
8:2 Fluorotelomer sulfonic acid	ND		3.29	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*120*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
M2-8:2 FTS	*134*		*15 - 200*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
M2-6:2 FTS	*128*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C5 PFHxA	*101*		*10 - 174*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C8 PFOA	*104*		*26 - 159*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C6 PFDA	*110*		*26 - 161*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C2-PFDoDA	*126*		*11 - 166*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C3 PFHxS	*130*		*24 - 171*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C8 PFOS	*130*		*41 - 154*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d3-NMeFOSAA	*40*		*10 - 178*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d5-NEtFOSAA	*62*		*10 - 193*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C8 FOSA	*85*		*14 - 163*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C4 PFBA	*87*		*28 - 153*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d7-N-MeFOSE-M	*86*		*10 - 179*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d9-N-EtFOSE-M	*89*		*10 - 185*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d5-NEtPFOSA	*82*		*10 - 180*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C3 HFPO-DA	*90*		*10 - 169*	*03/01/23 10:57*	*03/11/23 01:55*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.87	1.66	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Arsenic	**2.80**	**J**	2.92	1.36	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Barium	**23.9**		0.487	0.146	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Beryllium	**0.416**	**J**	0.487	0.0974	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Cadmium	ND		0.487	0.0974	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Chromium	**5.90**	**B**	1.46	0.341	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Lead	**19.2**		1.46	0.584	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Nickel	**3.25**		0.974	0.253	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Selenium	ND		4.87	1.46	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Silver	ND	^3+	0.974	0.389	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Thallium	ND		2.92	1.27	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Vanadium	**9.37**		0.974	0.419	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0002'
Date Collected: 02/27/23 10:30
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-1
Matrix: Solid
Percent Solids: 87.8

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	33.9		1.95	0.779	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0326	J	0.0672	0.0224	mg/Kg	☼	03/02/23 08:13	03/02/23 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	87.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0204'
Date Collected: 02/27/23 10:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-2
Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00412	0.00269	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Acetone	**0.00945**	**J B**	0.0412	0.00924	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Acrylonitrile	ND		0.00412	0.00247	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Benzene	ND		0.00412	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromobenzene	ND		0.00412	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromochloromethane	ND		0.00412	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromodichloromethane	ND		0.00412	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromoform	ND		0.00412	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromomethane	ND		0.00825	0.00514	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2-Butanone (MEK)	ND		0.00825	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
n-Butylbenzene	ND		0.00825	0.00442	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
sec-Butylbenzene	ND		0.00412	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
tert-Butylbenzene	ND		0.00412	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Carbon disulfide	ND		0.00825	0.00289	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Carbon tetrachloride	ND		0.00412	0.00260	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chlorobenzene	ND		0.00412	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chloroethane	ND		0.00825	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chloroform	ND		0.00412	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chloromethane	ND	*-	0.00825	0.00317	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2-Chlorotoluene	ND		0.00412	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
4-Chlorotoluene	ND		0.00412	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dibromo-3-Chloropropane	ND		0.00825	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Dibromochloromethane	ND		0.00412	0.00273	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dibromoethane (EDB)	ND		0.00412	0.00296	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Dibromomethane	ND		0.00412	0.00242	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dichlorobenzene	ND		0.00412	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3-Dichlorobenzene	ND		0.00412	0.00331	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,4-Dichlorobenzene	ND		0.00412	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00825	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1-Dichloroethane	ND		0.00412	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dichloroethane	ND		0.00412	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1-Dichloroethene	ND		0.00412	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
cis-1,2-Dichloroethene	ND		0.00412	0.00238	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
trans-1,2-Dichloroethene	ND		0.00412	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dichloropropane	ND		0.00412	0.00273	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3-Dichloropropane	ND		0.00412	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2,2-Dichloropropane	ND		0.00412	0.00285	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1-Dichloropropene	ND		0.00412	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
cis-1,3-Dichloropropene	ND		0.00412	0.00269	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
trans-1,3-Dichloropropene	ND		0.00412	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethylbenzene	ND		0.00412	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Hexachlorobutadiene	ND		0.00825	0.00415	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2-Hexanone (MBK)	ND		0.00825	0.00242	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Isopropylbenzene	ND		0.00412	0.00312	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
4-Isopropyltoluene	ND		0.00412	0.00405	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Methyl tert-butyl ether	ND		0.00412	0.00238	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.00825	0.00266	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Methylene Chloride	ND		0.00825	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Naphthalene	ND		0.00412	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1

Client Sample ID: 2023-SB-02-0204' **Lab Sample ID: 620-10021-2**
Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00412	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Styrene	ND		0.00412	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,1,2-Tetrachloroethane	ND		0.00412	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,2,2-Tetrachloroethane	ND		0.00412	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Tetrachloroethene	ND		0.00412	0.00229	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Toluene	ND		0.00412	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,3-Trichlorobenzene	ND		0.00412	0.00348	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,4-Trichlorobenzene	ND		0.00412	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3,5-Trichlorobenzene	ND		0.00412	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,1-Trichloroethane	ND		0.00412	0.00281	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,2-Trichloroethane	ND		0.00412	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Trichloroethene	ND		0.00412	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00412	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,3-Trichloropropane	ND		0.00412	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,4-Trimethylbenzene	ND		0.00412	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3,5-Trimethylbenzene	ND		0.00412	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Vinyl chloride	ND		0.00412	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
m,p-Xylene	ND		0.00412	0.00563	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
o-Xylene	ND		0.00412	0.00301	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Tetrahydrofuran	ND		0.00825	0.00209	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethyl ether	ND		0.00412	0.00217	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Tert-amyl methyl ether	ND		0.00412	0.00326	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethyl tert-butyl ether	ND		0.00412	0.00271	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
di-Isopropyl ether	ND		0.00412	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
tert-Butanol	ND		0.0825	0.0221	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,4-Dioxane	ND		0.0825	0.0256	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
trans-1,4-Dichloro-2-butene	ND		0.0206	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethanol	ND		0.825	0.0511	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3-Dichloropropene, Total	ND		0.00412	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Xylenes, Total	ND		0.0124	0.00412	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.373	0.0663	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,2,4-Trichlorobenzene	ND		0.373	0.0854	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,2-Dichlorobenzene	ND		0.373	0.0718	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,3-Dichlorobenzene	ND		0.373	0.0902	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,4-Dichlorobenzene	ND		0.373	0.0877	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1-Methylnaphthalene	ND		0.0753	0.0632	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4,5-Trichlorophenol	ND		0.373	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4,6-Trichlorophenol	ND		0.189	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4-Dichlorophenol	ND		0.189	0.0751	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4-Dimethylphenol	ND		0.373	0.0546	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4-Dinitrophenol	ND		0.373	0.0980	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0204'
Date Collected: 02/27/23 10:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-2
Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.189	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,6-Dinitrotoluene	ND		0.189	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Chloronaphthalene	ND		0.373	0.0862	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Chlorophenol	ND		0.189	0.0771	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Methylnaphthalene	ND		0.0753	0.0557	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Methylphenol	ND		0.373	0.0544	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Nitroaniline	ND		0.373	0.0355	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Nitrophenol	ND		0.189	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
3 & 4 Methylphenol	ND		0.373	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
3,3'-Dichlorobenzidine	ND		0.373	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
3-Nitroaniline	ND		0.373	0.0333	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4,6-Dinitro-2-methylphenol	ND		0.373	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Bromophenyl phenyl ether	ND		0.373	0.0421	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Chloro-3-methylphenol	ND		0.373	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Chloroaniline	ND		0.189	0.0286	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Chlorophenyl phenyl ether	ND		0.373	0.0399	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Nitroaniline	ND		0.189	0.0595	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Nitrophenol	ND		0.373	0.130	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Acenaphthene	ND		0.0753	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Acenaphthylene	ND		0.0753	0.0495	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Acetophenone	ND		0.189	0.0460	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Aniline	ND		0.373	0.0286	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Anthracene	ND		0.0753	0.0436	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Azobenzene/Diphenyldiazene	ND		0.373	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzidine	ND	*- *1	0.745	0.110	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[a]anthracene	ND		0.0753	0.0423	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[a]pyrene	ND		0.0753	0.0539	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[b]fluoranthene	ND		0.0753	0.0624	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[g,h,i]perylene	ND		0.0753	0.0588	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[k]fluoranthene	ND		0.0753	0.0586	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzoic acid	ND		0.373	0.256	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzyl alcohol	ND		0.373	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Bis(2-chloroethoxy)methane	ND		0.373	0.0648	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Bis(2-chloroethyl)ether	ND		0.189	0.0616	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
bis (2-chloroisopropyl) ether	ND		0.189	0.0839	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Bis(2-ethylhexyl) phthalate	ND		0.189	0.0480	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Butyl benzyl phthalate	ND		0.373	0.0374	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Carbazole	ND		0.189	0.0493	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Chrysene	ND		0.0753	0.0426	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Dibenz(a,h)anthracene	ND		0.0753	0.0575	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Dibenzofuran	ND		0.189	0.0653	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Diethyl phthalate	ND		0.373	0.0409	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Dimethyl phthalate	ND		0.373	0.0486	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Di-n-butyl phthalate	ND		0.373	0.0399	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Di-n-octyl phthalate	ND		0.373	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Fluoranthene	ND		0.0753	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Fluorene	ND		0.0753	0.0688	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Hexachlorobenzene	ND		0.189	0.0523	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Hexachlorobutadiene	ND		0.189	0.0941	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1

Client Sample ID: 2023-SB-02-0204' **Lab Sample ID: 620-10021-2**
Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.189	0.0720	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Hexachloroethane	ND		0.189	0.0741	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0753	0.0639	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Isophorone	ND		0.189	0.0516	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Naphthalene	ND		0.0753	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Nitrobenzene	ND		0.189	0.0871	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
N-Nitrosodimethylamine	ND		0.189	0.0495	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
N-Nitrosodi-n-propylamine	ND		0.189	0.0751	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
N-Nitrosodiphenylamine	ND		0.373	0.0475	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pentachloronitrobenzene	ND		0.373	0.0588	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pentachlorophenol	ND		0.373	0.152	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Phenanthrene	ND		0.0753	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Phenol	ND		0.373	0.0768	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pyrene	ND		0.0753	0.0416	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pyridine	ND		0.373	0.0882	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
2-Fluorophenol (Surr)	*80*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
Terphenyl-d14	*84*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.234	0.120	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.234	0.100	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Ethylbenzene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Methyl tert-butyl ether	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
m,p-Xylene	ND		0.0935	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Naphthalene	ND		0.0467	0.0318	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
o-Xylene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Toluene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
C5-C8 Aliphatics (unadjusted)	ND		0.234	0.120	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
C9-C10 Aromatics	ND		0.234	0.0327	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
C9-C12 Aliphatics (unadjusted)	ND		0.234	0.100	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:11*	*1*
a,a,a-Trifluorotoluene (fid)	*105*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:11*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1221	ND		0.0232	0.00685	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1232	ND		0.0232	0.00642	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1

Client Sample ID: 2023-SB-02-0204'
Lab Sample ID: 620-10021-2
Date Collected: 02/27/23 10:35
Matrix: Solid
Date Received: 02/27/23 16:50
Percent Solids: 85.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0232	0.00366	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1248	ND		0.0232	0.00724	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1254	ND		0.0232	0.0180	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1262	ND		0.0232	0.00540	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1260	ND		0.0232	0.00498	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1268	ND		0.0232	0.00494	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoroheptanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorononanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorodecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorotridecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorotetradecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorobutanesulfonic acid	ND		2.28	0.457	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorohexanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
10:2 FTS	ND		2.28	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoropentanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoroheptanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorononanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorodecanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctanesulfonamide	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorohexadecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctadecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorobutanoic acid	ND		2.28	0.913	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoropentanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NMeFOSE	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NMeFOSA	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NEtFOSE	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NEtFOSA	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
11Cl-PF3OUdS	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorododecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoroundecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1

Client Sample ID: 2023-SB-02-0204' **Lab Sample ID: 620-10021-2**
Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*68*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
M2-8:2 FTS	*79*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
M2-6:2 FTS	*66*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C4 PFHpA	*82*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C8 PFOA	*81*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C9 PFNA	*81*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C6 PFDA	*75*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C2-PFDoDA	*77*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C2 PFTeDA	*76*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C3 PFBS	*94*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C3 PFHxS	*101*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C8 PFOS	*95*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d3-NMeFOSAA	*13*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d5-NEtFOSAA	*17*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C8 FOSA	*100*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C4 PFBA	*72*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C5 PFPeA	*73*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d7-N-MeFOSE-M	*100*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d3-NMePFOSA	*52*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d5-NEtPFOSA	*57*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C3 HFPO-DA	*78*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:06*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.39	1.83	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Arsenic	**2.29**	**J**	3.23	1.51	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Barium	**13.0**		0.539	0.162	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Beryllium	**0.441**	**J**	0.539	0.108	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Cadmium	ND		0.539	0.108	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Chromium	**5.59**	**B**	1.62	0.377	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Lead	**3.02**		1.62	0.647	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Nickel	**3.07**		1.08	0.280	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Selenium	ND		5.39	1.62	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Silver	ND	^3+	1.08	0.431	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Thallium	ND		3.23	1.40	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Vanadium	**8.17**		1.08	0.464	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Zinc	**10.4**		2.16	0.862	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0655	0.0218	mg/Kg	☼	03/02/23 08:13	03/02/23 14:17	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0204'
Date Collected: 02/27/23 10:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-2
Matrix: Solid
Percent Solids: 85.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.1		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.9		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00347	0.00226	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Acetone	ND		0.0347	0.00778	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Acrylonitrile	ND		0.00347	0.00208	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Benzene	ND		0.00347	0.00232	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromobenzene	ND		0.00347	0.00231	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromochloromethane	ND		0.00347	0.00197	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromodichloromethane	ND		0.00347	0.00255	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromoform	ND		0.00347	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromomethane	ND		0.00695	0.00433	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2-Butanone (MEK)	ND		0.00695	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
n-Butylbenzene	ND		0.00695	0.00372	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
sec-Butylbenzene	ND		0.00347	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
tert-Butylbenzene	ND		0.00347	0.00274	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Carbon disulfide	ND		0.00695	0.00244	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Carbon tetrachloride	ND		0.00347	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chlorobenzene	ND		0.00347	0.00254	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chloroethane	ND		0.00695	0.00255	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chloroform	ND		0.00347	0.00233	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chloromethane	ND	*-	0.00695	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2-Chlorotoluene	ND		0.00347	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
4-Chlorotoluene	ND		0.00347	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dibromo-3-Chloropropane	ND		0.00695	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Dibromochloromethane	ND		0.00347	0.00230	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dibromoethane (EDB)	ND		0.00347	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Dibromomethane	ND		0.00347	0.00204	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dichlorobenzene	ND		0.00347	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3-Dichlorobenzene	ND		0.00347	0.00279	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,4-Dichlorobenzene	ND		0.00347	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00695	0.00186	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1-Dichloroethane	ND		0.00347	0.00236	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dichloroethane	ND		0.00347	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1-Dichloroethene	ND		0.00347	0.00213	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
cis-1,2-Dichloroethene	ND		0.00347	0.00201	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
trans-1,2-Dichloroethene	ND		0.00347	0.00216	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dichloropropane	ND		0.00347	0.00230	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3-Dichloropropane	ND		0.00347	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2,2-Dichloropropane	ND		0.00347	0.00240	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1-Dichloropropene	ND		0.00347	0.00236	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
cis-1,3-Dichloropropene	ND		0.00347	0.00226	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
trans-1,3-Dichloropropene	ND		0.00347	0.00264	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethylbenzene	ND		0.00347	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Hexachlorobutadiene	ND		0.00695	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2-Hexanone (MBK)	ND		0.00695	0.00204	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Isopropylbenzene	ND		0.00347	0.00263	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
4-Isopropyltoluene	ND		0.00347	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Methyl tert-butyl ether	ND		0.00347	0.00200	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		0.00695	0.00224	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Methylene Chloride	ND		0.00695	0.00186	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Naphthalene	ND		0.00347	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00347	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Styrene	ND		0.00347	0.00269	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,1,2-Tetrachloroethane	ND		0.00347	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,2,2-Tetrachloroethane	ND		0.00347	0.00318	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Tetrachloroethene	ND		0.00347	0.00193	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Toluene	ND		0.00347	0.00220	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,3-Trichlorobenzene	ND		0.00347	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,4-Trichlorobenzene	ND		0.00347	0.00320	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3,5-Trichlorobenzene	ND		0.00347	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,1-Trichloroethane	ND		0.00347	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,2-Trichloroethane	ND		0.00347	0.00262	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Trichloroethene	ND		0.00347	0.00233	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Trichlorofluoromethane (Freon 11)	ND		0.00347	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,3-Trichloropropane	ND		0.00347	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,4-Trimethylbenzene	ND		0.00347	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3,5-Trimethylbenzene	ND		0.00347	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Vinyl chloride	ND		0.00347	0.00212	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
m,p-Xylene	ND		0.00347	0.00475	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
o-Xylene	ND		0.00347	0.00254	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Tetrahydrofuran	ND		0.00695	0.00176	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethyl ether	ND		0.00347	0.00183	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Tert-amyl methyl ether	ND		0.00347	0.00274	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethyl tert-butyl ether	ND		0.00347	0.00229	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
di-Isopropyl ether	ND		0.00347	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
tert-Butanol	ND		0.0695	0.0186	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,4-Dioxane	ND		0.0695	0.0216	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
trans-1,4-Dichloro-2-butene	ND		0.0174	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethanol	ND		0.695	0.0431	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3-Dichloropropene, Total	ND		0.00347	0.00264	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Xylenes, Total	ND		0.0104	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.399	0.0710	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,2,4-Trichlorobenzene	ND		0.399	0.0914	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,2-Dichlorobenzene	ND		0.399	0.0769	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,3-Dichlorobenzene	ND		0.399	0.0966	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,4-Dichlorobenzene	ND		0.399	0.0939	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1-Methylnaphthalene	ND		0.0806	0.0677	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4,5-Trichlorophenol	ND		0.399	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4,6-Trichlorophenol	ND		0.202	0.0493	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4-Dichlorophenol	ND		0.202	0.0804	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4-Dimethylphenol	ND		0.399	0.0585	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4-Dinitrophenol	ND		0.399	0.105	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0406'
Date Collected: 02/27/23 10:40
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-3
Matrix: Solid
Percent Solids: 82.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.202	0.0473	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,6-Dinitrotoluene	ND		0.202	0.0473	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Chloronaphthalene	ND		0.399	0.0922	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Chlorophenol	ND		0.202	0.0826	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Methylnaphthalene	ND		0.0806	0.0596	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Methylphenol	ND		0.399	0.0583	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Nitroaniline	ND		0.399	0.0380	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Nitrophenol	ND		0.202	0.0717	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
3 & 4 Methylphenol	ND		0.399	0.0755	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
3,3'-Dichlorobenzidine	ND		0.399	0.0659	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
3-Nitroaniline	ND		0.399	0.0357	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4,6-Dinitro-2-methylphenol	ND		0.399	0.0717	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Bromophenyl phenyl ether	ND		0.399	0.0451	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Chloro-3-methylphenol	ND		0.399	0.0781	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Chloroaniline	ND		0.202	0.0306	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Chlorophenyl phenyl ether	ND		0.399	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Nitroaniline	ND		0.202	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Nitrophenol	ND		0.399	0.139	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Acenaphthene	ND		0.0806	0.0643	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Acenaphthylene	ND		0.0806	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Acetophenone	ND		0.202	0.0492	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Aniline	ND		0.399	0.0306	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Anthracene	ND		0.0806	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Azobenzene/Diphenyldiazene	ND		0.399	0.0681	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzidine	ND	*- *1	0.798	0.118	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[a]anthracene	ND		0.0806	0.0453	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[a]pyrene	ND		0.0806	0.0577	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[b]fluoranthene	ND		0.0806	0.0668	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[g,h,i]perylene	ND		0.0806	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[k]fluoranthene	ND		0.0806	0.0627	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzoic acid	ND		0.399	0.274	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzyl alcohol	ND		0.399	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Bis(2-chloroethoxy)methane	ND		0.399	0.0694	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Bis(2-chloroethyl)ether	ND		0.202	0.0660	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
bis (2-chloroisopropyl) ether	ND		0.202	0.0898	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Bis(2-ethylhexyl) phthalate	ND		0.202	0.0514	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Butyl benzyl phthalate	ND		0.399	0.0400	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Carbazole	ND		0.202	0.0528	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Chrysene	ND		0.0806	0.0456	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Dibenz(a,h)anthracene	ND		0.0806	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Dibenzofuran	ND		0.202	0.0699	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Diethyl phthalate	ND		0.399	0.0438	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Dimethyl phthalate	ND		0.399	0.0520	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Di-n-butyl phthalate	ND		0.399	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Di-n-octyl phthalate	ND		0.399	0.0659	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Fluoranthene	ND		0.0806	0.0473	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Fluorene	ND		0.0806	0.0736	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Hexachlorobenzene	ND		0.202	0.0560	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Hexachlorobutadiene	ND		0.202	0.101	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.202	0.0771	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Hexachloroethane	ND		0.202	0.0793	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0806	0.0684	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Isophorone	ND		0.202	0.0552	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Naphthalene	ND		0.0806	0.0774	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Nitrobenzene	ND		0.202	0.0932	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
N-Nitrosodimethylamine	ND		0.202	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
N-Nitrosodi-n-propylamine	ND		0.202	0.0804	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
N-Nitrosodiphenylamine	ND		0.399	0.0509	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pentachloronitrobenzene	ND		0.399	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pentachlorophenol	ND		0.399	0.163	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Phenanthrene	ND		0.0806	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Phenol	ND		0.399	0.0822	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pyrene	ND		0.0806	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pyridine	ND		0.399	0.0944	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
Phenol-d5 (Surr)	*96*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.239	0.122	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.239	0.102	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Ethylbenzene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Methyl tert-butyl ether	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
m,p-Xylene	ND		0.0956	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Naphthalene	ND		0.0478	0.0325	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
o-Xylene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Toluene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
C5-C8 Aliphatics (unadjusted)	ND		0.239	0.122	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
C9-C10 Aromatics	ND		0.239	0.0334	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
C9-C12 Aliphatics (unadjusted)	ND		0.239	0.102	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:51*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0240	0.0173	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1221	ND		0.0240	0.00709	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1232	ND		0.0240	0.00664	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0240	0.00379	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1248	ND		0.0240	0.00749	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1254	**0.0970**		0.0240	0.0187	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1262	ND		0.0240	0.00559	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1260	ND		0.0240	0.00516	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1268	ND		0.0240	0.00511	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoroheptanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorononanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorodecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorotridecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorotetradecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorobutanesulfonic acid	ND		2.37	0.474	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorohexanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NEtFOSAA	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NMeFOSAA	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
10:2 FTS	ND		2.37	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoropentanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoroheptanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorononanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorodecanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctanesulfonamide	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorohexadecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctadecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorobutanoic acid	ND		2.37	0.948	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoropentanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NMeFOSE	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NMeFOSA	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NEtFOSE	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NEtFOSA	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
HFPODA	ND		2.37	1.18	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
DONA	ND		3.55	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
9Cl-PF3ONS	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
11Cl-PF3OUdS	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorododecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
4:2 Fluorotelomer sulfonic acid	ND		2.37	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoroundecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.37	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
8:2 Fluorotelomer sulfonic acid	ND		3.55	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
M2-8:2 FTS	*122*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C5 PFHxA	*126*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C8 PFOA	*122*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C9 PFNA	*117*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C7 PFUnA	*113*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C3 PFBS	*118*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C3 PFHxS	*125*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C8 PFOS	*124*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d3-NMeFOSAA	*51*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d5-NEtFOSAA	*57*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C4 PFBA	*117*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C5 PFPeA	*113*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d9-N-EtFOSE-M	*107*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d5-NEtPFOSA	*109*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C3 HFPO-DA	*118*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:17*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.45	1.51	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Arsenic	**2.05**	**J**	2.67	1.25	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Barium	**12.1**		0.445	0.134	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Beryllium	**0.371**	**J**	0.445	0.0891	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Cadmium	ND		0.445	0.0891	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Chromium	**6.72**	**B**	1.34	0.312	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Lead	**4.40**		1.34	0.534	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Nickel	**2.49**		0.891	0.232	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Selenium	ND		4.45	1.34	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Silver	ND	^3+	0.891	0.356	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Thallium	ND		2.67	1.16	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Vanadium	**6.60**		0.891	0.383	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Zinc	**9.36**		1.78	0.712	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0732	0.0244	mg/Kg	☼	03/02/23 08:13	03/02/23 14:24	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0406'
Date Collected: 02/27/23 10:40
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-3
Matrix: Solid
Percent Solids: 82.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00325	0.00212	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Acetone	ND		0.0325	0.00729	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Acrylonitrile	ND		0.00325	0.00195	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Benzene	ND		0.00325	0.00217	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromobenzene	ND		0.00325	0.00217	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromochloromethane	ND		0.00325	0.00185	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromodichloromethane	ND		0.00325	0.00239	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromoform	ND		0.00325	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromomethane	ND		0.00651	0.00405	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2-Butanone (MEK)	ND		0.00651	0.00259	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
n-Butylbenzene	ND		0.00651	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
sec-Butylbenzene	ND		0.00325	0.00262	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
tert-Butylbenzene	ND		0.00325	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Carbon disulfide	ND		0.00651	0.00228	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Carbon tetrachloride	ND		0.00325	0.00205	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chlorobenzene	ND		0.00325	0.00238	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chloroethane	ND		0.00651	0.00239	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chloroform	ND		0.00325	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chloromethane	ND	*-	0.00651	0.00250	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2-Chlorotoluene	ND		0.00325	0.00259	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
4-Chlorotoluene	ND		0.00325	0.00282	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00651	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Dibromochloromethane	ND		0.00325	0.00215	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dibromoethane (EDB)	ND		0.00325	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Dibromomethane	ND		0.00325	0.00191	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dichlorobenzene	ND		0.00325	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3-Dichlorobenzene	ND		0.00325	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,4-Dichlorobenzene	ND		0.00325	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00651	0.00174	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1-Dichloroethane	ND		0.00325	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dichloroethane	ND		0.00325	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1-Dichloroethene	ND		0.00325	0.00199	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
cis-1,2-Dichloroethene	ND		0.00325	0.00188	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
trans-1,2-Dichloroethene	ND		0.00325	0.00202	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dichloropropane	ND		0.00325	0.00215	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3-Dichloropropane	ND		0.00325	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2,2-Dichloropropane	ND		0.00325	0.00224	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1-Dichloropropene	ND		0.00325	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
cis-1,3-Dichloropropene	ND		0.00325	0.00212	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
trans-1,3-Dichloropropene	ND		0.00325	0.00247	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethylbenzene	ND		0.00325	0.00232	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Hexachlorobutadiene	ND		0.00651	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2-Hexanone (MBK)	ND		0.00651	0.00191	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Isopropylbenzene	ND		0.00325	0.00246	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
4-Isopropyltoluene	ND		0.00325	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Methyl tert-butyl ether	ND		0.00325	0.00187	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.00651	0.00210	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Methylene Chloride	ND		0.00651	0.00174	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Naphthalene	ND		0.00325	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00325	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Styrene	ND		0.00325	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,1,2-Tetrachloroethane	ND		0.00325	0.00244	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,2,2-Tetrachloroethane	ND		0.00325	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Tetrachloroethene	ND		0.00325	0.00181	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Toluene	ND		0.00325	0.00206	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,3-Trichlorobenzene	ND		0.00325	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,4-Trichlorobenzene	ND		0.00325	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3,5-Trichlorobenzene	ND		0.00325	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,1-Trichloroethane	ND		0.00325	0.00222	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,2-Trichloroethane	ND		0.00325	0.00245	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Trichloroethene	ND		0.00325	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00325	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,3-Trichloropropane	ND		0.00325	0.00289	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,4-Trimethylbenzene	ND		0.00325	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3,5-Trimethylbenzene	ND		0.00325	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Vinyl chloride	ND		0.00325	0.00198	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
m,p-Xylene	ND		0.00325	0.00444	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
o-Xylene	ND		0.00325	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Tetrahydrofuran	ND		0.00651	0.00165	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethyl ether	ND		0.00325	0.00171	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Tert-amyl methyl ether	ND		0.00325	0.00257	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethyl tert-butyl ether	ND		0.00325	0.00214	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
di-Isopropyl ether	ND		0.00325	0.00232	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
tert-Butanol	ND		0.0651	0.0174	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,4-Dioxane	ND		0.0651	0.0202	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
trans-1,4-Dichloro-2-butene	ND		0.0163	0.00240	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethanol	ND		0.651	0.0403	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3-Dichloropropene, Total	ND		0.00325	0.00247	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Xylenes, Total	ND		0.00976	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0647	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,2,4-Trichlorobenzene	ND		0.364	0.0834	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,2-Dichlorobenzene	ND		0.364	0.0701	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,3-Dichlorobenzene	ND		0.364	0.0881	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1-Methylnaphthalene	ND		0.0736	0.0618	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4-Dichlorophenol	ND		0.184	0.0733	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4-Dinitrophenol	ND		0.364	0.0957	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Chloronaphthalene	ND		0.364	0.0841	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Chlorophenol	ND		0.184	0.0753	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Methylnaphthalene	ND		0.0736	0.0544	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Methylphenol	ND		0.364	0.0532	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Nitroaniline	ND		0.364	0.0346	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
3 & 4 Methylphenol	ND		0.364	0.0689	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
3-Nitroaniline	ND		0.364	0.0325	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Bromophenyl phenyl ether	ND		0.364	0.0411	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Chloro-3-methylphenol	ND		0.364	0.0712	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0389	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Nitroaniline	ND		0.184	0.0581	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Acenaphthene	ND		0.0736	0.0587	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Acenaphthylene	ND		0.0736	0.0483	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Anthracene	ND		0.0736	0.0426	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzidine	ND	*- *1	0.728	0.108	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[a]anthracene	ND		0.0736	0.0414	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[a]pyrene	ND		0.0736	0.0526	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[b]fluoranthene	ND		0.0736	0.0610	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[g,h,i]perylene	ND		0.0736	0.0575	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[k]fluoranthene	ND		0.0736	0.0572	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzoic acid	ND		0.364	0.250	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzyl alcohol	ND		0.364	0.0659	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Bis(2-chloroethyl)ether	ND		0.184	0.0602	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0819	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Bis(2-ethylhexyl) phthalate	ND		0.184	0.0469	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Butyl benzyl phthalate	ND		0.364	0.0365	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Chrysene	ND		0.0736	0.0416	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Dibenz(a,h)anthracene	ND		0.0736	0.0561	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Dibenzofuran	ND		0.184	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Dimethyl phthalate	ND		0.364	0.0474	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Di-n-butyl phthalate	ND		0.364	0.0389	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Fluoranthene	ND		0.0736	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Fluorene	ND		0.0736	0.0672	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Hexachlorobenzene	ND		0.184	0.0511	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Hexachlorobutadiene	ND		0.184	0.0919	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1

Client Sample ID: 2023-SB-02-0608' Lab Sample ID: 620-10021-4

Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.184	0.0704	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Hexachloroethane	ND		0.184	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0736	0.0624	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Naphthalene	ND		0.0736	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Nitrobenzene	ND		0.184	0.0850	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0733	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
N-Nitrosodiphenylamine	ND		0.364	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pentachloronitrobenzene	ND		0.364	0.0575	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Phenanthrene	ND		0.0736	0.0417	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pyrene	ND		0.0736	0.0406	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pyridine	ND		0.364	0.0861	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
2-Fluorophenol (Surr)	*105*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
Phenol-d5 (Surr)	*88*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.206	0.105	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.206	0.0880	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Ethylbenzene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Methyl tert-butyl ether	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
m,p-Xylene	ND		0.0822	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Naphthalene	ND		0.0411	0.0280	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
o-Xylene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Toluene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
C5-C8 Aliphatics (unadjusted)	ND		0.206	0.105	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
C9-C10 Aromatics	ND		0.206	0.0288	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
C9-C12 Aliphatics (unadjusted)	ND		0.206	0.0880	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/01/23 07:14*	*03/01/23 12:30*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/01/23 07:14*	*03/01/23 12:30*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1

Client Sample ID: 2023-SB-02-0608' **Lab Sample ID: 620-10021-4**
Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1254	ND		0.0218	0.0170	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoroheptanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorononanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorodecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorotridecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorotetradecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorobutanesulfonic acid	ND		2.22	0.443	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorohexanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
10:2 FTS	ND		2.22	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoropentanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoroheptanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorononanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorodecanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctanesulfonamide	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorohexadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorobutanoic acid	ND		2.22	0.886	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoropentanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NMeFOSE	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NMeFOSA	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NEtFOSE	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NEtFOSA	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
DONA	ND		3.32	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
11Cl-PF3OUdS	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorododecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoroundecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1

Client Sample ID: 2023-SB-02-0608' **Lab Sample ID: 620-10021-4**
Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
8:2 Fluorotelomer sulfonic acid	ND		3.32	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*121*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
M2-6:2 FTS	*128*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C5 PFHxA	*134*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C4 PFHpA	*140*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C8 PFOA	*133*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C9 PFNA	*128*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C7 PFUnA	*129*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C2-PFDoDA	*123*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C2 PFTeDA	*123*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C3 PFBS	*123*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C3 PFHxS	*128*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C8 PFOS	*125*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d3-NMeFOSAA	*65*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d5-NEtFOSAA	*74*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C8 FOSA	*112*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C4 PFBA	*127*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C5 PFPeA	*126*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d7-N-MeFOSE-M	*111*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d3-NMePFOSA	*107*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d9-N-EtFOSE-M	*113*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d5-NEtPFOSA	*109*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C3 HFPO-DA	*121*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.06	1.38	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Arsenic	**2.43**	**J**	2.44	1.14	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Barium	**19.0**		0.406	0.122	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Beryllium	**0.413**		0.406	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Cadmium	ND		0.406	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Chromium	**6.69**	**B**	1.22	0.284	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Lead	**2.55**		1.22	0.488	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Nickel	**3.03**		0.813	0.211	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Selenium	ND		4.06	1.22	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Silver	ND	^3+	0.813	0.325	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Thallium	ND		2.44	1.06	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Vanadium	**12.1**		0.813	0.349	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Zinc	**15.6**		1.63	0.650	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0646	0.0215	mg/Kg	☼	03/02/23 08:13	03/02/23 14:26	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.5		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	88.5		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00408	0.00266	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Acetone	ND		0.0408	0.00914	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Acrylonitrile	ND		0.00408	0.00245	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Benzene	ND		0.00408	0.00273	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromobenzene	ND		0.00408	0.00272	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromochloromethane	ND		0.00408	0.00232	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromodichloromethane	ND		0.00408	0.00300	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromoform	ND		0.00408	0.00312	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromomethane	ND		0.00816	0.00509	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2-Butanone (MEK)	ND		0.00816	0.00325	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
n-Butylbenzene	ND		0.00816	0.00438	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
sec-Butylbenzene	ND		0.00408	0.00329	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
tert-Butylbenzene	ND		0.00408	0.00322	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Carbon disulfide	ND		0.00816	0.00287	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Carbon tetrachloride	ND		0.00408	0.00257	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chlorobenzene	ND		0.00408	0.00299	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chloroethane	ND		0.00816	0.00300	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chloroform	ND		0.00408	0.00274	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chloromethane	ND		0.00816	0.00314	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2-Chlorotoluene	ND		0.00408	0.00325	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
4-Chlorotoluene	ND		0.00408	0.00354	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dibromo-3-Chloropropane	ND		0.00816	0.00346	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Dibromochloromethane	ND		0.00408	0.00270	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dibromoethane (EDB)	ND		0.00408	0.00293	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Dibromomethane	ND		0.00408	0.00240	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dichlorobenzene	ND		0.00408	0.00379	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3-Dichlorobenzene	ND		0.00408	0.00327	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,4-Dichlorobenzene	ND		0.00408	0.00387	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00816	0.00219	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1-Dichloroethane	ND		0.00408	0.00277	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dichloroethane	ND		0.00408	0.00275	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1-Dichloroethene	ND		0.00408	0.00250	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
cis-1,2-Dichloroethene	ND		0.00408	0.00236	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
trans-1,2-Dichloroethene	ND		0.00408	0.00254	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dichloropropane	ND		0.00408	0.00270	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3-Dichloropropane	ND		0.00408	0.00312	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2,2-Dichloropropane	ND		0.00408	0.00282	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1-Dichloropropene	ND		0.00408	0.00278	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
cis-1,3-Dichloropropene	ND		0.00408	0.00266	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
trans-1,3-Dichloropropene	ND		0.00408	0.00310	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethylbenzene	ND		0.00408	0.00291	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Hexachlorobutadiene	ND		0.00816	0.00411	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2-Hexanone (MBK)	ND		0.00816	0.00240	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Isopropylbenzene	ND		0.00408	0.00309	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
4-Isopropyltoluene	ND		0.00408	0.00401	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Methyl tert-butyl ether	ND		0.00408	0.00235	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		0.00816	0.00264	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Methylene Chloride	ND		0.00816	0.00219	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Naphthalene	ND		0.00408	0.00369	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1

Client Sample ID: 2023-SB-02-0810' **Lab Sample ID: 620-10021-5**
Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00408	0.00345	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Styrene	ND		0.00408	0.00316	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,1,2-Tetrachloroethane	ND		0.00408	0.00306	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,2,2-Tetrachloroethane	ND		0.00408	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Tetrachloroethene	ND		0.00408	0.00227	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Toluene	ND		0.00408	0.00259	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,3-Trichlorobenzene	ND		0.00408	0.00345	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,4-Trichlorobenzene	ND		0.00408	0.00376	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3,5-Trichlorobenzene	ND		0.00408	0.00388	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,1-Trichloroethane	ND		0.00408	0.00278	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,2-Trichloroethane	ND		0.00408	0.00308	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Trichloroethene	ND		0.00408	0.00274	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Trichlorofluoromethane (Freon 11)	ND		0.00408	0.00312	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,3-Trichloropropane	ND		0.00408	0.00362	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,4-Trimethylbenzene	ND		0.00408	0.00345	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3,5-Trimethylbenzene	ND		0.00408	0.00347	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Vinyl chloride	ND		0.00408	0.00249	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
m,p-Xylene	ND		0.00408	0.00558	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
o-Xylene	ND		0.00408	0.00298	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Tetrahydrofuran	ND		0.00816	0.00207	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethyl ether	ND		0.00408	0.00215	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Tert-amyl methyl ether	ND		0.00408	0.00322	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethyl tert-butyl ether	ND		0.00408	0.00269	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
di-Isopropyl ether	ND		0.00408	0.00291	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
tert-Butanol	ND		0.0816	0.0219	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,4-Dioxane	ND		0.0816	0.0254	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
trans-1,4-Dichloro-2-butene	ND		0.0204	0.00301	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethanol	ND		0.816	0.0506	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3-Dichloropropene, Total	ND		0.00408	0.00310	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Xylenes, Total	ND		0.0122	0.00408	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.385	0.0685	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,2,4-Trichlorobenzene	ND		0.385	0.0883	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,2-Dichlorobenzene	ND		0.385	0.0743	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,3-Dichlorobenzene	ND		0.385	0.0933	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,4-Dichlorobenzene	ND		0.385	0.0907	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1-Methylnaphthalene	ND		0.0779	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4,5-Trichlorophenol	ND		0.385	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4,6-Trichlorophenol	ND		0.195	0.0476	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4-Dichlorophenol	ND		0.195	0.0777	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4-Dimethylphenol	ND		0.385	0.0565	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4-Dinitrophenol	ND		0.385	0.101	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,6-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Chloronaphthalene	ND		0.385	0.0891	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Chlorophenol	ND		0.195	0.0798	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Methylnaphthalene	ND		0.0779	0.0576	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Methylphenol	ND		0.385	0.0563	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Nitroaniline	ND		0.385	0.0367	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Nitrophenol	ND		0.195	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
3 & 4 Methylphenol	ND		0.385	0.0730	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
3,3'-Dichlorobenzidine	ND		0.385	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
3-Nitroaniline	ND		0.385	0.0344	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4,6-Dinitro-2-methylphenol	ND		0.385	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Bromophenyl phenyl ether	ND		0.385	0.0436	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Chloro-3-methylphenol	ND		0.385	0.0754	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Chloroaniline	ND		0.195	0.0295	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Chlorophenyl phenyl ether	ND		0.385	0.0412	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Nitroaniline	ND		0.195	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Nitrophenol	ND		0.385	0.134	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Acenaphthene	ND		0.0779	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Acenaphthylene	ND		0.0779	0.0511	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Acetophenone	ND		0.195	0.0475	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Aniline	ND		0.385	0.0295	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Anthracene	ND		0.0779	0.0451	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Azobenzene/Diphenyldiazene	ND		0.385	0.0657	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzidine	ND	*- *1	0.771	0.114	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[a]anthracene	ND		0.0779	0.0438	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[a]pyrene	ND		0.0779	0.0557	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[b]fluoranthene	ND		0.0779	0.0646	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[g,h,i]perylene	ND		0.0779	0.0608	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[k]fluoranthene	ND		0.0779	0.0606	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzoic acid	ND		0.385	0.265	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzyl alcohol	ND		0.385	0.0698	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Bis(2-chloroethoxy)methane	ND		0.385	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Bis(2-chloroethyl)ether	ND		0.195	0.0638	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
bis (2-chloroisopropyl) ether	ND		0.195	0.0868	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Bis(2-ethylhexyl) phthalate	ND		0.195	0.0496	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Butyl benzyl phthalate	ND		0.385	0.0387	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Carbazole	ND		0.195	0.0510	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Chrysene	ND		0.0779	0.0440	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Dibenz(a,h)anthracene	ND		0.0779	0.0594	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Dibenzofuran	ND		0.195	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Diethyl phthalate	ND		0.385	0.0423	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Dimethyl phthalate	ND		0.385	0.0502	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Di-n-butyl phthalate	ND		0.385	0.0412	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Di-n-octyl phthalate	ND		0.385	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Fluoranthene	ND		0.0779	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Fluorene	ND		0.0779	0.0711	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Hexachlorobenzene	ND		0.195	0.0541	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Hexachlorobutadiene	ND		0.195	0.0973	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1

Client Sample ID: 2023-SB-02-0810' **Lab Sample ID: 620-10021-5**
Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.195	0.0745	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Hexachloroethane	ND		0.195	0.0766	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0779	0.0661	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Isophorone	ND		0.195	0.0534	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Naphthalene	ND		0.0779	0.0747	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Nitrobenzene	ND		0.195	0.0900	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
N-Nitrosodimethylamine	ND		0.195	0.0511	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
N-Nitrosodi-n-propylamine	ND		0.195	0.0777	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
N-Nitrosodiphenylamine	ND		0.385	0.0492	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pentachloronitrobenzene	ND		0.385	0.0608	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pentachlorophenol	ND		0.385	0.158	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Phenanthrene	ND		0.0779	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Phenol	ND		0.385	0.0794	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pyrene	ND		0.0779	0.0430	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pyridine	ND		0.385	0.0912	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
2-Fluorophenol (Surr)	*83*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.221	0.113	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.221	0.0944	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Ethylbenzene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Methyl tert-butyl ether	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
m,p-Xylene	ND		0.0882	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Naphthalene	ND		0.0441	0.0300	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
o-Xylene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Toluene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
C5-C8 Aliphatics (unadjusted)	ND		0.221	0.113	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
C9-C10 Aromatics	ND		0.221	0.0309	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
C9-C12 Aliphatics (unadjusted)	ND		0.221	0.0944	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:10*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:10*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0236	0.0170	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1221	ND		0.0236	0.00697	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1232	ND		0.0236	0.00654	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0236	0.00373	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1248	ND		0.0236	0.00737	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1254	ND		0.0236	0.0184	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1262	ND		0.0236	0.00550	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1260	ND		0.0236	0.00507	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1268	ND		0.0236	0.00503	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*
Tetrachloro-m-xylene	*75*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoroheptanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorononanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorodecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorotridecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorotetradecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorobutanesulfonic acid	ND		2.34	0.468	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorohexanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NEtFOSAA	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NMeFOSAA	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
10:2 FTS	ND		2.34	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoropentanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoroheptanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorononanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorodecanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctanesulfonamide	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorohexadecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctadecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorobutanoic acid	ND		2.34	0.936	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoropentanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NMeFOSE	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NMeFOSA	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NEtFOSE	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NEtFOSA	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
HFPODA	ND		2.34	1.17	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
DONA	ND		3.51	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
9Cl-PF3ONS	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
11Cl-PF3OUdS	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorododecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.34	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoroundecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.34	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.51	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*99*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C5 PFHxA	*118*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C4 PFHpA	*122*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C8 PFOA	*116*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C9 PFNA	*115*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C6 PFDA	*119*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C7 PFUnA	*119*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C2-PFDoDA	*121*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C2 PFTeDA	*114*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C3 PFBS	*120*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C3 PFHxS	*130*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d3-NMeFOSAA	*34*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d5-NEtFOSAA	*39*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C8 FOSA	*120*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C4 PFBA	*112*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d7-N-MeFOSE-M	*123*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d3-NMePFOSA	*115*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d9-N-EtFOSE-M	*127*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d5-NEtPFOSA	*124*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C3 HFPO-DA	*119*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F2	4.62	1.57	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Arsenic	**6.17**		2.77	1.29	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Barium	**65.8**	**F2 F1**	0.462	0.138	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Beryllium	**1.21**	**B**	0.462	0.0923	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Cadmium	ND		0.462	0.0923	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Chromium	**15.8**	**F1**	1.38	0.323	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Lead	**6.33**	**F2 F1**	1.38	0.554	mg/Kg	☼	03/01/23 12:43	03/06/23 15:29	1
Nickel	**9.74**		0.923	0.240	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Selenium	ND		4.62	1.38	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Silver	ND	^3+	0.923	0.369	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Thallium	ND		2.77	1.20	mg/Kg	☼	03/01/23 12:43	03/06/23 15:29	1
Vanadium	**27.7**	**F1**	0.923	0.397	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Zinc	**37.9**	**F1**	1.85	0.739	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0697	0.0232	mg/Kg	☼	03/02/23 08:18	03/02/23 14:41	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.4		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	84.6		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00507	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Acetone	ND		0.0507	0.0114	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Acrylonitrile	ND		0.00507	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Benzene	ND		0.00507	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromobenzene	ND		0.00507	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromochloromethane	ND		0.00507	0.00288	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromodichloromethane	ND		0.00507	0.00372	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromoform	ND		0.00507	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromomethane	ND		0.0101	0.00631	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
n-Butylbenzene	ND		0.0101	0.00543	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
sec-Butylbenzene	ND		0.00507	0.00408	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
tert-Butylbenzene	ND		0.00507	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Carbon disulfide	ND		0.0101	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Carbon tetrachloride	ND		0.00507	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chlorobenzene	ND		0.00507	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chloroethane	ND		0.0101	0.00372	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chloroform	ND		0.00507	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chloromethane	ND	*-	0.0101	0.00389	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2-Chlorotoluene	ND		0.00507	0.00403	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
4-Chlorotoluene	ND		0.00507	0.00440	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00430	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Dibromochloromethane	ND		0.00507	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dibromoethane (EDB)	ND		0.00507	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Dibromomethane	ND		0.00507	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dichlorobenzene	ND		0.00507	0.00470	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3-Dichlorobenzene	ND		0.00507	0.00406	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,4-Dichlorobenzene	ND		0.00507	0.00480	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1-Dichloroethane	ND		0.00507	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dichloroethane	ND		0.00507	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1-Dichloroethene	ND		0.00507	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
cis-1,2-Dichloroethene	ND		0.00507	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
trans-1,2-Dichloroethene	ND		0.00507	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dichloropropane	ND		0.00507	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3-Dichloropropane	ND		0.00507	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2,2-Dichloropropane	ND		0.00507	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1-Dichloropropene	ND		0.00507	0.00345	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
cis-1,3-Dichloropropene	ND		0.00507	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
trans-1,3-Dichloropropene	ND		0.00507	0.00385	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethylbenzene	ND		0.00507	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Hexachlorobutadiene	ND		0.0101	0.00510	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2-Hexanone (MBK)	ND		0.0101	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Isopropylbenzene	ND		0.00507	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
4-Isopropyltoluene	ND		0.00507	0.00498	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Methyl tert-butyl ether	ND		0.00507	0.00292	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Methylene Chloride	ND		0.0101	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Naphthalene	ND		0.00507	0.00458	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1

Client Sample ID: 2023-SB-02-1012' **Lab Sample ID: 620-10021-6**
Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00507	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Styrene	ND		0.00507	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,1,2-Tetrachloroethane	ND		0.00507	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,2,2-Tetrachloroethane	ND		0.00507	0.00464	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Tetrachloroethene	ND		0.00507	0.00282	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Toluene	ND		0.00507	0.00321	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,3-Trichlorobenzene	ND		0.00507	0.00428	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,4-Trichlorobenzene	ND		0.00507	0.00467	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3,5-Trichlorobenzene	ND		0.00507	0.00481	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,1-Trichloroethane	ND		0.00507	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,2-Trichloroethane	ND		0.00507	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Trichloroethene	ND		0.00507	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00507	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,3-Trichloropropane	ND		0.00507	0.00450	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,4-Trimethylbenzene	ND		0.00507	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3,5-Trimethylbenzene	ND		0.00507	0.00431	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Vinyl chloride	ND		0.00507	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
m,p-Xylene	ND		0.00507	0.00692	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
o-Xylene	ND		0.00507	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethyl ether	ND		0.00507	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Tert-amyl methyl ether	ND		0.00507	0.00400	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethyl tert-butyl ether	ND		0.00507	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
di-Isopropyl ether	ND		0.00507	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
tert-Butanol	ND		0.101	0.0272	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00374	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethanol	ND		1.01	0.0628	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3-Dichloropropene, Total	ND		0.00507	0.00385	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Xylenes, Total	ND		0.0152	0.00507	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.403	0.0717	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,2,4-Trichlorobenzene	ND		0.403	0.0924	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,2-Dichlorobenzene	ND		0.403	0.0777	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,3-Dichlorobenzene	ND		0.403	0.0977	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,4-Dichlorobenzene	ND		0.403	0.0950	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1-Methylnaphthalene	ND		0.0815	0.0684	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4,5-Trichlorophenol	ND		0.403	0.0462	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4,6-Trichlorophenol	ND		0.204	0.0499	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4-Dichlorophenol	ND		0.204	0.0813	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4-Dimethylphenol	ND		0.403	0.0592	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4-Dinitrophenol	ND		0.403	0.106	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.204	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,6-Dinitrotoluene	ND		0.204	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Chloronaphthalene	ND		0.403	0.0933	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Chlorophenol	ND		0.204	0.0835	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Methylnaphthalene	ND		0.0815	0.0603	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Methylphenol	ND		0.403	0.0589	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Nitroaniline	ND		0.403	0.0384	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Nitrophenol	ND		0.204	0.0725	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
3 & 4 Methylphenol	ND		0.403	0.0764	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
3,3'-Dichlorobenzidine	ND		0.403	0.0666	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
3-Nitroaniline	ND		0.403	0.0361	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4,6-Dinitro-2-methylphenol	ND		0.403	0.0725	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Bromophenyl phenyl ether	ND		0.403	0.0456	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Chloro-3-methylphenol	ND		0.403	0.0790	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Chloroaniline	ND		0.204	0.0309	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Chlorophenyl phenyl ether	ND		0.403	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Nitroaniline	ND		0.204	0.0644	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Nitrophenol	ND		0.403	0.141	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Acenaphthene	ND		0.0815	0.0650	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Acenaphthylene	ND		0.0815	0.0535	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Acetophenone	ND		0.204	0.0497	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Aniline	ND		0.403	0.0309	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Anthracene	ND		0.0815	0.0472	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Azobenzene/Diphenyldiazene	ND		0.403	0.0688	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzidine	ND	*- *1	0.807	0.119	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[a]anthracene	ND		0.0815	0.0458	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[a]pyrene	ND		0.0815	0.0583	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[b]fluoranthene	ND		0.0815	0.0676	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[g,h,i]perylene	ND		0.0815	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[k]fluoranthene	ND		0.0815	0.0634	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzoic acid	ND		0.403	0.277	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzyl alcohol	ND		0.403	0.0731	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Bis(2-chloroethoxy)methane	ND		0.403	0.0702	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Bis(2-chloroethyl)ether	ND		0.204	0.0667	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
bis (2-chloroisopropyl) ether	ND		0.204	0.0908	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Bis(2-ethylhexyl) phthalate	ND		0.204	0.0519	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Butyl benzyl phthalate	ND		0.403	0.0405	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Carbazole	ND		0.204	0.0534	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Chrysene	ND		0.0815	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Dibenz(a,h)anthracene	ND		0.0815	0.0622	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Dibenzofuran	ND		0.204	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Diethyl phthalate	ND		0.403	0.0442	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Dimethyl phthalate	ND		0.403	0.0526	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Di-n-butyl phthalate	ND		0.403	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Di-n-octyl phthalate	ND		0.403	0.0666	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Fluoranthene	ND		0.0815	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Fluorene	ND		0.0815	0.0744	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Hexachlorobenzene	ND		0.204	0.0566	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Hexachlorobutadiene	ND		0.204	0.102	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1

Client Sample ID: 2023-SB-02-1012' **Lab Sample ID: 620-10021-6**
Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.204	0.0780	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Hexachloroethane	ND		0.204	0.0802	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0815	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Isophorone	ND		0.204	0.0559	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Naphthalene	ND		0.0815	0.0782	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Nitrobenzene	ND		0.204	0.0942	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
N-Nitrosodimethylamine	ND		0.204	0.0535	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
N-Nitrosodi-n-propylamine	ND		0.204	0.0813	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
N-Nitrosodiphenylamine	ND		0.403	0.0515	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pentachloronitrobenzene	ND		0.403	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pentachlorophenol	ND		0.403	0.165	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Phenanthrene	ND		0.0815	0.0462	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Phenol	ND		0.403	0.0831	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pyrene	ND		0.0815	0.0450	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pyridine	ND		0.403	0.0955	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
Phenol-d5 (Surr)	*93*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
Terphenyl-d14	*92*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.258	0.132	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.258	0.110	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Ethylbenzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Methyl tert-butyl ether	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
m,p-Xylene	ND		0.103	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Naphthalene	ND		0.0516	0.0351	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
o-Xylene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Toluene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.258	0.132	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
C9-C10 Aromatics	ND		0.258	0.0361	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.258	0.110	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:49*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0244	0.0176	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1221	ND		0.0244	0.00721	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1232	ND		0.0244	0.00676	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0244	0.00386	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1248	ND		0.0244	0.00763	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1254	ND		0.0244	0.0190	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1262	ND		0.0244	0.00569	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1260	ND		0.0244	0.00525	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1268	ND		0.0244	0.00520	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*
Tetrachloro-m-xylene	*80*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoroheptanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorononanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorodecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorotridecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorotetradecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorobutanesulfonic acid	ND		2.38	0.476	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorohexanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NEtFOSAA	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NMeFOSAA	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
10:2 FTS	ND		2.38	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoropentanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoroheptanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorononanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorodecanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctanesulfonamide	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorohexadecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctadecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorobutanoic acid	ND		2.38	0.952	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoropentanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NMeFOSE	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NMeFOSA	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NEtFOSE	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NEtFOSA	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
HFPODA	ND		2.38	1.19	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
DONA	ND		3.57	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
9Cl-PF3ONS	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
11Cl-PF3OUdS	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorododecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.38	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoroundecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.38	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.57	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
M2-8:2 FTS	*118*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
M2-6:2 FTS	*127*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C5 PFHxA	*146*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C4 PFHpA	*144*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C8 PFOA	*141*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C9 PFNA	*129*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C6 PFDA	*124*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C2-PFDoDA	*127*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C2 PFTeDA	*120*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C3 PFBS	*126*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C3 PFHxS	*142*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C8 PFOS	*131*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d3-NMeFOSAA	*70*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d5-NEtFOSAA	*81*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C8 FOSA	*123*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C4 PFBA	*125*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C5 PFPeA	*124*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d3-NMePFOSA	*119*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d9-N-EtFOSE-M	*121*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d5-NEtPFOSA	*114*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C3 HFPO-DA	*132*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.95	1.68	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Arsenic	**1.59**	**J**	2.97	1.39	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Barium	**13.1**		0.495	0.149	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Beryllium	**0.317**	**J**	0.495	0.0990	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Cadmium	ND		0.495	0.0990	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Chromium	**3.49**	**B**	1.49	0.347	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Lead	**2.03**		1.49	0.594	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Nickel	**2.03**		0.990	0.257	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Selenium	ND		4.95	1.49	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Silver	ND	^3+	0.990	0.396	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Thallium	ND		2.97	1.29	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Vanadium	**6.12**		0.990	0.426	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Zinc	**7.79**		1.98	0.792	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0743	0.0248	mg/Kg	☼	03/02/23 08:13	03/02/23 14:28	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	80.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00498	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Acetone	ND		0.0498	0.0112	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Acrylonitrile	ND		0.00498	0.00299	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Benzene	ND		0.00498	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromobenzene	ND		0.00498	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromochloromethane	ND		0.00498	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromodichloromethane	ND		0.00498	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromoform	ND		0.00498	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromomethane	ND		0.00996	0.00621	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2-Butanone (MEK)	ND		0.00996	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
n-Butylbenzene	ND		0.00996	0.00534	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
sec-Butylbenzene	ND		0.00498	0.00401	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
tert-Butylbenzene	ND		0.00498	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Carbon disulfide	ND		0.00996	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Carbon tetrachloride	ND		0.00498	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chlorobenzene	ND		0.00498	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chloroethane	ND		0.00996	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chloroform	ND		0.00498	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chloromethane	ND	*-	0.00996	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2-Chlorotoluene	ND		0.00498	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
4-Chlorotoluene	ND		0.00498	0.00432	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dibromo-3-Chloropropane	ND		0.00996	0.00422	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Dibromochloromethane	ND		0.00498	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dibromoethane (EDB)	ND		0.00498	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Dibromomethane	ND		0.00498	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dichlorobenzene	ND		0.00498	0.00462	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3-Dichlorobenzene	ND		0.00498	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,4-Dichlorobenzene	ND		0.00498	0.00472	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00996	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1-Dichloroethane	ND		0.00498	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dichloroethane	ND		0.00498	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1-Dichloroethene	ND		0.00498	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
cis-1,2-Dichloroethene	ND		0.00498	0.00288	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
trans-1,2-Dichloroethene	ND		0.00498	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dichloropropane	ND		0.00498	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3-Dichloropropane	ND		0.00498	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2,2-Dichloropropane	ND		0.00498	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1-Dichloropropene	ND		0.00498	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
cis-1,3-Dichloropropene	ND		0.00498	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
trans-1,3-Dichloropropene	ND		0.00498	0.00379	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethylbenzene	ND		0.00498	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Hexachlorobutadiene	ND		0.00996	0.00501	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2-Hexanone (MBK)	ND		0.00996	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Isopropylbenzene	ND		0.00498	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
4-Isopropyltoluene	ND		0.00498	0.00489	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Methyl tert-butyl ether	ND		0.00498	0.00287	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
4-Methyl-2-pentanone (MIBK)	ND		0.00996	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Methylene Chloride	ND		0.00996	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Naphthalene	ND		0.00498	0.00450	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00498	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Styrene	ND		0.00498	0.00385	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,1,2-Tetrachloroethane	ND		0.00498	0.00374	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,2,2-Tetrachloroethane	ND		0.00498	0.00456	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Tetrachloroethene	ND		0.00498	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Toluene	ND		0.00498	0.00316	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,3-Trichlorobenzene	ND		0.00498	0.00420	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,4-Trichlorobenzene	ND		0.00498	0.00459	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3,5-Trichlorobenzene	ND		0.00498	0.00473	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,1-Trichloroethane	ND		0.00498	0.00340	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,2-Trichloroethane	ND		0.00498	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Trichloroethene	ND		0.00498	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Trichlorofluoromethane (Freon 11)	ND		0.00498	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,3-Trichloropropane	ND		0.00498	0.00442	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,4-Trimethylbenzene	ND		0.00498	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3,5-Trimethylbenzene	ND		0.00498	0.00423	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Vinyl chloride	ND		0.00498	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
m,p-Xylene	ND		0.00498	0.00680	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
o-Xylene	ND		0.00498	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Tetrahydrofuran	ND		0.00996	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethyl ether	ND		0.00498	0.00262	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Tert-amyl methyl ether	ND		0.00498	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethyl tert-butyl ether	ND		0.00498	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
di-Isopropyl ether	ND		0.00498	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
tert-Butanol	ND		0.0996	0.0267	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,4-Dioxane	ND		0.0996	0.0310	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
trans-1,4-Dichloro-2-butene	ND		0.0249	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethanol	ND		0.996	0.0618	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3-Dichloropropene, Total	ND		0.00498	0.00379	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Xylenes, Total	ND		0.0149	0.00498	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.345	0.0614	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,2,4-Trichlorobenzene	ND		0.345	0.0791	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,2-Dichlorobenzene	ND		0.345	0.0666	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,3-Dichlorobenzene	ND		0.345	0.0836	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,4-Dichlorobenzene	ND		0.345	0.0813	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1-Methylnaphthalene	ND		0.0698	0.0586	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4,5-Trichlorophenol	ND		0.345	0.0396	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4,6-Trichlorophenol	ND		0.175	0.0427	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4-Dichlorophenol	ND		0.175	0.0696	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4-Dimethylphenol	ND		0.345	0.0507	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4-Dinitrophenol	ND		0.345	0.0908	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,6-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Chloronaphthalene	ND		0.345	0.0799	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Chlorophenol	ND		0.175	0.0715	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Methylnaphthalene	ND		0.0698	0.0516	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Methylphenol	ND		0.345	0.0504	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Nitroaniline	ND		0.345	0.0329	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Nitrophenol	ND		0.175	0.0621	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
3 & 4 Methylphenol	ND		0.345	0.0654	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
3,3'-Dichlorobenzidine	ND		0.345	0.0570	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
3-Nitroaniline	ND		0.345	0.0309	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4,6-Dinitro-2-methylphenol	ND		0.345	0.0621	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Bromophenyl phenyl ether	ND		0.345	0.0390	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Chloro-3-methylphenol	ND		0.345	0.0676	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Chlorophenyl phenyl ether	ND		0.345	0.0369	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Nitroaniline	ND		0.175	0.0552	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Nitrophenol	ND		0.345	0.120	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Acenaphthene	ND		0.0698	0.0557	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Acenaphthylene	ND		0.0698	0.0458	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Acetophenone	ND		0.175	0.0426	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Aniline	ND		0.345	0.0265	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Anthracene	ND		0.0698	0.0404	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Azobenzene/Diphenyldiazene	ND		0.345	0.0589	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzidine	ND	*- *1	0.691	0.102	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[a]anthracene	ND		0.0698	0.0392	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[a]pyrene	ND		0.0698	0.0499	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[b]fluoranthene	ND		0.0698	0.0579	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[g,h,i]perylene	ND		0.0698	0.0545	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[k]fluoranthene	ND		0.0698	0.0543	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzoic acid	ND		0.345	0.238	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzyl alcohol	ND		0.345	0.0626	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Bis(2-chloroethoxy)methane	ND		0.345	0.0601	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Bis(2-chloroethyl)ether	ND		0.175	0.0571	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0778	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Bis(2-ethylhexyl) phthalate	**2.73**		0.175	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Butyl benzyl phthalate	**0.142**	**J**	0.345	0.0346	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Carbazole	ND		0.175	0.0457	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Chrysene	**0.0518**	**J**	0.0698	0.0395	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Dibenz(a,h)anthracene	ND		0.0698	0.0533	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Dibenzofuran	ND		0.175	0.0605	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Diethyl phthalate	ND		0.345	0.0379	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Dimethyl phthalate	ND		0.345	0.0450	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Di-n-butyl phthalate	**0.120**	**J**	0.345	0.0369	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Di-n-octyl phthalate	ND		0.345	0.0570	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Fluoranthene	**0.112**		0.0698	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Fluorene	ND		0.0698	0.0637	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Hexachlorobenzene	ND		0.175	0.0485	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Hexachlorobutadiene	ND		0.175	0.0872	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1

Client Sample ID: 2023-SB-01-0002' **Lab Sample ID: 620-10021-7**
Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0668	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Hexachloroethane	ND		0.175	0.0687	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0698	0.0592	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Isophorone	ND		0.175	0.0478	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Naphthalene	ND		0.0698	0.0670	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Nitrobenzene	ND		0.175	0.0807	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
N-Nitrosodimethylamine	ND		0.175	0.0458	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0696	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
N-Nitrosodiphenylamine	ND		0.345	0.0441	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pentachloronitrobenzene	ND		0.345	0.0545	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pentachlorophenol	ND		0.345	0.141	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Phenanthrene	**0.0810**		0.0698	0.0396	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Phenol	ND		0.345	0.0712	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pyrene	**0.120**		0.0698	0.0385	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pyridine	ND		0.345	0.0817	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
2-Fluorophenol (Surr)	*61*		*15 - 110*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
Nitrobenzene-d5 (Surr)	*37*		*30 - 130*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
Phenol-d5 (Surr)	*47*		*15 - 110*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
Terphenyl-d14	*45*		*30 - 130*	*03/02/23 10:19*	*03/08/23 17:50*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Ethylbenzene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Methyl tert-butyl ether	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Naphthalene	ND		0.0520	0.0354	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
o-Xylene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Toluene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
C9-C10 Aromatics	ND		0.260	0.0364	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 14:28*	*1*
a,a,a-Trifluorotoluene (fid)	*104*		*70 - 130*	*03/01/23 07:14*	*03/01/23 14:28*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.100	0.0723	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1221	ND		0.100	0.0297	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1232	ND		0.100	0.0278	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5

Client Sample ID: 2023-SB-01-0002' **Lab Sample ID: 620-10021-7**
Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.100	0.0159	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1248	ND		0.100	0.0314	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1254	**1.41**		0.100	0.0781	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1262	ND		0.100	0.0234	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1260	ND		0.100	0.0216	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1268	ND		0.100	0.0214	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*
Tetrachloro-m-xylene	*66*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*
DCB Decachlorobiphenyl (Surr)	*80*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*
DCB Decachlorobiphenyl (Surr)	*80*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoroheptanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorononanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorodecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorotridecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorotetradecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorobutanesulfonic acid	ND		2.10	0.420	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorohexanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NEtFOSAA	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NMeFOSAA	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
10:2 FTS	ND		2.10	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoropentanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoroheptanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorononanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorodecanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctanesulfonamide	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorohexadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorobutanoic acid	ND		2.10	0.841	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoropentanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NMeFOSE	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NMeFOSA	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NEtFOSE	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NEtFOSA	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
HFPODA	ND		2.10	1.05	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
DONA	ND		3.15	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
9Cl-PF3ONS	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
11Cl-PF3OUdS	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorododecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoroundecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1

Client Sample ID: 2023-SB-01-0002' **Lab Sample ID: 620-10021-7**
Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.15	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
M2-8:2 FTS	*87*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
M2-6:2 FTS	*79*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C5 PFHxA	*73*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C4 PFHpA	*78*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C8 PFOA	*76*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C9 PFNA	*84*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C6 PFDA	*80*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C2-PFDoDA	*79*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C3 PFBS	*110*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C3 PFHxS	*109*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C8 PFOS	*114*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d5-NEtFOSAA	*18*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C8 FOSA	*73*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C4 PFBA	*62*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d7-N-MeFOSE-M	*69*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d3-NMePFOSA	*14*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d5-NEtPFOSA	*16*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.10	1.74	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Arsenic	**2.97**	**J**	3.06	1.43	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Barium	**19.1**		0.510	0.153	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Beryllium	**0.457**	**J**	0.510	0.102	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Cadmium	ND		0.510	0.102	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Chromium	**4.52**	**B**	1.53	0.357	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Lead	**6.92**		1.53	0.612	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Nickel	**2.99**		1.02	0.265	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Selenium	ND		5.10	1.53	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Silver	ND	^3+	1.02	0.408	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Thallium	ND		3.06	1.33	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Vanadium	**8.46**		1.02	0.439	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Zinc	**17.3**		2.04	0.817	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0227**	**J**	0.0588	0.0196	mg/Kg	☼	03/02/23 08:13	03/02/23 14:30	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.8		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	94.2		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0204'
Date Collected: 02/27/23 12:05
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-8
Matrix: Solid
Percent Solids: 91.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00515	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Acetone	ND		0.0515	0.0115	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Acrylonitrile	ND		0.00515	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Benzene	ND		0.00515	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromobenzene	ND		0.00515	0.00343	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromochloromethane	ND		0.00515	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromodichloromethane	ND		0.00515	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromoform	ND		0.00515	0.00394	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromomethane	ND		0.0103	0.00642	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2-Butanone (MEK)	ND		0.0103	0.00410	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
n-Butylbenzene	ND		0.0103	0.00553	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
sec-Butylbenzene	ND		0.00515	0.00415	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
tert-Butylbenzene	ND		0.00515	0.00406	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Carbon disulfide	ND		0.0103	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Carbon tetrachloride	ND		0.00515	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chlorobenzene	ND		0.00515	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chloroethane	ND		0.0103	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chloroform	ND		0.00515	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chloromethane	ND	*-	0.0103	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2-Chlorotoluene	ND		0.00515	0.00410	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
4-Chlorotoluene	ND		0.00515	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0103	0.00437	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Dibromochloromethane	ND		0.00515	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dibromoethane (EDB)	ND		0.00515	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Dibromomethane	ND		0.00515	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dichlorobenzene	ND		0.00515	0.00478	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3-Dichlorobenzene	ND		0.00515	0.00413	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,4-Dichlorobenzene	ND		0.00515	0.00489	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0103	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1-Dichloroethane	ND		0.00515	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dichloroethane	ND		0.00515	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1-Dichloroethene	ND		0.00515	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
cis-1,2-Dichloroethene	ND		0.00515	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
trans-1,2-Dichloroethene	ND		0.00515	0.00321	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dichloropropane	ND		0.00515	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3-Dichloropropane	ND		0.00515	0.00394	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2,2-Dichloropropane	ND		0.00515	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1-Dichloropropene	ND		0.00515	0.00351	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
cis-1,3-Dichloropropene	ND		0.00515	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
trans-1,3-Dichloropropene	ND		0.00515	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethylbenzene	ND		0.00515	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Hexachlorobutadiene	ND		0.0103	0.00519	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2-Hexanone (MBK)	ND		0.0103	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Isopropylbenzene	ND		0.00515	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
4-Isopropyltoluene	ND		0.00515	0.00506	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Methyl tert-butyl ether	ND		0.00515	0.00297	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0103	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Methylene Chloride	ND		0.0103	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Naphthalene	ND		0.00515	0.00466	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00515	0.00436	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Styrene	ND		0.00515	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,1,2-Tetrachloroethane	ND		0.00515	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,2,2-Tetrachloroethane	ND		0.00515	0.00472	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Tetrachloroethene	ND		0.00515	0.00287	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Toluene	ND		0.00515	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,3-Trichlorobenzene	ND		0.00515	0.00435	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,4-Trichlorobenzene	ND		0.00515	0.00475	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3,5-Trichlorobenzene	ND		0.00515	0.00490	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,1-Trichloroethane	ND		0.00515	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,2-Trichloroethane	ND		0.00515	0.00389	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Trichloroethene	ND		0.00515	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00515	0.00394	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,3-Trichloropropane	ND		0.00515	0.00458	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,4-Trimethylbenzene	ND		0.00515	0.00436	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3,5-Trimethylbenzene	ND		0.00515	0.00438	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Vinyl chloride	ND		0.00515	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
m,p-Xylene	ND		0.00515	0.00704	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
o-Xylene	ND		0.00515	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Tetrahydrofuran	ND		0.0103	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethyl ether	ND		0.00515	0.00271	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Tert-amyl methyl ether	ND		0.00515	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethyl tert-butyl ether	ND		0.00515	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
di-Isopropyl ether	ND		0.00515	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
tert-Butanol	ND		0.103	0.0276	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,4-Dioxane	ND		0.103	0.0321	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
trans-1,4-Dichloro-2-butene	ND		0.0258	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethanol	ND		1.03	0.0639	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3-Dichloropropene, Total	ND		0.00515	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Xylenes, Total	ND		0.0155	0.00515	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.354	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,2,4-Trichlorobenzene	ND		0.354	0.0811	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,2-Dichlorobenzene	ND		0.354	0.0682	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,3-Dichlorobenzene	ND		0.354	0.0857	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,4-Dichlorobenzene	ND		0.354	0.0834	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1-Methylnaphthalene	ND		0.0716	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4,5-Trichlorophenol	ND		0.354	0.0406	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4,6-Trichlorophenol	ND		0.179	0.0438	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4-Dichlorophenol	ND		0.179	0.0713	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4-Dimethylphenol	ND		0.354	0.0519	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4-Dinitrophenol	**1.29**		0.354	0.0931	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,6-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Chloronaphthalene	ND		0.354	0.0819	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Chlorophenol	ND		0.179	0.0733	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Methylnaphthalene	ND		0.0716	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Methylphenol	ND		0.354	0.0517	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Nitroaniline	ND		0.354	0.0337	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Nitrophenol	ND		0.179	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
3 & 4 Methylphenol	ND		0.354	0.0671	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
3,3'-Dichlorobenzidine	ND		0.354	0.0585	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
3-Nitroaniline	ND		0.354	0.0317	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4,6-Dinitro-2-methylphenol	ND		0.354	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Bromophenyl phenyl ether	ND		0.354	0.0400	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Chloro-3-methylphenol	ND		0.354	0.0693	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Chlorophenyl phenyl ether	ND		0.354	0.0379	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Nitroaniline	ND		0.179	0.0565	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Nitrophenol	ND		0.354	0.123	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Acenaphthene	ND		0.0716	0.0571	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Acenaphthylene	ND		0.0716	0.0470	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Acetophenone	ND		0.179	0.0437	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Aniline	**0.0374**	**J**	0.354	0.0271	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Anthracene	ND		0.0716	0.0414	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Azobenzene/Diphenyldiazene	ND		0.354	0.0604	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzidine	ND	*- *1	0.708	0.105	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[a]anthracene	**0.0452**	**J**	0.0716	0.0402	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[a]pyrene	**0.0531**	**J**	0.0716	0.0512	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[b]fluoranthene	ND		0.0716	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[g,h,i]perylene	ND		0.0716	0.0559	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[k]fluoranthene	ND		0.0716	0.0557	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzoic acid	ND		0.354	0.244	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzyl alcohol	ND		0.354	0.0642	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Bis(2-chloroethoxy)methane	ND		0.354	0.0616	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Bis(2-chloroethyl)ether	ND		0.179	0.0586	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0797	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Bis(2-ethylhexyl) phthalate	**1.26**		0.179	0.0456	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Butyl benzyl phthalate	**0.125**	**J**	0.354	0.0355	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Carbazole	ND		0.179	0.0469	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Chrysene	**0.0663**	**J**	0.0716	0.0404	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Dibenz(a,h)anthracene	ND		0.0716	0.0546	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Dibenzofuran	ND		0.179	0.0620	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Diethyl phthalate	ND		0.354	0.0388	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Dimethyl phthalate	ND		0.354	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Di-n-butyl phthalate	**0.120**	**J**	0.354	0.0379	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Di-n-octyl phthalate	ND		0.354	0.0585	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Fluoranthene	**0.110**		0.0716	0.0420	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Fluorene	ND		0.0716	0.0653	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Hexachlorobenzene	ND		0.179	0.0497	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Hexachlorobutadiene	ND		0.179	0.0894	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0685	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Hexachloroethane	ND		0.179	0.0704	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0716	0.0607	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Isophorone	ND		0.179	0.0490	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Naphthalene	ND		0.0716	0.0687	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Nitrobenzene	ND		0.179	0.0827	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
N-Nitrosodimethylamine	ND		0.179	0.0470	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0713	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
N-Nitrosodiphenylamine	ND		0.354	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pentachloronitrobenzene	ND		0.354	0.0559	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pentachlorophenol	ND		0.354	0.145	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Phenanthrene	**0.118**		0.0716	0.0406	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Phenol	ND		0.354	0.0730	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pyrene	**0.162**		0.0716	0.0395	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pyridine	ND		0.354	0.0838	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
Phenol-d5 (Surr)	*92*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
2,4,6-Tribromophenol (Surr)	*99*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:01*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.362	0.185	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.362	0.155	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Ethylbenzene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Methyl tert-butyl ether	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
m,p-Xylene	ND		0.145	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Naphthalene	**0.0719**	**J B**	0.0723	0.0492	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
o-Xylene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Toluene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.362	0.185	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
C9-C10 Aromatics	ND		0.362	0.0506	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.362	0.155	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 15:49*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 15:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.102	0.0733	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1221	ND		0.102	0.0301	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1232	ND		0.102	0.0282	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5

Client Sample ID: 2023-SB-01-0204'
Date Collected: 02/27/23 12:05
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-8
Matrix: Solid
Percent Solids: 91.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.102	0.0161	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1248	ND		0.102	0.0318	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1254	**1.21**		0.102	0.0791	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1262	ND		0.102	0.0237	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1260	ND		0.102	0.0219	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1268	ND		0.102	0.0217	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*
Tetrachloro-m-xylene	*61*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoroheptanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorononanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorodecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorotridecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorotetradecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorobutanesulfonic acid	ND		2.18	0.436	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorohexanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
10:2 FTS	ND		2.18	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoropentanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoroheptanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorononanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorodecanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctanesulfonamide	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorohexadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorobutanoic acid	ND		2.18	0.872	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoropentanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NMeFOSE	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NMeFOSA	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NEtFOSE	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NEtFOSA	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
DONA	ND		3.27	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
11Cl-PF3OUdS	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorododecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoroundecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
8:2 Fluorotelomer sulfonic acid	ND		3.27	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*51*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
M2-8:2 FTS	*50*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
M2-6:2 FTS	*57*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C5 PFHxA	*61*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C4 PFHpA	*65*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C8 PFOA	*64*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C9 PFNA	*66*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C6 PFDA	*65*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C7 PFUnA	*62*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C2-PFDoDA	*61*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C2 PFTeDA	*63*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C3 PFBS	*88*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C3 PFHxS	*94*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C8 PFOS	*96*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 178*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C4 PFBA	*51*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C5 PFPeA	*52*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d7-N-MeFOSE-M	*112*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d5-NEtPFOSA	*91*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C3 HFPO-DA	*73*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.29	1.80	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Arsenic	**3.95**		3.18	1.48	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Barium	**26.1**		0.529	0.159	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Beryllium	**0.603**		0.529	0.106	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Cadmium	ND		0.529	0.106	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Chromium	**7.55**	**B**	1.59	0.371	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Lead	**7.11**		1.59	0.635	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Nickel	**3.65**		1.06	0.275	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Selenium	ND		5.29	1.59	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Silver	ND	^3+	1.06	0.423	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Thallium	ND		3.18	1.38	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Vanadium	**13.1**		1.06	0.455	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Zinc	**24.3**		2.12	0.847	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0246**	**J**	0.0604	0.0201	mg/Kg	☼	03/02/23 08:13	03/02/23 14:32	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0204'
Date Collected: 02/27/23 12:05
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-8
Matrix: Solid
Percent Solids: 91.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.3		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	91.7		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0406'
Date Collected: 02/27/23 12:10
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-9
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00529	0.00345	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Acetone	**0.0137**	**J B**	0.0529	0.0118	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Acrylonitrile	ND		0.00529	0.00317	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Benzene	ND		0.00529	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromobenzene	ND		0.00529	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromochloromethane	ND		0.00529	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromodichloromethane	ND		0.00529	0.00388	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromoform	ND		0.00529	0.00404	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromomethane	ND		0.0106	0.00659	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2-Butanone (MEK)	ND		0.0106	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
n-Butylbenzene	ND		0.0106	0.00567	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
sec-Butylbenzene	ND		0.00529	0.00426	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
tert-Butylbenzene	ND		0.00529	0.00417	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Carbon tetrachloride	ND		0.00529	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chlorobenzene	ND		0.00529	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chloroethane	ND		0.0106	0.00388	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chloroform	ND		0.00529	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chloromethane	ND	*-	0.0106	0.00406	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2-Chlorotoluene	ND		0.00529	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
4-Chlorotoluene	ND		0.00529	0.00459	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Dibromochloromethane	ND		0.00529	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dibromoethane (EDB)	ND		0.00529	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Dibromomethane	ND		0.00529	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dichlorobenzene	ND		0.00529	0.00491	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3-Dichlorobenzene	ND		0.00529	0.00424	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,4-Dichlorobenzene	ND		0.00529	0.00501	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1-Dichloroethane	ND		0.00529	0.00359	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dichloroethane	ND		0.00529	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1-Dichloroethene	ND		0.00529	0.00324	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
cis-1,2-Dichloroethene	ND		0.00529	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
trans-1,2-Dichloroethene	ND		0.00529	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dichloropropane	ND		0.00529	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3-Dichloropropane	ND		0.00529	0.00404	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2,2-Dichloropropane	ND		0.00529	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1-Dichloropropene	ND		0.00529	0.00360	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
cis-1,3-Dichloropropene	ND		0.00529	0.00345	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
trans-1,3-Dichloropropene	ND		0.00529	0.00402	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethylbenzene	ND		0.00529	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Hexachlorobutadiene	ND		0.0106	0.00532	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2-Hexanone (MBK)	ND		0.0106	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Isopropylbenzene	ND		0.00529	0.00400	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
4-Isopropyltoluene	ND		0.00529	0.00519	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Methyl tert-butyl ether	ND		0.00529	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Methylene Chloride	ND		0.0106	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Naphthalene	ND		0.00529	0.00478	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1

Client Sample ID: 2023-SB-01-0406' **Lab Sample ID: 620-10021-9**
Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00529	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Styrene	ND		0.00529	0.00409	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,1,2-Tetrachloroethane	ND		0.00529	0.00397	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,2,2-Tetrachloroethane	ND		0.00529	0.00484	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Tetrachloroethene	ND		0.00529	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Toluene	ND		0.00529	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,3-Trichlorobenzene	ND		0.00529	0.00446	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,4-Trichlorobenzene	ND		0.00529	0.00488	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3,5-Trichlorobenzene	ND		0.00529	0.00502	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,1-Trichloroethane	ND		0.00529	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,2-Trichloroethane	ND		0.00529	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Trichloroethene	ND		0.00529	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00529	0.00404	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,3-Trichloropropane	ND		0.00529	0.00470	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,4-Trimethylbenzene	ND		0.00529	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3,5-Trimethylbenzene	ND		0.00529	0.00449	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Vinyl chloride	ND		0.00529	0.00323	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
m,p-Xylene	ND		0.00529	0.00722	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
o-Xylene	ND		0.00529	0.00386	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethyl ether	ND		0.00529	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Tert-amyl methyl ether	ND		0.00529	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethyl tert-butyl ether	ND		0.00529	0.00348	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
di-Isopropyl ether	ND		0.00529	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,4-Dioxane	ND		0.106	0.0329	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethanol	ND		1.06	0.0656	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3-Dichloropropene, Total	ND		0.00529	0.00402	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Xylenes, Total	ND		0.0159	0.00529	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0667	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,2,4-Trichlorobenzene	ND		0.375	0.0859	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,2-Dichlorobenzene	ND		0.375	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,3-Dichlorobenzene	ND		0.375	0.0908	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,4-Dichlorobenzene	ND		0.375	0.0883	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1-Methylnaphthalene	ND		0.0758	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4,5-Trichlorophenol	ND		0.375	0.0430	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4-Dichlorophenol	ND		0.190	0.0756	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4-Dimethylphenol	ND		0.375	0.0550	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4-Dinitrophenol	**0.114**	**J**	0.375	0.0986	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0406'
Date Collected: 02/27/23 12:10
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-9
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,6-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Chloronaphthalene	ND		0.375	0.0867	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Chlorophenol	ND		0.190	0.0776	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Methylnaphthalene	ND		0.0758	0.0560	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Methylphenol	ND		0.375	0.0548	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Nitroaniline	ND		0.375	0.0357	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Nitrophenol	ND		0.190	0.0674	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
3 & 4 Methylphenol	ND		0.375	0.0710	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
3,3'-Dichlorobenzidine	ND		0.375	0.0619	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
3-Nitroaniline	ND		0.375	0.0335	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0674	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Bromophenyl phenyl ether	ND		0.375	0.0424	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Chloro-3-methylphenol	ND		0.375	0.0734	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0401	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Nitroaniline	ND		0.190	0.0599	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Acenaphthene	ND		0.0758	0.0605	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Acenaphthylene	ND		0.0758	0.0498	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Aniline	ND		0.375	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Anthracene	ND		0.0758	0.0439	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0640	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzidine	ND	*- *1	0.750	0.111	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[a]anthracene	ND		0.0758	0.0426	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[a]pyrene	ND		0.0758	0.0542	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[b]fluoranthene	ND		0.0758	0.0628	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[g,h,i]perylene	ND		0.0758	0.0592	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[k]fluoranthene	ND		0.0758	0.0590	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzoic acid	ND		0.375	0.258	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzyl alcohol	ND		0.375	0.0680	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0652	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Bis(2-chloroethyl)ether	ND		0.190	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0844	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Bis(2-ethylhexyl) phthalate	**0.366**		0.190	0.0483	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Butyl benzyl phthalate	ND		0.375	0.0376	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Chrysene	ND		0.0758	0.0428	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Dibenz(a,h)anthracene	ND		0.0758	0.0578	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Dibenzofuran	ND		0.190	0.0657	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Diethyl phthalate	ND		0.375	0.0411	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Dimethyl phthalate	ND		0.375	0.0489	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Di-n-butyl phthalate	ND		0.375	0.0401	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Di-n-octyl phthalate	ND		0.375	0.0619	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Fluoranthene	ND		0.0758	0.0444	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Fluorene	ND		0.0758	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Hexachlorobenzene	ND		0.190	0.0526	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Hexachlorobutadiene	ND		0.190	0.0947	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0725	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Hexachloroethane	ND		0.190	0.0746	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0758	0.0643	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Isophorone	ND		0.190	0.0519	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Naphthalene	ND		0.0758	0.0727	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Nitrobenzene	ND		0.190	0.0876	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
N-Nitrosodimethylamine	ND		0.190	0.0498	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0756	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
N-Nitrosodiphenylamine	ND		0.375	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pentachloronitrobenzene	ND		0.375	0.0592	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pentachlorophenol	ND		0.375	0.153	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Phenanthrene	ND		0.0758	0.0430	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Phenol	ND		0.375	0.0773	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pyrene	ND		0.0758	0.0418	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pyridine	ND		0.375	0.0888	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
Phenol-d5 (Surr)	*90*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
Terphenyl-d14	*74*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:30*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.250	0.128	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.250	0.107	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Ethylbenzene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Methyl tert-butyl ether	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Naphthalene	ND		0.0501	0.0340	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
o-Xylene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Toluene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 16:28*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 16:28*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0224	0.0161	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1221	ND		0.0224	0.00662	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1232	ND		0.0224	0.00621	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1

Client Sample ID: 2023-SB-01-0406' **Lab Sample ID: 620-10021-9**
Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0224	0.00354	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1248	ND		0.0224	0.00700	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1254	**0.369**		0.0224	0.0174	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1262	ND		0.0224	0.00522	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1260	ND		0.0224	0.00482	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1268	ND		0.0224	0.00477	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*
Tetrachloro-m-xylene	*57*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoroheptanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorononanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorodecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorotridecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorotetradecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorobutanesulfonic acid	ND		2.26	0.453	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorohexanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NEtFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NMeFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
10:2 FTS	ND		2.26	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoropentanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoroheptanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorononanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorodecanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctanesulfonamide	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorohexadecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctadecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorobutanoic acid	ND		2.26	0.905	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoropentanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NMeFOSE	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NMeFOSA	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NEtFOSE	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NEtFOSA	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
HFPODA	ND		2.26	1.13	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
DONA	ND		3.40	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
9Cl-PF3ONS	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
11Cl-PF3OUdS	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorododecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
4:2 Fluorotelomer sulfonic acid	ND		2.26	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoroundecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.26	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
8:2 Fluorotelomer sulfonic acid	ND		3.40	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
M2-6:2 FTS	*110*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C5 PFHxA	*117*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C4 PFHpA	*126*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C8 PFOA	*122*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C9 PFNA	*121*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C6 PFDA	*113*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C7 PFUnA	*107*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C2 PFTeDA	*116*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C3 PFHxS	*122*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C8 PFOS	*118*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d3-NMeFOSAA	*45*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d5-NEtFOSAA	*47*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C8 FOSA	*83*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C4 PFBA	*105*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C5 PFPeA	*104*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d3-NMePFOSA	*42*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d9-N-EtFOSE-M	*81*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d5-NEtPFOSA	*42*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C3 HFPO-DA	*127*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.90	1.67	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Arsenic	**2.65**	**J**	2.94	1.37	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Barium	**14.0**		0.490	0.147	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Beryllium	**0.412**	**J**	0.490	0.0980	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Cadmium	ND		0.490	0.0980	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Chromium	**3.92**	**B**	1.47	0.343	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Lead	**3.79**		1.47	0.588	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Nickel	**2.51**		0.980	0.255	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Selenium	ND		4.90	1.47	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Silver	ND	^3+	0.980	0.392	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Thallium	ND		2.94	1.27	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Vanadium	**5.86**		0.980	0.421	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Zinc	**12.0**		1.96	0.784	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0677	0.0226	mg/Kg	☼	03/02/23 08:13	03/02/23 14:34	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0406' **Lab Sample ID: 620-10021-9**
Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.8		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00451	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Acetone	ND		0.0451	0.0101	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Acrylonitrile	ND		0.00451	0.00270	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Benzene	ND		0.00451	0.00301	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromobenzene	ND		0.00451	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromochloromethane	ND		0.00451	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromodichloromethane	ND		0.00451	0.00331	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromoform	ND		0.00451	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromomethane	ND		0.00901	0.00561	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2-Butanone (MEK)	ND		0.00901	0.00359	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
n-Butylbenzene	ND		0.00901	0.00483	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
sec-Butylbenzene	ND		0.00451	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
tert-Butylbenzene	ND		0.00451	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Carbon disulfide	ND		0.00901	0.00316	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Carbon tetrachloride	ND		0.00451	0.00284	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chlorobenzene	ND		0.00451	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chloroethane	ND		0.00901	0.00331	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chloroform	ND		0.00451	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chloromethane	ND	*-	0.00901	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2-Chlorotoluene	ND		0.00451	0.00359	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
4-Chlorotoluene	ND		0.00451	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dibromo-3-Chloropropane	ND		0.00901	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Dibromochloromethane	ND		0.00451	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dibromoethane (EDB)	ND		0.00451	0.00323	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Dibromomethane	ND		0.00451	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dichlorobenzene	ND		0.00451	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3-Dichlorobenzene	ND		0.00451	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,4-Dichlorobenzene	ND		0.00451	0.00427	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00901	0.00241	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1-Dichloroethane	ND		0.00451	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dichloroethane	ND		0.00451	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1-Dichloroethene	ND		0.00451	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
cis-1,2-Dichloroethene	ND		0.00451	0.00260	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
trans-1,2-Dichloroethene	ND		0.00451	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dichloropropane	ND		0.00451	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3-Dichloropropane	ND		0.00451	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2,2-Dichloropropane	ND		0.00451	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1-Dichloropropene	ND		0.00451	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
cis-1,3-Dichloropropene	ND		0.00451	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
trans-1,3-Dichloropropene	ND		0.00451	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethylbenzene	ND		0.00451	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Hexachlorobutadiene	ND		0.00901	0.00453	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2-Hexanone (MBK)	ND		0.00901	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Isopropylbenzene	ND		0.00451	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
4-Isopropyltoluene	ND		0.00451	0.00442	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Methyl tert-butyl ether	ND		0.00451	0.00259	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.00901	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Methylene Chloride	ND		0.00901	0.00241	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Naphthalene	ND		0.00451	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00451	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Styrene	ND		0.00451	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,1,2-Tetrachloroethane	ND		0.00451	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,2,2-Tetrachloroethane	ND		0.00451	0.00413	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Tetrachloroethene	ND		0.00451	0.00250	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Toluene	ND		0.00451	0.00286	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,3-Trichlorobenzene	ND		0.00451	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,4-Trichlorobenzene	ND		0.00451	0.00415	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3,5-Trichlorobenzene	ND		0.00451	0.00428	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,1-Trichloroethane	ND		0.00451	0.00307	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,2-Trichloroethane	ND		0.00451	0.00340	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Trichloroethene	ND		0.00451	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00451	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,3-Trichloropropane	ND		0.00451	0.00400	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,4-Trimethylbenzene	ND		0.00451	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3,5-Trimethylbenzene	ND		0.00451	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Vinyl chloride	ND		0.00451	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
m,p-Xylene	ND		0.00451	0.00615	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
o-Xylene	ND		0.00451	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Tetrahydrofuran	ND		0.00901	0.00228	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethyl ether	ND		0.00451	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Tert-amyl methyl ether	ND		0.00451	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethyl tert-butyl ether	ND		0.00451	0.00296	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
di-Isopropyl ether	ND		0.00451	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
tert-Butanol	ND		0.0901	0.0241	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,4-Dioxane	ND		0.0901	0.0280	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
trans-1,4-Dichloro-2-butene	ND		0.0225	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethanol	ND		0.901	0.0559	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3-Dichloropropene, Total	ND		0.00451	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Xylenes, Total	ND		0.0135	0.00451	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.394	0.0702	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,2,4-Trichlorobenzene	ND		0.394	0.0904	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,2-Dichlorobenzene	ND		0.394	0.0760	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,3-Dichlorobenzene	ND		0.394	0.0955	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,4-Dichlorobenzene	ND		0.394	0.0929	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1-Methylnaphthalene	ND		0.0797	0.0669	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4,5-Trichlorophenol	ND		0.394	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4,6-Trichlorophenol	ND		0.200	0.0488	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4-Dichlorophenol	ND		0.200	0.0795	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4-Dimethylphenol	ND		0.394	0.0578	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4-Dinitrophenol	ND		0.394	0.104	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0608'
Date Collected: 02/27/23 12:15
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-10
Matrix: Solid
Percent Solids: 82.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.200	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,6-Dinitrotoluene	ND		0.200	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Chloronaphthalene	ND		0.394	0.0912	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Chlorophenol	ND		0.200	0.0816	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Methylnaphthalene	ND		0.0797	0.0589	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Methylphenol	ND		0.394	0.0576	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Nitroaniline	ND		0.394	0.0375	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Nitrophenol	ND		0.200	0.0709	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
3 & 4 Methylphenol	ND		0.394	0.0747	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
3,3'-Dichlorobenzidine	ND		0.394	0.0651	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
3-Nitroaniline	ND		0.394	0.0353	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4,6-Dinitro-2-methylphenol	ND		0.394	0.0709	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Bromophenyl phenyl ether	ND		0.394	0.0446	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Chloro-3-methylphenol	ND		0.394	0.0772	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Chloroaniline	ND		0.200	0.0302	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Chlorophenyl phenyl ether	ND		0.394	0.0422	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Nitroaniline	ND		0.200	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Nitrophenol	ND		0.394	0.137	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Acenaphthene	ND		0.0797	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Acenaphthylene	ND		0.0797	0.0524	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Acetophenone	ND		0.200	0.0486	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Aniline	ND		0.394	0.0302	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Anthracene	ND		0.0797	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Azobenzene/Diphenyldiazene	ND		0.394	0.0673	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzidine	ND	*- *1	0.789	0.117	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[a]anthracene	ND		0.0797	0.0448	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[a]pyrene	ND		0.0797	0.0570	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[b]fluoranthene	ND		0.0797	0.0661	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[g,h,i]perylene	ND		0.0797	0.0623	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[k]fluoranthene	ND		0.0797	0.0620	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzoic acid	ND		0.394	0.271	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzyl alcohol	ND		0.394	0.0715	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Bis(2-chloroethoxy)methane	ND		0.394	0.0686	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Bis(2-chloroethyl)ether	ND		0.200	0.0653	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
bis (2-chloroisopropyl) ether	ND		0.200	0.0888	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Bis(2-ethylhexyl) phthalate	ND		0.200	0.0508	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Butyl benzyl phthalate	ND		0.394	0.0396	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Carbazole	ND		0.200	0.0522	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Chrysene	ND		0.0797	0.0451	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Dibenz(a,h)anthracene	ND		0.0797	0.0608	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Dibenzofuran	ND		0.200	0.0691	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Diethyl phthalate	ND		0.394	0.0433	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Dimethyl phthalate	ND		0.394	0.0514	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Di-n-butyl phthalate	ND		0.394	0.0422	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Di-n-octyl phthalate	ND		0.394	0.0651	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Fluoranthene	ND		0.0797	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Fluorene	ND		0.0797	0.0728	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Hexachlorobenzene	ND		0.200	0.0553	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Hexachlorobutadiene	ND		0.200	0.0996	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.200	0.0763	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Hexachloroethane	ND		0.200	0.0784	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0797	0.0676	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Isophorone	ND		0.200	0.0546	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Naphthalene	ND		0.0797	0.0765	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Nitrobenzene	ND		0.200	0.0922	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
N-Nitrosodimethylamine	ND		0.200	0.0524	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
N-Nitrosodi-n-propylamine	ND		0.200	0.0795	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
N-Nitrosodiphenylamine	ND		0.394	0.0503	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pentachloronitrobenzene	ND		0.394	0.0623	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pentachlorophenol	ND		0.394	0.161	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Phenanthrene	ND		0.0797	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Phenol	ND		0.394	0.0813	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pyrene	ND		0.0797	0.0440	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pyridine	ND		0.394	0.0933	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
Nitrobenzene-d5 (Surr)	*93*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
Phenol-d5 (Surr)	*101*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:36*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.227	0.116	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.227	0.0973	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Ethylbenzene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Methyl tert-butyl ether	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
m,p-Xylene	ND		0.0909	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Naphthalene	ND		0.0455	0.0309	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
o-Xylene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Toluene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
C5-C8 Aliphatics (unadjusted)	ND		0.227	0.116	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
C9-C10 Aromatics	ND		0.227	0.0318	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
C9-C12 Aliphatics (unadjusted)	ND		0.227	0.0973	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:08*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:08*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0226	0.0163	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1221	ND		0.0226	0.00667	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1232	ND		0.0226	0.00625	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0226	0.00357	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1248	ND		0.0226	0.00705	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1254	ND		0.0226	0.0176	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1262	ND		0.0226	0.00526	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1260	ND		0.0226	0.00485	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1268	ND		0.0226	0.00481	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoroheptanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorononanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorodecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorotridecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorotetradecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorobutanesulfonic acid	ND		2.35	0.469	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorohexanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NEtFOSAA	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NMeFOSAA	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
10:2 FTS	ND		2.35	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoropentanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoroheptanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorononanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorodecanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctanesulfonamide	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorohexadecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctadecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorobutanoic acid	ND		2.35	0.939	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoropentanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NMeFOSE	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NMeFOSA	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NEtFOSE	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NEtFOSA	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
HFPODA	ND		2.35	1.17	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
DONA	ND		3.52	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
9Cl-PF3ONS	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
11Cl-PF3OUdS	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorododecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.35	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoroundecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.35	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.52	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
M2-8:2 FTS	*106*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
M2-6:2 FTS	*114*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C5 PFHxA	*128*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C4 PFHpA	*131*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C8 PFOA	*128*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C9 PFNA	*126*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C2-PFDoDA	*119*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C2 PFTeDA	*118*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C3 PFBS	*118*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C3 PFHxS	*126*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C8 PFOS	*126*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d3-NMeFOSAA	*46*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d5-NEtFOSAA	*48*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C4 PFBA	*122*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C5 PFPeA	*119*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d3-NMePFOSA	*107*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d5-NEtPFOSA	*111*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C3 HFPO-DA	*122*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.04	1.71	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Arsenic	**2.17**	**J**	3.02	1.41	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Barium	**17.9**		0.504	0.151	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Beryllium	**0.414**	**J**	0.504	0.101	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Cadmium	ND		0.504	0.101	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Chromium	**5.28**	**B**	1.51	0.352	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Lead	**2.42**		1.51	0.604	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Nickel	**3.09**		1.01	0.262	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Selenium	ND		5.04	1.51	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Silver	ND	^3+	1.01	0.403	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Thallium	ND		3.02	1.31	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Vanadium	**8.35**		1.01	0.433	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Zinc	**13.7**		2.01	0.806	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0669	0.0223	mg/Kg	☼	03/02/23 08:18	03/02/23 14:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0608'
Date Collected: 02/27/23 12:15
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-10
Matrix: Solid
Percent Solids: 82.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.3		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	82.7		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00463	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Acetone	ND		0.0463	0.0104	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Acrylonitrile	ND		0.00463	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Benzene	ND		0.00463	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromobenzene	ND		0.00463	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromochloromethane	ND		0.00463	0.00263	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromodichloromethane	ND		0.00463	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromoform	ND		0.00463	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromomethane	ND		0.00925	0.00576	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2-Butanone (MEK)	ND		0.00925	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
n-Butylbenzene	ND		0.00925	0.00496	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
sec-Butylbenzene	ND		0.00463	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
tert-Butylbenzene	ND		0.00463	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Carbon disulfide	ND		0.00925	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Carbon tetrachloride	ND		0.00463	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chlorobenzene	ND		0.00463	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chloroethane	ND		0.00925	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chloroform	ND		0.00463	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chloromethane	ND	*-	0.00925	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2-Chlorotoluene	ND		0.00463	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
4-Chlorotoluene	ND		0.00463	0.00401	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00925	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Dibromochloromethane	ND		0.00463	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dibromoethane (EDB)	ND		0.00463	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Dibromomethane	ND		0.00463	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dichlorobenzene	ND		0.00463	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3-Dichlorobenzene	ND		0.00463	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,4-Dichlorobenzene	ND		0.00463	0.00438	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00925	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1-Dichloroethane	ND		0.00463	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dichloroethane	ND		0.00463	0.00312	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1-Dichloroethene	ND		0.00463	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
cis-1,2-Dichloroethene	ND		0.00463	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
trans-1,2-Dichloroethene	ND		0.00463	0.00288	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dichloropropane	ND		0.00463	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3-Dichloropropane	ND		0.00463	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2,2-Dichloropropane	ND		0.00463	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1-Dichloropropene	ND		0.00463	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
cis-1,3-Dichloropropene	ND		0.00463	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
trans-1,3-Dichloropropene	ND		0.00463	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethylbenzene	ND		0.00463	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Hexachlorobutadiene	ND		0.00925	0.00465	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2-Hexanone (MBK)	ND		0.00925	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Isopropylbenzene	ND		0.00463	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
4-Isopropyltoluene	ND		0.00463	0.00454	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Methyl tert-butyl ether	ND		0.00463	0.00266	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.00925	0.00299	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Methylene Chloride	ND		0.00925	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Naphthalene	ND		0.00463	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00463	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Styrene	ND		0.00463	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,1,2-Tetrachloroethane	ND		0.00463	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.00463	0.00424	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Tetrachloroethene	ND		0.00463	0.00257	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Toluene	ND		0.00463	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,3-Trichlorobenzene	ND		0.00463	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,4-Trichlorobenzene	ND		0.00463	0.00426	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3,5-Trichlorobenzene	ND		0.00463	0.00439	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,1-Trichloroethane	ND		0.00463	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,2-Trichloroethane	ND		0.00463	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Trichloroethene	ND		0.00463	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00463	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,3-Trichloropropane	ND		0.00463	0.00411	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,4-Trimethylbenzene	ND		0.00463	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3,5-Trimethylbenzene	ND		0.00463	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Vinyl chloride	ND		0.00463	0.00282	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
m,p-Xylene	ND		0.00463	0.00632	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
o-Xylene	ND		0.00463	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Tetrahydrofuran	ND		0.00925	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethyl ether	ND		0.00463	0.00243	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Tert-amyl methyl ether	ND		0.00463	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethyl tert-butyl ether	ND		0.00463	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
di-Isopropyl ether	ND		0.00463	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
tert-Butanol	ND		0.0925	0.0248	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,4-Dioxane	ND		0.0925	0.0288	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
trans-1,4-Dichloro-2-butene	ND		0.0231	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethanol	ND		0.925	0.0574	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3-Dichloropropene, Total	ND		0.00463	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Xylenes, Total	ND		0.0139	0.00463	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0669	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,2,4-Trichlorobenzene	ND		0.376	0.0861	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,2-Dichlorobenzene	ND		0.376	0.0724	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,3-Dichlorobenzene	ND		0.376	0.0910	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,4-Dichlorobenzene	ND		0.376	0.0885	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1-Methylnaphthalene	ND		0.0760	0.0638	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4,6-Trichlorophenol	ND		0.190	0.0465	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4-Dichlorophenol	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4-Dimethylphenol	ND		0.376	0.0551	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4-Dinitrophenol	ND		0.376	0.0989	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0810'
Date Collected: 02/27/23 12:20
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-11
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Chloronaphthalene	ND		0.376	0.0869	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Chlorophenol	ND		0.190	0.0778	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Methylnaphthalene	ND		0.0760	0.0561	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Nitrophenol	ND		0.190	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
3,3'-Dichlorobenzidine	ND		0.376	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Chloro-3-methylphenol	ND		0.376	0.0736	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Nitroaniline	ND		0.190	0.0600	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Acenaphthene	ND		0.0760	0.0606	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Acenaphthylene	ND		0.0760	0.0499	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Acetophenone	ND		0.190	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Anthracene	ND		0.0760	0.0440	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0641	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzidine	ND	*- *1	0.752	0.111	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[a]anthracene	ND		0.0760	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[a]pyrene	ND		0.0760	0.0543	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[b]fluoranthene	ND		0.0760	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[g,h,i]perylene	ND		0.0760	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[k]fluoranthene	ND		0.0760	0.0591	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzyl alcohol	ND		0.376	0.0681	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0846	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Butyl benzyl phthalate	ND		0.376	0.0377	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Carbazole	ND		0.190	0.0498	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Chrysene	ND		0.0760	0.0429	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Dibenz(a,h)anthracene	ND		0.0760	0.0580	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Dibenzofuran	ND		0.190	0.0658	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Diethyl phthalate	ND		0.376	0.0412	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Di-n-octyl phthalate	ND		0.376	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Fluoranthene	ND		0.0760	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Fluorene	ND		0.0760	0.0694	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Hexachlorobenzene	ND		0.190	0.0527	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Hexachlorobutadiene	ND		0.190	0.0949	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0727	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Hexachloroethane	ND		0.190	0.0747	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0760	0.0645	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Isophorone	ND		0.190	0.0520	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Naphthalene	ND		0.0760	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Nitrobenzene	ND		0.190	0.0878	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
N-Nitrosodiphenylamine	ND		0.376	0.0479	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pentachloronitrobenzene	ND		0.376	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Phenanthrene	ND		0.0760	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Phenol	ND		0.376	0.0774	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pyrene	ND		0.0760	0.0419	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pyridine	ND		0.376	0.0889	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
2-Fluorophenol (Surr)	*110*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
Phenol-d5 (Surr)	*91*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:04*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.253	0.129	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.253	0.108	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Ethylbenzene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Methyl tert-butyl ether	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Naphthalene	ND		0.0506	0.0344	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
o-Xylene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Toluene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
C5-C8 Aliphatics (unadjusted)	ND		0.253	0.129	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
C9-C10 Aromatics	ND		0.253	0.0354	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
C9-C12 Aliphatics (unadjusted)	ND		0.253	0.108	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:47*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:47*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0224	0.0161	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1221	ND		0.0224	0.00662	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1232	ND		0.0224	0.00620	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0224	0.00354	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1248	ND		0.0224	0.00700	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1254	ND		0.0224	0.0174	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1262	ND		0.0224	0.00522	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1260	ND		0.0224	0.00482	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1268	ND		0.0224	0.00477	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*
Tetrachloro-m-xylene	*63*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoroheptanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorononanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorodecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorotridecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorotetradecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorobutanesulfonic acid	ND		2.25	0.451	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorohexanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NEtFOSAA	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NMeFOSAA	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
10:2 FTS	ND		2.25	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoropentanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoroheptanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorononanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorodecanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctanesulfonamide	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorohexadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorobutanoic acid	ND		2.25	0.901	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoropentanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NMeFOSE	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NMeFOSA	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NEtFOSE	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NEtFOSA	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
HFPODA	ND		2.25	1.13	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
DONA	ND		3.38	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
9Cl-PF3ONS	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
11Cl-PF3OUdS	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorododecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoroundecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
M2-8:2 FTS	*128*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
M2-6:2 FTS	*112*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C5 PFHxA	*130*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C4 PFHpA	*139*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C9 PFNA	*126*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C6 PFDA	*123*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C7 PFUnA	*121*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C2-PFDoDA	*122*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C2 PFTeDA	*112*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C3 PFBS	*121*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C3 PFHxS	*130*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d3-NMeFOSAA	*56*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d5-NEtFOSAA	*67*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C8 FOSA	*113*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C4 PFBA	*119*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C5 PFPeA	*115*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d7-N-MeFOSE-M	*111*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d9-N-EtFOSE-M	*109*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d5-NEtPFOSA	*106*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C3 HFPO-DA	*114*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.07	1.38	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Arsenic	**2.21**	**J**	2.44	1.14	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Barium	**13.8**		0.407	0.122	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Beryllium	**0.288**	**J**	0.407	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Cadmium	ND		0.407	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Chromium	**2.83**	**B**	1.22	0.285	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Lead	**1.91**		1.22	0.488	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Nickel	**1.67**		0.813	0.211	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Selenium	ND		4.07	1.22	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Silver	ND	^3+	0.813	0.325	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Thallium	ND		2.44	1.06	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Vanadium	**4.34**		0.813	0.350	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Zinc	**9.57**		1.63	0.651	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0680	0.0227	mg/Kg	☼	03/02/23 08:18	03/02/23 14:58	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0810'
Date Collected: 02/27/23 12:20
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-11
Matrix: Solid
Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00494	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Acetone	ND		0.0494	0.0111	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Acrylonitrile	ND		0.00494	0.00296	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Benzene	ND		0.00494	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromobenzene	ND		0.00494	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromochloromethane	ND		0.00494	0.00281	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromodichloromethane	ND		0.00494	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromoform	ND		0.00494	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromomethane	ND		0.00988	0.00616	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2-Butanone (MEK)	ND		0.00988	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
n-Butylbenzene	ND		0.00988	0.00530	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
sec-Butylbenzene	ND		0.00494	0.00398	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
tert-Butylbenzene	ND		0.00494	0.00389	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Carbon disulfide	ND		0.00988	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Carbon tetrachloride	ND		0.00494	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chlorobenzene	ND		0.00494	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chloroethane	ND		0.00988	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chloroform	ND		0.00494	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chloromethane	ND	*-	0.00988	0.00379	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2-Chlorotoluene	ND		0.00494	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
4-Chlorotoluene	ND		0.00494	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dibromo-3-Chloropropane	ND		0.00988	0.00419	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Dibromochloromethane	ND		0.00494	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dibromoethane (EDB)	ND		0.00494	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Dibromomethane	ND		0.00494	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dichlorobenzene	ND		0.00494	0.00459	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3-Dichlorobenzene	ND		0.00494	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,4-Dichlorobenzene	ND		0.00494	0.00468	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00988	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1-Dichloroethane	ND		0.00494	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dichloroethane	ND		0.00494	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1-Dichloroethene	ND		0.00494	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
cis-1,2-Dichloroethene	ND		0.00494	0.00286	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
trans-1,2-Dichloroethene	ND		0.00494	0.00307	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dichloropropane	ND		0.00494	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3-Dichloropropane	ND		0.00494	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2,2-Dichloropropane	ND		0.00494	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1-Dichloropropene	ND		0.00494	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
cis-1,3-Dichloropropene	ND		0.00494	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
trans-1,3-Dichloropropene	ND		0.00494	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethylbenzene	ND		0.00494	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Hexachlorobutadiene	ND		0.00988	0.00497	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2-Hexanone (MBK)	ND		0.00988	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Isopropylbenzene	ND		0.00494	0.00374	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
4-Isopropyltoluene	ND		0.00494	0.00485	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Methyl tert-butyl ether	ND		0.00494	0.00285	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
4-Methyl-2-pentanone (MIBK)	ND		0.00988	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Methylene Chloride	ND		0.00988	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Naphthalene	ND		0.00494	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00494	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Styrene	ND		0.00494	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,1,2-Tetrachloroethane	ND		0.00494	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,2,2-Tetrachloroethane	ND		0.00494	0.00453	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Tetrachloroethene	ND		0.00494	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Toluene	ND		0.00494	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,3-Trichlorobenzene	ND		0.00494	0.00417	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,4-Trichlorobenzene	ND		0.00494	0.00456	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3,5-Trichlorobenzene	ND		0.00494	0.00469	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,1-Trichloroethane	ND		0.00494	0.00337	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,2-Trichloroethane	ND		0.00494	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Trichloroethene	ND		0.00494	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Trichlorofluoromethane (Freon 11)	ND		0.00494	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,3-Trichloropropane	ND		0.00494	0.00439	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,4-Trimethylbenzene	ND		0.00494	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3,5-Trimethylbenzene	ND		0.00494	0.00420	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Vinyl chloride	ND		0.00494	0.00301	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
m,p-Xylene	ND		0.00494	0.00675	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
o-Xylene	ND		0.00494	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Tetrahydrofuran	ND		0.00988	0.00250	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethyl ether	ND		0.00494	0.00260	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Tert-amyl methyl ether	ND		0.00494	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethyl tert-butyl ether	ND		0.00494	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
di-Isopropyl ether	ND		0.00494	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
tert-Butanol	ND		0.0988	0.0265	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,4-Dioxane	ND		0.0988	0.0307	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethanol	ND		0.988	0.0613	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3-Dichloropropene, Total	ND		0.00494	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Xylenes, Total	ND		0.0148	0.00494	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.406	0.0722	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,2,4-Trichlorobenzene	ND		0.406	0.0929	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,2-Dichlorobenzene	ND		0.406	0.0782	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,3-Dichlorobenzene	ND		0.406	0.0982	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,4-Dichlorobenzene	ND		0.406	0.0955	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1-Methylnaphthalene	ND		0.0820	0.0689	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4,5-Trichlorophenol	ND		0.406	0.0465	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4,6-Trichlorophenol	ND		0.205	0.0502	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4-Dichlorophenol	ND		0.205	0.0818	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4-Dimethylphenol	ND		0.406	0.0595	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4-Dinitrophenol	ND		0.406	0.107	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-1012'
Date Collected: 02/27/23 12:25
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-12
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.205	0.0481	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,6-Dinitrotoluene	ND		0.205	0.0481	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Chloronaphthalene	ND		0.406	0.0938	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Chlorophenol	ND		0.205	0.0840	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Methylnaphthalene	ND		0.0820	0.0606	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Methylphenol	ND		0.406	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Nitroaniline	ND		0.406	0.0386	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Nitrophenol	ND		0.205	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
3 & 4 Methylphenol	ND		0.406	0.0768	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
3,3'-Dichlorobenzidine	ND		0.406	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
3-Nitroaniline	ND		0.406	0.0363	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4,6-Dinitro-2-methylphenol	ND		0.406	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Bromophenyl phenyl ether	ND		0.406	0.0459	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Chloro-3-methylphenol	ND		0.406	0.0794	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Chloroaniline	ND		0.205	0.0311	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Chlorophenyl phenyl ether	ND		0.406	0.0434	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Nitroaniline	ND		0.205	0.0648	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Nitrophenol	ND		0.406	0.141	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Acenaphthene	ND		0.0820	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Acenaphthylene	ND		0.0820	0.0539	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Acetophenone	ND		0.205	0.0500	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Aniline	ND		0.406	0.0311	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Anthracene	ND		0.0820	0.0475	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Azobenzene/Diphenyldiazene	ND		0.406	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzidine	ND	*- *1	0.811	0.120	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[a]anthracene	ND		0.0820	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[a]pyrene	ND		0.0820	0.0586	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[b]fluoranthene	ND		0.0820	0.0680	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[g,h,i]perylene	ND		0.0820	0.0641	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[k]fluoranthene	ND		0.0820	0.0638	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzoic acid	ND		0.406	0.279	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzyl alcohol	ND		0.406	0.0735	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Bis(2-chloroethoxy)methane	ND		0.406	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Bis(2-chloroethyl)ether	ND		0.205	0.0671	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
bis (2-chloroisopropyl) ether	ND		0.205	0.0913	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Bis(2-ethylhexyl) phthalate	ND		0.205	0.0523	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Butyl benzyl phthalate	ND		0.406	0.0407	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Carbazole	ND		0.205	0.0537	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Chrysene	ND		0.0820	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Dibenz(a,h)anthracene	ND		0.0820	0.0626	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Dibenzofuran	ND		0.205	0.0711	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Diethyl phthalate	ND		0.406	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Dimethyl phthalate	ND		0.406	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Di-n-butyl phthalate	ND		0.406	0.0434	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Di-n-octyl phthalate	ND		0.406	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Fluoranthene	ND		0.0820	0.0481	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Fluorene	ND		0.0820	0.0749	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Hexachlorobenzene	ND		0.205	0.0569	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Hexachlorobutadiene	ND		0.205	0.102	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.205	0.0784	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Hexachloroethane	ND		0.205	0.0807	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Indeno[1,2,3-cd]pyrene	ND		0.0820	0.0696	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Isophorone	ND		0.205	0.0562	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Naphthalene	ND		0.0820	0.0787	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Nitrobenzene	ND		0.205	0.0948	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
N-Nitrosodimethylamine	ND		0.205	0.0539	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
N-Nitrosodi-n-propylamine	ND		0.205	0.0818	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
N-Nitrosodiphenylamine	ND		0.406	0.0518	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pentachloronitrobenzene	ND		0.406	0.0641	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pentachlorophenol	ND		0.406	0.166	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Phenanthrene	ND		0.0820	0.0465	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Phenol	ND		0.406	0.0836	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pyrene	ND		0.0820	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pyridine	ND		0.406	0.0960	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
Phenol-d5 (Surr)	*79*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
Terphenyl-d14	*90*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:32*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.249	0.128	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.249	0.107	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Ethylbenzene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Methyl tert-butyl ether	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
m,p-Xylene	ND		0.0996	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Naphthalene	ND		0.0498	0.0339	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
o-Xylene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Toluene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
C5-C8 Aliphatics (unadjusted)	ND		0.249	0.128	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
C9-C10 Aromatics	ND		0.249	0.0349	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
C9-C12 Aliphatics (unadjusted)	ND		0.249	0.107	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 18:26*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 18:26*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0238	0.0172	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1221	ND		0.0238	0.00705	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1232	ND		0.0238	0.00661	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0238	0.00377	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1248	ND		0.0238	0.00745	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1254	ND		0.0238	0.0186	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1262	ND		0.0238	0.00556	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1260	ND		0.0238	0.00513	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1268	ND		0.0238	0.00508	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*
Tetrachloro-m-xylene	*83*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoroheptanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorononanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorodecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorotridecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorotetradecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorobutanesulfonic acid	ND		2.48	0.495	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorohexanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NEtFOSAA	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NMeFOSAA	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
10:2 FTS	ND		2.48	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoropentanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoroheptanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorononanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorodecanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctanesulfonamide	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorohexadecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctadecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorobutanoic acid	ND		2.48	0.990	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoropentanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NMeFOSE	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NMeFOSA	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NEtFOSE	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NEtFOSA	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
HFPODA	ND		2.48	1.24	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
DONA	ND		3.71	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
9Cl-PF3ONS	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
11Cl-PF3OUdS	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorododecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
4:2 Fluorotelomer sulfonic acid	ND		2.48	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoroundecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.48	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
8:2 Fluorotelomer sulfonic acid	ND		3.71	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*122*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
M2-8:2 FTS	*138*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
M2-6:2 FTS	*131*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C5 PFHxA	*138*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C4 PFHpA	*143*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C8 PFOA	*134*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C9 PFNA	*130*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C6 PFDA	*128*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C7 PFUnA	*134*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C2-PFDoDA	*133*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C2 PFTeDA	*123*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C3 PFBS	*126*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C3 PFHxS	*137*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d3-NMeFOSAA	*105*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d5-NEtFOSAA	*105*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C8 FOSA	*115*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C4 PFBA	*130*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C5 PFPeA	*128*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d7-N-MeFOSE-M	*118*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d3-NMePFOSA	*112*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d9-N-EtFOSE-M	*114*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d5-NEtPFOSA	*115*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C3 HFPO-DA	*143*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:08*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.33	1.47	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Arsenic	**1.30**	**J**	2.60	1.21	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Barium	**15.1**		0.433	0.130	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Beryllium	**0.317**	**J**	0.433	0.0865	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Cadmium	ND		0.433	0.0865	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Chromium	**5.82**	**B**	1.30	0.303	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Lead	**2.04**		1.30	0.519	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Nickel	**2.50**		0.865	0.225	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Selenium	ND		4.33	1.30	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Silver	ND	^3+	0.865	0.346	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Thallium	ND		2.60	1.13	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Vanadium	**5.78**		0.865	0.372	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Zinc	**9.93**		1.73	0.692	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0685	0.0228	mg/Kg	☼	03/02/23 08:18	03/02/23 15:04	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-1012'
Date Collected: 02/27/23 12:25
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-12
Matrix: Solid
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	80.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00482	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Acetone	ND		0.0482	0.0108	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Acrylonitrile	ND		0.00482	0.00289	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Benzene	ND		0.00482	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromobenzene	ND		0.00482	0.00321	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromochloromethane	ND		0.00482	0.00274	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromodichloromethane	ND		0.00482	0.00354	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromoform	ND		0.00482	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromomethane	ND		0.00963	0.00600	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2-Butanone (MEK)	ND		0.00963	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
n-Butylbenzene	ND		0.00963	0.00516	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
sec-Butylbenzene	ND		0.00482	0.00388	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
tert-Butylbenzene	ND		0.00482	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Carbon disulfide	ND		0.00963	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Carbon tetrachloride	ND		0.00482	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chlorobenzene	ND		0.00482	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chloroethane	ND		0.00963	0.00354	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chloroform	ND		0.00482	0.00324	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chloromethane	ND	*-	0.00963	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2-Chlorotoluene	ND		0.00482	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
4-Chlorotoluene	ND		0.00482	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dibromo-3-Chloropropane	ND		0.00963	0.00409	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Dibromochloromethane	ND		0.00482	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dibromoethane (EDB)	ND		0.00482	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Dibromomethane	ND		0.00482	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dichlorobenzene	ND		0.00482	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3-Dichlorobenzene	ND		0.00482	0.00386	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,4-Dichlorobenzene	ND		0.00482	0.00457	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00963	0.00258	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1-Dichloroethane	ND		0.00482	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dichloroethane	ND		0.00482	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1-Dichloroethene	ND		0.00482	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
cis-1,2-Dichloroethene	ND		0.00482	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
trans-1,2-Dichloroethene	ND		0.00482	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dichloropropane	ND		0.00482	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3-Dichloropropane	ND		0.00482	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2,2-Dichloropropane	ND		0.00482	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1-Dichloropropene	ND		0.00482	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
cis-1,3-Dichloropropene	ND		0.00482	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
trans-1,3-Dichloropropene	ND		0.00482	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethylbenzene	ND		0.00482	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Hexachlorobutadiene	ND		0.00963	0.00485	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2-Hexanone (MBK)	ND		0.00963	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Isopropylbenzene	ND		0.00482	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
4-Isopropyltoluene	ND		0.00482	0.00473	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Methyl tert-butyl ether	ND		0.00482	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.00963	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Methylene Chloride	ND		0.00963	0.00258	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Naphthalene	ND		0.00482	0.00435	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10021-13**
Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00482	0.00408	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Styrene	ND		0.00482	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,1,2-Tetrachloroethane	ND		0.00482	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,2,2-Tetrachloroethane	ND		0.00482	0.00441	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Tetrachloroethene	ND		0.00482	0.00268	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Toluene	ND		0.00482	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,3-Trichlorobenzene	ND		0.00482	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,4-Trichlorobenzene	ND		0.00482	0.00444	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3,5-Trichlorobenzene	ND		0.00482	0.00458	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,1-Trichloroethane	ND		0.00482	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,2-Trichloroethane	ND		0.00482	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Trichloroethene	ND		0.00482	0.00324	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Trichlorofluoromethane (Freon 11)	ND		0.00482	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,3-Trichloropropane	ND		0.00482	0.00428	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,4-Trimethylbenzene	ND		0.00482	0.00408	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3,5-Trimethylbenzene	ND		0.00482	0.00409	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Vinyl chloride	ND		0.00482	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
m,p-Xylene	ND		0.00482	0.00658	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
o-Xylene	ND		0.00482	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Tetrahydrofuran	ND		0.00963	0.00244	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethyl ether	ND		0.00482	0.00253	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Tert-amyl methyl ether	ND		0.00482	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethyl tert-butyl ether	ND		0.00482	0.00317	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
di-Isopropyl ether	ND		0.00482	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
tert-Butanol	ND		0.0963	0.0258	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,4-Dioxane	ND		0.0963	0.0300	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
trans-1,4-Dichloro-2-butene	ND		0.0241	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethanol	ND		0.963	0.0597	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3-Dichloropropene, Total	ND		0.00482	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Xylenes, Total	ND		0.0145	0.00482	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0668	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,2,4-Trichlorobenzene	ND		0.376	0.0861	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,2-Dichlorobenzene	ND		0.376	0.0724	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,3-Dichlorobenzene	ND		0.376	0.0910	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,4-Dichlorobenzene	ND		0.376	0.0885	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1-Methylnaphthalene	ND		0.0759	0.0638	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4,5-Trichlorophenol	ND		0.376	0.0430	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4-Dichlorophenol	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4-Dimethylphenol	ND		0.376	0.0551	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4-Dinitrophenol	ND		0.376	0.0988	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Chloronaphthalene	ND		0.376	0.0869	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Chlorophenol	ND		0.190	0.0778	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Methylnaphthalene	ND		0.0759	0.0561	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Nitroaniline	ND		0.376	0.0357	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Nitrophenol	ND		0.190	0.0675	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
3,3'-Dichlorobenzidine	ND		0.376	0.0620	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0675	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Chloro-3-methylphenol	ND		0.376	0.0735	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Nitroaniline	ND		0.190	0.0600	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Acenaphthene	ND		0.0759	0.0606	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Acenaphthylene	ND		0.0759	0.0499	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Anthracene	ND		0.0759	0.0439	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0641	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzidine	ND	*- *1	0.751	0.111	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[a]anthracene	ND		0.0759	0.0427	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[a]pyrene	ND		0.0759	0.0543	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[b]fluoranthene	ND		0.0759	0.0630	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[g,h,i]perylene	ND		0.0759	0.0593	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[k]fluoranthene	ND		0.0759	0.0591	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzoic acid	ND		0.376	0.258	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzyl alcohol	ND		0.376	0.0681	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0653	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0846	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Bis(2-ethylhexyl) phthalate	**0.536**		0.190	0.0484	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Butyl benzyl phthalate	**0.0477**	**J**	0.376	0.0377	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Chrysene	ND		0.0759	0.0429	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Dibenz(a,h)anthracene	ND		0.0759	0.0579	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Dibenzofuran	ND		0.190	0.0658	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Diethyl phthalate	ND		0.376	0.0412	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Di-n-octyl phthalate	ND		0.376	0.0620	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Fluoranthene	ND		0.0759	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Fluorene	ND		0.0759	0.0693	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Hexachlorobenzene	ND		0.190	0.0527	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Hexachlorobutadiene	ND		0.190	0.0948	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0726	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Hexachloroethane	ND		0.190	0.0747	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0759	0.0644	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Isophorone	ND		0.190	0.0520	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Naphthalene	ND		0.0759	0.0729	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Nitrobenzene	ND		0.190	0.0878	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
N-Nitrosodiphenylamine	ND		0.376	0.0479	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pentachloronitrobenzene	ND		0.376	0.0593	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Phenanthrene	ND		0.0759	0.0430	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Phenol	ND		0.376	0.0774	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pyrene	ND		0.0759	0.0419	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pyridine	ND		0.376	0.0889	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
Phenol-d5 (Surr)	*89*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
2,4,6-Tribromophenol (Surr)	*108*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:46*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.254	0.130	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.254	0.109	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Ethylbenzene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Methyl tert-butyl ether	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Naphthalene	ND		0.0509	0.0346	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
o-Xylene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Toluene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
C5-C8 Aliphatics (unadjusted)	ND		0.254	0.130	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
C9-C10 Aromatics	ND		0.254	0.0356	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
C9-C12 Aliphatics (unadjusted)	ND		0.254	0.109	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:06*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:06*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1232	ND		0.0230	0.00638	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10021-13**
Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1254	**0.432**		0.0230	0.0179	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoroheptanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorononanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorodecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorotridecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorotetradecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorobutanesulfonic acid	ND		2.26	0.451	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorohexanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NEtFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NMeFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
10:2 FTS	ND		2.26	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoropentanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoroheptanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorononanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorodecanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctanesulfonamide	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorohexadecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctadecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorobutanoic acid	ND		2.26	0.902	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoropentanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NMeFOSE	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NMeFOSA	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NEtFOSE	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NEtFOSA	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
HFPODA	ND		2.26	1.13	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
DONA	ND		3.38	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
9Cl-PF3ONS	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
11Cl-PF3OUdS	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorododecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.26	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoroundecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10021-13**
Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.26	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
M2-8:2 FTS	*76*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
M2-6:2 FTS	*84*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C5 PFHxA	*78*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C4 PFHpA	*86*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C8 PFOA	*81*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C9 PFNA	*79*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C6 PFDA	*76*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C7 PFUnA	*83*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C2-PFDoDA	*98*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C2 PFTeDA	*108*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C3 PFBS	*78*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C3 PFHxS	*86*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C8 PFOS	*82*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d3-NMeFOSAA	*41*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d5-NEtFOSAA	*45*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C8 FOSA	*67*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C4 PFBA	*67*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C5 PFPeA	*67*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d7-N-MeFOSE-M	*63*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d3-NMePFOSA	*22*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d9-N-EtFOSE-M	*64*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d5-NEtPFOSA	*22*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C3 HFPO-DA	*63*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:19*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.01	1.70	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Arsenic	**2.14**	**J**	3.01	1.40	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Barium	**13.8**		0.501	0.150	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Beryllium	**0.368**	**J**	0.501	0.100	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Cadmium	ND		0.501	0.100	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Chromium	**3.83**	**B**	1.50	0.351	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Lead	**4.04**		1.50	0.602	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Nickel	**2.19**		1.00	0.261	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Selenium	ND		5.01	1.50	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Silver	ND	^3+	1.00	0.401	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Thallium	ND		3.01	1.30	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Vanadium	**5.52**		1.00	0.431	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Zinc	**10.8**		2.01	0.802	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0692	0.0231	mg/Kg	☼	03/02/23 08:18	03/02/23 15:02	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.7		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.3		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0002'
Date Collected: 02/27/23 13:30
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-14
Matrix: Solid
Percent Solids: 92.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00489	0.00319	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Acetone	ND		0.0489	0.0110	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Acrylonitrile	ND		0.00489	0.00294	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Benzene	ND		0.00489	0.00327	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromobenzene	ND		0.00489	0.00326	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromochloromethane	ND		0.00489	0.00278	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromodichloromethane	ND		0.00489	0.00359	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromoform	ND		0.00489	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromomethane	ND		0.00978	0.00610	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2-Butanone (MEK)	ND		0.00978	0.00389	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
n-Butylbenzene	ND		0.00978	0.00524	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
sec-Butylbenzene	ND		0.00489	0.00394	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
tert-Butylbenzene	ND		0.00489	0.00385	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Carbon disulfide	ND		0.00978	0.00343	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Carbon tetrachloride	ND		0.00489	0.00308	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chlorobenzene	ND		0.00489	0.00358	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chloroethane	ND		0.00978	0.00359	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chloroform	ND		0.00489	0.00329	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chloromethane	ND		0.00978	0.00376	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2-Chlorotoluene	ND		0.00489	0.00389	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
4-Chlorotoluene	ND		0.00489	0.00425	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dibromo-3-Chloropropane	ND		0.00978	0.00415	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Dibromochloromethane	ND		0.00489	0.00324	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dibromoethane (EDB)	ND		0.00489	0.00351	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Dibromomethane	ND		0.00489	0.00288	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dichlorobenzene	ND		0.00489	0.00454	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3-Dichlorobenzene	ND		0.00489	0.00392	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,4-Dichlorobenzene	ND		0.00489	0.00464	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00978	0.00262	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1-Dichloroethane	ND		0.00489	0.00332	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dichloroethane	ND		0.00489	0.00330	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1-Dichloroethene	ND		0.00489	0.00299	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
cis-1,2-Dichloroethene	ND		0.00489	0.00283	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
trans-1,2-Dichloroethene	ND		0.00489	0.00304	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dichloropropane	ND		0.00489	0.00324	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3-Dichloropropane	ND		0.00489	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2,2-Dichloropropane	ND		0.00489	0.00338	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1-Dichloropropene	ND		0.00489	0.00333	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
cis-1,3-Dichloropropene	ND		0.00489	0.00319	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
trans-1,3-Dichloropropene	ND		0.00489	0.00372	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethylbenzene	ND		0.00489	0.00349	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Hexachlorobutadiene	ND		0.00978	0.00492	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2-Hexanone (MBK)	ND		0.00978	0.00288	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Isopropylbenzene	ND		0.00489	0.00370	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
4-Isopropyltoluene	ND		0.00489	0.00480	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Methyl tert-butyl ether	ND		0.00489	0.00282	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.00978	0.00316	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Methylene Chloride	ND		0.00978	0.00262	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Naphthalene	ND		0.00489	0.00442	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00489	0.00414	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Styrene	ND		0.00489	0.00379	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,1,2-Tetrachloroethane	ND		0.00489	0.00367	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,2,2-Tetrachloroethane	ND		0.00489	0.00448	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Tetrachloroethene	ND		0.00489	0.00272	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Toluene	ND		0.00489	0.00310	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,3-Trichlorobenzene	ND		0.00489	0.00413	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,4-Trichlorobenzene	ND		0.00489	0.00451	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3,5-Trichlorobenzene	ND		0.00489	0.00465	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,1-Trichloroethane	ND		0.00489	0.00334	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,2-Trichloroethane	ND		0.00489	0.00369	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Trichloroethene	ND		0.00489	0.00329	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Trichlorofluoromethane (Freon 11)	ND		0.00489	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,3-Trichloropropane	ND		0.00489	0.00434	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,4-Trimethylbenzene	ND		0.00489	0.00414	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3,5-Trimethylbenzene	ND		0.00489	0.00416	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Vinyl chloride	ND		0.00489	0.00298	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
m,p-Xylene	ND		0.00489	0.00668	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
o-Xylene	ND		0.00489	0.00357	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Tetrahydrofuran	ND		0.00978	0.00248	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethyl ether	ND		0.00489	0.00257	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Tert-amyl methyl ether	ND		0.00489	0.00386	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethyl tert-butyl ether	ND		0.00489	0.00322	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
di-Isopropyl ether	ND		0.00489	0.00349	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
tert-Butanol	ND		0.0978	0.0262	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,4-Dioxane	ND		0.0978	0.0304	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
trans-1,4-Dichloro-2-butene	ND		0.0245	0.00361	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethanol	ND		0.978	0.0607	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3-Dichloropropene, Total	ND		0.00489	0.00372	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Xylenes, Total	ND		0.0147	0.00489	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		1.76	0.312	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,2,4-Trichlorobenzene	ND		1.76	0.402	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,2-Dichlorobenzene	ND		1.76	0.338	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,3-Dichlorobenzene	ND		1.76	0.425	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,4-Dichlorobenzene	ND		1.76	0.413	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1-Methylnaphthalene	ND		0.355	0.298	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4,5-Trichlorophenol	ND		1.76	0.201	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4,6-Trichlorophenol	ND		0.889	0.217	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4-Dichlorophenol	ND		0.889	0.354	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4-Dimethylphenol	ND		1.76	0.258	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4-Dinitrophenol	ND		1.76	0.462	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0002'
Lab Sample ID: 620-10021-14
Date Collected: 02/27/23 13:30
Matrix: Solid
Date Received: 02/27/23 16:50
Percent Solids: 92.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.889	0.208	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,6-Dinitrotoluene	ND		0.889	0.208	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Chloronaphthalene	ND		1.76	0.406	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Chlorophenol	ND		0.889	0.363	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Methylnaphthalene	ND		0.355	0.262	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Methylphenol	ND		1.76	0.256	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Nitroaniline	ND		1.76	0.167	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Nitrophenol	ND		0.889	0.316	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
3 & 4 Methylphenol	ND		1.76	0.333	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
3,3'-Dichlorobenzidine	ND		1.76	0.290	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
3-Nitroaniline	ND		1.76	0.157	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4,6-Dinitro-2-methylphenol	ND		1.76	0.316	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Bromophenyl phenyl ether	ND		1.76	0.198	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Chloro-3-methylphenol	ND		1.76	0.344	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Chloroaniline	ND		0.889	0.135	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Chlorophenyl phenyl ether	ND		1.76	0.188	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Nitroaniline	ND		0.889	0.280	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Nitrophenol	ND		1.76	0.612	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Acenaphthene	ND		0.355	0.283	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Acenaphthylene	**1.34**		0.355	0.233	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Acetophenone	ND		0.889	0.217	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Aniline	ND		1.76	0.135	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Anthracene	**0.656**		0.355	0.205	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Azobenzene/Diphenyldiazene	ND		1.76	0.300	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzidine	ND	*- *1	3.51	0.520	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[a]anthracene	**1.21**		0.355	0.200	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[a]pyrene	**2.09**		0.355	0.254	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[b]fluoranthene	**1.05**		0.355	0.294	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[g,h,i]perylene	**1.77**		0.355	0.277	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[k]fluoranthene	**1.12**		0.355	0.276	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzoic acid	ND		1.76	1.21	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzyl alcohol	ND		1.76	0.318	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Bis(2-chloroethoxy)methane	ND		1.76	0.305	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Bis(2-chloroethyl)ether	ND		0.889	0.291	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
bis (2-chloroisopropyl) ether	ND		0.889	0.395	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Bis(2-ethylhexyl) phthalate	ND		0.889	0.226	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Butyl benzyl phthalate	ND		1.76	0.176	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Carbazole	ND		0.889	0.233	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Chrysene	**1.51**		0.355	0.201	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Dibenz(a,h)anthracene	**0.525**		0.355	0.271	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Dibenzofuran	ND		0.889	0.308	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Diethyl phthalate	ND		1.76	0.193	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Dimethyl phthalate	ND		1.76	0.229	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Di-n-butyl phthalate	**0.770**	**J**	1.76	0.188	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Di-n-octyl phthalate	ND		1.76	0.290	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Fluoranthene	**1.00**		0.355	0.208	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Fluorene	ND		0.355	0.324	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Hexachlorobenzene	ND		0.889	0.246	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Hexachlorobutadiene	ND		0.889	0.443	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.889	0.339	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Hexachloroethane	ND		0.889	0.349	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Indeno[1,2,3-cd]pyrene	**1.08**		0.355	0.301	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Isophorone	ND		0.889	0.243	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Naphthalene	ND		0.355	0.341	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Nitrobenzene	ND		0.889	0.410	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
N-Nitrosodimethylamine	ND		0.889	0.233	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
N-Nitrosodi-n-propylamine	ND		0.889	0.354	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
N-Nitrosodiphenylamine	ND		1.76	0.224	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pentachloronitrobenzene	ND		1.76	0.277	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pentachlorophenol	ND		1.76	0.718	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Phenanthrene	**0.620**		0.355	0.201	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Phenol	ND		1.76	0.362	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pyrene	**2.50**		0.355	0.196	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pyridine	ND		1.76	0.416	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*103*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
2-Fluorophenol (Surr)	*96*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
2,4,6-Tribromophenol (Surr)	*128*	*S1+*	*15 - 110*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.288	0.147	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.288	0.123	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Ethylbenzene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Methyl tert-butyl ether	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
m,p-Xylene	ND		0.115	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Naphthalene	ND		0.0575	0.0391	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
o-Xylene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Toluene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
C5-C8 Aliphatics (unadjusted)	ND		0.288	0.147	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
C9-C10 Aromatics	ND		0.288	0.0403	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
C9-C12 Aliphatics (unadjusted)	ND		0.288	0.123	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:45*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:45*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0423	0.0305	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1221	ND		0.0423	0.0125	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1232	ND		0.0423	0.0117	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0423	0.00669	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1248	ND		0.0423	0.0132	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1254	**0.967**		0.0423	0.0329	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1262	ND		0.0423	0.00986	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1260	ND		0.0423	0.00910	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1268	ND		0.0423	0.00901	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*
Tetrachloro-m-xylene	*60*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoroheptanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorononanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorodecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorotridecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorotetradecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorobutanesulfonic acid	ND		2.13	0.427	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorohexanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NEtFOSAA	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NMeFOSAA	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
10:2 FTS	ND		2.13	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoropentanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoroheptanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorononanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorodecanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctanesulfonamide	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorohexadecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctadecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorobutanoic acid	ND		2.13	0.854	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoropentanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NMeFOSE	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NMeFOSA	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NEtFOSE	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NEtFOSA	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
HFPODA	ND		2.13	1.07	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
DONA	ND		3.20	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
9Cl-PF3ONS	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
11Cl-PF3OUdS	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorododecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.13	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoroundecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.13	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.20	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
M2-8:2 FTS	*150*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C5 PFHxA	*125*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C8 PFOA	*122*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C9 PFNA	*134*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C6 PFDA	*122*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C2-PFDoDA	*126*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C3 PFBS	*120*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C3 PFHxS	*123*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C8 PFOS	*130*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d3-NMeFOSAA	*68*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d5-NEtFOSAA	*84*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C8 FOSA	*69*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C4 PFBA	*121*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C5 PFPeA	*120*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d7-N-MeFOSE-M	*61*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d3-NMePFOSA	*22*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d9-N-EtFOSE-M	*72*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d5-NEtPFOSA	*26*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C3 HFPO-DA	*117*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.49	1.53	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Arsenic	**4.30**		2.70	1.26	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Barium	**65.2**		0.449	0.135	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Beryllium	**0.627**		0.449	0.0898	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Cadmium	**0.152**	**J**	0.449	0.0898	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Chromium	**6.79**	**B**	1.35	0.314	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Lead	**29.1**		1.35	0.539	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Nickel	**3.81**		0.898	0.234	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Selenium	ND		4.49	1.35	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Silver	ND	^3+	0.898	0.359	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Thallium	ND		2.70	1.17	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Vanadium	**11.6**		0.898	0.386	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Zinc	**54.8**		1.80	0.719	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0732**		0.0597	0.0199	mg/Kg	☼	03/02/23 08:18	03/02/23 15:00	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0002'
Date Collected: 02/27/23 13:30
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-14
Matrix: Solid
Percent Solids: 92.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	92.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0204'
Date Collected: 02/27/23 13:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-15
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00530	0.00346	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Acetone	ND		0.0530	0.0119	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Acrylonitrile	ND		0.00530	0.00318	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Benzene	ND		0.00530	0.00354	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromobenzene	ND		0.00530	0.00353	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromochloromethane	ND		0.00530	0.00301	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromodichloromethane	ND		0.00530	0.00389	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromoform	ND		0.00530	0.00405	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromomethane	ND		0.0106	0.00660	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2-Butanone (MEK)	ND		0.0106	0.00422	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
n-Butylbenzene	ND		0.0106	0.00568	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
sec-Butylbenzene	ND		0.00530	0.00427	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
tert-Butylbenzene	ND		0.00530	0.00418	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Carbon disulfide	ND		0.0106	0.00372	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Carbon tetrachloride	ND		0.00530	0.00334	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chlorobenzene	ND		0.00530	0.00388	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chloroethane	ND		0.0106	0.00389	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chloroform	ND		0.00530	0.00356	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chloromethane	ND	*-	0.0106	0.00407	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2-Chlorotoluene	ND		0.00530	0.00422	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
4-Chlorotoluene	ND		0.00530	0.00460	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00449	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Dibromochloromethane	ND		0.00530	0.00351	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dibromoethane (EDB)	ND		0.00530	0.00381	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Dibromomethane	ND		0.00530	0.00312	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dichlorobenzene	ND		0.00530	0.00492	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3-Dichlorobenzene	ND		0.00530	0.00425	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,4-Dichlorobenzene	ND		0.00530	0.00502	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00284	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1-Dichloroethane	ND		0.00530	0.00359	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dichloroethane	ND		0.00530	0.00357	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1-Dichloroethene	ND		0.00530	0.00324	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
cis-1,2-Dichloroethene	ND		0.00530	0.00306	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
trans-1,2-Dichloroethene	ND		0.00530	0.00330	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dichloropropane	ND		0.00530	0.00351	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3-Dichloropropane	ND		0.00530	0.00405	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2,2-Dichloropropane	ND		0.00530	0.00366	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1-Dichloropropene	ND		0.00530	0.00360	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
cis-1,3-Dichloropropene	ND		0.00530	0.00346	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
trans-1,3-Dichloropropene	ND		0.00530	0.00403	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethylbenzene	ND		0.00530	0.00378	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Hexachlorobutadiene	ND		0.0106	0.00533	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2-Hexanone (MBK)	ND		0.0106	0.00312	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Isopropylbenzene	ND		0.00530	0.00401	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
4-Isopropyltoluene	ND		0.00530	0.00521	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Methyl tert-butyl ether	ND		0.00530	0.00305	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00342	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Methylene Chloride	**0.00905**	**J**	0.0106	0.00284	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Naphthalene	ND		0.00530	0.00479	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1

Client Sample ID: 2023-MW-01-0204' **Lab Sample ID: 620-10021-15**
Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00530	0.00448	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Styrene	ND		0.00530	0.00410	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,1,2-Tetrachloroethane	ND		0.00530	0.00398	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,2,2-Tetrachloroethane	ND		0.00530	0.00486	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Tetrachloroethene	ND		0.00530	0.00295	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Toluene	ND		0.00530	0.00336	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,3-Trichlorobenzene	ND		0.00530	0.00447	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,4-Trichlorobenzene	ND		0.00530	0.00489	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3,5-Trichlorobenzene	ND		0.00530	0.00504	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,1-Trichloroethane	ND		0.00530	0.00361	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,2-Trichloroethane	ND		0.00530	0.00400	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Trichloroethene	ND		0.00530	0.00356	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Trichlorofluoromethane (Freon 11)	ND		0.00530	0.00405	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,3-Trichloropropane	ND		0.00530	0.00471	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,4-Trimethylbenzene	ND		0.00530	0.00448	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3,5-Trimethylbenzene	ND		0.00530	0.00451	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Vinyl chloride	ND		0.00530	0.00323	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
m,p-Xylene	ND		0.00530	0.00724	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
o-Xylene	ND		0.00530	0.00387	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethyl ether	ND		0.00530	0.00279	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Tert-amyl methyl ether	ND		0.00530	0.00419	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethyl tert-butyl ether	ND		0.00530	0.00349	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
di-Isopropyl ether	ND		0.00530	0.00378	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
tert-Butanol	ND		0.106	0.0284	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,4-Dioxane	ND		0.106	0.0330	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
trans-1,4-Dichloro-2-butene	ND		0.0265	0.00391	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethanol	ND		1.06	0.0657	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3-Dichloropropene, Total	ND		0.00530	0.00403	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Xylenes, Total	ND		0.0159	0.00530	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.408	0.0725	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,2,4-Trichlorobenzene	ND		0.408	0.0934	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,2-Dichlorobenzene	ND		0.408	0.0786	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,3-Dichlorobenzene	ND		0.408	0.0987	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,4-Dichlorobenzene	ND		0.408	0.0960	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1-Methylnaphthalene	ND		0.0824	0.0692	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4,5-Trichlorophenol	ND		0.408	0.0467	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4,6-Trichlorophenol	ND		0.206	0.0504	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4-Dichlorophenol	ND		0.206	0.0821	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4-Dimethylphenol	ND		0.408	0.0598	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4-Dinitrophenol	ND		0.408	0.107	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0204'
Date Collected: 02/27/23 13:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-15
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.206	0.0483	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,6-Dinitrotoluene	ND		0.206	0.0483	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Chloronaphthalene	ND		0.408	0.0942	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Chlorophenol	ND		0.206	0.0844	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Methylnaphthalene	ND		0.0824	0.0609	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Methylphenol	ND		0.408	0.0595	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Nitroaniline	ND		0.408	0.0388	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Nitrophenol	ND		0.206	0.0732	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
3 & 4 Methylphenol	ND		0.408	0.0772	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
3,3'-Dichlorobenzidine	ND		0.408	0.0673	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
3-Nitroaniline	ND		0.408	0.0364	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4,6-Dinitro-2-methylphenol	ND		0.408	0.0732	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Bromophenyl phenyl ether	ND		0.408	0.0461	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Chloro-3-methylphenol	ND		0.408	0.0798	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Chloroaniline	ND		0.206	0.0312	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Chlorophenyl phenyl ether	ND		0.408	0.0436	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Nitroaniline	ND		0.206	0.0651	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Nitrophenol	ND		0.408	0.142	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Acenaphthene	ND		0.0824	0.0657	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Acenaphthylene	ND		0.0824	0.0541	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Acetophenone	ND		0.206	0.0503	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Aniline	ND		0.408	0.0312	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Anthracene	ND		0.0824	0.0477	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Azobenzene/Diphenyldiazene	ND		0.408	0.0695	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzidine	ND	*- *1	0.815	0.121	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[a]anthracene	ND		0.0824	0.0463	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[a]pyrene	ND		0.0824	0.0589	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[b]fluoranthene	ND		0.0824	0.0683	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[g,h,i]perylene	ND		0.0824	0.0644	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[k]fluoranthene	ND		0.0824	0.0641	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzoic acid	ND		0.408	0.280	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzyl alcohol	ND		0.408	0.0739	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Bis(2-chloroethoxy)methane	ND		0.408	0.0709	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Bis(2-chloroethyl)ether	ND		0.206	0.0674	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
bis (2-chloroisopropyl) ether	ND		0.206	0.0918	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Bis(2-ethylhexyl) phthalate	ND		0.206	0.0525	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Butyl benzyl phthalate	ND		0.408	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Carbazole	ND		0.206	0.0540	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Chrysene	ND		0.0824	0.0466	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Dibenz(a,h)anthracene	ND		0.0824	0.0629	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Dibenzofuran	ND		0.206	0.0714	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Diethyl phthalate	ND		0.408	0.0447	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Dimethyl phthalate	ND		0.408	0.0531	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Di-n-butyl phthalate	ND		0.408	0.0436	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Di-n-octyl phthalate	ND		0.408	0.0673	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Fluoranthene	ND		0.0824	0.0483	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Fluorene	ND		0.0824	0.0752	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Hexachlorobenzene	ND		0.206	0.0572	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Hexachlorobutadiene	ND		0.206	0.103	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1

Client Sample ID: 2023-MW-01-0204' **Lab Sample ID: 620-10021-15**
Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.206	0.0788	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Hexachloroethane	ND		0.206	0.0810	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0824	0.0699	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Isophorone	ND		0.206	0.0564	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Naphthalene	ND		0.0824	0.0791	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Nitrobenzene	ND		0.206	0.0952	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
N-Nitrosodimethylamine	ND		0.206	0.0541	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
N-Nitrosodi-n-propylamine	ND		0.206	0.0821	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
N-Nitrosodiphenylamine	ND		0.408	0.0520	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pentachloronitrobenzene	ND		0.408	0.0644	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pentachlorophenol	ND		0.408	0.167	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Phenanthrene	ND		0.0824	0.0467	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Phenol	ND		0.408	0.0840	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pyrene	ND		0.0824	0.0455	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pyridine	ND		0.408	0.0965	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
2-Fluorophenol (Surr)	*107*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
Terphenyl-d14	*67*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:43*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.258	0.132	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.258	0.110	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Ethylbenzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Methyl tert-butyl ether	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
m,p-Xylene	ND		0.103	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Naphthalene	ND		0.0516	0.0351	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
o-Xylene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Toluene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
C5-C8 Aliphatics (unadjusted)	ND		0.258	0.132	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
C9-C10 Aromatics	ND		0.258	0.0361	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
C9-C12 Aliphatics (unadjusted)	ND		0.258	0.110	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 20:24*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 20:24*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0237	0.0171	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1221	ND		0.0237	0.00701	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1232	ND		0.0237	0.00657	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1

Client Sample ID: 2023-MW-01-0204' **Lab Sample ID: 620-10021-15**
Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0237	0.00375	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1248	ND		0.0237	0.00741	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1254	**0.0383**		0.0237	0.0185	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1262	ND		0.0237	0.00553	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1260	ND		0.0237	0.00510	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1268	ND		0.0237	0.00505	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoroheptanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorononanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorodecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorotridecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorotetradecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorobutanesulfonic acid	ND		2.47	0.494	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorohexanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NEtFOSAA	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NMeFOSAA	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
10:2 FTS	ND		2.47	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoropentanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoroheptanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorononanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorodecanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctanesulfonamide	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorohexadecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctadecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorobutanoic acid	ND		2.47	0.987	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoropentanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NMeFOSE	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NMeFOSA	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NEtFOSE	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NEtFOSA	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
HFPODA	ND		2.47	1.23	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
DONA	ND		3.70	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
9Cl-PF3ONS	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
11Cl-PF3OUdS	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorododecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.47	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoroundecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1

Client Sample ID: 2023-MW-01-0204' Lab Sample ID: 620-10021-15

Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.47	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.70	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
M2-8:2 FTS	*77*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
M2-6:2 FTS	*90*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C8 PFOA	*93*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C9 PFNA	*98*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C6 PFDA	*88*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C7 PFUnA	*101*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C2-PFDoDA	*90*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C2 PFTeDA	*92*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C3 PFHxS	*103*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d3-NMeFOSAA	*30*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d5-NEtFOSAA	*46*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C8 FOSA	*91*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d9-N-EtFOSE-M	*103*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d5-NEtPFOSA	*72*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:41*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	5.88	2.00	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Arsenic	**3.74**		3.53	1.65	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Barium	**29.4**		0.588	0.176	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Beryllium	**0.872**		0.588	0.118	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Cadmium	ND		0.588	0.118	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Chromium	**8.75**	**B**	1.76	0.412	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Lead	**12.0**	**F1**	1.76	0.705	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Nickel	**2.70**		1.18	0.306	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Selenium	ND		5.88	1.76	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Silver	ND	^3+	1.18	0.470	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Thallium	ND		3.53	1.53	mg/Kg	☼	03/01/23 11:49	03/06/23 17:15	1
Vanadium	**15.9**		1.18	0.506	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Zinc	**19.1**		2.35	0.941	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0405**	**J**	0.0701	0.0234	mg/Kg	☼	03/02/23 08:13	03/02/23 13:37	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0204'
Date Collected: 02/27/23 13:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-15
Matrix: Solid
Percent Solids: 80.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.8		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	80.2		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: Trip Blank

Date Collected: 02/27/23 00:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-16

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Acetone	**0.0360**	**J B**	0.0500	0.0112	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Benzene	ND		0.00500	0.00334	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromoform	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chloroform	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chloromethane	ND	*-	0.0100	0.00384	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Methylene Chloride	**0.0107**		0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		02/28/23 11:02	02/28/23 17:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: Trip Blank

Date Collected: 02/27/23 00:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-16

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Styrene	ND		0.00500	0.00387	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Toluene	**0.00615**		0.00500	0.00317	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethanol	ND		1.00	0.0620	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		02/28/23 11:02	02/28/23 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10021-1	2023-SB-02-0002'	98	103	105	98
620-10021-2	2023-SB-02-0204'	101	108	105	98
620-10021-3	2023-SB-02-0406'	99	106	101	96
620-10021-4	2023-SB-02-0608'	100	107	101	96
620-10021-5	2023-SB-02-0810'	98	101	102	101
620-10021-6	2023-SB-02-1012'	99	105	100	95
620-10021-7	2023-SB-01-0002'	98	107	105	97
620-10021-8	2023-SB-01-0204'	98	105	99	94
620-10021-9	2023-SB-01-0406'	98	105	99	94
620-10021-10	2023-SB-01-0608'	99	106	99	95
620-10021-11	2023-SB-01-0810'	99	106	98	94
620-10021-12	2023-SB-01-1012'	100	106	100	96
620-10021-13	2023-FD-01	100	105	100	95
620-10021-14	2023-MW-01-0002'	93	99	102	101
620-10021-15	2023-MW-01-0204'	96	105	103	99
620-10021-16	Trip Blank	103	106	103	97
LCS 620-20151/1-A	Lab Control Sample	102	104	101	96
LCS 620-20238/1-A	Lab Control Sample	103	102	100	100
LCSD 620-20151/2-A	Lab Control Sample Dup	102	104	101	98
LCSD 620-20238/2-A	Lab Control Sample Dup	102	101	100	99
MB 620-20151/3-A	Method Blank	102	107	102	96
MB 620-20238/3-A	Method Blank	103	100	99	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10021-1	2023-SB-02-0002'	81	104	63	80	102	84
620-10021-1	2023-SB-02-0002'	83	90	56	70	101	70
620-10021-2	2023-SB-02-0204'	64	80	59	70	74	84
620-10021-3	2023-SB-02-0406'	81	103	82	96	86	85
620-10021-4	2023-SB-02-0608'	77	105	80	88	82	89
620-10021-5	2023-SB-02-0810'	64	83	63	69	66	72
620-10021-6	2023-SB-02-1012'	84	100	79	93	89	92
620-10021-7	2023-SB-01-0002'	51	61	37	47	63	45
620-10021-8	2023-SB-01-0204'	83	102	83	92	99	93
620-10021-9	2023-SB-01-0406'	77	108	79	90	93	74
620-10021-10	2023-SB-01-0608'	89	104	93	101	87	86
620-10021-11	2023-SB-01-0810'	80	110	82	91	82	86
620-10021-12	2023-SB-01-1012'	72	95	65	79	80	90
620-10021-13	2023-FD-01	83	99	69	89	108	81
620-10021-14	2023-MW-01-0002'	103	96	73	82	128 S1+	75

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10021-15	2023-MW-01-0204'	78	107	65	82	95	67
LCS 620-20217/2-A	Lab Control Sample	83	96	83	90	97	87
LCSD 620-20217/3-A	Lab Control Sample Dup	76	91	78	79	90	80
MB 620-20217/1-A	Method Blank	64	76	62	67	55	77

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT-P2	TFT-F1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10021-1	2023-SB-02-0002'	102	104
620-10021-2	2023-SB-02-0204'	101	105
620-10021-3	2023-SB-02-0406'	99	103
620-10021-4	2023-SB-02-0608'	98	102
620-10021-5	2023-SB-02-0810'	99	102
620-10021-6	2023-SB-02-1012'	100	103
620-10021-7	2023-SB-01-0002'	100	104
620-10021-8	2023-SB-01-0204'	97	101
620-10021-9	2023-SB-01-0406'	97	101
620-10021-10	2023-SB-01-0608'	97	101
620-10021-11	2023-SB-01-0810'	97	101
620-10021-12	2023-SB-01-1012'	97	100
620-10021-13	2023-FD-01	96	100
620-10021-14	2023-MW-01-0002'	98	101
620-10021-15	2023-MW-01-0204'	97	100
LCS 480-660132/2-A	Lab Control Sample	99	100
LCSD 480-660132/3-A	Lab Control Sample Dup	98	100
MB 480-660132/1-A	Method Blank	95	98

Surrogate Legend

TFT-P = a,a,a-Trifluorotoluene (pid)
TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10021-1	2023-SB-02-0002'	81	77	91	75
620-10021-2	2023-SB-02-0204'	72	72	83	77
620-10021-3	2023-SB-02-0406'	82	81	112	97
620-10021-4	2023-SB-02-0608'	72	74	84	74

Surrogate Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10021-5	2023-SB-02-0810'	81	75	81	75
620-10021-6	2023-SB-02-1012'	81	80	88	82
620-10021-7	2023-SB-01-0002'	65	66	80	80
620-10021-8	2023-SB-01-0204'	55	61	78	73
620-10021-9	2023-SB-01-0406'	60	57	86	79
620-10021-10	2023-SB-01-0608'	75	76	83	81
620-10021-11	2023-SB-01-0810'	66	63	74	71
620-10021-12	2023-SB-01-1012'	87	83	94	91
620-10021-13	2023-FD-01	81	74	93	89
620-10021-14	2023-MW-01-0002'	68	60	85	76
620-10021-15	2023-MW-01-0204'	73	74	86	76
LCS 620-20161/2-A	Lab Control Sample	83	85	82	79
LCS 620-20162/2-A	Lab Control Sample	90	87	97	89
LCS 620-20272/2-A	Lab Control Sample	81	83	77	97
LCSD 620-20161/3-A	Lab Control Sample Dup	80	83	83	89
LCSD 620-20162/3-A	Lab Control Sample Dup	91	90	102	94
LCSD 620-20272/3-A	Lab Control Sample Dup	65	66	61	74
MB 620-20161/1-A	Method Blank	88	90	92	91
MB 620-20162/1-A	Method Blank	90	87	98	88
MB 620-20272/1-A	Method Blank	88	98	77	85

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA
Lab Sample ID	Client Sample ID	(10-200)	(15-200)	(10-200)	(10-174)	(10-178)	(26-159)	(26-165)	(26-161)
620-10021-1	2023-SB-02-0002'	120	134	128	101	106	104	118	110
620-10021-2	2023-SB-02-0204'	68	79	66	80	82	81	81	75
620-10021-3	2023-SB-02-0406'	109	122	124	126	128	122	117	115
620-10021-4	2023-SB-02-0608'	121	114	128	134	140	133	128	115
620-10021-5	2023-SB-02-0810'	99	91	94	118	122	116	115	119
620-10021-6	2023-SB-02-1012'	117	118	127	146	144	141	129	124
620-10021-7	2023-SB-01-0002'	74	87	79	73	78	76	84	80
620-10021-8	2023-SB-01-0204'	51	50	57	61	65	64	66	65
620-10021-9	2023-SB-01-0406'	106	91	110	117	126	122	121	113
620-10021-10	2023-SB-01-0608'	109	106	114	128	131	128	126	120
620-10021-11	2023-SB-01-0810'	113	128	112	130	139	127	126	123
620-10021-12	2023-SB-01-1012'	122	138	131	138	143	134	130	128
620-10021-13	2023-FD-01	67	76	84	78	86	81	79	76
620-10021-14	2023-MW-01-0002'	115	150	124	125	128	122	134	122
620-10021-15	2023-MW-01-0204'	83	77	90	96	102	93	98	88
620-10021-15 MS	2023-MW-01-0204'	83	92	86	96	94	94	94	86
620-10021-15 MSD	2023-MW-01-0204'	105	122	109	116	115	116	116	113
LCS 410-349094/2-B	Lab Control Sample	116	117	112	122	117	125	125	124
MB 410-349094/1-B	Method Blank	112	116	112	120	129	127	122	122

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C7PUA	PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(12-173)	(11-166)	(10-169)	(27-179)	(24-171)	(41-154)	(10-178)	(10-193)
620-10021-1	2023-SB-02-0002'	122	126	130	125	130	130	40	62
620-10021-2	2023-SB-02-0204'	81	77	76	94	101	95	13	17
620-10021-3	2023-SB-02-0406'	113	114	115	118	125	124	51	57
620-10021-4	2023-SB-02-0608'	129	123	123	123	128	125	65	74
620-10021-5	2023-SB-02-0810'	119	121	114	120	130	123	34	39
620-10021-6	2023-SB-02-1012'	128	127	120	126	142	131	70	81
620-10021-7	2023-SB-01-0002'	81	79	86	110	109	114	12	18
620-10021-8	2023-SB-01-0204'	62	61	63	88	94	96	5 *5-	6 *5-
620-10021-9	2023-SB-01-0406'	107	108	116	109	122	118	45	47
620-10021-10	2023-SB-01-0608'	124	119	118	118	126	126	46	48
620-10021-11	2023-SB-01-0810'	121	122	112	121	130	123	56	67
620-10021-12	2023-SB-01-1012'	134	133	123	126	137	123	105	105
620-10021-13	2023-FD-01	83	98	108	78	86	82	41	45
620-10021-14	2023-MW-01-0002'	128	126	130	120	123	130	68	84
620-10021-15	2023-MW-01-0204'	101	90	92	96	103	102	30	46
620-10021-15 MS	2023-MW-01-0204'	102	92	100	101	108	103	33	44
620-10021-15 MSD	2023-MW-01-0204'	125	117	131	122	124	119	49	72
LCS 410-349094/2-B	Lab Control Sample	122	114	128	122	119	122	107	109
MB 410-349094/1-B	Method Blank	129	129	132	122	122	119	101	113

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	NMFM	d3NMFSA	NEFM	d5NPFSA	HFPODA
Lab Sample ID	Client Sample ID	(14-163)	(28-153)	(24-161)	(10-179)	(10-175)	(10-185)	(10-180)	(10-169)
620-10021-1	2023-SB-02-0002'	85	87	87	86	79	89	82	90
620-10021-2	2023-SB-02-0204'	100	72	73	100	52	105	57	78
620-10021-3	2023-SB-02-0406'	107	117	113	103	104	107	109	118
620-10021-4	2023-SB-02-0608'	112	127	126	111	107	113	109	121
620-10021-5	2023-SB-02-0810'	120	112	112	123	115	127	124	119

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10021-6	2023-SB-02-1012'	123	125	124	117	119	121	114	132
620-10021-7	2023-SB-01-0002'	73	62	69	69	14	79	16	79
620-10021-8	2023-SB-01-0204'	114	51	52	112	84	117	91	73
620-10021-9	2023-SB-01-0406'	83	105	104	83	42	81	42	127
620-10021-10	2023-SB-01-0608'	111	122	119	114	107	115	111	122
620-10021-11	2023-SB-01-0810'	113	119	115	111	104	109	106	114
620-10021-12	2023-SB-01-1012'	115	130	128	118	112	114	115	143
620-10021-13	2023-FD-01	67	67	67	63	22	64	22	63
620-10021-14	2023-MW-01-0002'	69	121	120	61	22	72	26	117
620-10021-15	2023-MW-01-0204'	91	89	87	96	74	103	72	92
620-10021-15 MS	2023-MW-01-0204'	101	91	92	94	76	102	78	97
620-10021-15 MSD	2023-MW-01-0204'	105	111	110	104	78	114	79	110
LCS 410-349094/2-B	Lab Control Sample	60	110	120	65	12	70	9 *5-	108
MB 410-349094/1-B	Method Blank	66	106	114	65	15	73	14	118

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20151/3-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Acetone	0.02387	J	0.0500	0.0112	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Benzene	ND		0.00500	0.00334	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromoform	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chloroform	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20151/3-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Styrene	ND		0.00500	0.00387	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Toluene	ND		0.00500	0.00317	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethanol	ND		1.00	0.0620	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		02/28/23 11:02	02/28/23 17:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*

Lab Sample ID: LCS 620-20151/1-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01891		mg/Kg		95	70 - 130
Acetone	0.0200	0.02455	J	mg/Kg		123	70 - 130
Acrylonitrile	0.0200	0.02104		mg/Kg		105	70 - 130
Benzene	0.0200	0.01996		mg/Kg		100	70 - 130
Bromobenzene	0.0200	0.01940		mg/Kg		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20151/1-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.01886		mg/Kg		94	70 - 130
Bromodichloromethane	0.0200	0.02020		mg/Kg		101	70 - 130
Bromoform	0.0200	0.01957		mg/Kg		98	70 - 130
Bromomethane	0.0200	0.01591		mg/Kg		80	70 - 130
2-Butanone (MEK)	0.0200	0.02117		mg/Kg		106	70 - 130
n-Butylbenzene	0.0200	0.02010		mg/Kg		101	70 - 130
sec-Butylbenzene	0.0200	0.02040		mg/Kg		102	70 - 130
tert-Butylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Carbon disulfide	0.0200	0.01824		mg/Kg		91	70 - 130
Carbon tetrachloride	0.0200	0.01860		mg/Kg		93	70 - 130
Chlorobenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.02322		mg/Kg		116	70 - 130
Chloroform	0.0200	0.01978		mg/Kg		99	70 - 130
Chloromethane	0.0200	0.01373	*-	mg/Kg		69	70 - 130
2-Chlorotoluene	0.0200	0.02018		mg/Kg		101	70 - 130
4-Chlorotoluene	0.0200	0.02032		mg/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02011		mg/Kg		101	70 - 130
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02029		mg/Kg		101	70 - 130
Dibromomethane	0.0200	0.02041		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.01965		mg/Kg		98	70 - 130
1,3-Dichlorobenzene	0.0200	0.01989		mg/Kg		99	70 - 130
1,4-Dichlorobenzene	0.0200	0.01991		mg/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.007475	J *-	mg/Kg		37	70 - 130
1,1-Dichloroethane	0.0200	0.02001		mg/Kg		100	70 - 130
1,2-Dichloroethane	0.0200	0.02100		mg/Kg		105	70 - 130
1,1-Dichloroethene	0.0200	0.01885		mg/Kg		94	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01904		mg/Kg		95	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01919		mg/Kg		96	70 - 130
1,2-Dichloropropane	0.0200	0.02075		mg/Kg		104	70 - 130
1,3-Dichloropropane	0.0200	0.02069		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01879		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01943		mg/Kg		97	70 - 130
cis-1,3-Dichloropropene	0.0200	0.02007		mg/Kg		100	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02068		mg/Kg		103	70 - 130
Ethylbenzene	0.0200	0.02024		mg/Kg		101	70 - 130
Hexachlorobutadiene	0.0200	0.01744		mg/Kg		87	70 - 130
2-Hexanone (MBK)	0.0200	0.02326		mg/Kg		116	70 - 130
Isopropylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
4-Isopropyltoluene	0.0200	0.01934		mg/Kg		97	70 - 130
Methyl tert-butyl ether	0.0200	0.01955		mg/Kg		98	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02217		mg/Kg		111	70 - 130
Methylene Chloride	0.0200	0.01982		mg/Kg		99	70 - 130
Naphthalene	0.0200	0.02177		mg/Kg		109	70 - 130
N-Propylbenzene	0.0200	0.02080		mg/Kg		104	70 - 130
Styrene	0.0200	0.02006		mg/Kg		100	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01968		mg/Kg		98	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02174		mg/Kg		109	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20151/1-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.01870		mg/Kg		93	70 - 130
Toluene	0.0200	0.02030		mg/Kg		101	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01983		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01975		mg/Kg		99	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01873		mg/Kg		94	70 - 130
1,1,1-Trichloroethane	0.0200	0.01974		mg/Kg		99	70 - 130
1,1,2-Trichloroethane	0.0200	0.02110		mg/Kg		106	70 - 130
Trichloroethene	0.0200	0.01955		mg/Kg		98	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01926		mg/Kg		96	70 - 130
1,2,3-Trichloropropane	0.0200	0.02173		mg/Kg		109	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02020		mg/Kg		101	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02026		mg/Kg		101	70 - 130
Vinyl chloride	0.0200	0.01616		mg/Kg		81	70 - 130
m,p-Xylene	0.0200	0.02021		mg/Kg		101	70 - 130
o-Xylene	0.0200	0.02001		mg/Kg		100	70 - 130
Tetrahydrofuran	0.0200	0.01950		mg/Kg		98	70 - 130
Ethyl ether	0.0200	0.02004		mg/Kg		100	70 - 130
Tert-amyl methyl ether	0.0200	0.01937		mg/Kg		97	70 - 130
Ethyl tert-butyl ether	0.0200	0.01934		mg/Kg		97	70 - 130
di-Isopropyl ether	0.0200	0.02007		mg/Kg		100	70 - 130
tert-Butanol	0.200	0.1998		mg/Kg		100	70 - 130
1,4-Dioxane	0.200	0.2063		mg/Kg		103	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02257	J	mg/Kg		113	70 - 130
Ethanol	0.400	0.3994	J	mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 620-20151/2-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01801		mg/Kg		90	70 - 130	5	30
Acetone	0.0200	0.02212	J	mg/Kg		111	70 - 130	10	30
Acrylonitrile	0.0200	0.01986		mg/Kg		99	70 - 130	6	30
Benzene	0.0200	0.01949		mg/Kg		97	70 - 130	2	30
Bromobenzene	0.0200	0.01886		mg/Kg		94	70 - 130	3	30
Bromochloromethane	0.0200	0.01842		mg/Kg		92	70 - 130	2	30
Bromodichloromethane	0.0200	0.01997		mg/Kg		100	70 - 130	1	30
Bromoform	0.0200	0.01857		mg/Kg		93	70 - 130	5	30
Bromomethane	0.0200	0.01515		mg/Kg		76	70 - 130	5	30
2-Butanone (MEK)	0.0200	0.01978		mg/Kg		99	70 - 130	7	30
n-Butylbenzene	0.0200	0.01980		mg/Kg		99	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20151/2-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	0.0200	0.01986		mg/Kg		99	70 - 130	3	30
tert-Butylbenzene	0.0200	0.02000		mg/Kg		100	70 - 130	2	30
Carbon disulfide	0.0200	0.01724		mg/Kg		86	70 - 130	6	30
Carbon tetrachloride	0.0200	0.01838		mg/Kg		92	70 - 130	1	30
Chlorobenzene	0.0200	0.01975		mg/Kg		99	70 - 130	3	30
Chloroethane	0.0200	0.02223		mg/Kg		111	70 - 130	4	30
Chloroform	0.0200	0.01932		mg/Kg		97	70 - 130	2	30
Chloromethane	0.0200	0.01294	*-	mg/Kg		65	70 - 130	6	30
2-Chlorotoluene	0.0200	0.01752		mg/Kg		88	70 - 130	14	30
4-Chlorotoluene	0.0200	0.01958		mg/Kg		98	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02071		mg/Kg		104	70 - 130	3	30
Dibromochloromethane	0.0200	0.02013		mg/Kg		101	70 - 130	0	30
1,2-Dibromoethane (EDB)	0.0200	0.01996		mg/Kg		100	70 - 130	2	30
Dibromomethane	0.0200	0.02024		mg/Kg		101	70 - 130	1	30
1,2-Dichlorobenzene	0.0200	0.01971		mg/Kg		99	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.01923		mg/Kg		96	70 - 130	3	30
1,4-Dichlorobenzene	0.0200	0.01995		mg/Kg		100	70 - 130	0	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.007260	J *-	mg/Kg		36	70 - 130	3	30
1,1-Dichloroethane	0.0200	0.01945		mg/Kg		97	70 - 130	3	30
1,2-Dichloroethane	0.0200	0.02083		mg/Kg		104	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.01713		mg/Kg		86	70 - 130	10	30
cis-1,2-Dichloroethene	0.0200	0.01851		mg/Kg		93	70 - 130	3	30
trans-1,2-Dichloroethene	0.0200	0.01800		mg/Kg		90	70 - 130	6	30
1,2-Dichloropropane	0.0200	0.02044		mg/Kg		102	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02062		mg/Kg		103	70 - 130	0	30
2,2-Dichloropropane	0.0200	0.01828		mg/Kg		91	70 - 130	3	30
1,1-Dichloropropene	0.0200	0.01896		mg/Kg		95	70 - 130	2	30
cis-1,3-Dichloropropene	0.0200	0.01967		mg/Kg		98	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02030		mg/Kg		101	70 - 130	2	30
Ethylbenzene	0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Hexachlorobutadiene	0.0200	0.01830		mg/Kg		91	70 - 130	5	30
2-Hexanone (MBK)	0.0200	0.02182		mg/Kg		109	70 - 130	6	30
Isopropylbenzene	0.0200	0.01960		mg/Kg		98	70 - 130	4	30
4-Isopropyltoluene	0.0200	0.01925		mg/Kg		96	70 - 130	0	30
Methyl tert-butyl ether	0.0200	0.01888		mg/Kg		94	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.02097		mg/Kg		105	70 - 130	6	30
Methylene Chloride	0.0200	0.01880		mg/Kg		94	70 - 130	5	30
Naphthalene	0.0200	0.02204		mg/Kg		110	70 - 130	1	30
N-Propylbenzene	0.0200	0.02007		mg/Kg		100	70 - 130	4	30
Styrene	0.0200	0.01927		mg/Kg		96	70 - 130	4	30
1,1,1,2-Tetrachloroethane	0.0200	0.01941		mg/Kg		97	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02145		mg/Kg		107	70 - 130	1	30
Tetrachloroethene	0.0200	0.01814		mg/Kg		91	70 - 130	3	30
Toluene	0.0200	0.01984		mg/Kg		99	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0200	0.02073		mg/Kg		104	70 - 130	4	30
1,2,4-Trichlorobenzene	0.0200	0.02004		mg/Kg		100	70 - 130	1	30
1,3,5-Trichlorobenzene	0.0200	0.01929		mg/Kg		96	70 - 130	3	30
1,1,1-Trichloroethane	0.0200	0.01920		mg/Kg		96	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20151/2-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20151

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02095		mg/Kg		105	70 - 130	1	30
Trichloroethene			0.0200	0.01925		mg/Kg		96	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01797		mg/Kg		90	70 - 130	7	30
1,2,3-Trichloropropane			0.0200	0.02116		mg/Kg		106	70 - 130	3	30
1,2,4-Trimethylbenzene			0.0200	0.01954		mg/Kg		98	70 - 130	3	30
1,3,5-Trimethylbenzene			0.0200	0.01992		mg/Kg		100	70 - 130	2	30
Vinyl chloride			0.0200	0.01525		mg/Kg		76	70 - 130	6	30
m,p-Xylene			0.0200	0.01919		mg/Kg		96	70 - 130	5	30
o-Xylene			0.0200	0.01934		mg/Kg		97	70 - 130	3	30
Tetrahydrofuran			0.0200	0.02158		mg/Kg		108	70 - 130	10	30
Ethyl ether			0.0200	0.01958		mg/Kg		98	70 - 130	2	30
Tert-amyl methyl ether			0.0200	0.01928		mg/Kg		96	70 - 130	1	30
Ethyl tert-butyl ether			0.0200	0.01921		mg/Kg		96	70 - 130	1	30
di-Isopropyl ether			0.0200	0.02005		mg/Kg		100	70 - 130	0	30
tert-Butanol			0.200	0.1789		mg/Kg		89	70 - 130	11	30
1,4-Dioxane			0.200	0.1904		mg/Kg		95	70 - 130	8	30
trans-1,4-Dichloro-2-butene			0.0200	0.02165	J	mg/Kg		108	70 - 130	4	30
Ethanol			0.400	0.3933	J	mg/Kg		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01757		mg/Kg		88	70 - 130
Acetone	0.0200	0.01938	J	mg/Kg		97	70 - 130
Acrylonitrile	0.0200	0.02007		mg/Kg		100	70 - 130
Benzene	0.0200	0.02000		mg/Kg		100	70 - 130
Bromobenzene	0.0200	0.01839		mg/Kg		92	70 - 130
Bromochloromethane	0.0200	0.01978		mg/Kg		99	70 - 130
Bromodichloromethane	0.0200	0.02215		mg/Kg		111	70 - 130
Bromoform	0.0200	0.02074		mg/Kg		104	70 - 130
Bromomethane	0.0200	0.01718		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0200	0.01839		mg/Kg		92	70 - 130
n-Butylbenzene	0.0200	0.01927		mg/Kg		96	70 - 130
sec-Butylbenzene	0.0200	0.01901		mg/Kg		95	70 - 130
tert-Butylbenzene	0.0200	0.01893		mg/Kg		95	70 - 130
Carbon disulfide	0.0200	0.01728		mg/Kg		86	70 - 130
Carbon tetrachloride	0.0200	0.01901		mg/Kg		95	70 - 130
Chlorobenzene	0.0200	0.02132		mg/Kg		107	70 - 130
Chloroethane	0.0200	0.01847		mg/Kg		92	70 - 130
Chloroform	0.0200	0.01999		mg/Kg		100	70 - 130
Chloromethane	0.0200	0.02016		mg/Kg		101	70 - 130
2-Chlorotoluene	0.0200	0.01990		mg/Kg		100	70 - 130
4-Chlorotoluene	0.0200	0.01918		mg/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02172		mg/Kg		109	70 - 130
Dibromochloromethane	0.0200	0.02168		mg/Kg		108	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0200	0.02034		mg/Kg		102	70 - 130
Dibromomethane	0.0200	0.02048		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.02037		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0200	0.01914		mg/Kg		96	70 - 130
1,4-Dichlorobenzene	0.0200	0.02002		mg/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01307	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0200	0.02090		mg/Kg		104	70 - 130
1,2-Dichloroethane	0.0200	0.01979		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0200	0.01927		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
1,2-Dichloropropane	0.0200	0.02203		mg/Kg		110	70 - 130
1,3-Dichloropropane	0.0200	0.01945		mg/Kg		97	70 - 130
2,2-Dichloropropane	0.0200	0.01877		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01782		mg/Kg		89	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01943		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02019		mg/Kg		101	70 - 130
Ethylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Hexachlorobutadiene	0.0200	0.01815		mg/Kg		91	70 - 130
2-Hexanone (MBK)	0.0200	0.01888		mg/Kg		94	70 - 130
Isopropylbenzene	0.0200	0.01909		mg/Kg		95	70 - 130
4-Isopropyltoluene	0.0200	0.01860		mg/Kg		93	70 - 130
Methyl tert-butyl ether	0.0200	0.01873		mg/Kg		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01908		mg/Kg		95	70 - 130
Methylene Chloride	0.0200	0.01901		mg/Kg		95	70 - 130
Naphthalene	0.0200	0.02120		mg/Kg		106	70 - 130
N-Propylbenzene	0.0200	0.01955		mg/Kg		98	70 - 130
Styrene	0.0200	0.01978		mg/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01996		mg/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02226		mg/Kg		111	70 - 130
Tetrachloroethene	0.0200	0.01863		mg/Kg		93	70 - 130
Toluene	0.0200	0.01981		mg/Kg		99	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02055		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01920		mg/Kg		96	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01939		mg/Kg		97	70 - 130
1,1,1-Trichloroethane	0.0200	0.01987		mg/Kg		99	70 - 130
1,1,2-Trichloroethane	0.0200	0.02214		mg/Kg		111	70 - 130
Trichloroethene	0.0200	0.01959		mg/Kg		98	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01989		mg/Kg		99	70 - 130
1,2,3-Trichloropropane	0.0200	0.01879		mg/Kg		94	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01926		mg/Kg		96	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01910		mg/Kg		95	70 - 130
Vinyl chloride	0.0200	0.01813		mg/Kg		91	70 - 130
m,p-Xylene	0.0400	0.04135		mg/Kg		103	70 - 130
o-Xylene	0.0200	0.02024		mg/Kg		101	70 - 130
Tetrahydrofuran	0.0200	0.01827		mg/Kg		91	70 - 130
Ethyl ether	0.0200	0.01842		mg/Kg		92	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0200	0.01953		mg/Kg		98	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01904		mg/Kg		95	70 - 130		
di-Isopropyl ether			0.0200	0.01879		mg/Kg		94	70 - 130		
tert-Butanol			0.200	0.2141		mg/Kg		107	70 - 130		
1,4-Dioxane			0.200	0.2059		mg/Kg		103	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02096	J	mg/Kg		105	70 - 130		
Ethanol			0.400	0.4234	J	mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.01827		mg/Kg		91	70 - 130	4	30
Acetone			0.0200	0.02043	J	mg/Kg		102	70 - 130	5	30
Acrylonitrile			0.0200	0.02072		mg/Kg		104	70 - 130	3	30
Benzene			0.0200	0.02069		mg/Kg		103	70 - 130	3	30
Bromobenzene			0.0200	0.01921		mg/Kg		96	70 - 130	4	30
Bromochloromethane			0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Bromodichloromethane			0.0200	0.02278		mg/Kg		114	70 - 130	3	30
Bromoform			0.0200	0.02118		mg/Kg		106	70 - 130	2	30
Bromomethane			0.0200	0.01756		mg/Kg		88	70 - 130	2	30
2-Butanone (MEK)			0.0200	0.01887		mg/Kg		94	70 - 130	3	30
n-Butylbenzene			0.0200	0.01994		mg/Kg		100	70 - 130	3	30
sec-Butylbenzene			0.0200	0.01976		mg/Kg		99	70 - 130	4	30
tert-Butylbenzene			0.0200	0.01974		mg/Kg		99	70 - 130	4	30
Carbon disulfide			0.0200	0.01797		mg/Kg		90	70 - 130	4	30
Carbon tetrachloride			0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Chlorobenzene			0.0200	0.02203		mg/Kg		110	70 - 130	3	30
Chloroethane			0.0200	0.01874		mg/Kg		94	70 - 130	1	30
Chloroform			0.0200	0.02087		mg/Kg		104	70 - 130	4	30
Chloromethane			0.0200	0.02101		mg/Kg		105	70 - 130	4	30
2-Chlorotoluene			0.0200	0.02067		mg/Kg		103	70 - 130	4	30
4-Chlorotoluene			0.0200	0.01963		mg/Kg		98	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02174		mg/Kg		109	70 - 130	0	30
Dibromochloromethane			0.0200	0.02211		mg/Kg		111	70 - 130	2	30
1,2-Dibromoethane (EDB)			0.0200	0.02077		mg/Kg		104	70 - 130	2	30
Dibromomethane			0.0200	0.02065		mg/Kg		103	70 - 130	1	30
1,2-Dichlorobenzene			0.0200	0.02106		mg/Kg		105	70 - 130	3	30
1,3-Dichlorobenzene			0.0200	0.01946		mg/Kg		97	70 - 130	2	30
1,4-Dichlorobenzene			0.0200	0.02062		mg/Kg		103	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0200	0.01382	*-	mg/Kg		69	70 - 130	6	30
1,1-Dichloroethane	0.0200	0.02173		mg/Kg		109	70 - 130	4	30
1,2-Dichloroethane	0.0200	0.02074		mg/Kg		104	70 - 130	5	30
1,1-Dichloroethene	0.0200	0.02053		mg/Kg		103	70 - 130	6	30
cis-1,2-Dichloroethene	0.0200	0.02106		mg/Kg		105	70 - 130	5	30
trans-1,2-Dichloroethene	0.0200	0.02060		mg/Kg		103	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02255		mg/Kg		113	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02012		mg/Kg		101	70 - 130	3	30
2,2-Dichloropropane	0.0200	0.01909		mg/Kg		95	70 - 130	2	30
1,1-Dichloropropene	0.0200	0.01866		mg/Kg		93	70 - 130	5	30
cis-1,3-Dichloropropene	0.0200	0.01967		mg/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02040		mg/Kg		102	70 - 130	1	30
Ethylbenzene	0.0200	0.02106		mg/Kg		105	70 - 130	4	30
Hexachlorobutadiene	0.0200	0.01894		mg/Kg		95	70 - 130	4	30
2-Hexanone (MBK)	0.0200	0.01921		mg/Kg		96	70 - 130	2	30
Isopropylbenzene	0.0200	0.01965		mg/Kg		98	70 - 130	3	30
4-Isopropyltoluene	0.0200	0.01955		mg/Kg		98	70 - 130	5	30
Methyl tert-butyl ether	0.0200	0.01926		mg/Kg		96	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01913		mg/Kg		96	70 - 130	0	30
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130	4	30
Naphthalene	0.0200	0.02180		mg/Kg		109	70 - 130	3	30
N-Propylbenzene	0.0200	0.02003		mg/Kg		100	70 - 130	2	30
Styrene	0.0200	0.02037		mg/Kg		102	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0200	0.02039		mg/Kg		102	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02245		mg/Kg		112	70 - 130	1	30
Tetrachloroethene	0.0200	0.01893		mg/Kg		95	70 - 130	2	30
Toluene	0.0200	0.02031		mg/Kg		102	70 - 130	3	30
1,2,3-Trichlorobenzene	0.0200	0.02115		mg/Kg		106	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0200	0.01988		mg/Kg		99	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.01945		mg/Kg		97	70 - 130	0	30
1,1,1-Trichloroethane	0.0200	0.02055		mg/Kg		103	70 - 130	3	30
1,1,2-Trichloroethane	0.0200	0.02258		mg/Kg		113	70 - 130	2	30
Trichloroethene	0.0200	0.01991		mg/Kg		100	70 - 130	2	30
Trichlorofluoromethane (Freon 11)	0.0200	0.02080		mg/Kg		104	70 - 130	4	30
1,2,3-Trichloropropane	0.0200	0.02070		mg/Kg		103	70 - 130	10	30
1,2,4-Trimethylbenzene	0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3,5-Trimethylbenzene	0.0200	0.01990		mg/Kg		99	70 - 130	4	30
Vinyl chloride	0.0200	0.01867		mg/Kg		93	70 - 130	3	30
m,p-Xylene	0.0400	0.04282		mg/Kg		107	70 - 130	3	30
o-Xylene	0.0200	0.02086		mg/Kg		104	70 - 130	3	30
Tetrahydrofuran	0.0200	0.01952		mg/Kg		98	70 - 130	7	30
Ethyl ether	0.0200	0.01800		mg/Kg		90	70 - 130	2	30
Tert-amyl methyl ether	0.0200	0.01941		mg/Kg		97	70 - 130	1	30
Ethyl tert-butyl ether	0.0200	0.01894		mg/Kg		95	70 - 130	1	30
di-Isopropyl ether	0.0200	0.01936		mg/Kg		97	70 - 130	3	30
tert-Butanol	0.200	0.2113		mg/Kg		106	70 - 130	1	30
1,4-Dioxane	0.200	0.1895		mg/Kg		95	70 - 130	8	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0200	0.02160	J	mg/Kg		108	70 - 130	3	30
Ethanol			0.400	0.4066	J	mg/Kg		102	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20217/1-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Aniline	ND		0.330	0.0253	mg/Kg		03/02/23 10:19	03/07/23 15:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20217/1-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.0667	0.0386	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Phenol	ND		0.330	0.0680	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/02/23 10:19	03/07/23 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*30 - 130*	*03/02/23 10:19*	*03/07/23 15:22*	*1*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/02/23 10:19*	*03/07/23 15:22*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/02/23 10:19*	*03/07/23 15:22*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/02/23 10:19*	*03/07/23 15:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20217/1-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20217

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		15 - 110	03/02/23 10:19	03/07/23 15:22	1
Terphenyl-d14	77		30 - 130	03/02/23 10:19	03/07/23 15:22	1

Lab Sample ID: LCS 620-20217/2-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.149		mg/Kg		69	40 - 140
1,2,4-Trichlorobenzene	1.67	1.422		mg/Kg		85	40 - 140
1,2-Dichlorobenzene	1.67	1.286		mg/Kg		77	40 - 140
1,3-Dichlorobenzene	1.67	1.330		mg/Kg		80	40 - 140
1,4-Dichlorobenzene	1.67	1.332		mg/Kg		80	40 - 140
1-Methylnaphthalene	1.67	1.533		mg/Kg		92	40 - 140
2,4,5-Trichlorophenol	1.67	1.446		mg/Kg		87	30 - 130
2,4,6-Trichlorophenol	1.67	1.635		mg/Kg		98	30 - 130
2,4-Dichlorophenol	1.67	1.464		mg/Kg		88	30 - 130
2,4-Dimethylphenol	1.67	1.316		mg/Kg		79	30 - 130
2,4-Dinitrophenol	1.67	1.978		mg/Kg		119	30 - 130
2,4-Dinitrotoluene	1.67	1.564		mg/Kg		94	40 - 140
2,6-Dinitrotoluene	1.67	1.656		mg/Kg		99	40 - 140
2-Chloronaphthalene	1.67	1.478		mg/Kg		89	40 - 140
2-Chlorophenol	1.67	1.430		mg/Kg		86	30 - 130
2-Methylnaphthalene	1.67	1.557		mg/Kg		93	40 - 140
2-Methylphenol	1.67	1.530		mg/Kg		92	30 - 130
2-Nitroaniline	1.67	1.575		mg/Kg		94	40 - 140
2-Nitrophenol	1.67	1.470		mg/Kg		88	30 - 130
3 & 4 Methylphenol	1.67	1.591		mg/Kg		95	30 - 130
3,3'-Dichlorobenzidine	1.67	1.779		mg/Kg		107	40 - 140
3-Nitroaniline	1.67	1.128		mg/Kg		68	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.638		mg/Kg		98	30 - 130
4-Bromophenyl phenyl ether	1.67	1.613		mg/Kg		97	40 - 140
4-Chloro-3-methylphenol	1.67	1.412		mg/Kg		85	30 - 130
4-Chloroaniline	1.67	0.6841		mg/Kg		41	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.518		mg/Kg		91	40 - 140
4-Nitroaniline	1.67	1.420		mg/Kg		85	40 - 140
4-Nitrophenol	1.67	1.579		mg/Kg		95	30 - 130
Acenaphthene	1.67	1.457		mg/Kg		87	40 - 140
Acenaphthylene	1.67	1.419		mg/Kg		85	40 - 140
Acetophenone	1.67	1.469		mg/Kg		88	40 - 140
Aniline	1.67	0.8241		mg/Kg		49	40 - 140
Anthracene	1.67	1.834		mg/Kg		110	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.427		mg/Kg		86	40 - 140
Benzidine	1.67	0.2349	J *-	mg/Kg		14	40 - 140
Benzo[a]anthracene	1.67	1.845		mg/Kg		111	40 - 140
Benzo[a]pyrene	1.67	1.623		mg/Kg		97	40 - 140
Benzo[b]fluoranthene	1.67	1.786		mg/Kg		107	40 - 140
Benzo[g,h,i]perylene	1.67	1.605		mg/Kg		96	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20217/2-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[k]fluoranthene	1.67	1.557		mg/Kg		93	40 - 140
Benzoic acid	1.67	1.201		mg/Kg		72	30 - 130
Benzyl alcohol	1.67	1.184		mg/Kg		71	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.334		mg/Kg		80	40 - 140
Bis(2-chloroethyl)ether	1.67	1.356		mg/Kg		81	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.201		mg/Kg		72	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.826		mg/Kg		110	40 - 140
Butyl benzyl phthalate	1.67	1.655		mg/Kg		99	40 - 140
Carbazole	1.67	1.629		mg/Kg		98	40 - 140
Chrysene	1.67	1.790		mg/Kg		107	40 - 140
Dibenz(a,h)anthracene	1.67	1.503		mg/Kg		90	40 - 140
Dibenzofuran	1.67	1.577		mg/Kg		95	40 - 140
Diethyl phthalate	1.67	1.556		mg/Kg		93	40 - 140
Dimethyl phthalate	1.67	1.723		mg/Kg		103	40 - 140
Di-n-butyl phthalate	1.67	1.856		mg/Kg		111	40 - 140
Di-n-octyl phthalate	1.67	1.836		mg/Kg		110	40 - 140
Fluoranthene	1.67	1.802		mg/Kg		108	40 - 140
Fluorene	1.67	1.486		mg/Kg		89	40 - 140
Hexachlorobenzene	1.67	1.592		mg/Kg		96	40 - 140
Hexachlorobutadiene	1.67	1.267		mg/Kg		76	40 - 140
Hexachlorocyclopentadiene	1.67	1.582		mg/Kg		95	40 - 140
Hexachloroethane	1.67	1.383		mg/Kg		83	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.468		mg/Kg		88	40 - 140
Isophorone	1.67	1.130		mg/Kg		68	40 - 140
Naphthalene	1.67	1.352		mg/Kg		81	40 - 140
Nitrobenzene	1.67	1.473		mg/Kg		88	40 - 140
N-Nitrosodimethylamine	1.67	1.090		mg/Kg		65	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.366		mg/Kg		82	40 - 140
N-Nitrosodiphenylamine	1.67	1.635		mg/Kg		98	40 - 140
Pentachloronitrobenzene	1.67	1.271		mg/Kg		76	40 - 140
Pentachlorophenol	1.67	1.375		mg/Kg		83	30 - 130
Phenanthrene	1.67	1.624		mg/Kg		97	40 - 140
Phenol	1.67	1.524		mg/Kg		91	40 - 140
Pyrene	1.67	1.798		mg/Kg		108	40 - 140
Pyridine	1.67	0.9351		mg/Kg		56	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*
2-Fluorophenol (Surr)	*96*		*15 - 110*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*
Phenol-d5 (Surr)	*90*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*97*		*15 - 110*
Terphenyl-d14	*87*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20217/3-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.078		mg/Kg		65	40 - 140	6	30
1,2,4-Trichlorobenzene			1.67	1.351		mg/Kg		81	40 - 140	5	30
1,2-Dichlorobenzene			1.67	1.184		mg/Kg		71	40 - 140	8	30
1,3-Dichlorobenzene			1.67	1.257		mg/Kg		75	40 - 140	6	30
1,4-Dichlorobenzene			1.67	1.211		mg/Kg		73	40 - 140	10	30
1-Methylnaphthalene			1.67	1.439		mg/Kg		86	40 - 140	6	30
2,4,5-Trichlorophenol			1.67	1.360		mg/Kg		82	30 - 130	6	30
2,4,6-Trichlorophenol			1.67	1.507		mg/Kg		90	30 - 130	8	30
2,4-Dichlorophenol			1.67	1.319		mg/Kg		79	30 - 130	10	30
2,4-Dimethylphenol			1.67	1.245		mg/Kg		75	30 - 130	6	30
2,4-Dinitrophenol			1.67	1.805		mg/Kg		108	30 - 130	9	30
2,4-Dinitrotoluene			1.67	1.459		mg/Kg		88	40 - 140	7	30
2,6-Dinitrotoluene			1.67	1.510		mg/Kg		91	40 - 140	9	30
2-Chloronaphthalene			1.67	1.368		mg/Kg		82	40 - 140	8	30
2-Chlorophenol			1.67	1.331		mg/Kg		80	30 - 130	7	30
2-Methylnaphthalene			1.67	1.434		mg/Kg		86	40 - 140	8	30
2-Methylphenol			1.67	1.401		mg/Kg		84	30 - 130	9	30
2-Nitroaniline			1.67	1.440		mg/Kg		86	40 - 140	9	30
2-Nitrophenol			1.67	1.376		mg/Kg		83	30 - 130	7	30
3 & 4 Methylphenol			1.67	1.408		mg/Kg		84	30 - 130	12	30
3,3'-Dichlorobenzidine			1.67	1.513		mg/Kg		91	40 - 140	16	30
3-Nitroaniline			1.67	0.9309		mg/Kg		56	40 - 140	19	30
4,6-Dinitro-2-methylphenol			1.67	1.497		mg/Kg		90	30 - 130	9	30
4-Bromophenyl phenyl ether			1.67	1.456		mg/Kg		87	40 - 140	10	30
4-Chloro-3-methylphenol			1.67	1.294		mg/Kg		78	30 - 130	9	30
4-Chloroaniline			1.67	0.6785		mg/Kg		41	40 - 140	1	30
4-Chlorophenyl phenyl ether			1.67	1.389		mg/Kg		83	40 - 140	9	30
4-Nitroaniline			1.67	1.373		mg/Kg		82	40 - 140	3	30
4-Nitrophenol			1.67	1.449		mg/Kg		87	30 - 130	9	30
Acenaphthene			1.67	1.323		mg/Kg		79	40 - 140	10	30
Acenaphthylene			1.67	1.291		mg/Kg		77	40 - 140	9	30
Acetophenone			1.67	1.380		mg/Kg		83	40 - 140	6	30
Aniline			1.67	0.7099		mg/Kg		43	40 - 140	15	30
Anthracene			1.67	1.663		mg/Kg		100	40 - 140	10	30
Azobenzene/Diphenyldiazene			1.67	1.325		mg/Kg		80	40 - 140	7	30
Benzidine			1.67	0.3217	J *- *1	mg/Kg		19	40 - 140	31	30
Benzo[a]anthracene			1.67	1.648		mg/Kg		99	40 - 140	11	30
Benzo[a]pyrene			1.67	1.469		mg/Kg		88	40 - 140	10	30
Benzo[b]fluoranthene			1.67	1.541		mg/Kg		92	40 - 140	15	30
Benzo[g,h,i]perylene			1.67	1.489		mg/Kg		89	40 - 140	8	30
Benzo[k]fluoranthene			1.67	1.470		mg/Kg		88	40 - 140	6	30
Benzoic acid			1.67	0.9087		mg/Kg		55	30 - 130	28	30
Benzyl alcohol			1.67	1.021		mg/Kg		61	40 - 140	15	30
Bis(2-chloroethoxy)methane			1.67	1.238		mg/Kg		74	40 - 140	8	30
Bis(2-chloroethyl)ether			1.67	1.196		mg/Kg		72	40 - 140	13	30
bis (2-chloroisopropyl) ether			1.67	1.112		mg/Kg		67	40 - 140	8	30
Bis(2-ethylhexyl) phthalate			1.67	1.659		mg/Kg		100	40 - 140	10	30
Butyl benzyl phthalate			1.67	1.541		mg/Kg		92	40 - 140	7	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20217/3-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbazole			1.67	1.522		mg/Kg		91	40 - 140	7	30
Chrysene			1.67	1.656		mg/Kg		99	40 - 140	8	30
Dibenz(a,h)anthracene			1.67	1.391		mg/Kg		83	40 - 140	8	30
Dibenzofuran			1.67	1.432		mg/Kg		86	40 - 140	10	30
Diethyl phthalate			1.67	1.438		mg/Kg		86	40 - 140	8	30
Dimethyl phthalate			1.67	1.549		mg/Kg		93	40 - 140	11	30
Di-n-butyl phthalate			1.67	1.680		mg/Kg		101	40 - 140	10	30
Di-n-octyl phthalate			1.67	1.662		mg/Kg		100	40 - 140	10	30
Fluoranthene			1.67	1.619		mg/Kg		97	40 - 140	11	30
Fluorene			1.67	1.334		mg/Kg		80	40 - 140	11	30
Hexachlorobenzene			1.67	1.483		mg/Kg		89	40 - 140	7	30
Hexachlorobutadiene			1.67	1.204		mg/Kg		72	40 - 140	5	30
Hexachlorocyclopentadiene			1.67	1.478		mg/Kg		89	40 - 140	7	30
Hexachloroethane			1.67	1.291		mg/Kg		77	40 - 140	7	30
Indeno[1,2,3-cd]pyrene			1.67	1.371		mg/Kg		82	40 - 140	7	30
Isophorone			1.67	1.073		mg/Kg		64	40 - 140	5	30
Naphthalene			1.67	1.261		mg/Kg		76	40 - 140	7	30
Nitrobenzene			1.67	1.358		mg/Kg		82	40 - 140	8	30
N-Nitrosodimethylamine			1.67	1.023		mg/Kg		61	40 - 140	6	30
N-Nitrosodi-n-propylamine			1.67	1.248		mg/Kg		75	40 - 140	9	30
N-Nitrosodiphenylamine			1.67	1.510		mg/Kg		91	40 - 140	8	30
Pentachloronitrobenzene			1.67	1.180		mg/Kg		71	40 - 140	7	30
Pentachlorophenol			1.67	1.263		mg/Kg		76	30 - 130	8	30
Phenanthrene			1.67	1.476		mg/Kg		89	40 - 140	10	30
Phenol			1.67	1.349		mg/Kg		81	40 - 140	12	30
Pyrene			1.67	1.637		mg/Kg		98	40 - 140	9	30
Pyridine			1.67	0.8508		mg/Kg		51	40 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*
Phenol-d5 (Surr)	*79*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*
Terphenyl-d14	*80*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660132/1-A
Matrix: Solid
Analysis Batch: 660138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
Naphthalene	0.03812	J	0.0500	0.0340	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 480-660132/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660138 **Prep Batch: 660132**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
C9-C10 Aromatics	0.04914	J	0.250	0.0350	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/01/23 07:14	03/01/23 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/01/23 07:14*	*03/01/23 08:34*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/01/23 07:14*	*03/01/23 08:34*	*1*

Lab Sample ID: LCS 480-660132/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660138 **Prep Batch: 660132**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.473		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.500		mg/Kg		100	70 - 130
Methyl tert-butyl ether	2.50	2.282		mg/Kg		91	70 - 130
m,p-Xylene	5.00	4.989		mg/Kg		100	70 - 130
Naphthalene	2.50	2.260		mg/Kg		90	70 - 130
o-Xylene	2.50	2.486		mg/Kg		99	70 - 130
Toluene	2.50	2.488		mg/Kg		100	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.742		mg/Kg		103	70 - 130
C9-C10 Aromatics	2.50	2.447		mg/Kg		98	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.407		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-660132/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660138 **Prep Batch: 660132**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene	2.50	2.461		mg/Kg		98	70 - 130	2	25
Methyl tert-butyl ether	2.50	2.257		mg/Kg		90	70 - 130	1	25
m,p-Xylene	5.00	4.999		mg/Kg		100	70 - 130	0	25
Naphthalene	2.50	2.457		mg/Kg		98	70 - 130	8	25
o-Xylene	2.50	2.469		mg/Kg		99	70 - 130	1	25
Toluene	2.50	2.471		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)	7.50	7.641		mg/Kg		102	70 - 130	1	25
C9-C10 Aromatics	2.50	2.448		mg/Kg		98	70 - 130	0	25
C9-C12 Aliphatics (unadjusted)	7.50	7.389		mg/Kg		99	70 - 130	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20161/1-A
Matrix: Solid
Analysis Batch: 20220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		02/28/23 15:09	03/02/23 17:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*

Lab Sample ID: LCS 620-20161/2-A
Matrix: Solid
Analysis Batch: 20220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20161

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1527		mg/Kg		92	40 - 140		
PCB-1016			0.167	0.1511		mg/Kg		91	40 - 140		
PCB-1260			0.167	0.1574		mg/Kg		94	40 - 140		
PCB-1260			0.167	0.1548		mg/Kg		93	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*30 - 150*
Tetrachloro-m-xylene	*85*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*

Lab Sample ID: LCSD 620-20161/3-A
Matrix: Solid
Analysis Batch: 20220

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20161

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1505		mg/Kg		90	40 - 140	1	30
PCB-1016			0.167	0.1452		mg/Kg		87	40 - 140	4	30
PCB-1260			0.167	0.1532		mg/Kg		92	40 - 140	3	30
PCB-1260			0.167	0.1593		mg/Kg		96	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*30 - 150*
Tetrachloro-m-xylene	*83*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-20162/1-A
Matrix: Solid
Analysis Batch: 20222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		02/28/23 15:12	03/02/23 22:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*
Tetrachloro-m-xylene	*87*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*

Lab Sample ID: LCS 620-20162/2-A
Matrix: Solid
Analysis Batch: 20222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20162

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1461		mg/Kg		88	40 - 140		
PCB-1016			0.167	0.1524		mg/Kg		91	40 - 140		
PCB-1260			0.167	0.1575		mg/Kg		94	40 - 140		
PCB-1260			0.167	0.1449		mg/Kg		87	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*30 - 150*
Tetrachloro-m-xylene	*87*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*

Lab Sample ID: LCSD 620-20162/3-A
Matrix: Solid
Analysis Batch: 20222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20162

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1495		mg/Kg		90	40 - 140	2	30
PCB-1016			0.167	0.1522		mg/Kg		91	40 - 140	0	30
PCB-1260			0.167	0.1493		mg/Kg		90	40 - 140	5	30
PCB-1260			0.167	0.1533		mg/Kg		92	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*30 - 150*
Tetrachloro-m-xylene	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-20272/1-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/03/23 15:24	03/06/23 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*

Lab Sample ID: LCS 620-20272/2-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20272

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1409		mg/Kg		85	40 - 140		
PCB-1016			0.167	0.1463		mg/Kg		88	40 - 140		
PCB-1260			0.167	0.1497		mg/Kg		90	40 - 140		
PCB-1260			0.167	0.1415		mg/Kg		85	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*83*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*

Lab Sample ID: LCSD 620-20272/3-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20272

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1247		mg/Kg		75	40 - 140	12	30
PCB-1016			0.167	0.1160		mg/Kg		70	40 - 140	23	30
PCB-1260			0.167	0.1238		mg/Kg		74	40 - 140	19	30
PCB-1260			0.167	0.1250		mg/Kg		75	40 - 140	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*30 - 150*
Tetrachloro-m-xylene	*66*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-349094/1-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
HFPODA	ND		2.00	1.00	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
DONA	ND		3.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*112*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
M2-8:2 FTS	*116*		*15 - 200*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
M2-6:2 FTS	*112*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C4 PFHpA	*129*		*10 - 178*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C9 PFNA	*122*		*26 - 165*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C6 PFDA	*122*		*26 - 161*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C7 PFUnA	*129*		*12 - 173*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C2-PFDoDA	*129*		*11 - 166*	*03/01/23 10:57*	*03/11/23 01:33*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349094/1-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349094

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	132		10 - 169	03/01/23 10:57	03/11/23 01:33	1
13C3 PFBS	122		27 - 179	03/01/23 10:57	03/11/23 01:33	1
13C3 PFHxS	122		24 - 171	03/01/23 10:57	03/11/23 01:33	1
13C8 PFOS	119		41 - 154	03/01/23 10:57	03/11/23 01:33	1
d3-NMeFOSAA	101		10 - 178	03/01/23 10:57	03/11/23 01:33	1
d5-NEtFOSAA	113		10 - 193	03/01/23 10:57	03/11/23 01:33	1
13C8 FOSA	66		14 - 163	03/01/23 10:57	03/11/23 01:33	1
13C4 PFBA	106		28 - 153	03/01/23 10:57	03/11/23 01:33	1
13C5 PFPeA	114		24 - 161	03/01/23 10:57	03/11/23 01:33	1
d7-N-MeFOSE-M	65		10 - 179	03/01/23 10:57	03/11/23 01:33	1
d3-NMePFOSA	15		10 - 175	03/01/23 10:57	03/11/23 01:33	1
d9-N-EtFOSE-M	73		10 - 185	03/01/23 10:57	03/11/23 01:33	1
d5-NEtPFOSA	14		10 - 180	03/01/23 10:57	03/11/23 01:33	1
13C3 HFPO-DA	118		10 - 169	03/01/23 10:57	03/11/23 01:33	1

Lab Sample ID: LCS 410-349094/2-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	20.49		ug/Kg		82	59 - 132
Perfluoroheptanoic acid	25.0	21.62		ug/Kg		86	59 - 137
Perfluorooctanoic acid	25.0	19.35		ug/Kg		77	59 - 131
Perfluorononanoic acid	25.0	22.03		ug/Kg		88	61 - 134
Perfluorodecanoic acid	25.0	18.67		ug/Kg		75	56 - 133
Perfluorotridecanoic acid	25.0	21.79		ug/Kg		87	53 - 143
Perfluorotetradecanoic acid	25.0	19.98		ug/Kg		80	62 - 134
Perfluorobutanesulfonic acid	22.1	18.70		ug/Kg		85	54 - 130
Perfluorohexanesulfonic acid	22.8	18.80		ug/Kg		82	59 - 129
Perfluorooctanesulfonic acid	23.1	19.24		ug/Kg		83	61 - 126
NEtFOSAA	25.0	23.78		ug/Kg		95	57 - 127
NMeFOSAA	25.0	23.00		ug/Kg		92	60 - 134
10:2 FTS	24.1	20.43		ug/Kg		85	46 - 143
Perfluoropentanesulfonic acid	23.5	21.32		ug/Kg		91	57 - 133
Perfluoroheptanesulfonic acid	23.8	20.85		ug/Kg		88	59 - 132
Perfluorononanesulfonic acid	24.0	20.05		ug/Kg		84	60 - 132
Perfluorodecanesulfonic acid	24.1	21.93		ug/Kg		91	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.42		ug/Kg		84	38 - 145
Perfluorooctanesulfonamide	25.0	23.45		ug/Kg		94	47 - 149
Perfluorohexadecanoic acid	25.0	20.96		ug/Kg		84	38 - 147
Perfluorooctadecanoic acid	25.0	22.41		ug/Kg		90	16 - 160
Perfluorobutanoic acid	25.0	19.60		ug/Kg		78	60 - 128
Perfluoropentanoic acid	25.0	20.27		ug/Kg		81	58 - 134
NMeFOSE	25.0	22.70		ug/Kg		91	60 - 130
NMeFOSA	25.0	23.68		ug/Kg		95	60 - 129
NEtFOSE	25.0	22.04		ug/Kg		88	60 - 126
NEtFOSA	25.0	22.91		ug/Kg		92	60 - 123
HFPODA	25.0	20.91		ug/Kg		84	49 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349094/2-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	23.6	20.05		ug/Kg		85	57 - 137
9Cl-PF3ONS	23.3	20.11		ug/Kg		86	62 - 130
11Cl-PF3OUdS	23.3	19.42		ug/Kg		84	55 - 135
Perfluorododecanoic acid	25.0	21.45		ug/Kg		86	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	21.64		ug/Kg		93	58 - 131
Perfluoroundecanoic acid	25.0	20.57		ug/Kg		82	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.66		ug/Kg		96	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	22.38		ug/Kg		93	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*116*		*10 - 200*
M2-8:2 FTS	*117*		*15 - 200*
M2-6:2 FTS	*112*		*10 - 200*
13C5 PFHxA	*122*		*10 - 174*
13C4 PFHpA	*117*		*10 - 178*
13C8 PFOA	*125*		*26 - 159*
13C9 PFNA	*125*		*26 - 165*
13C6 PFDA	*124*		*26 - 161*
13C7 PFUnA	*122*		*12 - 173*
13C2-PFDoDA	*114*		*11 - 166*
13C2 PFTeDA	*128*		*10 - 169*
13C3 PFBS	*122*		*27 - 179*
13C3 PFHxS	*119*		*24 - 171*
13C8 PFOS	*122*		*41 - 154*
d3-NMeFOSAA	*107*		*10 - 178*
d5-NEtFOSAA	*109*		*10 - 193*
13C8 FOSA	*60*		*14 - 163*
13C4 PFBA	*110*		*28 - 153*
13C5 PFPeA	*120*		*24 - 161*
d7-N-MeFOSE-M	*65*		*10 - 179*
d3-NMePFOSA	*12*		*10 - 175*
d9-N-EtFOSE-M	*70*		*10 - 185*
d5-NEtPFOSA	*9*	**5-*	*10 - 180*
13C3 HFPO-DA	*108*		*10 - 169*

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		30.8	26.52		ug/Kg	☼	86	59 - 132
Perfluoroheptanoic acid	ND		30.8	26.76		ug/Kg	☼	87	59 - 137
Perfluorooctanoic acid	ND		30.8	25.70		ug/Kg	☼	83	59 - 131
Perfluorononanoic acid	ND		30.8	27.23		ug/Kg	☼	88	61 - 134
Perfluorodecanoic acid	ND		30.8	25.54		ug/Kg	☼	83	56 - 133
Perfluorotridecanoic acid	ND		30.8	26.59		ug/Kg	☼	86	53 - 143
Perfluorotetradecanoic acid	ND		30.8	25.04		ug/Kg	☼	81	62 - 134
Perfluorobutanesulfonic acid	ND		27.3	22.99		ug/Kg	☼	84	54 - 130
Perfluorohexanesulfonic acid	ND		28.1	23.13		ug/Kg	☼	82	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	ND		28.5	23.51		ug/Kg	☼	82	61 - 126
NEtFOSAA	ND		30.8	26.97		ug/Kg	☼	87	57 - 127
NMeFOSAA	ND		30.8	28.70		ug/Kg	☼	93	60 - 134
10:2 FTS	ND		29.7	28.02		ug/Kg	☼	94	46 - 143
Perfluoropentanesulfonic acid	ND		28.9	26.31		ug/Kg	☼	91	57 - 133
Perfluoroheptanesulfonic acid	ND		29.4	25.45		ug/Kg	☼	87	59 - 132
Perfluorononanesulfonic acid	ND		29.6	25.26		ug/Kg	☼	85	60 - 132
Perfluorodecanesulfonic acid	ND		29.7	25.32		ug/Kg	☼	85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		29.9	24.80		ug/Kg	☼	83	38 - 145
Perfluorooctanesulfonamide	ND		30.8	27.85		ug/Kg	☼	90	47 - 149
Perfluorohexadecanoic acid	ND		30.8	24.93		ug/Kg	☼	81	38 - 147
Perfluorooctadecanoic acid	ND		30.8	26.06		ug/Kg	☼	84	16 - 160
Perfluorobutanoic acid	ND		30.8	24.46		ug/Kg	☼	79	60 - 128
Perfluoropentanoic acid	ND		30.8	25.17		ug/Kg	☼	82	58 - 134
NMeFOSE	ND		30.8	29.43		ug/Kg	☼	95	60 - 130
NMeFOSA	ND		30.8	27.98		ug/Kg	☼	91	60 - 129
NEtFOSE	ND		30.8	27.76		ug/Kg	☼	90	60 - 126
NEtFOSA	ND		30.8	27.92		ug/Kg	☼	91	60 - 123
HFPODA	ND		30.8	26.59		ug/Kg	☼	86	49 - 135
DONA	ND		29.2	23.79		ug/Kg	☼	82	57 - 137
9Cl-PF3ONS	ND		28.7	24.84		ug/Kg	☼	87	62 - 130
11Cl-PF3OUdS	ND		28.7	24.88		ug/Kg	☼	87	55 - 135
Perfluorododecanoic acid	ND		30.8	23.74		ug/Kg	☼	77	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		28.8	27.30		ug/Kg	☼	95	58 - 131
Perfluoroundecanoic acid	ND		30.8	26.83		ug/Kg	☼	87	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		29.2	25.52		ug/Kg	☼	87	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		29.6	27.38		ug/Kg	☼	93	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*83*		*10 - 200*
M2-8:2 FTS	*92*		*15 - 200*
M2-6:2 FTS	*86*		*10 - 200*
13C5 PFHxA	*96*		*10 - 174*
13C4 PFHpA	*94*		*10 - 178*
13C8 PFOA	*94*		*26 - 159*
13C9 PFNA	*94*		*26 - 165*
13C6 PFDA	*86*		*26 - 161*
13C7 PFUnA	*102*		*12 - 173*
13C2-PFDoDA	*92*		*11 - 166*
13C2 PFTeDA	*100*		*10 - 169*
13C3 PFBS	*101*		*27 - 179*
13C3 PFHxS	*108*		*24 - 171*
13C8 PFOS	*103*		*41 - 154*
d3-NMeFOSAA	*33*		*10 - 178*
d5-NEtFOSAA	*44*		*10 - 193*
13C8 FOSA	*101*		*14 - 163*
13C4 PFBA	*91*		*28 - 153*
13C5 PFPeA	*92*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d7-N-MeFOSE-M	94		10 - 179
d3-NMePFOSA	76		10 - 175
d9-N-EtFOSE-M	102		10 - 185
d5-NEtPFOSA	78		10 - 180
13C3 HFPO-DA	97		10 - 169

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		30.2	25.44		ug/Kg	☼	84	59 - 132	4	30
Perfluoroheptanoic acid	ND		30.2	25.92		ug/Kg	☼	86	59 - 137	3	30
Perfluorooctanoic acid	ND		30.2	24.70		ug/Kg	☼	82	59 - 131	4	30
Perfluorononanoic acid	ND		30.2	25.44		ug/Kg	☼	84	61 - 134	7	30
Perfluorodecanoic acid	ND		30.2	24.73		ug/Kg	☼	82	56 - 133	3	30
Perfluorotridecanoic acid	ND		30.2	26.61		ug/Kg	☼	88	53 - 143	0	30
Perfluorotetradecanoic acid	ND		30.2	25.13		ug/Kg	☼	83	62 - 134	0	30
Perfluorobutanesulfonic acid	ND		26.8	22.55		ug/Kg	☼	84	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		27.6	23.26		ug/Kg	☼	84	59 - 129	1	30
Perfluorooctanesulfonic acid	ND		28.0	24.02		ug/Kg	☼	86	61 - 126	2	30
NEtFOSAA	ND		30.2	25.48		ug/Kg	☼	84	57 - 127	6	30
NMeFOSAA	ND		30.2	26.75		ug/Kg	☼	88	60 - 134	7	30
10:2 FTS	ND		29.2	26.55		ug/Kg	☼	91	46 - 143	5	30
Perfluoropentanesulfonic acid	ND		28.4	25.19		ug/Kg	☼	89	57 - 133	4	30
Perfluoroheptanesulfonic acid	ND		28.8	25.42		ug/Kg	☼	88	59 - 132	0	30
Perfluorononanesulfonic acid	ND		29.0	24.93		ug/Kg	☼	86	60 - 132	1	30
Perfluorodecanesulfonic acid	ND		29.2	25.93		ug/Kg	☼	89	57 - 132	2	30
Perfluorododecanesulfonic acid (PFDoS)	ND		29.3	24.61		ug/Kg	☼	84	38 - 145	1	30
Perfluorooctanesulfonamide	ND		30.2	27.91		ug/Kg	☼	92	47 - 149	0	30
Perfluorohexadecanoic acid	ND		30.2	24.10		ug/Kg	☼	80	38 - 147	3	30
Perfluorooctadecanoic acid	ND		30.2	25.44		ug/Kg	☼	84	16 - 160	2	30
Perfluorobutanoic acid	ND		30.2	24.51		ug/Kg	☼	81	60 - 128	0	30
Perfluoropentanoic acid	ND		30.2	25.72		ug/Kg	☼	85	58 - 134	2	30
NMeFOSE	ND		30.2	27.89		ug/Kg	☼	92	60 - 130	5	30
NMeFOSA	ND		30.2	28.88		ug/Kg	☼	95	60 - 129	3	30
NEtFOSE	ND		30.2	26.29		ug/Kg	☼	87	60 - 126	5	30
NEtFOSA	ND		30.2	29.48		ug/Kg	☼	97	60 - 123	5	30
HFPODA	ND		30.2	26.65		ug/Kg	☼	88	49 - 135	0	30
DONA	ND		28.6	22.90		ug/Kg	☼	80	57 - 137	4	30
9Cl-PF3ONS	ND		28.1	24.28		ug/Kg	☼	86	62 - 130	2	30
11Cl-PF3OUdS	ND		28.1	24.05		ug/Kg	☼	86	55 - 135	3	30
Perfluorododecanoic acid	ND		30.2	24.09		ug/Kg	☼	80	60 - 135	1	30
4:2 Fluorotelomer sulfonic acid	ND		28.3	26.00		ug/Kg	☼	92	58 - 131	5	30
Perfluoroundecanoic acid	ND		30.2	26.73		ug/Kg	☼	88	60 - 134	0	30
6:2 Fluorotelomer sulfonic acid	ND		28.7	25.67		ug/Kg	☼	90	59 - 135	1	30
8:2 Fluorotelomer sulfonic acid	ND		29.0	26.61		ug/Kg	☼	92	55 - 133	3	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	105		10 - 200
M2-8:2 FTS	122		15 - 200
M2-6:2 FTS	109		10 - 200
13C5 PFHxA	116		10 - 174
13C4 PFHpA	115		10 - 178
13C8 PFOA	116		26 - 159
13C9 PFNA	116		26 - 165
13C6 PFDA	113		26 - 161
13C7 PFUnA	125		12 - 173
13C2-PFDoDA	117		11 - 166
13C2 PFTeDA	131		10 - 169
13C3 PFBS	122		27 - 179
13C3 PFHxS	124		24 - 171
13C8 PFOS	119		41 - 154
d3-NMeFOSAA	49		10 - 178
d5-NEtFOSAA	72		10 - 193
13C8 FOSA	105		14 - 163
13C4 PFBA	111		28 - 153
13C5 PFPeA	110		24 - 161
d7-N-MeFOSE-M	104		10 - 179
d3-NMePFOSA	78		10 - 175
d9-N-EtFOSE-M	114		10 - 185
d5-NEtPFOSA	79		10 - 180
13C3 HFPO-DA	110		10 - 169

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-349123/1-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Arsenic	ND		3.00	1.40	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Barium	ND		0.500	0.150	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Beryllium	ND		0.500	0.100	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Cadmium	ND		0.500	0.100	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Chromium	0.3952	J	1.50	0.350	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Lead	ND		1.50	0.600	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Nickel	ND		1.00	0.260	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Selenium	ND		5.00	1.50	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Thallium	ND		3.00	1.30	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Vanadium	ND		1.00	0.430	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Zinc	ND		2.00	0.800	mg/Kg		03/01/23 11:49	03/03/23 01:04	1

Lab Sample ID: LCS 410-349123/2-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.46		mg/Kg		105	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-349123/2-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	50.0	50.53		mg/Kg		101	80 - 120
Barium	50.0	52.94		mg/Kg		106	80 - 120
Beryllium	5.00	5.644		mg/Kg		113	80 - 120
Cadmium	5.00	5.408		mg/Kg		108	80 - 120
Chromium	50.0	50.10		mg/Kg		100	80 - 120
Lead	5.00	5.842		mg/Kg		117	80 - 120
Nickel	50.0	55.49		mg/Kg		111	80 - 120
Selenium	10.0	10.71		mg/Kg		107	80 - 120
Silver	5.00	5.563	^3+	mg/Kg		111	80 - 120
Thallium	10.0	10.86		mg/Kg		109	80 - 120
Vanadium	50.0	51.89		mg/Kg		104	80 - 120
Zinc	50.0	52.25		mg/Kg		104	80 - 120

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	8.42	5.745	F1	mg/Kg	☼	68	75 - 125
Arsenic	3.74		42.1	43.36		mg/Kg	☼	94	75 - 125
Barium	29.4		42.1	71.02		mg/Kg	☼	99	75 - 125
Beryllium	0.872		4.21	5.485		mg/Kg	☼	110	75 - 125
Cadmium	ND		4.21	4.216		mg/Kg	☼	100	75 - 125
Chromium	8.75	B	42.1	49.39		mg/Kg	☼	97	75 - 125
Lead	12.0	F1	4.21	13.14	F1	mg/Kg	☼	28	75 - 125
Nickel	2.70		42.1	46.00		mg/Kg	☼	103	75 - 125
Selenium	ND		8.42	8.452		mg/Kg	☼	100	75 - 125
Silver	ND	^3+	4.21	4.582	^3+	mg/Kg	☼	109	75 - 125
Vanadium	15.9		42.1	59.40		mg/Kg	☼	103	75 - 125
Zinc	19.1		42.1	55.44		mg/Kg	☼	86	75 - 125

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		8.42	8.133		mg/Kg	☼	97	75 - 125

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	8.97	6.731		mg/Kg	☼	75	75 - 125	16	30
Arsenic	3.74		44.8	46.61		mg/Kg	☼	96	75 - 125	7	30
Barium	29.4		44.8	74.68		mg/Kg	☼	101	75 - 125	5	30
Beryllium	0.872		4.48	5.828		mg/Kg	☼	111	75 - 125	6	30
Cadmium	ND		4.48	4.525		mg/Kg	☼	101	75 - 125	7	30
Chromium	8.75	B	44.8	53.31		mg/Kg	☼	99	75 - 125	8	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	12.0	F1	4.48	13.18	F1	mg/Kg	☼	27	75 - 125	0	30
Nickel	2.70		44.8	49.11		mg/Kg	☼	104	75 - 125	7	30
Selenium	ND		8.97	9.478		mg/Kg	☼	106	75 - 125	11	30
Silver	ND	^3+	4.48	4.823	^3+	mg/Kg	☼	108	75 - 125	5	30
Vanadium	15.9		44.8	63.60		mg/Kg	☼	106	75 - 125	7	30
Zinc	19.1		44.8	57.75		mg/Kg	☼	86	75 - 125	4	30

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	ND		8.97	9.946		mg/Kg	☼	111	75 - 125	20	30

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	ND	F1		ND		mg/Kg	☼			NC	30
Arsenic	3.74			3.436		mg/Kg	☼			9	30
Barium	29.4			27.56		mg/Kg	☼			7	30
Beryllium	0.872			0.9343		mg/Kg	☼			7	30
Cadmium	ND			ND		mg/Kg	☼			NC	30
Chromium	8.75	B		9.282		mg/Kg	☼			6	30
Lead	12.0	F1		8.104	F3	mg/Kg	☼			38	30
Nickel	2.70			2.847		mg/Kg	☼			5	30
Selenium	ND			ND		mg/Kg	☼			NC	30
Silver	ND	^3+		ND	^3+	mg/Kg	☼			NC	30
Vanadium	15.9			16.70		mg/Kg	☼			5	30
Zinc	19.1			12.66	F3	mg/Kg	☼			40	30

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Thallium	ND			ND		mg/Kg	☼			NC	30

Lab Sample ID: MB 410-349150/1-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Arsenic	ND		3.00	1.40	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Barium	ND		0.500	0.150	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Beryllium	0.1079	J	0.500	0.100	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Cadmium	ND		0.500	0.100	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Chromium	ND		1.50	0.350	mg/Kg		03/01/23 12:43	03/03/23 07:13	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-349150/1-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		1.00	0.260	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Selenium	ND		5.00	1.50	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Thallium	ND		3.00	1.30	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Vanadium	ND		1.00	0.430	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Zinc	ND		2.00	0.800	mg/Kg		03/01/23 12:43	03/03/23 07:13	1

Lab Sample ID: MB 410-349150/1-A
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.50	0.600	mg/Kg		03/01/23 12:43	03/06/23 15:23	1
Silver	ND		1.00	0.400	mg/Kg		03/01/23 12:43	03/06/23 15:23	1

Lab Sample ID: LCS 410-349150/2-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.63		mg/Kg		106	80 - 120
Arsenic	50.0	51.35		mg/Kg		103	80 - 120
Barium	50.0	53.48		mg/Kg		107	80 - 120
Beryllium	5.00	5.702		mg/Kg		114	80 - 120
Cadmium	5.00	5.494		mg/Kg		110	80 - 120
Chromium	50.0	49.28		mg/Kg		99	80 - 120
Nickel	50.0	56.62		mg/Kg		113	80 - 120
Selenium	10.0	10.91		mg/Kg		109	80 - 120
Thallium	10.0	11.25		mg/Kg		112	80 - 120
Vanadium	50.0	51.89		mg/Kg		104	80 - 120
Zinc	50.0	53.33		mg/Kg		107	80 - 120

Lab Sample ID: LCS 410-349150/2-A
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	5.00	4.600		mg/Kg		92	80 - 120
Silver	5.00	5.003		mg/Kg		100	80 - 120

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F2	9.61	7.291		mg/Kg	☼	76	75 - 125
Arsenic	6.17		48.0	52.01		mg/Kg	☼	95	75 - 125
Barium	65.8	F2 F1	48.0	130.8	F1	mg/Kg	☼	135	75 - 125
Beryllium	1.21	B	4.80	6.602		mg/Kg	☼	112	75 - 125
Cadmium	ND		4.80	4.674		mg/Kg	☼	97	75 - 125
Chromium	15.8	F1	48.0	62.51		mg/Kg	☼	97	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	9.74		48.0	59.56		mg/Kg	☼	104	75 - 125
Selenium	ND		9.61	9.421		mg/Kg	☼	98	75 - 125
Silver	ND	^3+	4.80	5.223	^3+	mg/Kg	☼	109	75 - 125
Vanadium	27.7	F1	48.0	80.41		mg/Kg	☼	110	75 - 125
Zinc	37.9	F1	48.0	89.81		mg/Kg	☼	108	75 - 125

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	6.33	F2 F1	4.80	11.73		mg/Kg	☼	113	75 - 125
Thallium	ND		9.61	9.876		mg/Kg	☼	103	75 - 125

Lab Sample ID: 620-10021-5 MSD
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F2	10.4	9.946	F2	mg/Kg	☼	96	75 - 125	31	30
Arsenic	6.17		51.8	53.40		mg/Kg	☼	91	75 - 125	3	30
Barium	65.8	F2 F1	51.8	79.75	F2 F1	mg/Kg	☼	27	75 - 125	49	30
Beryllium	1.21	B	5.18	6.086		mg/Kg	☼	94	75 - 125	8	30
Cadmium	ND		5.18	5.363		mg/Kg	☼	103	75 - 125	14	30
Chromium	15.8	F1	51.8	54.44	F1	mg/Kg	☼	74	75 - 125	14	30
Nickel	9.74		51.8	58.44		mg/Kg	☼	94	75 - 125	2	30
Selenium	ND		10.4	10.17		mg/Kg	☼	98	75 - 125	8	30
Silver	ND	^3+	5.18	5.410	^3+	mg/Kg	☼	104	75 - 125	4	30
Vanadium	27.7	F1	51.8	62.03	F1	mg/Kg	☼	66	75 - 125	26	30
Zinc	37.9	F1	51.8	70.15	F1	mg/Kg	☼	62	75 - 125	25	30

Lab Sample ID: 620-10021-5 MSD
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	6.33	F2 F1	5.18	7.721	F2 F1	mg/Kg	☼	27	75 - 125	41	30
Thallium	ND		10.4	10.20		mg/Kg	☼	98	75 - 125	3	30

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND	F2	ND		mg/Kg	☼	NC	30
Arsenic	6.17		4.793		mg/Kg	☼	25	30
Barium	65.8	F2 F1	49.30		mg/Kg	☼	29	30
Beryllium	1.21	B	0.9616		mg/Kg	☼	23	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	15.8	F1	12.79		mg/Kg	☼	21	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	9.74		8.087		mg/Kg	☼	19	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Vanadium	27.7	F1	21.65		mg/Kg	☼	25	30
Zinc	37.9	F1	31.26		mg/Kg	☼	19	30

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	6.33	F2 F1	5.355		mg/Kg	☼	17	30
Thallium	ND		1.145	J	mg/Kg	☼	NC	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-349462/1-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/02/23 08:13	03/02/23 13:33	1

Lab Sample ID: LCS 410-349462/2-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.09996		mg/Kg		100	80 - 120

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0405	J	0.208	0.2877		mg/Kg	☼	119	75 - 125

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0405	J	0.195	0.2694		mg/Kg	☼	118	75 - 125	7	35

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0405	J	0.06609	J	mg/Kg	☼	48	50

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-349464/1-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/02/23 08:18	03/02/23 14:36	1

Lab Sample ID: LCS 410-349464/2-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349464

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.100	0.1049		mg/Kg		105	80 - 120		

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349464

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.197	0.2295		mg/Kg	☼	116	75 - 125		

Lab Sample ID: 620-10021-5 MSD
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349464

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.182	0.1966		mg/Kg	☼	108	75 - 125	15	35

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349464

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		mg/Kg	☼			NC	50

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10021-1 DU
Matrix: Solid
Analysis Batch: 20133

Client Sample ID: 2023-SB-02-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.2			8.3	F3	%				38	5
Percent Solids	87.8			91.7		%				4	5

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 20133

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	19.8			18.5	F3	%				7	5
Percent Solids	80.2			81.5		%				2	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

GC/MS VOA

Pre Prep Batch: 20132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	Frozen Preserve	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	Frozen Preserve	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	Frozen Preserve	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	Frozen Preserve	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	Frozen Preserve	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	Frozen Preserve	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	Frozen Preserve	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	Frozen Preserve	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	Frozen Preserve	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	Frozen Preserve	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	Frozen Preserve	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	Frozen Preserve	
620-10021-13	2023-FD-01	Total/NA	Solid	Frozen Preserve	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	Frozen Preserve	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	Frozen Preserve	
620-10021-16	Trip Blank	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	5035	20132
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	5035	20132
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	5035	20132
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	5035	20132
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	5035	20132
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	5035	20132
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	5035	20132
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	5035	20132
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	5035	20132
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	5035	20132
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	5035	20132
620-10021-13	2023-FD-01	Total/NA	Solid	5035	20132
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	5035	20132
620-10021-16	Trip Blank	Total/NA	Solid	5035	20132
MB 620-20151/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20151/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20151/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

GC/MS VOA

Analysis Batch: 20152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8260C	20151
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	8260C	20151
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	8260C	20151
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	8260C	20151
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	8260C	20151
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	8260C	20151
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	8260C	20151
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	8260C	20151
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	8260C	20151
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	8260C	20151
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	8260C	20151
620-10021-13	2023-FD-01	Total/NA	Solid	8260C	20151
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	8260C	20151
620-10021-16	Trip Blank	Total/NA	Solid	8260C	20151
MB 620-20151/3-A	Method Blank	Total/NA	Solid	8260C	20151
LCS 620-20151/1-A	Lab Control Sample	Total/NA	Solid	8260C	20151
LCSD 620-20151/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20151

Prep Batch: 20238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	5035	20132
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	5035	20132
MB 620-20238/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	8260C	20238
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	8260C	20238
MB 620-20238/3-A	Method Blank	Total/NA	Solid	8260C	20238
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	8260C	20238
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20238

GC/MS Semi VOA

Prep Batch: 20217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	3546	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	3546	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	3546	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	3546	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	3546	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	3546	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	3546	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	3546	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	3546	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	3546	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	3546	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	3546	
620-10021-13	2023-FD-01	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 20217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	3546	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	3546	
MB 620-20217/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20217/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20217/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	8270D	20217
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	8270D	20217
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	8270D	20217
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	8270D	20217
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	8270D	20217
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	8270D	20217
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	8270D	20217
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	8270D	20217
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	8270D	20217
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	8270D	20217
MB 620-20217/1-A	Method Blank	Total/NA	Solid	8270D	20217
LCS 620-20217/2-A	Lab Control Sample	Total/NA	Solid	8270D	20217
LCSD 620-20217/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20217

Analysis Batch: 20349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8270D	20217
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	8270D	20217
620-10021-13	2023-FD-01	Total/NA	Solid	8270D	20217
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	8270D	20217
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	8270D	20217

Analysis Batch: 20386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8270D	20217

GC VOA

Prep Batch: 660132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	5035A_H	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	5035A_H	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	5035A_H	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	5035A_H	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	5035A_H	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	5035A_H	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	5035A_H	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	5035A_H	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	5035A_H	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	5035A_H	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	5035A_H	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	5035A_H	
620-10021-13	2023-FD-01	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 660132 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	5035A_H	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	5035A_H	
MB 480-660132/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660132/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660132/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 660138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	MAVPH	660132
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	MAVPH	660132
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	MAVPH	660132
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	MAVPH	660132
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	MAVPH	660132
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	MAVPH	660132
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	MAVPH	660132
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	MAVPH	660132
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	MAVPH	660132
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	MAVPH	660132
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	MAVPH	660132
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	MAVPH	660132
620-10021-13	2023-FD-01	Total/NA	Solid	MAVPH	660132
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	MAVPH	660132
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	MAVPH	660132
MB 480-660132/1-A	Method Blank	Total/NA	Solid	MAVPH	660132
LCS 480-660132/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660132
LCSD 480-660132/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660132

Analysis Batch: 660281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	MA VPH SUM	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	MA VPH SUM	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	MA VPH SUM	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	MA VPH SUM	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	MA VPH SUM	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	MA VPH SUM	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	MA VPH SUM	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	MA VPH SUM	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	MA VPH SUM	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	MA VPH SUM	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	MA VPH SUM	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	MA VPH SUM	
620-10021-13	2023-FD-01	Total/NA	Solid	MA VPH SUM	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	MA VPH SUM	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	MA VPH SUM	

GC Semi VOA

Prep Batch: 20161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	3540C	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	3540C	

GC Semi VOA (Continued)

Prep Batch: 20161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	3540C	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	3540C	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	3540C	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	3540C	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	3540C	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	3540C	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	3540C	
MB 620-20161/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20161/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20161/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Prep Batch: 20162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	3540C	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	3540C	
620-10021-13	2023-FD-01	Total/NA	Solid	3540C	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	3540C	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	3540C	
MB 620-20162/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20162/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20162/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20161/1-A	Method Blank	Total/NA	Solid	8082	20161
LCS 620-20161/2-A	Lab Control Sample	Total/NA	Solid	8082	20161
LCSD 620-20161/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20161

Analysis Batch: 20222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8082	20161
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	8082	20161
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	8082	20161
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	8082	20161
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	8082	20161
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	8082	20161
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	8082	20161
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	8082	20161
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	8082	20161
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	8082	20162
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	8082	20162
620-10021-13	2023-FD-01	Total/NA	Solid	8082	20162
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	8082	20162
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	8082	20162
MB 620-20162/1-A	Method Blank	Total/NA	Solid	8082	20162
LCS 620-20162/2-A	Lab Control Sample	Total/NA	Solid	8082	20162
LCSD 620-20162/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20162

Prep Batch: 20272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	3540C	

GC Semi VOA (Continued)

Prep Batch: 20272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20272/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20272/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20272/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	8082	20272
MB 620-20272/1-A	Method Blank	Total/NA	Solid	8082	20272
LCS 620-20272/2-A	Lab Control Sample	Total/NA	Solid	8082	20272
LCSD 620-20272/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20272

LCMS

Prep Batch: 349094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	537 (mod)	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	537 (mod)	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	537 (mod)	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	537 (mod)	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	537 (mod)	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	537 (mod)	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	537 (mod)	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	537 (mod)	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	537 (mod)	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	537 (mod)	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	537 (mod)	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	537 (mod)	
620-10021-13	2023-FD-01	Total/NA	Solid	537 (mod)	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	537 (mod)	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	537 (mod)	
MB 410-349094/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-349094/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	537 (mod)	
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 349172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	Extract Aliquot	349094
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	Extract Aliquot	349094
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	Extract Aliquot	349094
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	Extract Aliquot	349094
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	Extract Aliquot	349094
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	Extract Aliquot	349094
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	Extract Aliquot	349094
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	Extract Aliquot	349094
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	Extract Aliquot	349094
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	Extract Aliquot	349094
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	Extract Aliquot	349094
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	Extract Aliquot	349094
620-10021-13	2023-FD-01	Total/NA	Solid	Extract Aliquot	349094
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	Extract Aliquot	349094

LCMS (Continued)

Cleanup Batch: 349172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	Extract Aliquot	349094
MB 410-349094/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	349094
LCS 410-349094/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	349094
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	Extract Aliquot	349094
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	Extract Aliquot	349094

Analysis Batch: 352453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-13	2023-FD-01	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
MB 410-349094/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	349172
LCS 410-349094/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172

Metals

Prep Batch: 349123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	3050B	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	3050B	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	3050B	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	3050B	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	3050B	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	3050B	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	3050B	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	3050B	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	3050B	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	3050B	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	3050B	
620-10021-13	2023-FD-01	Total/NA	Solid	3050B	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	3050B	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	3050B	
MB 410-349123/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-349123/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	3050B	
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	3050B	
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	3050B	

Metals

Prep Batch: 349150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	3050B	
MB 410-349150/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-349150/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	3050B	
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	3050B	
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	3050B	

Prep Batch: 349462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	7471A	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	7471A	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	7471A	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	7471A	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	7471A	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	7471A	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	7471A	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	7471A	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	7471A	
MB 410-349462/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-349462/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	7471A	
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	7471A	
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	7471A	

Prep Batch: 349464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	7471A	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	7471A	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	7471A	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	7471A	
620-10021-13	2023-FD-01	Total/NA	Solid	7471A	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	7471A	
MB 410-349464/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-349464/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	7471A	
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	7471A	
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	7471A	

Analysis Batch: 349684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	7471B	349462
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	7471B	349462
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	7471B	349462
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	7471B	349462
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	7471B	349462
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	7471B	349462
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	7471B	349462
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	7471B	349462
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	7471B	349464
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	7471B	349464

Metals (Continued)

Analysis Batch: 349684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	7471B	349464
620-10021-13	2023-FD-01	Total/NA	Solid	7471B	349464
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	7471B	349464
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	7471B	349462
MB 410-349462/1-A	Method Blank	Total/NA	Solid	7471B	349462
MB 410-349464/1-A	Method Blank	Total/NA	Solid	7471B	349464
LCS 410-349462/2-A	Lab Control Sample	Total/NA	Solid	7471B	349462
LCS 410-349464/2-A	Lab Control Sample	Total/NA	Solid	7471B	349464
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	7471B	349462
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	7471B	349462
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	7471B	349462

Analysis Batch: 349904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	6010D	349123
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	6010D	349123
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	6010D	349123
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	6010D	349123
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	6010D	349123
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	6010D	349123
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	6010D	349123
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	6010D	349123
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	6010D	349123
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	6010D	349123
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	6010D	349123
620-10021-13	2023-FD-01	Total/NA	Solid	6010D	349123
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	6010D	349123
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
MB 410-349123/1-A	Method Blank	Total/NA	Solid	6010D	349123
MB 410-349150/1-A	Method Blank	Total/NA	Solid	6010D	349150
LCS 410-349123/2-A	Lab Control Sample	Total/NA	Solid	6010D	349123
LCS 410-349150/2-A	Lab Control Sample	Total/NA	Solid	6010D	349150
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	6010D	349123

Analysis Batch: 350833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
MB 410-349150/1-A	Method Blank	Total/NA	Solid	6010D	349150
LCS 410-349150/2-A	Lab Control Sample	Total/NA	Solid	6010D	349150
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	6010D	349150

Metals (Continued)

Analysis Batch: 350833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	6010D	349123

General Chemistry

Analysis Batch: 20133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	Moisture	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	Moisture	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	Moisture	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	Moisture	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	Moisture	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	Moisture	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	Moisture	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	Moisture	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	Moisture	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	Moisture	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	Moisture	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	Moisture	
620-10021-13	2023-FD-01	Total/NA	Solid	Moisture	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	Moisture	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	Moisture	
620-10021-1 DU	2023-SB-02-0002'	Total/NA	Solid	Moisture	
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	Moisture	

Client Sample ID: 2023-SB-02-0002' — Lab Sample ID: 620-10021-1

Date Collected: 02/27/23 10:30 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0002' — Lab Sample ID: 620-10021-1

Date Collected: 02/27/23 10:30 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 87.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 18:49
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 18:18
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		5	20386	JS	EET NE	03/09/23 14:20
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 10:32
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/02/23 23:21
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 01:55
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:49
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:15

Client Sample ID: 2023-SB-02-0204' — Lab Sample ID: 620-10021-2

Date Collected: 02/27/23 10:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0204' — Lab Sample ID: 620-10021-2

Date Collected: 02/27/23 10:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 19:15
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 18:14

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-02-0204' Lab Sample ID: 620-10021-2

Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 11:11
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/02/23 23:38
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:06
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:46
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:17

Client Sample ID: 2023-SB-02-0406' Lab Sample ID: 620-10021-3

Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0406' Lab Sample ID: 620-10021-3

Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 19:41
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 18:42
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 11:51
Total/NA	Prep	3540C			20272	PRB	EET NE	03/03/23 15:24
Total/NA	Analysis	8082		1	20289	SFL	EET NE	03/06/23 14:55
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:17
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:43
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:24

Client Sample ID: 2023-SB-02-0608' Lab Sample ID: 620-10021-4

Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0608' Lab Sample ID: 620-10021-4

Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 20:06
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 19:11
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 12:30
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 00:12
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:28
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:39
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:26

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/02/23 22:56
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 19:39
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 13:10

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 00:30
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:39
Total/NA	Prep	3050B			349150	UAMX	ELLE	03/01/23 12:43
Total/NA	Analysis	6010D		1	350833	S4PD	ELLE	03/06/23 15:29
Total/NA	Prep	3050B			349150	UAMX	ELLE	03/01/23 12:43
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 07:26
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:41

Client Sample ID: 2023-SB-02-1012' Lab Sample ID: 620-10021-6

Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-1012' Lab Sample ID: 620-10021-6

Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 20:58
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 20:08
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 13:49
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 00:47
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:50
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:36
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:28

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0002' Lab Sample ID: 620-10021-7

Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0002' Lab Sample ID: 620-10021-7

Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 21:23
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 17:50
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 14:28
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		5	20222	SFL	EET NE	03/03/23 01:04
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:01
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:33
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:30

Client Sample ID: 2023-SB-01-0204' Lab Sample ID: 620-10021-8

Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0204' Lab Sample ID: 620-10021-8

Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 21:49
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 22:01
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 15:49

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0204' Lab Sample ID: 620-10021-8

Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		5	20222	SFL	EET NE	03/03/23 01:21
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:12
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:30
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:32

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 22:15
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 22:30
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 16:28
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 01:39
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:23
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:17
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:34

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0608' Lab Sample ID: 620-10021-10

Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0608' Lab Sample ID: 620-10021-10

Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 22:40
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 20:36
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 17:08
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 01:56
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:46
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:14
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:56

Client Sample ID: 2023-SB-01-0810' Lab Sample ID: 620-10021-11

Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0810' Lab Sample ID: 620-10021-11

Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 23:06
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 21:04
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 17:47

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0810' — Lab Sample ID: 620-10021-11

Date Collected: 02/27/23 12:20 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 02:13
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:57
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:11
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:58

Client Sample ID: 2023-SB-01-1012' — Lab Sample ID: 620-10021-12

Date Collected: 02/27/23 12:25 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-1012' — Lab Sample ID: 620-10021-12

Date Collected: 02/27/23 12:25 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 23:31
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 21:32
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 18:26
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 02:30
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:08
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:01
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 15:04

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10021-13

Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10021-13

Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 23:57
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 18:46
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 19:06
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 02:47
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:19
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:04
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 15:02

Client Sample ID: 2023-MW-01-0002' Lab Sample ID: 620-10021-14

Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-MW-01-0002' Lab Sample ID: 620-10021-14

Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/02/23 23:20
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 19:14
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 19:45

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0002' — Lab Sample ID: 620-10021-14

Date Collected: 02/27/23 13:30 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		2	20222	SFL	EET NE	03/03/23 03:05
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:30
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:07
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 15:00

Client Sample ID: 2023-MW-01-0204' — Lab Sample ID: 620-10021-15

Date Collected: 02/27/23 13:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-MW-01-0204' — Lab Sample ID: 620-10021-15

Date Collected: 02/27/23 13:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	03/01/23 00:46
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 19:43
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 20:24
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 03:22
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:41
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	350833	S4PD	ELLE	03/06/23 17:15
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 01:17
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 13:37

Lab Chronicle

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: Trip Blank
Lab Sample ID: 620-10021-16

Date Collected: 02/27/23 00:00
Matrix: Solid

Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 17:56

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-11-23
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10021-1	2023-SB-02-0002'	Solid	02/27/23 10:30	02/27/23 16:50
620-10021-2	2023-SB-02-0204'	Solid	02/27/23 10:35	02/27/23 16:50
620-10021-3	2023-SB-02-0406'	Solid	02/27/23 10:40	02/27/23 16:50
620-10021-4	2023-SB-02-0608'	Solid	02/27/23 10:45	02/27/23 16:50
620-10021-5	2023-SB-02-0810'	Solid	02/27/23 10:50	02/27/23 16:50
620-10021-6	2023-SB-02-1012'	Solid	02/27/23 10:55	02/27/23 16:50
620-10021-7	2023-SB-01-0002'	Solid	02/27/23 12:00	02/27/23 16:50
620-10021-8	2023-SB-01-0204'	Solid	02/27/23 12:05	02/27/23 16:50
620-10021-9	2023-SB-01-0406'	Solid	02/27/23 12:10	02/27/23 16:50
620-10021-10	2023-SB-01-0608'	Solid	02/27/23 12:15	02/27/23 16:50
620-10021-11	2023-SB-01-0810'	Solid	02/27/23 12:20	02/27/23 16:50
620-10021-12	2023-SB-01-1012'	Solid	02/27/23 12:25	02/27/23 16:50
620-10021-13	2023-FD-01	Solid	02/27/23 08:00	02/27/23 16:50
620-10021-14	2023-MW-01-0002'	Solid	02/27/23 13:30	02/27/23 16:50
620-10021-15	2023-MW-01-0204'	Solid	02/27/23 13:35	02/27/23 16:50
620-10021-16	Trip Blank	Solid	02/27/23 00:00	02/27/23 16:50

10021

Chain of Custody Record

eurofins | Environment Testing

620-10021 Chain of Custody

	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 1
	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 17

Bridget Fortier			
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): Standard		
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone: 978 359 9651	PO #: 500001.002		
Email: bfortier@nobis-group com	WO #:		
Project Name: American Tissue Mill	Project #:		
Site: Templeton, MA	SSOW#:		

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							P		F					
01	2023-SB-02-0002'	2/27/23	10 30	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023-SB-02-0204'		10:35		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023-SB-02-0406'		10:40		Solid			✓	✓	✓	✓	✓	✓	7	
04	2023-SB-02-0608'		10 45		Solid			✓	✓	✓	✓	✓	✓	7	
05	2023-SB-02-0810'		10.50		Solid			✓	✓	✓	✓	✓	✓	7	
06	2023-SB-02-1012'		10 55		Solid			✓	✓	✓	✓	✓	✓	7	
07	2023-SB-01-0002'		12:00		Solid			✓	✓	✓	✓	✓	✓	7	
08	2023-SB-01-0204'		12.05		Solid			✓	✓	✓	✓	✓	✓	7	
09	2023-SB-01-0406'		12:10		Solid			✓	✓	✓	✓	✓	✓	7	
10	2023-SB-01-0608'		12:15		Solid			✓	✓	✓	✓	✓	✓	7	
11	2023-SB-01-0810'	↓	12:20	↓	Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III IV, Other (specify) EQUIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/27/23 14:00	Company	Received by:	Date/Time: 2/27/23 4:40	Company
Relinquished by:	Date/Time: 2/27/23 16:50	Company	Received by:	Date/Time: 2/27/23 16:50	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.
Cooler Temperature(s) °C and Other Remarks:	3.4 +0.2 3.6 #6

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3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

(0021)

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.2
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 2 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978 399 9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
Preservation Code:							F, J		F					
2023-SB-01-1012'	2/27/23	12:25	G	Solid			✓	✓	✓	✓	✓	✓	7	
2023-FD-01		08:00		Solid			✓	✓	✓	✓	✓	✓	7	
2023-MW-01-0002'		13:30		Solid			✓	✓	✓	✓	✓	✓	7	
2023-MW-01-0204'		13:35		Solid			✓	✓	✓	✓	✓	✓	7	
TRIP BLANK	~~2/27~~			Solid			✓						2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/27/23 14:00			2/27/23 14:00	
2		2/27/23 16:50			2/27/23 16:50	ENE
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 IR#6

Ver 06/08/2021

3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8451.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/8/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-02-0002' (620-10021-1)	2/27/23	10:30 Eastern		Solid			X	X	2	
2023-SB-02-0204' (620-10021-2)	2/27/23	10:35 Eastern		Solid			X	X	2	
2023-SB-02-0406' (620-10021-3)	2/27/23	10:40 Eastern		Solid			X	X	2	
2023-SB-02-0608' (620-10021-4)	2/27/23	10:45 Eastern		Solid			X	X	2	
2023-SB-02-0810' (620-10021-5)	2/27/23	10:50 Eastern		Solid			X	X	2	
2023-SB-02-1012' (620-10021-6)	2/27/23	10:55 Eastern		Solid			X	X	2	
2023-SB-01-0002' (620-10021-7)	2/27/23	12:00 Eastern		Solid			X	X	2	
2023-SB-01-0204' (620-10021-8)	2/27/23	12:05 Eastern		Solid			X	X	2	
2023-SB-01-0406' (620-10021-9)	2/27/23	12:10 Eastern		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	[signature]	2/27/23 17:40	ET	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2/28/23 9:41	Company ECET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4

Ver: 06/08/2021

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8451.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/8/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-01-0608' (620-10021-10)	2/27/23	12:15 Eastern		Solid			X	X	2	
2023-SB-01-0810' (620-10021-11)	2/27/23	12:20 Eastern		Solid			X	X	2	
2023-SB-01-1012' (620-10021-12)	2/27/23	12:25 Eastern		Solid			X	X	2	
2023-FD-01 (620-10021-13)	2/27/23	08:00 Eastern		Solid			X	X	2	
2023-MW-01-0002' (620-10021-14)	2/27/23	13:30 Eastern		Solid			X	X	2	
2023-MW-01-0204' (620-10021-15)	2/27/23	13:35 Eastern		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 2/27/23 12:40	Company: EWET	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2/28/23 9:41	Company: EWET
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4		

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8453.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/8/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc Standard Targets and Carbon Ranges MAVPH	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-02-0002' (620-10021-1)	2/27/23	10:30 Eastern		Solid			X	X	1	
2023-SB-02-0204' (620-10021-2)	2/27/23	10:35 Eastern		Solid			X	X	1	
2023-SB-02-0406' (620-10021-3)	2/27/23	10:40 Eastern		Solid			X	X	1	
2023-SB-02-0608' (620-10021-4)	2/27/23	10:45 Eastern		Solid			X	X	1	
2023-SB-02-0810' (620-10021-5)	2/27/23	10:50 Eastern		Solid			X	X	1	
2023-SB-02-1012' (620-10021-6)	2/27/23	10:55 Eastern		Solid			X	X	1	
2023-SB-01-0002' (620-10021-7)	2/27/23	12:00 Eastern		Solid			X	X	1	
2023-SB-01-0204' (620-10021-8)	2/27/23	12:05 Eastern		Solid			X	X	1	
2023-SB-01-0406' (620-10021-9)	2/27/23	12:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		2/27/23 12:39	EUF	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					2-28-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 TCC

Ver: 06/08/2021

3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8453.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/8/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc Standard Targets and Carbon Ranges MAVPH	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-01-0608' (620-10021-10)	2/27/23	12:15 Eastern		Solid			X	X	1	
2023-SB-01-0810' (620-10021-11)	2/27/23	12:20 Eastern		Solid			X	X	1	
2023-SB-01-1012' (620-10021-12)	2/27/23	12:25 Eastern		Solid			X	X	1	
2023-FD-01 (620-10021-13)	2/27/23	08:00 Eastern		Solid			X	X	1	
2023-MW-01-0002' (620-10021-14)	2/27/23	13:30 Eastern		Solid			X	X	1	
2023-MW-01-0204' (620-10021-15)	2/27/23	13:35 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 2/27/23 17:39	Company Eur E	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10021-1

Login Number: 10021
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10021-1

Login Number: 10021
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 02/28/23 11:44 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10021-1

Login Number: 10021
List Number: 3
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 02/28/23 12:46 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

May 8, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620101171
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review:

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 (mod.)

44/Soil Samples: 2023-MW-06-0002, 2023-MW-06-0204, 2023-MW-06-0406, 2023-MW-06-0608, 2023-MW-06-0810, 2023-MW-06-1012, 2023-SB-08-0002, 2023-SB-08-0204, 2023-SB-08-0406, 2023-SB-08-0608, 2023-SB-08-0810, 2023-SB-08-1012, 2023-SB-12-0002, 2021-SB-12-0204, 2023-SB-12-0406, 2023-SB-12-0608, 2023-SB-12-0810, 2023-SB-12-1012, 2023-SB-07-0002, 2023-SB-07-0204, 2023-SB-07-0406, 2023-SB-07-0608, 2023-SB-07-0810, 2023-SB-07-1012, 2023-MW-05-0002, 2023-MW-05-0204, 2023-MW-05-0608, 2023-MW-05-0810, 2023-MW-05-1012, 2023-MW-05-0406, 2023-FD-06, 2023-FD-07, 2023-SB-06-0002, 2023-SB-06-0204, 2023-SB-06-0406, 2023-SB-06-0608, 2023-SB-06-0810, 2023-SB-06-1012, 2023-SB-05-0002, 2023-SB-05-0204, 2023-SB-05-0406, 2023-SB-05-0608, 2023-SB-05-0810, 2023-SB-05-1012
2/Field Duplicate Pairs: 2023-SB-07-0406 / 2023-FD-06 and 2023-SB-06-0406 / 2023-FD-07
2/Solid Trip Blanks: Trip Blank-05, Trip Blank-06

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 2, 2023 and March 3, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D, Polychlorinated Biphenyls by EPA Method 8082, VPHs by MassDEP-VPH, MCP-14 Metals by EPA Method 6010D/7471B, and PFAS by EPA Method 537 mod. by Eurofins New England in North Kingstown, RI, Eurofins Northeast in Amherst, NY (MassDEP-VPH analyses), and Eurofins Lancaster Laboratories in Lancaster, PA (for MCP-14 metals/mercury and PFAS analyses).

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020); USEPA's Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Preservation and Technical Holding Times
	• Blanks
	• Surrogates (organic analyses only)
NA	• Internal Standards
	• Matrix Spike Analysis
	• Laboratory Duplicates
	• Laboratory Control Samples (LCS)
	• Field Duplicates
NA	• ICP Serial Dilutions (metals only)
NA	• Performance Evaluation (PE) Samples
NA	• Target Analyte Identification
*	• Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

The non-detect result for benzidine in one sample was rejected (R) due to MS/MSD recovery. The non-detect result for the PFAS compound NMeFOSAA was rejected (R) in one soil sample due to low surrogate recovery.

Reporting limits for non-detect PCB Aroclor results exceeded the PAL of 1 mg/kg in three samples due to sample dilutions required to report PCB results. The dilution factor was 50x for all 3 samples. In addition, RLs for non-detect thallium results exceeded the PAL of 8 mg/kg in two samples due to the 10x dilution required to report other target analytes. Site objectives may be impacted.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for laboratory blank contamination and MS/MSD exceedances.

SVOCs:
The benzidine result for one sample was rejected due to MS/MSD recoveries and results were qualified due to laboratory blank contamination, LCS/LCSD exceedances, and MS/MSD exceedances.

PCBs:
Results were qualified for MS/MSD imprecision and field duplicate imprecision.

MassDEP-VPH:
Results were qualified for laboratory blank contamination.

MCP-14 Metals and Mercury:
Results were qualified for MS/MSD exceedances and laboratory duplicate imprecision.

PFAS:
One result was rejected for low surrogate recovery (< 10%) and several results were qualified due to surrogate recovery exceedances.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
Antimony	mg/kg	5.42 U	4.45 U	4.82 U	4.93 U	5.19 U
Arsenic	mg/kg	2.07 J	7.29	5.85	3.04	4.67
Barium	mg/kg	13	42.7	31	22.6	66.5
Beryllium	mg/kg	0.256 J	0.731	0.425 J	0.332 J	0.547
Cadmium	mg/kg	0.542 U	0.445 U	0.482 U	0.493 U	0.519 U
Chromium	mg/kg	3.63	12.3	9.87	12	9.8
Lead	mg/kg	2.64	4.75	4.39	2.33	26.9
Mercury	mg/kg	0.0663 U	0.0689 U	0.0615 U	0.0705 U	0.0512 J
Nickel	mg/kg	1.76	4.74	3.74	4.1	4.04
Selenium	mg/kg	5.42 U	4.45 U	4.82 U	4.93 U	5.19 U
Silver	mg/kg	1.08 U	0.89 U	0.963 U	0.987 U	1.04 U
Thallium	mg/kg	3.25 U	2.67 U	2.89 U	2.96 U	3.11 U
Vanadium	mg/kg	6.04	23	11.1	7.79	15.4
Zinc	mg/kg	8.9	24.2	16	13.4	161

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Antimony	mg/kg	4.01 U	4.88 U	4 U	5.98 UJ	4.31 U
Arsenic	mg/kg	2.4 J	1.59 J	2.02 J	7.9	3.17
Barium	mg/kg	12	10	12.8	80.1 J+	17.6 J
Beryllium	mg/kg	0.363 J	0.248 J	0.209 J	1.17	0.348 J
Cadmium	mg/kg	0.401 U	0.488 U	0.4 U	0.598 U	0.431 U
Chromium	mg/kg	5.44	2.85	3.76	21.4	6.59
Lead	mg/kg	2.99	1.93	2.05	7.35 J	2.85 J
Mercury	mg/kg	0.0681 U	0.0631 U	0.0688 U	0.0686 U	0.0686 U
Nickel	mg/kg	2.96	2.49	2.15	10.9	3.47
Selenium	mg/kg	4.01 U	4.88 U	4 U	5.98 U	4.31 U
Silver	mg/kg	0.802 U	0.976 U	0.801 U	1.2 U	0.861 U
Thallium	mg/kg	2.41 U	2.93 U	2.4 U	35.9 U	2.58 UJ
Vanadium	mg/kg	8.1	4.9	5.76	34.9	9.07 J+
Zinc	mg/kg	17.8	28.3	19.2	47.7	28 J

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
Antimony	mg/kg	5.43 U	5.12 U	5.59 U	5.49 U	4.01 U
Arsenic	mg/kg	4.2	4.35	2.03 J	2.89 J	1.86 J
Barium	mg/kg	33.1	12.3	26.3	31.4	30.1
Beryllium	mg/kg	0.332 J	0.23 J	0.238 J	0.29 J	0.265 J
Cadmium	mg/kg	0.543 U	0.512 U	0.559 U	0.549 U	0.401 U
Chromium	mg/kg	9.47	3.2	3.92	9.44	11.4
Lead	mg/kg	6.36	2.74	3.02	4.51	3.25
Mercury	mg/kg	0.0666 U	0.0657 U	0.065 U	0.0682 U	0.0664 U
Nickel	mg/kg	5.22	1.57	1.83	4.47	3.43
Selenium	mg/kg	5.43 U	5.12 U	5.59 U	5.49 U	4.01 U
Silver	mg/kg	1.09 U	1.02 U	1.12 U	1.1 U	0.802 U
Thallium	mg/kg	3.26 U	3.07 U	3.35 U	3.29 U	2.4 U
Vanadium	mg/kg	14	5.25	5.74	9.11	8.57
Zinc	mg/kg	23.2	6.55	8.66	19.4	12.2

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Antimony	mg/kg	5.59 U	4.84 U	8.25	3.08 J	5.33 U
Arsenic	mg/kg	3.35 U	2.9 U	6.48	6.18	3.2 U
Barium	mg/kg	20.6	19.4	3780	531	13.5
Beryllium	mg/kg	0.222 J	0.215 J	0.642	0.621	0.216 J
Cadmium	mg/kg	0.559 U	0.484 U	1.08	0.216 J	0.533 U
Chromium	mg/kg	4.58	6.33	27.1	10.3	3.38
Lead	mg/kg	2.22	2.25	676	76.1	3.86
Mercury	mg/kg	0.0683 U	0.0659 U	0.0307 J	0.0264 J	0.0691 U
Nickel	mg/kg	2.63	2.86	8.71	10.3	1.76
Selenium	mg/kg	5.59 U	4.84 U	5.18 U	4.77 U	5.33 U
Silver	mg/kg	1.12 U	0.968 U	1.04 U	0.954 U	1.07 U
Thallium	mg/kg	3.35 U	2.9 U	3.11 U	2.86 U	3.2 U
Vanadium	mg/kg	6.87	6.34	14	11.9	4.65
Zinc	mg/kg	10.1	9.55	1970	302	7.78

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Antimony	mg/kg	4.29 U	5.46 U	4.66 U	5.59 U	4.97 U
Arsenic	mg/kg	2.57 U	3.28 U	2.47 J	3.35 U	2.06 J
Barium	mg/kg	22.1	9.86	11.9	15.5	26.7
Beryllium	mg/kg	0.208 J	0.155 J	0.206 J	0.378 J	0.256 J
Cadmium	mg/kg	0.429 U	0.546 U	0.466 U	0.559 U	0.497 U
Chromium	mg/kg	5.1	6.38	2.95	4.99	10.6
Lead	mg/kg	2.54	2.12	2.16	5.35	5.21
Mercury	mg/kg	0.0657 U	0.0688 U	0.0617 U	0.0687 U	0.0674 U
Nickel	mg/kg	2.94	2.02	1.32	1.6	4.08
Selenium	mg/kg	4.29 U	5.46 U	4.66 U	5.59 U	4.97 U
Silver	mg/kg	0.858 U	1.09 U	0.932 U	1.12 U	0.994 U
Thallium	mg/kg	2.57 U	3.28 U	2.8 U	3.35 U	2.98 U
Vanadium	mg/kg	8.26	4.16	4.39	3.83	8.49
Zinc	mg/kg	11.8	7.25	5.24	5.43	18.4

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Antimony	mg/kg	4.09 U	5.73 U	5.48 U	3.93 U	4.68 U
Arsenic	mg/kg	1.66 J	1.78 J	1.9 J	1.6 J	1.8 J
Barium	mg/kg	20.6	130	225	23.5	24.6
Beryllium	mg/kg	0.28 J	0.177 J	0.255 J	0.325 J	0.253 J
Cadmium	mg/kg	0.409 U	0.573 U	0.548 U	0.393 U	0.468 U
Chromium	mg/kg	6.28	2.35	4.27	6.63	6.12
Lead	mg/kg	2.9	13.4	27.8	2.9	2.87
Mercury	mg/kg	0.0662 U	0.069 U	0.0701 U	0.0661 U	0.069 U
Nickel	mg/kg	3.93	1.16	1.94	3.33	2.85
Selenium	mg/kg	4.09 U	5.73 U	5.48 U	3.93 U	4.68 U
Silver	mg/kg	0.818 U	1.15 U	1.1 U	0.787 U	0.935 U
Thallium	mg/kg	2.45 U	3.44 U	3.29 U	2.36 U	2.81 U
Vanadium	mg/kg	9.14	3.76	6.47	10.2	7.94
Zinc	mg/kg	64	85.7	125	58.8	61.5

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Antimony	mg/kg	5.32 U	4.3 U	4.12 U	5.16 U	7.38 U
Arsenic	mg/kg	2.29 J	1.99 J	3.33	2.32 J	3.22 J
Barium	mg/kg	21.9	18.2	18.2	57	45.7
Beryllium	mg/kg	0.285 J	0.229 J	0.288 J	0.267 J	0.691 J
Cadmium	mg/kg	0.532 U	0.43 U	0.412 U	0.516 U	0.738 U
Chromium	mg/kg	5.9	5.14	5.75	4.5	6.85
Lead	mg/kg	3.46	2.69	2.43	26.8	23.3
Mercury	mg/kg	0.0668 U	0.0629 U	0.0621 U	0.0411 J	0.0464 J
Nickel	mg/kg	3.16	2.33	2.49	3.3	4.2
Selenium	mg/kg	5.32 U	4.3 U	4.12 U	5.16 U	7.38 U
Silver	mg/kg	1.06 U	0.86 U	0.824 U	1.03 U	1.48 U
Thallium	mg/kg	3.19 U	2.58 U	2.47 U	3.1 U	4.43 U
Vanadium	mg/kg	9.08	8.56	9.14	5.9	10.5
Zinc	mg/kg	14.6	38.9	11.2	81	140

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
Antimony	mg/kg	3.99 U	5.09 U	3.96 U	4.6 U	4.51 U
Arsenic	mg/kg	1.43 J	3.05 U	1.54 J	1.85 J	5.58
Barium	mg/kg	26.3	27.4	33.6	19.4	44.5
Beryllium	mg/kg	0.285 J	0.243 J	0.276 J	0.235 J	0.585
Cadmium	mg/kg	0.399 U	0.509 U	0.396 U	0.46 U	0.451 U
Chromium	mg/kg	5.42	4.65	5.74	4.84	11.4
Lead	mg/kg	4.16	2.9	2.77	2.97	4.75
Mercury	mg/kg	0.0659 U	0.0703 U	0.0666 U	0.0667 U	0.0722 U
Nickel	mg/kg	2.81	3.58	4.37	2.84	5.39
Selenium	mg/kg	3.99 U	5.09 U	3.96 U	4.6 U	4.51 U
Silver	mg/kg	0.799 U	1.02 U	0.793 U	0.92 U	0.903 U
Thallium	mg/kg	2.4 U	3.05 U	2.38 U	2.76 U	27.1 U
Vanadium	mg/kg	6.68	6.57	8.82	5.78	19.6
Zinc	mg/kg	44.1	19.2	17.1	15	24.2

DATA SUMMARY TABLE

Analysis		Metals in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
Antimony	mg/kg	5.82 U	5.26	4.2 U	4.64 U
Arsenic	mg/kg	2.72 J	15.2	3.57	2.03 J
Barium	mg/kg	17.7	193	17	12.7
Beryllium	mg/kg	0.312 J	0.904	0.25 J	0.202 J
Cadmium	mg/kg	0.582 U	0.132 J	0.42 U	0.464 U
Chromium	mg/kg	6.69	15.7	5.87	2.87
Lead	mg/kg	2.11	36.7	2.56	1.67
Mercury	mg/kg	0.0736 U	0.0635 U	0.0591 U	0.0585 U
Nickel	mg/kg	2.43	36.5	3.4	1.54
Selenium	mg/kg	5.82 U	4.72 U	4.2 U	4.64 U
Silver	mg/kg	1.16 U	0.943 U	0.841 U	0.928 U
Thallium	mg/kg	3.49 U	2.83 U	2.52 U	2.79 U
Vanadium	mg/kg	7.44	33.2	9.21	4.25
Zinc	mg/kg	9.76	149	15.8	7.63

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
Aroclor 1016	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U
Aroclor 1221	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U
Aroclor 1232	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U
Aroclor 1242	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U
Aroclor 1248	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U
Aroclor 1254	mg/kg	0.253	0.0228 U	0.0208 U	0.0276	362
Aroclor 1260	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U
Aroclor 1262	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U
Aroclor 1268	mg/kg	0.0218 U	0.0228 U	0.0208 U	0.0232 U	11.9 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Aroclor 1016	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U
Aroclor 1221	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U
Aroclor 1232	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U
Aroclor 1242	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U
Aroclor 1248	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U
Aroclor 1254	mg/kg	0.0905	0.172	0.0228 U	0.024 U	0.0274 J
Aroclor 1260	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U
Aroclor 1262	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U
Aroclor 1268	mg/kg	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
Aroclor 1016	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U
Aroclor 1221	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U
Aroclor 1232	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U
Aroclor 1242	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U
Aroclor 1248	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U
Aroclor 1254	mg/kg	2.84	0.0217 U	1.05	16.2	1.11
Aroclor 1260	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U
Aroclor 1262	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U
Aroclor 1268	mg/kg	0.109 U	0.0217 U	0.0231 U	0.468 U	0.046 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Aroclor 1016	mg/kg	0.0237 U	0.023 U	1.17 U	0.0446 U	0.0221 U
Aroclor 1221	mg/kg	0.0237 U	0.023 U	1.17 U	0.0446 U	0.0221 U
Aroclor 1232	mg/kg	0.0237 U	0.023 U	1.17 U	0.0446 U	0.0221 U
Aroclor 1242	mg/kg	0.0237 U	0.023 U	1.17 U	0.0446 U	0.0221 U
Aroclor 1248	mg/kg	0.0237 U	0.023 U	1.17 U	0.0446 U	0.0221 U
Aroclor 1254	mg/kg	0.0253	0.0595	26.3	1.08	0.0338
Aroclor 1260	mg/kg	0.0237 U	0.023 U	3.59	0.0446 U	0.0221 U
Aroclor 1262	mg/kg	0.0237 U	0.023 U	1.17 U	0.0446 U	0.0221 U
Aroclor 1268	mg/kg	0.0237 U	0.023 U	1.17 U	0.0446 U	0.0221 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Aroclor 1016	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U
Aroclor 1221	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U
Aroclor 1232	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U
Aroclor 1242	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U
Aroclor 1248	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U
Aroclor 1254	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0712	14.5
Aroclor 1260	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U
Aroclor 1262	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U
Aroclor 1268	mg/kg	0.0223 U	0.022 U	0.0208 U	0.0246 U	0.455 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Aroclor 1016	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U
Aroclor 1221	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U
Aroclor 1232	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U
Aroclor 1242	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U
Aroclor 1248	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U
Aroclor 1254	mg/kg	0.225 J	23.5	34.8	0.115 J	0.296
Aroclor 1260	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U
Aroclor 1262	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U
Aroclor 1268	mg/kg	0.0232 U	1.14 U	1.17 U	0.023 U	0.0225 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Aroclor 1016	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U
Aroclor 1221	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U
Aroclor 1232	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U
Aroclor 1242	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U
Aroclor 1248	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U
Aroclor 1254	mg/kg	0.0225 U	0.0202 J	0.0214 U	1.99	0.0288 U
Aroclor 1260	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U
Aroclor 1262	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U
Aroclor 1268	mg/kg	0.0225 U	0.0218 U	0.0214 U	0.11 U	0.0288 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
Aroclor 1016	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U
Aroclor 1221	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U
Aroclor 1232	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U
Aroclor 1242	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U
Aroclor 1248	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U
Aroclor 1254	mg/kg	0.0557	0.0223 U	0.0223 U	0.0354	0.0252 U
Aroclor 1260	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U
Aroclor 1262	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U
Aroclor 1268	mg/kg	0.0232 U	0.0223 U	0.0223 U	0.023 U	0.0252 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
Aroclor 1016	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1221	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1232	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1242	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1248	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1254	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1260	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1262	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U
Aroclor 1268	mg/kg	0.0239 U	0.0207 U	0.0197 U	0.0203 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
10:2 FTS	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.25 U	3.31 U	3.15 U	3.42 U	3.6 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 UJ
6:2 Fluorotelomer sulfonate	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 UJ
8:2 Fluorotelomer sulfonate	ug/kg	3.25 U	3.31 U	3.15 U	3.42 U	3.6 UJ
9Cl-PF3ONS	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 UJ
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.17 UJ	2.21 UJ	2.1 UJ	2.28 U	2.4 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.17 UJ	2.21 UJ	2.1 UJ	2.28 U	R
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 UJ
Perfluorobutanoic Acid (PFBA)	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 UJ
Perfluorodecane Sulfonate	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
10:2 FTS	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.3 U	3.12 U	3.32 U	3.59 U	3.42 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
6:2 Fluorotelomer sulfonate	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
8:2 Fluorotelomer sulfonate	ug/kg	3.3 U	3.12 U	3.32 U	3.59 U	3.42 U
9Cl-PF3ONS	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.2 UJ	2.08 U	2.22 U	2.39 UJ	2.28 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.2 UJ	2.08 U	2.22 U	2.39 UJ	2.28 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
Perfluorodecane Sulfonate	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
10:2 FTS	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.29 U	3.16 U	3.42 U	3.42 U	3.42 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
6:2 Fluorotelomer sulfonate	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
8:2 Fluorotelomer sulfonate	ug/kg	3.29 U	3.16 U	3.42 U	3.42 U	3.42 U
9Cl-PF3ONS	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.19 U	2.11 UJ	2.28 U	2.28 U	2.28 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.19 U	2.11 UJ	2.28 U	2.28 U	2.28 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
Perfluorodecane Sulfonate	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
10:2 FTS	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.45 U	3.4 U	3.38 U	3.27 U	3.32 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
6:2 Fluorotelomer sulfonate	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
8:2 Fluorotelomer sulfonate	ug/kg	3.45 U	3.4 U	3.38 U	3.27 U	3.32 U
9Cl-PF3ONS	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.3 U	2.27 U	2.25 UJ	2.18 U	2.22 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.3 U	2.27 U	2.25 UJ	2.18 U	2.22 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
Perfluorodecane Sulfonate	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
10:2 FTS	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.25 U	3.28 U	3.07 U	3.54 U	3.23 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
6:2 Fluorotelomer sulfonate	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
8:2 Fluorotelomer sulfonate	ug/kg	3.25 U	3.28 U	3.07 U	3.54 U	3.23 U
9Cl-PF3ONS	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.17 U	2.18 U	2.04 UJ	2.36 U	2.16 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
Perfluorodecane Sulfonate	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
10:2 FTS	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.21 U	3.4 U	3.48 U	3.15 U	3.44 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
6:2 Fluorotelomer sulfonate	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
8:2 Fluorotelomer sulfonate	ug/kg	3.21 U	3.4 U	3.48 U	3.15 U	3.44 U
9Cl-PF3ONS	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.14 U	2.27 U	2.32 UJ	2.1 U	2.29 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
Perfluorodecane Sulfonate	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
10:2 FTS	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.35 U	3.31 U	3.07 U	3.34 U	4.3 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
6:2 Fluorotelomer sulfonate	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
8:2 Fluorotelomer sulfonate	ug/kg	3.35 U	3.31 U	3.07 U	3.34 U	4.3 U
9Cl-PF3ONS	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
Perfluorodecane Sulfonate	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
10:2 FTS	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.5 U	3.44 U	3.33 U	3.3 U	3.75 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
6:2 Fluorotelomer sulfonate	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
8:2 Fluorotelomer sulfonate	ug/kg	3.5 U	3.44 U	3.33 U	3.3 U	3.75 U
9Cl-PF3ONS	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
Perfluorodecane Sulfonate	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
10:2 FTS	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.46 U	3.25 U	2.93 U	3.09 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
6:2 Fluorotelomer sulfonate	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
8:2 Fluorotelomer sulfonate	ug/kg	3.46 U	3.25 U	2.93 U	3.09 U
9Cl-PF3ONS	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.31 U	2.17 UJ	1.95 U	2.06 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.31 U	2.17 UJ	1.95 UJ	2.06 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
Perfluorodecane Sulfonate	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.17 U	2.21 U	2.1 U	2.28 U	2.4 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluoroheptane sulfonate	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluorohexadecanoic acid	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluorononanesulfonic acid	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
Perfluorononanoic acid (PFNA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
Perfluorooctadecanoic acid	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluorooctanoic acid (PFOA)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluorooctylsulfonamide	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
Perfluoropentanoic Acid	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.65 U	0.662 U	0.63 U	0.684 U	0.72 UJ

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluoroheptane sulfonate	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorohexadecanoic acid	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorononanesulfonic acid	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorononanoic acid (PFNA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorooctadecanoic acid	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluorooctylsulfonamide	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluoropentanoic Acid	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.19 U	2.11 U	2.28 U	2.28 U	2.28 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluoroheptane sulfonate	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorohexadecanoic acid	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorononanesulfonic acid	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorononanoic acid (PFNA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorooctadecanoic acid	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluorooctylsulfonamide	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluoropentanoic Acid	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.658 U	0.632 U	0.684 U	0.684 U	0.684 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.3 U	2.27 U	2.25 U	2.18 U	2.22 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluoroheptane sulfonate	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorohexadecanoic acid	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorononanesulfonic acid	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorononanoic acid (PFNA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorooctadecanoic acid	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluorooctylsulfonamide	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluoropentanoic Acid	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.69 U	0.68 U	0.676 U	0.654 U	0.665 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.17 U	2.18 U	2.04 U	2.36 U	2.16 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluoroheptane sulfonate	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorohexadecanoic acid	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorononanesulfonic acid	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorononanoic acid (PFNA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorooctadecanoic acid	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluorooctylsulfonamide	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluoropentanoic Acid	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.651 U	0.655 U	0.613 U	0.709 U	0.647 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.14 U	2.27 U	2.32 U	2.1 U	2.29 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluoroheptane sulfonate	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorohexadecanoic acid	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorononanesulfonic acid	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorononanoic acid (PFNA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorooctadecanoic acid	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluorooctylsulfonamide	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluoropentanoic Acid	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.642 U	0.681 U	0.696 U	0.631 U	0.688 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.23 U	2.21 U	2.04 U	2.23 U	2.87 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluoroheptane sulfonate	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorohexadecanoic acid	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.422 J	0.491 J	0.613 U	0.668 U	0.861 U
Perfluorononanesulfonic acid	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorononanoic acid (PFNA)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorooctadecanoic acid	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluorooctylsulfonamide	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluoropentanoic Acid	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.67 U	0.662 U	0.613 U	0.668 U	0.861 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.33 U	2.3 U	2.22 U	2.2 U	2.5 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluoroheptane sulfonate	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorohexadecanoic acid	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorononanesulfonic acid	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorononanoic acid (PFNA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorooctadecanoic acid	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluorooctylsulfonamide	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluoropentanoic Acid	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.7 U	0.689 U	0.666 U	0.659 U	0.751 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.31 U	2.17 U	1.95 U	2.06 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluoroheptane sulfonate	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorohexadecanoic acid	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorononanesulfonic acid	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorononanoic acid (PFNA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorooctadecanoic acid	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluorooctylsulfonamide	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluoropentanoic Acid	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.692 U	0.65 U	0.585 U	0.618 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
1,2,4-Trichlorobenzene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
1,2-Dichlorobenzene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
1,3-Dichlorobenzene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
1,4-Dichlorobenzene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
2,4,5-Trichlorophenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
2,4,6-Trichlorophenol	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
2,4-Dichlorophenol	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
2,4-Dimethylphenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
2,4-Dinitrophenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
2,4-Dinitrotoluene	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
2,6-Dinitrotoluene	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
2-Chloronaphthalene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
2-Chlorophenol	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
2-Methylnaphthalene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.16 U
2-Methylphenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
2-Nitroaniline	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
2-Nitrophenol	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
3 & 4 Methylphenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
3,3'-Dichlorobenzidine	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
1,2,4-Trichlorobenzene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
1,2-Dichlorobenzene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
1,3-Dichlorobenzene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
1,4-Dichlorobenzene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
2,4,5-Trichlorophenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
2,4,6-Trichlorophenol	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
2,4-Dichlorophenol	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
2,4-Dimethylphenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
2,4-Dinitrophenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
2,4-Dinitrotoluene	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
2,6-Dinitrotoluene	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
2-Chloronaphthalene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
2-Chlorophenol	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
2-Methylnaphthalene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
2-Methylphenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
2-Nitroaniline	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
2-Nitrophenol	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
3 & 4 Methylphenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
3,3'-Dichlorobenzidine	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
1,2,4-Trichlorobenzene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
1,2-Dichlorobenzene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
1,3-Dichlorobenzene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
1,4-Dichlorobenzene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
2,4,5-Trichlorophenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
2,4,6-Trichlorophenol	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
2,4-Dichlorophenol	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
2,4-Dimethylphenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
2,4-Dinitrophenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
2,4-Dinitrotoluene	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
2,6-Dinitrotoluene	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
2-Chloronaphthalene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
2-Chlorophenol	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
2-Methylnaphthalene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
2-Methylphenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
2-Nitroaniline	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
2-Nitrophenol	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
3 & 4 Methylphenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
3,3'-Dichlorobenzidine	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
1,2,4-Trichlorobenzene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
1,2-Dichlorobenzene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
1,3-Dichlorobenzene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
1,4-Dichlorobenzene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
2,4,5-Trichlorophenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
2,4,6-Trichlorophenol	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
2,4-Dichlorophenol	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
2,4-Dimethylphenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
2,4-Dinitrophenol	mg/kg	0.378 U	0.378 U	0.833	0.378 U	0.37 U
2,4-Dinitrotoluene	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
2,6-Dinitrotoluene	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
2-Chloronaphthalene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
2-Chlorophenol	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
2-Methylnaphthalene	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
2-Methylphenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
2-Nitroaniline	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
2-Nitrophenol	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
3 & 4 Methylphenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
3,3'-Dichlorobenzidine	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
1,2,4-Trichlorobenzene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
1,2-Dichlorobenzene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
1,3-Dichlorobenzene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
1,4-Dichlorobenzene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
2,4,5-Trichlorophenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
2,4,6-Trichlorophenol	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
2,4-Dichlorophenol	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
2,4-Dimethylphenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
2,4-Dinitrophenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
2,4-Dinitrotoluene	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
2,6-Dinitrotoluene	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
2-Chloronaphthalene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
2-Chlorophenol	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
2-Methylnaphthalene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
2-Methylphenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
2-Nitroaniline	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
2-Nitrophenol	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
3 & 4 Methylphenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
3,3'-Dichlorobenzidine	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
1,2,4-Trichlorobenzene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
1,2-Dichlorobenzene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
1,3-Dichlorobenzene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
1,4-Dichlorobenzene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
2,4,5-Trichlorophenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
2,4,6-Trichlorophenol	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
2,4-Dichlorophenol	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
2,4-Dimethylphenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
2,4-Dinitrophenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
2,4-Dinitrotoluene	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
2,6-Dinitrotoluene	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
2-Chloronaphthalene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
2-Chlorophenol	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
2-Methylnaphthalene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
2-Methylphenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
2-Nitroaniline	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
2-Nitrophenol	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
3 & 4 Methylphenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
3,3'-Dichlorobenzidine	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
1,2,4-Trichlorobenzene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
1,2-Dichlorobenzene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
1,3-Dichlorobenzene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
1,4-Dichlorobenzene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
2,4,5-Trichlorophenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
2,4,6-Trichlorophenol	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
2,4-Dichlorophenol	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
2,4-Dimethylphenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
2,4-Dinitrophenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
2,4-Dinitrotoluene	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
2,6-Dinitrotoluene	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
2-Chloronaphthalene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
2-Chlorophenol	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
2-Methylnaphthalene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0738 U	0.101 U
2-Methylphenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
2-Nitroaniline	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
2-Nitrophenol	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
3 & 4 Methylphenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
3,3'-Dichlorobenzidine	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
1,2,4-Trichlorobenzene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
1,2-Dichlorobenzene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
1,3-Dichlorobenzene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
1,4-Dichlorobenzene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
2,4,5-Trichlorophenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
2,4,6-Trichlorophenol	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
2,4-Dichlorophenol	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
2,4-Dimethylphenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
2,4-Dinitrophenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
2,4-Dinitrotoluene	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
2,6-Dinitrotoluene	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
2-Chloronaphthalene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
2-Chlorophenol	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
2-Methylnaphthalene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
2-Methylphenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
2-Nitroaniline	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
2-Nitrophenol	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
3 & 4 Methylphenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
3,3'-Dichlorobenzidine	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
1,2,4-Trichlorobenzene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
1,2-Dichlorobenzene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
1,3-Dichlorobenzene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
1,4-Dichlorobenzene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
2,4,5-Trichlorophenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
2,4,6-Trichlorophenol	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
2,4-Dichlorophenol	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
2,4-Dimethylphenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
2,4-Dinitrophenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
2,4-Dinitrotoluene	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
2,6-Dinitrotoluene	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
2-Chloronaphthalene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
2-Chlorophenol	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
2-Methylnaphthalene	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
2-Methylphenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
2-Nitroaniline	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
2-Nitrophenol	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
3 & 4 Methylphenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
3,3'-Dichlorobenzidine	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
3-Nitroaniline	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
4,6-Dinitro-2-methylphenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
4-Bromophenyl-phenylether	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
4-Chloro-3-methylphenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
4-Chloroaniline	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
4-Chlorophenyl-phenylether	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
4-Nitroaniline	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
4-Nitrophenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Acenaphthene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.16 U
Acenaphthylene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.139 J
Acetophenone	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Aniline	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Anthracene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.13 J
Azobenzene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Benzidine	mg/kg	0.719 U	0.742 UJ	0.693 UJ	0.768 UJ	1.58 UJ
Benzo(a)anthracene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.276
Benzo(a)pyrene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.579
Benzo(b)fluoranthene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	1.93
Benzo(g,h,i)perylene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	1.01
Benzo(k)fluoranthene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	1.31
Benzoic Acid	mg/kg	0.359 UJ	0.371 UJ	0.346 UJ	0.384 UJ	2.67 J

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
3-Nitroaniline	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
4,6-Dinitro-2-methylphenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
4-Bromophenyl-phenylether	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
4-Chloro-3-methylphenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
4-Chloroaniline	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
4-Chlorophenyl-phenylether	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
4-Nitroaniline	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
4-Nitrophenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Acenaphthene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Acenaphthylene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Acetophenone	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Aniline	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Anthracene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Azobenzene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Benzidine	mg/kg	0.75 UJ	0.713 UJ	0.749 UJ	0.792 UJ	R
Benzo(a)anthracene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Benzo(a)pyrene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Benzo(b)fluoranthene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Benzo(g,h,i)perylene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Benzo(k)fluoranthene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Benzoic Acid	mg/kg	0.375 UJ	0.356 U	0.375 U	0.396 U	0.36 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
3-Nitroaniline	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
4,6-Dinitro-2-methylphenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
4-Bromophenyl-phenylether	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
4-Chloro-3-methylphenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
4-Chloroaniline	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
4-Chlorophenyl-phenylether	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
4-Nitroaniline	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
4-Nitrophenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Acenaphthene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
Acenaphthylene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
Acetophenone	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Aniline	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Anthracene	mg/kg	0.071 U	0.0714 U	0.0585 J	0.0736 U	0.0736 U
Azobenzene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Benzidine	mg/kg	0.303 J	0.706 U	0.742 UJ	0.728 UJ	0.728 UJ
Benzo(a)anthracene	mg/kg	0.071 U	0.0714 U	0.0753	0.0736 U	0.0736 U
Benzo(a)pyrene	mg/kg	0.071 U	0.0714 U	0.0652 J	0.0736 U	0.0736 U
Benzo(b)fluoranthene	mg/kg	0.071 U	0.0714 U	0.0758	0.0736 U	0.0736 U
Benzo(g,h,i)perylene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
Benzo(k)fluoranthene	mg/kg	0.071 U	0.0714 U	0.0748 J	0.0736 U	0.0736 U
Benzoic Acid	mg/kg	0.351 U	0.353 UJ	0.371 U	0.364 U	0.364 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
3-Nitroaniline	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
4,6-Dinitro-2-methylphenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
4-Bromophenyl-phenylether	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
4-Chloro-3-methylphenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
4-Chloroaniline	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
4-Chlorophenyl-phenylether	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
4-Nitroaniline	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
4-Nitrophenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Acenaphthene	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
Acenaphthylene	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
Acetophenone	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Aniline	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Anthracene	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
Azobenzene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Benzidine	mg/kg	0.757 UJ	0.756 UJ	0.733 U	0.755 U	0.741 U
Benzo(a)anthracene	mg/kg	0.0765 U	0.0764 U	0.0819	0.123	0.0749 U
Benzo(a)pyrene	mg/kg	0.0765 U	0.0764 U	0.104	0.125	0.0749 U
Benzo(b)fluoranthene	mg/kg	0.0765 U	0.0764 U	0.119	0.145	0.0749 U
Benzo(g,h,i)perylene	mg/kg	0.0765 U	0.0764 U	0.111	0.133	0.0749 U
Benzo(k)fluoranthene	mg/kg	0.0765 U	0.0764 U	0.102	0.165	0.0749 U
Benzoic Acid	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
3-Nitroaniline	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
4,6-Dinitro-2-methylphenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
4-Bromophenyl-phenylether	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
4-Chloro-3-methylphenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
4-Chloroaniline	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
4-Chlorophenyl-phenylether	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
4-Nitroaniline	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
4-Nitrophenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Acenaphthene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Acenaphthylene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Acetophenone	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Aniline	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Anthracene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Azobenzene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Benzidine	mg/kg	0.736 U	0.743 U	0.701 U	0.78 U	0.735 UJ
Benzo(a)anthracene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Benzo(a)pyrene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Benzo(b)fluoranthene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Benzo(g,h,i)perylene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Benzo(k)fluoranthene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Benzoic Acid	mg/kg	0.368 U	0.372 U	0.35 UJ	0.39 U	0.524

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
3-Nitroaniline	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
4,6-Dinitro-2-methylphenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
4-Bromophenyl-phenylether	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
4-Chloro-3-methylphenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
4-Chloroaniline	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
4-Chlorophenyl-phenylether	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
4-Nitroaniline	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
4-Nitrophenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Acenaphthene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Acenaphthylene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Acetophenone	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Aniline	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Anthracene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Azobenzene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Benzidine	mg/kg	0.741 UJ	1.5 UJ	0.774 UJ	0.762 UJ	0.757 UJ
Benzo(a)anthracene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Benzo(a)pyrene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Benzo(b)fluoranthene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Benzo(g,h,i)perylene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Benzo(k)fluoranthene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Benzoic Acid	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
3-Nitroaniline	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
4,6-Dinitro-2-methylphenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
4-Bromophenyl-phenylether	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
4-Chloro-3-methylphenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
4-Chloroaniline	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
4-Chlorophenyl-phenylether	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
4-Nitroaniline	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
4-Nitrophenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Acenaphthene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0738 U	0.101 U
Acenaphthylene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0579 J	0.101 U
Acetophenone	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Aniline	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Anthracene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0468 J	0.101 U
Azobenzene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Benzidine	mg/kg	0.752 UJ	0.749 UJ	0.728 U	0.73 UJ	0.996 UJ
Benzo(a)anthracene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.122	0.101 U
Benzo(a)pyrene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.157	0.101 U
Benzo(b)fluoranthene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.185	0.101 U
Benzo(g,h,i)perylene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.152	0.101 U
Benzo(k)fluoranthene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.159	0.101 U
Benzoic Acid	mg/kg	0.376 U	0.374 U	0.364 UJ	0.365 U	0.498 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
3-Nitroaniline	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
4,6-Dinitro-2-methylphenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
4-Bromophenyl-phenylether	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
4-Chloro-3-methylphenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
4-Chloroaniline	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
4-Chlorophenyl-phenylether	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
4-Nitroaniline	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
4-Nitrophenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Acenaphthene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Acenaphthylene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Acetophenone	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Aniline	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Anthracene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Azobenzene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Benzidine	mg/kg	0.778 UJ	0.771 UJ	0.751 UJ	0.782 UJ	0.833 U
Benzo(a)anthracene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Benzo(a)pyrene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Benzo(b)fluoranthene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Benzo(g,h,i)perylene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Benzo(k)fluoranthene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Benzoic Acid	mg/kg	1.35 J	0.385 U	0.375 U	0.391 U	0.417 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
3-Nitroaniline	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
4,6-Dinitro-2-methylphenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
4-Bromophenyl-phenylether	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
4-Chloro-3-methylphenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
4-Chloroaniline	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
4-Chlorophenyl-phenylether	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
4-Nitroaniline	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
4-Nitrophenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Acenaphthene	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
Acenaphthylene	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
Acetophenone	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Aniline	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Anthracene	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
Azobenzene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Benzidine	mg/kg	0.801 U	0.716 UJ	0.674 UJ	1.36 UJ
Benzo(a)anthracene	mg/kg	0.081 U	0.102	0.0682 U	0.137 U
Benzo(a)pyrene	mg/kg	0.081 U	0.104	0.0682 U	0.137 U
Benzo(b)fluoranthene	mg/kg	0.081 U	0.114	0.0682 U	0.137 U
Benzo(g,h,i)perylene	mg/kg	0.081 U	0.0902	0.0682 U	0.137 U
Benzo(k)fluoranthene	mg/kg	0.081 U	0.0936	0.0682 U	0.137 U
Benzoic Acid	mg/kg	0.401 UJ	0.358 UJ	0.337 UJ	0.679 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
Benzyl Alcohol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Bis(2-chloroethoxy)methane	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Bis(2-chloroethyl)ether	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
bis-(2-chloroisopropyl)ether	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.0798 J	0.188 U	0.175 U	0.194 U	60.2
Butylbenzylphthalate	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	6.11 J
Carbazole	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Chrysene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.585
Dibenz(a,h)anthracene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.3
Dibenzofuran	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Diethylphthalate	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Dimethylphthalate	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Di-N-Butylphthalate	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	27.1
Di-N-Octyl Phthalate	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Fluoranthene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	1.57
Fluorene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.16 U
Hexachlorobenzene	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Hexachlorobutadiene	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Hexachlorocyclopentadiene	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Hexachloroethane	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.858

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzyl Alcohol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Bis(2-chloroethoxy)methane	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Bis(2-chloroethyl)ether	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
bis-(2-chloroisopropyl)ether	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Butylbenzylphthalate	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Carbazole	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Chrysene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Dibenz(a,h)anthracene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Dibenzofuran	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Diethylphthalate	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Dimethylphthalate	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Di-N-Butylphthalate	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Di-N-Octyl Phthalate	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Fluoranthene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Fluorene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Hexachlorobenzene	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Hexachlorobutadiene	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Hexachlorocyclopentadiene	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Hexachloroethane	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
Benzyl Alcohol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Bis(2-chloroethoxy)methane	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Bis(2-chloroethyl)ether	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
bis-(2-chloroisopropyl)ether	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Bis(2-ethylhexyl)phthalate	mg/kg	7.11	0.179 U	0.135 J	11.3	0.321
Butylbenzylphthalate	mg/kg	0.159 J	0.353 U	0.438	2.73	0.285 J
Carbazole	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Chrysene	mg/kg	0.071 U	0.0714 U	0.079	0.0736 U	0.0736 U
Dibenz(a,h)anthracene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
Dibenzofuran	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Diethylphthalate	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Dimethylphthalate	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Di-N-Butylphthalate	mg/kg	0.351 U	0.353 U	0.371 U	0.356 J	0.364 U
Di-N-Octyl Phthalate	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Fluoranthene	mg/kg	0.071 U	0.0714 U	0.167	0.0736 U	0.0736 U
Fluorene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
Hexachlorobenzene	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Hexachlorobutadiene	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Hexachlorocyclopentadiene	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Hexachloroethane	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzyl Alcohol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Bis(2-chloroethoxy)methane	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Bis(2-chloroethyl)ether	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
bis-(2-chloroisopropyl)ether	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.191 U	0.191 U	10.7	0.972	0.187 U
Butylbenzylphthalate	mg/kg	0.378 U	0.378 U	1.05	0.378 U	0.37 U
Carbazole	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Chrysene	mg/kg	0.0765 U	0.0764 U	0.131	0.219	0.0749 U
Dibenz(a,h)anthracene	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
Dibenzofuran	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Diethylphthalate	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Dimethylphthalate	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Di-N-Butylphthalate	mg/kg	0.378 U	0.378 U	2.06	3.19	0.37 U
Di-N-Octyl Phthalate	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Fluoranthene	mg/kg	0.0765 U	0.0764 U	0.237	0.342	0.0749 U
Fluorene	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
Hexachlorobenzene	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Hexachlorobutadiene	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Hexachlorocyclopentadiene	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Hexachloroethane	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0765 U	0.0764 U	0.0954	0.112	0.0749 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Benzyl Alcohol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Bis(2-chloroethoxy)methane	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Bis(2-chloroethyl)ether	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
bis-(2-chloroisopropyl)ether	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	4.31
Butylbenzylphthalate	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	2.25
Carbazole	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Chrysene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Dibenz(a,h)anthracene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Dibenzofuran	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Diethylphthalate	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Dimethylphthalate	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Di-N-Butylphthalate	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Di-N-Octyl Phthalate	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Fluoranthene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Fluorene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Hexachlorobenzene	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Hexachlorobutadiene	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Hexachlorocyclopentadiene	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Hexachloroethane	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzyl Alcohol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Bis(2-chloroethoxy)methane	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Bis(2-chloroethyl)ether	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
bis-(2-chloroisopropyl)ether	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.187 U	5.78	11.6	0.193 U	0.192 U
Butylbenzylphthalate	mg/kg	0.37 U	0.967	1.99	0.381 U	0.379 U
Carbazole	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Chrysene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Dibenz(a,h)anthracene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Dibenzofuran	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Diethylphthalate	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Dimethylphthalate	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Di-N-Butylphthalate	mg/kg	0.37 U	0.587 J	0.717	0.381 U	0.379 U
Di-N-Octyl Phthalate	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Fluoranthene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Fluorene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Hexachlorobenzene	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Hexachlorobutadiene	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Hexachlorocyclopentadiene	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Hexachloroethane	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Benzyl Alcohol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Bis(2-chloroethoxy)methane	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Bis(2-chloroethyl)ether	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
bis-(2-chloroisopropyl)ether	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.19 U	0.189 U	0.184 U	0.418	0.252 U
Butylbenzylphthalate	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Carbazole	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Chrysene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.184	0.101 U
Dibenz(a,h)anthracene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0575 J	0.101 U
Dibenzofuran	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Diethylphthalate	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Dimethylphthalate	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Di-N-Butylphthalate	mg/kg	0.376 U	0.374 U	0.364 U	3.07	0.498 U
Di-N-Octyl Phthalate	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Fluoranthene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.263	0.0778 J
Fluorene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0738 U	0.101 U
Hexachlorobenzene	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Hexachlorobutadiene	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Hexachlorocyclopentadiene	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Hexachloroethane	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.135	0.101 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
Benzyl Alcohol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Bis(2-chloroethoxy)methane	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Bis(2-chloroethyl)ether	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
bis-(2-chloroisopropyl)ether	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.197 U	0.195 U	0.19 U	0.111 J	0.211 U
Butylbenzylphthalate	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Carbazole	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Chrysene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Dibenz(a,h)anthracene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Dibenzofuran	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Diethylphthalate	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Dimethylphthalate	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Di-N-Butylphthalate	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Di-N-Octyl Phthalate	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Fluoranthene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Fluorene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Hexachlorobenzene	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Hexachlorobutadiene	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Hexachlorocyclopentadiene	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Hexachloroethane	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
Benzyl Alcohol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Bis(2-chloroethoxy)methane	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Bis(2-chloroethyl)ether	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
bis-(2-chloroisopropyl)ether	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Butylbenzylphthalate	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Carbazole	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Chrysene	mg/kg	0.081 U	0.17	0.0682 U	0.137 U
Dibenz(a,h)anthracene	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
Dibenzofuran	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Diethylphthalate	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Dimethylphthalate	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Di-N-Butylphthalate	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Di-N-Octyl Phthalate	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Fluoranthene	mg/kg	0.081 U	0.24	0.0682 U	0.137 U
Fluorene	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
Hexachlorobenzene	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Hexachlorobutadiene	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Hexachlorocyclopentadiene	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Hexachloroethane	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.081 U	0.083	0.0682 U	0.137 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
Isophorone	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
Naphthalene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.16 U
Naphthalene, 1-methyl-	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	0.16 U
Nitrobenzene	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.182 U	0.188 U	0.175 U	0.194 U	0.4 U
N-Nitrosodiphenylamine	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Pentachloronitrobenzene	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Pentachlorophenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Phenanthrene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	1.2
Phenol	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U
Pyrene	mg/kg	0.0727 U	0.075 U	0.07 U	0.0776 U	1.47
Pyridine	mg/kg	0.359 U	0.371 U	0.346 U	0.384 U	0.791 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Isophorone	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
Naphthalene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Naphthalene, 1-methyl-	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Nitrobenzene	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U
N-Nitrosodiphenylamine	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Pentachloronitrobenzene	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Pentachlorophenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Phenanthrene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Phenol	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U
Pyrene	mg/kg	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U
Pyridine	mg/kg	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
Isophorone	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
Naphthalene	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
Naphthalene, 1-methyl-	mg/kg	0.071 U	0.0714 U	0.075 U	0.0736 U	0.0736 U
Nitrobenzene	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.178 U	0.179 U	0.188 U	0.184 U	0.184 U
N-Nitrosodiphenylamine	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Pentachloronitrobenzene	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Pentachlorophenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Phenanthrene	mg/kg	0.071 U	0.0714 U	0.159	0.0736 U	0.0736 U
Phenol	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U
Pyrene	mg/kg	0.071 U	0.0714 U	0.154	0.0736 U	0.0736 U
Pyridine	mg/kg	0.351 U	0.353 U	0.371 U	0.364 U	0.364 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Isophorone	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
Naphthalene	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
Naphthalene, 1-methyl-	mg/kg	0.0765 U	0.0764 U	0.0741 U	0.0763 U	0.0749 U
Nitrobenzene	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.191 U	0.191 U	0.186 U	0.191 U	0.187 U
N-Nitrosodiphenylamine	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Pentachloronitrobenzene	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Pentachlorophenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Phenanthrene	mg/kg	0.0765 U	0.0764 U	0.114	0.249	0.0749 U
Phenol	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U
Pyrene	mg/kg	0.0765 U	0.0764 U	0.219	0.387	0.0749 U
Pyridine	mg/kg	0.378 U	0.378 U	0.367 U	0.378 U	0.37 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Isophorone	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
Naphthalene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Naphthalene, 1-methyl-	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Nitrobenzene	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.186 U	0.188 U	0.177 U	0.197 U	0.186 U
N-Nitrosodiphenylamine	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Pentachloronitrobenzene	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Pentachlorophenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Phenanthrene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Phenol	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U
Pyrene	mg/kg	0.0744 U	0.0751 U	0.0708 U	0.0788 U	0.0743 U
Pyridine	mg/kg	0.368 U	0.372 U	0.35 U	0.39 U	0.368 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Isophorone	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
Naphthalene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Naphthalene, 1-methyl-	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Nitrobenzene	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.187 U	0.38 U	0.196 U	0.193 U	0.192 U
N-Nitrosodiphenylamine	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Pentachloronitrobenzene	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Pentachlorophenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Phenanthrene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Phenol	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U
Pyrene	mg/kg	0.0749 U	0.152 U	0.0782 U	0.077 U	0.0765 U
Pyridine	mg/kg	0.37 U	0.75 U	0.387 U	0.381 U	0.379 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Isophorone	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
Naphthalene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0738 U	0.101 U
Naphthalene, 1-methyl-	mg/kg	0.076 U	0.0757 U	0.0735 U	0.0738 U	0.101 U
Nitrobenzene	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.19 U	0.189 U	0.184 U	0.185 U	0.252 U
N-Nitrosodiphenylamine	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Pentachloronitrobenzene	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Pentachlorophenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Phenanthrene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.124	0.101 U
Phenol	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U
Pyrene	mg/kg	0.076 U	0.0757 U	0.0735 U	0.299	0.0678 J
Pyridine	mg/kg	0.376 U	0.374 U	0.364 U	0.365 U	0.498 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
Isophorone	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
Naphthalene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Naphthalene, 1-methyl-	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Nitrobenzene	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.197 U	0.195 U	0.19 U	0.198 U	0.211 U
N-Nitrosodiphenylamine	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Pentachloronitrobenzene	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Pentachlorophenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Phenanthrene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Phenol	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U
Pyrene	mg/kg	0.0786 U	0.0779 U	0.0759 U	0.079 U	0.0842 U
Pyridine	mg/kg	0.389 U	0.385 U	0.375 U	0.391 U	0.417 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
Isophorone	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
Naphthalene	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
Naphthalene, 1-methyl-	mg/kg	0.081 U	0.0724 U	0.0682 U	0.137 U
Nitrobenzene	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.203 U	0.181 U	0.171 U	0.344 U
N-Nitrosodiphenylamine	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Pentachloronitrobenzene	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Pentachlorophenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Phenanthrene	mg/kg	0.081 U	0.125	0.0682 U	0.137 U
Phenol	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U
Pyrene	mg/kg	0.081 U	0.236	0.0682 U	0.137 U
Pyridine	mg/kg	0.401 U	0.358 U	0.337 U	0.679 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,1,1-Trichloroethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,1,2-Trichloroethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,1-Dichloroethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,1-Dichloroethene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,1-Dichloropropene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2,3-Trichlorobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2,3-Trichloropropane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2,4-Trichlorobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2,4-Trimethylbenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
1,2-Dibromoethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2-Dichlorobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2-Dichloroethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,2-Dichloropropane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,3,5-Trichlorobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,3,5-Trimethylbenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,3-Dichlorobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,3-Dichloropropane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,1,1-Trichloroethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,1,2-Trichloroethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,1-Dichloroethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,1-Dichloroethene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,1-Dichloropropene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2,3-Trichlorobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2,3-Trichloropropane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2,4-Trichlorobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2,4-Trimethylbenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ
1,2-Dibromoethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2-Dichlorobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2-Dichloroethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,2-Dichloropropane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,3,5-Trichlorobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,3,5-Trimethylbenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,3-Dichlorobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,3-Dichloropropane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,1,1-Trichloroethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,1,2-Trichloroethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,1-Dichloroethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,1-Dichloroethene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,1-Dichloropropene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2,3-Trichlorobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2,3-Trichloropropane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2,4-Trichlorobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2,4-Trimethylbenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
1,2-Dibromoethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2-Dichlorobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2-Dichloroethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,2-Dichloropropane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,3,5-Trichlorobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,3,5-Trimethylbenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,3-Dichlorobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,3-Dichloropropane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,1,1-Trichloroethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,1,2-Trichloroethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,1-Dichloroethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,1-Dichloroethene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,1-Dichloropropene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2,3-Trichlorobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2,3-Trichloropropane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2,4-Trichlorobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2,4-Trimethylbenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
1,2-Dibromoethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2-Dichlorobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2-Dichloroethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,2-Dichloropropane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,3,5-Trichlorobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,3,5-Trimethylbenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,3-Dichlorobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,3-Dichloropropane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,1,1-Trichloroethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,1,2-Trichloroethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,1-Dichloroethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,1-Dichloroethene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,1-Dichloropropene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2,3-Trichlorobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2,3-Trichloropropane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2,4-Trichlorobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2,4-Trimethylbenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
1,2-Dibromoethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2-Dichlorobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2-Dichloroethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,2-Dichloropropane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,3,5-Trichlorobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,3,5-Trimethylbenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,3-Dichlorobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,3-Dichloropropane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,1,1-Trichloroethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,1,2-Trichloroethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,1-Dichloroethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,1-Dichloroethene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,1-Dichloropropene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2,3-Trichlorobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2,3-Trichloropropane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2,4-Trichlorobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2,4-Trimethylbenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
1,2-Dibromoethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2-Dichlorobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2-Dichloroethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,2-Dichloropropane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,3,5-Trichlorobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,3,5-Trimethylbenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,3-Dichlorobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,3-Dichloropropane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,1,1-Trichloroethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,1,2-Trichloroethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,1-Dichloroethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,1-Dichloroethene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,1-Dichloropropene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2,3-Trichlorobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2,3-Trichloropropane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2,4-Trichlorobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2,4-Trimethylbenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
1,2-Dibromoethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2-Dichlorobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2-Dichloroethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,2-Dichloropropane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,3,5-Trichlorobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,3,5-Trimethylbenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,3-Dichlorobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,3-Dichloropropane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,1,1-Trichloroethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,1,2-Trichloroethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,1-Dichloroethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,1-Dichloroethene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,1-Dichloropropene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2,3-Trichlorobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2,3-Trichloropropane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2,4-Trichlorobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2,4-Trimethylbenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
1,2-Dibromoethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2-Dichlorobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2-Dichloroethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,2-Dichloropropane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,3,5-Trichlorobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,3,5-Trimethylbenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,3-Dichlorobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,3-Dichloropropane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,1,1-Trichloroethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,1,2-Trichloroethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,1-Dichloroethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,1-Dichloroethene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,1-Dichloropropene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2,3-Trichlorobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2,3-Trichloropropane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2,4-Trichlorobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2,4-Trimethylbenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
1,2-Dibromoethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2-Dichlorobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2-Dichloroethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,2-Dichloropropane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,3,5-Trichlorobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,3,5-Trimethylbenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,3-Dichlorobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,3-Dichloropropane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,4-Dichlorobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
1,4-Dioxane	mg/kg	0.105 U	0.126 U	0.102 U	0.12 U	0.0971 U
2,2-Dichloropropane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
2-Butanone	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
2-Chlorotoluene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
2-Hexanone	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
4-Chlorotoluene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
4-Isopropyltoluene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
4-Methyl-2-pentanone	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Acetone	mg/kg	0.0527 U	0.0632 U	0.0509 U	0.0598 U	0.0486 U
Acrylonitrile	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Benzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Bromobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Bromochloromethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Bromodichloromethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Bromoform	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Bromomethane	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Carbon disulfide	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Carbon tetrachloride	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Chlorobenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,4-Dichlorobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
1,4-Dioxane	mg/kg	0.106 U	0.096 U	0.0943 U	0.0898 U	0.0886 UJ
2,2-Dichloropropane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
2-Butanone	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
2-Chlorotoluene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
2-Hexanone	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ
4-Chlorotoluene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
4-Isopropyltoluene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
4-Methyl-2-pentanone	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ
Acetone	mg/kg	0.0529 U	0.048 U	0.0471 U	0.0449 U	0.0443 UJ
Acrylonitrile	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 UJ
Benzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Bromobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Bromochloromethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Bromodichloromethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Bromoform	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Bromomethane	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
Carbon disulfide	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
Carbon tetrachloride	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 UJ
Chlorobenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U

U – not detected; J – estimated value; R – rejected; EB – detected in equipment blank; N – tentatively identified; + biased high; - biased low

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,4-Dichlorobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
1,4-Dioxane	mg/kg	0.0987 U	0.113 U	0.103 U	0.0888 U	0.105 U
2,2-Dichloropropane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
2-Butanone	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
2-Chlorotoluene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
2-Hexanone	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
4-Chlorotoluene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
4-Isopropyltoluene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
4-Methyl-2-pentanone	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Acetone	mg/kg	0.0493 U	0.0565 U	0.0517 U	0.0444 U	0.0525 U
Acrylonitrile	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Benzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Bromobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Bromochloromethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Bromodichloromethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Bromoform	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Bromomethane	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Carbon disulfide	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Carbon tetrachloride	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Chlorobenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,4-Dichlorobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
1,4-Dioxane	mg/kg	0.0986 U	0.088 U	0.104 U	0.117 U	0.0916 U
2,2-Dichloropropane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
2-Butanone	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
2-Chlorotoluene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
2-Hexanone	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
4-Chlorotoluene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
4-Isopropyltoluene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
4-Methyl-2-pentanone	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Acetone	mg/kg	0.0493 U	0.044 U	0.0522 U	0.0586 U	0.0458 U
Acrylonitrile	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Benzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Bromobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Bromochloromethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Bromodichloromethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Bromoform	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Bromomethane	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Carbon disulfide	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Carbon tetrachloride	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Chlorobenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,4-Dichlorobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
1,4-Dioxane	mg/kg	0.0942 U	0.0867 U	0.1 U	0.101 U	0.0938 U
2,2-Dichloropropane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
2-Butanone	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
2-Chlorotoluene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
2-Hexanone	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
4-Chlorotoluene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
4-Isopropyltoluene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
4-Methyl-2-pentanone	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
Acetone	mg/kg	0.0471 U	0.0434 U	0.05 U	0.0506 U	0.0469 U
Acrylonitrile	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Benzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Bromobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Bromochloromethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Bromodichloromethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Bromoform	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Bromomethane	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
Carbon disulfide	mg/kg	0.00942 U	0.00841 J	0.01 U	0.0101 U	0.00938 U
Carbon tetrachloride	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Chlorobenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,4-Dichlorobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
1,4-Dioxane	mg/kg	0.0953 U	0.108 U	0.112 U	0.092 U	0.097 U
2,2-Dichloropropane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
2-Butanone	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
2-Chlorotoluene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
2-Hexanone	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
4-Chlorotoluene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
4-Isopropyltoluene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
4-Methyl-2-pentanone	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Acetone	mg/kg	0.0476 U	0.0541 U	0.056 U	0.046 U	0.0485 U
Acrylonitrile	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Benzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Bromobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Bromochloromethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Bromodichloromethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Bromoform	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Bromomethane	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Carbon disulfide	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Carbon tetrachloride	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Chlorobenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,4-Dichlorobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
1,4-Dioxane	mg/kg	0.0917 U	0.0856 U	0.106 U	0.1 U	0.146 U
2,2-Dichloropropane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
2-Butanone	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
2-Chlorotoluene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
2-Hexanone	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
4-Chlorotoluene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
4-Isopropyltoluene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
4-Methyl-2-pentanone	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Acetone	mg/kg	0.0458 U	0.0428 U	0.0532 U	0.0501 U	0.0729 U
Acrylonitrile	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Benzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Bromobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Bromochloromethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Bromodichloromethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Bromoform	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Bromomethane	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Carbon disulfide	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Carbon tetrachloride	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Chlorobenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
1,3-Dichloropropene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,4-Dichlorobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
1,4-Dioxane	mg/kg	0.0968 U	0.108 U	0.0871 U	0.0967 U	0.11 U
2,2-Dichloropropane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
2-Butanone	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
2-Chlorotoluene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
2-Hexanone	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
4-Chlorotoluene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
4-Isopropyltoluene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
4-Methyl-2-pentanone	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
Acetone	mg/kg	0.0484 U	0.054 U	0.0435 U	0.0483 U	0.0552 U
Acrylonitrile	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Benzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Bromobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Bromochloromethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Bromodichloromethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Bromoform	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Bromomethane	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
Carbon disulfide	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
Carbon tetrachloride	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Chlorobenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
1,3-Dichloropropene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,4-Dichlorobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
1,4-Dioxane	mg/kg	0.102 U	0.109 U	0.105 U	0.0883 U
2,2-Dichloropropane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
2-Butanone	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
2-Chlorotoluene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
2-Hexanone	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
4-Chlorotoluene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
4-Isopropyltoluene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
4-Methyl-2-pentanone	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Acetone	mg/kg	0.0509 U	0.0546 U	0.0523 U	0.0441 U
Acrylonitrile	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Benzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Bromobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Bromochloromethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Bromodichloromethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Bromoform	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Bromomethane	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Carbon disulfide	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Carbon tetrachloride	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Chlorobenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
Chloroethane	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Chloroform	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Chloromethane	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
cis-1,2-Dichloroethene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
cis-1,3-Dichloropropene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Dibromochloromethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Dibromomethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Dichlorodifluoromethane	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Diethyl ether	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Diisopropyl Ether	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Ethanol	mg/kg	1.05 U	1.26 U	1.02 U	1.2 U	0.971 U
Ethylbenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Hexachlorobutadiene	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Isopropylbenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
m,p-Xylene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Methyl tert-butyl ether	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Methylene chloride	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Naphthalene	mg/kg	0.00527 U	0.00632 UJ	0.00509 UJ	0.00598 UJ	0.00486 UJ
n-Butylbenzene	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
n-Propylbenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
o-Xylene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Chloroethane	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
Chloroform	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Chloromethane	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
cis-1,2-Dichloroethene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
cis-1,3-Dichloropropene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Dibromochloromethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Dibromomethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Dichlorodifluoromethane	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
Diethyl ether	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Diisopropyl Ether	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Ethanol	mg/kg	1.06 U	0.96 U	0.943 U	0.898 U	0.886 UJ
Ethylbenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Hexachlorobutadiene	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
Isopropylbenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
m,p-Xylene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Methyl tert-butyl ether	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Methylene chloride	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
Naphthalene	mg/kg	0.00529 UJ	0.0048 UJ	0.00471 UJ	0.00449 UJ	0.00443 UJ
n-Butylbenzene	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U
n-Propylbenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
o-Xylene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
Chloroethane	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Chloroform	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Chloromethane	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
cis-1,2-Dichloroethene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
cis-1,3-Dichloropropene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Dibromochloromethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Dibromomethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Dichlorodifluoromethane	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Diethyl ether	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Diisopropyl Ether	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Ethanol	mg/kg	0.987 U	1.13 U	1.03 U	0.888 U	1.05 U
Ethylbenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Hexachlorobutadiene	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Isopropylbenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
m,p-Xylene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Methyl tert-butyl ether	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Methylene chloride	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Naphthalene	mg/kg	0.00493 UJ	0.00565 U	0.00517 UJ	0.00444 UJ	0.00525 UJ
n-Butylbenzene	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
n-Propylbenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
o-Xylene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Chloroethane	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Chloroform	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Chloromethane	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
cis-1,2-Dichloroethene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
cis-1,3-Dichloropropene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Dibromochloromethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Dibromomethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Dichlorodifluoromethane	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Diethyl ether	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Diisopropyl Ether	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Ethanol	mg/kg	0.986 U	0.88 U	1.04 U	1.17 U	0.916 U
Ethylbenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Hexachlorobutadiene	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Isopropylbenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
m,p-Xylene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Methyl tert-butyl ether	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Methylene chloride	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Naphthalene	mg/kg	0.00493 UJ	0.0044 UJ	0.00522 U	0.00586 U	0.00458 U
n-Butylbenzene	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
n-Propylbenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
o-Xylene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Chloroethane	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
Chloroform	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Chloromethane	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
cis-1,2-Dichloroethene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
cis-1,3-Dichloropropene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Dibromochloromethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Dibromomethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Dichlorodifluoromethane	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
Diethyl ether	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Diisopropyl Ether	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Ethanol	mg/kg	0.942 U	0.867 U	1 U	1.01 U	0.938 U
Ethylbenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Hexachlorobutadiene	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
Isopropylbenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
m,p-Xylene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Methyl tert-butyl ether	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Methylene chloride	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
Naphthalene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 UJ
n-Butylbenzene	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
n-Propylbenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
o-Xylene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Chloroethane	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Chloroform	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Chloromethane	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
cis-1,2-Dichloroethene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
cis-1,3-Dichloropropene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Dibromochloromethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Dibromomethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Dichlorodifluoromethane	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Diethyl ether	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Diisopropyl Ether	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Ethanol	mg/kg	0.953 U	1.08 U	1.12 U	0.92 U	0.97 U
Ethylbenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Hexachlorobutadiene	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Isopropylbenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
m,p-Xylene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Methyl tert-butyl ether	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Methylene chloride	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Naphthalene	mg/kg	0.00476 UJ	0.00541 UJ	0.0056 UJ	0.0046 UJ	0.00485 UJ
n-Butylbenzene	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
n-Propylbenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
o-Xylene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Chloroethane	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Chloroform	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Chloromethane	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
cis-1,2-Dichloroethene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
cis-1,3-Dichloropropene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Dibromochloromethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Dibromomethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Dichlorodifluoromethane	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Diethyl ether	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Diisopropyl Ether	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Ethanol	mg/kg	0.917 U	0.856 U	1.06 U	1 U	1.46 U
Ethylbenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Hexachlorobutadiene	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Isopropylbenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
m,p-Xylene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Methyl tert-butyl ether	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Methylene chloride	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Naphthalene	mg/kg	0.00458 UJ	0.00428 UJ	0.00532 U	0.00501 UJ	0.00729 UJ
n-Butylbenzene	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
n-Propylbenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
o-Xylene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
Chloroethane	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
Chloroform	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Chloromethane	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
cis-1,2-Dichloroethene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
cis-1,3-Dichloropropene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Dibromochloromethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Dibromomethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Dichlorodifluoromethane	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
Diethyl ether	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Diisopropyl Ether	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Ethanol	mg/kg	0.968 U	1.08 U	0.871 U	0.967 U	1.1 U
Ethylbenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Hexachlorobutadiene	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
Isopropylbenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
m,p-Xylene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Methyl tert-butyl ether	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Methylene chloride	mg/kg	0.00968 U	0.00665 BJ	0.00871 U	0.00967 U	0.011 U
Naphthalene	mg/kg	0.00484 UJ	0.0054 UJ	0.00435 UJ	0.00483 UJ	0.00552 U
n-Butylbenzene	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
n-Propylbenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
o-Xylene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
Chloroethane	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Chloroform	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Chloromethane	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
cis-1,2-Dichloroethene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
cis-1,3-Dichloropropene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Dibromochloromethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Dibromomethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Dichlorodifluoromethane	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Diethyl ether	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Diisopropyl Ether	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Ethanol	mg/kg	1.02 U	1.09 U	1.05 U	0.883 U
Ethylbenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Hexachlorobutadiene	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Isopropylbenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
m,p-Xylene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Methyl tert-butyl ether	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Methylene chloride	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Naphthalene	mg/kg	0.00509 U	0.00546 UJ	0.00523 UJ	0.00441 UJ
n-Butylbenzene	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
n-Propylbenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
o-Xylene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
sec-Butylbenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Styrene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
tert-Amyl methyl ether	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
tert-Butyl Alcohol	mg/kg	0.105 U	0.126 U	0.102 U	0.12 U	0.0971 U
Tert-Butyl Ethyl Ether	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
tert-Butylbenzene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Tetrachloroethene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Tetrahydrofuran	mg/kg	0.0105 U	0.0126 U	0.0102 U	0.012 U	0.00971 U
Toluene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
trans-1,2-Dichloroethene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
trans-1,3-Dichloropropene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
trans-1,4-Dichlorobutene	mg/kg	0.0264 U	0.0316 U	0.0255 U	0.0299 U	0.0243 U
Trichloroethene	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Trichlorofluoromethane	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Vinyl chloride	mg/kg	0.00527 U	0.00632 U	0.00509 U	0.00598 U	0.00486 U
Xylene (total)	mg/kg	0.0158 U	0.019 U	0.0153 U	0.0179 U	0.0146 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Styrene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
tert-Amyl methyl ether	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
tert-Butyl Alcohol	mg/kg	0.106 U	0.096 U	0.0943 U	0.0898 U	0.0886 UJ
Tert-Butyl Ethyl Ether	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
tert-Butylbenzene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Tetrachloroethene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Tetrahydrofuran	mg/kg	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ
Toluene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
trans-1,2-Dichloroethene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
trans-1,3-Dichloropropene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
trans-1,4-Dichlorobutene	mg/kg	0.0264 U	0.024 U	0.0236 U	0.0224 U	0.0222 U
Trichloroethene	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Trichlorofluoromethane	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Vinyl chloride	mg/kg	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U
Xylene (total)	mg/kg	0.0159 U	0.0144 U	0.0141 U	0.0135 U	0.0133 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Styrene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
tert-Amyl methyl ether	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
tert-Butyl Alcohol	mg/kg	0.0987 U	0.113 U	0.103 U	0.0888 U	0.105 U
Tert-Butyl Ethyl Ether	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
tert-Butylbenzene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Tetrachloroethene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Tetrahydrofuran	mg/kg	0.00987 U	0.0113 U	0.0103 U	0.00888 U	0.0105 U
Toluene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
trans-1,2-Dichloroethene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
trans-1,3-Dichloropropene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
trans-1,4-Dichlorobutene	mg/kg	0.0247 U	0.0282 U	0.0259 U	0.0222 U	0.0263 U
Trichloroethene	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Trichlorofluoromethane	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Vinyl chloride	mg/kg	0.00493 U	0.00565 U	0.00517 U	0.00444 U	0.00525 U
Xylene (total)	mg/kg	0.0148 U	0.0169 U	0.0155 U	0.0133 U	0.0158 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Styrene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
tert-Amyl methyl ether	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
tert-Butyl Alcohol	mg/kg	0.0986 U	0.088 U	0.104 U	0.117 U	0.0916 U
Tert-Butyl Ethyl Ether	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
tert-Butylbenzene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Tetrachloroethene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Tetrahydrofuran	mg/kg	0.00986 U	0.0088 U	0.0104 U	0.0117 U	0.00916 U
Toluene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
trans-1,2-Dichloroethene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
trans-1,3-Dichloropropene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
trans-1,4-Dichlorobutene	mg/kg	0.0246 U	0.022 U	0.0261 U	0.0293 U	0.0229 U
Trichloroethene	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Trichlorofluoromethane	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Vinyl chloride	mg/kg	0.00493 U	0.0044 U	0.00522 U	0.00586 U	0.00458 U
Xylene (total)	mg/kg	0.0148 U	0.0132 U	0.0157 U	0.0176 U	0.0137 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Styrene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
tert-Amyl methyl ether	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
tert-Butyl Alcohol	mg/kg	0.0942 U	0.0867 U	0.1 U	0.101 U	0.0938 U
Tert-Butyl Ethyl Ether	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
tert-Butylbenzene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Tetrachloroethene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Tetrahydrofuran	mg/kg	0.00942 U	0.00867 U	0.01 U	0.0101 U	0.00938 U
Toluene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
trans-1,2-Dichloroethene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
trans-1,3-Dichloropropene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
trans-1,4-Dichlorobutene	mg/kg	0.0235 U	0.0217 U	0.025 U	0.0253 U	0.0234 U
Trichloroethene	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Trichlorofluoromethane	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Vinyl chloride	mg/kg	0.00471 U	0.00434 U	0.005 U	0.00506 U	0.00469 U
Xylene (total)	mg/kg	0.0141 U	0.013 U	0.015 U	0.0152 U	0.0141 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Styrene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
tert-Amyl methyl ether	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
tert-Butyl Alcohol	mg/kg	0.0953 U	0.108 U	0.112 U	0.092 U	0.097 U
Tert-Butyl Ethyl Ether	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
tert-Butylbenzene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Tetrachloroethene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Tetrahydrofuran	mg/kg	0.00953 U	0.0108 U	0.0112 U	0.0092 U	0.0097 U
Toluene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
trans-1,2-Dichloroethene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
trans-1,3-Dichloropropene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
trans-1,4-Dichlorobutene	mg/kg	0.0238 U	0.0271 U	0.028 U	0.023 U	0.0242 U
Trichloroethene	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Trichlorofluoromethane	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Vinyl chloride	mg/kg	0.00476 U	0.00541 U	0.0056 U	0.0046 U	0.00485 U
Xylene (total)	mg/kg	0.0143 U	0.0162 U	0.0168 U	0.0138 U	0.0145 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Styrene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
tert-Amyl methyl ether	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
tert-Butyl Alcohol	mg/kg	0.0917 U	0.0856 U	0.106 U	0.1 U	0.146 U
Tert-Butyl Ethyl Ether	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
tert-Butylbenzene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Tetrachloroethene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Tetrahydrofuran	mg/kg	0.00917 U	0.00856 U	0.0106 U	0.01 U	0.0146 U
Toluene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
trans-1,2-Dichloroethene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
trans-1,3-Dichloropropene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
trans-1,4-Dichlorobutene	mg/kg	0.0229 U	0.0214 U	0.0266 U	0.0251 U	0.0364 U
Trichloroethene	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Trichlorofluoromethane	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Vinyl chloride	mg/kg	0.00458 U	0.00428 U	0.00532 U	0.00501 U	0.00729 U
Xylene (total)	mg/kg	0.0138 U	0.0128 U	0.016 U	0.015 U	0.0219 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
sec-Butylbenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Styrene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
tert-Amyl methyl ether	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
tert-Butyl Alcohol	mg/kg	0.0968 U	0.108 U	0.0871 U	0.0967 U	0.11 U
Tert-Butyl Ethyl Ether	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
tert-Butylbenzene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Tetrachloroethene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Tetrahydrofuran	mg/kg	0.00968 U	0.0108 U	0.00871 U	0.00967 U	0.011 U
Toluene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
trans-1,2-Dichloroethene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
trans-1,3-Dichloropropene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
trans-1,4-Dichlorobutene	mg/kg	0.0242 U	0.027 U	0.0218 U	0.0242 U	0.0276 U
Trichloroethene	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Trichlorofluoromethane	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Vinyl chloride	mg/kg	0.00484 U	0.0054 U	0.00435 U	0.00483 U	0.00552 U
Xylene (total)	mg/kg	0.0145 U	0.0162 U	0.0131 U	0.0145 U	0.0166 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
sec-Butylbenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Styrene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
tert-Amyl methyl ether	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
tert-Butyl Alcohol	mg/kg	0.102 U	0.109 U	0.105 U	0.0883 U
Tert-Butyl Ethyl Ether	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
tert-Butylbenzene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Tetrachloroethene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Tetrahydrofuran	mg/kg	0.0102 U	0.0109 U	0.0105 U	0.00883 U
Toluene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
trans-1,2-Dichloroethene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
trans-1,3-Dichloropropene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
trans-1,4-Dichlorobutene	mg/kg	0.0254 U	0.0273 U	0.0261 U	0.0221 U
Trichloroethene	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Trichlorofluoromethane	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Vinyl chloride	mg/kg	0.00509 U	0.00546 U	0.00523 U	0.00441 U
Xylene (total)	mg/kg	0.0153 U	0.0164 U	0.0157 U	0.0132 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-1	620-10117-10	620-10117-11	620-10117-12	620-10117-13
Field Sample ID		2023-MW-06-0002	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-12-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/03/23
Benzene	mg/kg	0.0646 U	0.0669 U	0.0466 U	0.0565 U	0.0585 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.323 U	0.334 U	0.233 U	0.282 U	11.5
C5-C8 Aliphatics (unadjusted)	mg/kg	0.323 U	0.334 U	0.233 U	0.282 U	11.5
C9-C10 Aromatics	mg/kg	0.323 U	0.334 U	0.233 U	0.282 U	1.57
C9-C12 Aliphatics (adjusted)	mg/kg	0.323 U	0.334 U	0.233 U	0.282 U	4.2
C9-C12 Aliphatics (unadjusted)	mg/kg	0.323 U	0.334 U	0.233 U	0.282 U	5.87
Ethylbenzene	mg/kg	0.0646 U	0.0669 U	0.0466 U	0.0565 U	0.0346 J
m,p-Xylene	mg/kg	0.129 U	0.134 U	0.0932 U	0.113 U	0.0605 J
Methyl tert-butyl ether	mg/kg	0.0646 U	0.0669 U	0.0466 U	0.0565 U	0.0585 U
Naphthalene	mg/kg	0.0646 U	0.0669 U	0.0466 U	0.0565 U	0.0585 U
o-Xylene	mg/kg	0.0646 U	0.0669 U	0.0466 U	0.0565 U	0.0585 U
Toluene	mg/kg	0.0646 U	0.0669 U	0.0466 U	0.0565 U	0.0585 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-14	620-10117-15	620-10117-16	620-10117-17	620-10117-18
Field Sample ID		2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzene	mg/kg	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U
C9-C10 Aromatics	mg/kg	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U
Ethylbenzene	mg/kg	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U
m,p-Xylene	mg/kg	0.112 U	0.0974 U	0.0893 U	0.164 U	0.161 U
Methyl tert-butyl ether	mg/kg	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U
Naphthalene	mg/kg	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U
o-Xylene	mg/kg	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U
Toluene	mg/kg	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-19	620-10117-2	620-10117-20	620-10117-21	620-10117-22
Field Sample ID		2023-SB-07-0002	2023-MW-06-0204	2023-SB-07-0204	2023-SB-07-0406	2023-SB-07-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/02/23	03/03/23	03/03/23	03/03/23
Benzene	mg/kg	0.0443 U	0.054 U	0.047 U	0.0457 U	0.0464 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.221 U	0.27 U	0.235 U	0.228 U	0.232 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.221 U	0.27 U	0.235 U	0.228 U	0.232 U
C9-C10 Aromatics	mg/kg	0.221 U	0.27 U	0.235 U	0.228 U	0.232 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.221 U	0.27 U	0.235 U	0.228 U	0.232 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.221 U	0.27 U	0.235 U	0.228 U	0.232 U
Ethylbenzene	mg/kg	0.0443 U	0.054 U	0.047 U	0.0457 U	0.0464 U
m,p-Xylene	mg/kg	0.0886 U	0.108 U	0.0939 U	0.0913 U	0.0929 U
Methyl tert-butyl ether	mg/kg	0.0443 U	0.054 U	0.047 U	0.0457 U	0.0464 U
Naphthalene	mg/kg	0.0443 U	0.054 U	0.047 U	0.0457 U	0.0464 U
o-Xylene	mg/kg	0.0443 U	0.054 U	0.047 U	0.0457 U	0.0464 U
Toluene	mg/kg	0.0443 U	0.054 U	0.047 U	0.0457 U	0.0464 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-23	620-10117-24	620-10117-25	620-10117-26	620-10117-27
Field Sample ID		2023-SB-07-0810	2023-SB-07-1012	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzene	mg/kg	0.0609 U	0.0641 U	0.0604 U	0.0527 U	0.0486 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.304 U	0.321 U	0.19 J	0.142 J	0.243 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.304 U	0.321 U	0.219 J	0.142 J	0.243 U
C9-C10 Aromatics	mg/kg	0.304 U	0.321 U	0.302 U	0.263 U	0.243 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.304 U	0.321 U	0.302 U	0.263 U	0.243 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.304 U	0.321 U	0.302 U	0.263 U	0.243 U
Ethylbenzene	mg/kg	0.0609 U	0.0641 U	0.0604 U	0.0527 U	0.0486 U
m,p-Xylene	mg/kg	0.122 U	0.128 U	0.121 U	0.105 U	0.0972 U
Methyl tert-butyl ether	mg/kg	0.0609 U	0.0641 U	0.0604 U	0.0527 U	0.0486 U
Naphthalene	mg/kg	0.0609 U	0.0641 U	0.0604 U	0.0527 U	0.0486 U
o-Xylene	mg/kg	0.0609 U	0.0641 U	0.0604 U	0.0527 U	0.0486 U
Toluene	mg/kg	0.0609 U	0.0641 U	0.0292 J	0.0527 U	0.0486 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-28	620-10117-29	620-10117-3	620-10117-30	620-10117-31
Field Sample ID		2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0406	2023-MW-05-0406	2023-FD-06
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SB-07-0406
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Benzene	mg/kg	0.0486 U	0.0723 U	0.0565 U	0.0688 U	0.0661 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.243 U	0.362 U	0.283 U	0.344 U	0.331 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.243 U	0.362 U	0.283 U	0.344 U	0.331 U
C9-C10 Aromatics	mg/kg	0.243 U	0.362 U	0.283 U	0.344 U	0.149 J
C9-C12 Aliphatics (adjusted)	mg/kg	0.243 U	0.362 U	0.283 U	0.344 U	0.357
C9-C12 Aliphatics (unadjusted)	mg/kg	0.243 U	0.362 U	0.283 U	0.344 U	0.506
Ethylbenzene	mg/kg	0.0486 U	0.0723 U	0.0565 U	0.0688 U	0.0661 U
m,p-Xylene	mg/kg	0.0972 U	0.145 U	0.113 U	0.138 U	0.132 U
Methyl tert-butyl ether	mg/kg	0.0486 U	0.0723 U	0.0565 U	0.0688 U	0.0661 U
Naphthalene	mg/kg	0.0486 U	0.0723 U	0.0565 U	0.0688 U	0.098 U
o-Xylene	mg/kg	0.0486 U	0.0723 U	0.0565 U	0.0688 U	0.0661 U
Toluene	mg/kg	0.0486 U	0.0723 U	0.0565 U	0.0688 U	0.0661 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-32	620-10117-33	620-10117-34	620-10117-35	620-10117-36
Field Sample ID		2023-FD-07	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-SB-06-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-06-0406				
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzene	mg/kg	0.0525 U	0.0594 U	0.0538 U	0.0494 U	0.0519 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.262 U	0.297 U	0.269 U	0.247 U	0.26 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.262 U	0.297 U	0.269 U	0.247 U	0.26 U
C9-C10 Aromatics	mg/kg	0.262 U	0.0587 J	0.269 U	0.247 U	0.26 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.262 U	0.297 U	0.269 U	0.247 U	0.26 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.262 U	0.176 J	0.269 U	0.247 U	0.26 U
Ethylbenzene	mg/kg	0.0525 U	0.0594 U	0.0538 U	0.0494 U	0.0519 U
m,p-Xylene	mg/kg	0.105 U	0.119 U	0.108 U	0.0988 U	0.104 U
Methyl tert-butyl ether	mg/kg	0.0525 U	0.0594 U	0.0538 U	0.0494 U	0.0519 U
Naphthalene	mg/kg	0.0525 U	0.0594 U	0.0538 U	0.0494 U	0.0519 U
o-Xylene	mg/kg	0.0525 U	0.0594 U	0.0538 U	0.0494 U	0.0519 U
Toluene	mg/kg	0.0525 U	0.0594 U	0.0538 U	0.0494 U	0.0519 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-37	620-10117-38	620-10117-4	620-10117-41	620-10117-42
Field Sample ID		2023-SB-06-0810	2023-SB-06-1012	2023-MW-06-0608	2023-SB-05-0002	2023-SB-05-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/02/23	03/03/23	03/03/23
Benzene	mg/kg	0.0468 U	0.0437 U	0.0531 U	0.0512 U	0.0759 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.234 U	0.218 U	0.265 U	0.217 J	0.38 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.234 U	0.218 U	0.265 U	0.217 J	0.38 U
C9-C10 Aromatics	mg/kg	0.234 U	0.218 U	0.265 U	0.18 J	0.38 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.234 U	0.218 U	0.265 U	0.418	0.38 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.234 U	0.218 U	0.265 U	0.598	0.38 U
Ethylbenzene	mg/kg	0.0468 U	0.0437 U	0.0531 U	0.0512 U	0.0759 U
m,p-Xylene	mg/kg	0.0936 U	0.0873 U	0.106 U	0.102 U	0.152 U
Methyl tert-butyl ether	mg/kg	0.0468 U	0.0437 U	0.0531 U	0.0512 U	0.0759 U
Naphthalene	mg/kg	0.0468 U	0.0437 U	0.0531 U	0.0512 U	0.0759 U
o-Xylene	mg/kg	0.0468 U	0.0437 U	0.0531 U	0.0512 U	0.0759 U
Toluene	mg/kg	0.0468 U	0.0437 U	0.0531 U	0.0512 U	0.0759 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10117-43	620-10117-44	620-10117-45	620-10117-46	620-10117-5
Field Sample ID		2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012	2023-MW-06-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/02/23
Benzene	mg/kg	0.0526 U	0.0486 U	0.0493 U	0.0451 U	0.0562 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.263 U	0.243 U	0.247 U	0.226 U	0.281 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.263 U	0.243 U	0.247 U	0.226 U	0.281 U
C9-C10 Aromatics	mg/kg	0.263 U	0.243 U	0.247 U	0.226 U	0.281 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.263 U	0.243 U	0.247 U	0.226 U	0.281 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.263 U	0.243 U	0.247 U	0.226 U	0.281 U
Ethylbenzene	mg/kg	0.0526 U	0.0486 U	0.0493 U	0.0451 U	0.0562 U
m,p-Xylene	mg/kg	0.105 U	0.0972 U	0.0987 U	0.0903 U	0.112 U
Methyl tert-butyl ether	mg/kg	0.0526 U	0.0486 U	0.0493 U	0.0451 U	0.0562 U
Naphthalene	mg/kg	0.0526 U	0.0486 U	0.0493 U	0.0451 U	0.0562 U
o-Xylene	mg/kg	0.0526 U	0.0486 U	0.0493 U	0.0451 U	0.0562 U
Toluene	mg/kg	0.0526 U	0.0486 U	0.0493 U	0.0451 U	0.0562 U

DATA SUMMARY TABLE

Analysis		VPH in Soil			
Lab Sample ID		620-10117-6	620-10117-7	620-10117-8	620-10117-9
Field Sample ID		2023-MW-06-1012	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406
Sample Type		N	N	N	N
Parent Sample ID					
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23
Benzene	mg/kg	0.0532 U	0.0526 U	0.0555 U	0.0604 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.266 U	0.263 U	0.277 U	0.302 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.266 U	0.263 U	0.277 U	0.302 U
C9-C10 Aromatics	mg/kg	0.266 U	0.263 U	0.277 U	0.302 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.266 U	0.263 U	0.277 U	0.302 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.266 U	0.263 U	0.277 U	0.302 U
Ethylbenzene	mg/kg	0.0532 U	0.0526 U	0.0555 U	0.0604 U
m,p-Xylene	mg/kg	0.106 U	0.105 U	0.111 U	0.121 U
Methyl tert-butyl ether	mg/kg	0.0532 U	0.0526 U	0.0555 U	0.0604 U
Naphthalene	mg/kg	0.0532 U	0.0526 U	0.0555 U	0.0604 U
o-Xylene	mg/kg	0.0532 U	0.0526 U	0.0555 U	0.0604 U
Toluene	mg/kg	0.0532 U	0.0526 U	0.0555 U	0.0604 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix	
Lab Sample ID		620-10117-39	620-10117-40
Field Sample ID		Trip Blank-05	Trip Blank-06
Sample Type		TB	TB
Parent Sample ID			
Sample Date	**Units**	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U
1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U
1,1-Dichloropropene	mg/kg	0.005 U	0.005 U
1,2,3-Trichlorobenzene	mg/kg	0.005 U	0.005 U
1,2,3-Trichloropropane	mg/kg	0.005 U	0.005 U
1,2,4-Trichlorobenzene	mg/kg	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/kg	0.005 U	0.005 U
1,2-Dibromo-3-chloropropane	mg/kg	0.01 U	0.01 U
1,2-Dibromoethane	mg/kg	0.005 U	0.005 U
1,2-Dichlorobenzene	mg/kg	0.005 U	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U
1,3,5-Trichlorobenzene	mg/kg	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	0.005 U	0.005 U
1,3-Dichlorobenzene	mg/kg	0.005 U	0.005 U
1,3-Dichloropropane	mg/kg	0.005 U	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix	
Lab Sample ID		620-10117-39	620-10117-40
Field Sample ID		Trip Blank-05	Trip Blank-06
Sample Type		TB	TB
Parent Sample ID			
Sample Date	**Units**	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.005 U	0.005 U
1,4-Dichlorobenzene	mg/kg	0.005 U	0.005 U
1,4-Dioxane	mg/kg	0.1 U	0.1 U
2,2-Dichloropropane	mg/kg	0.005 U	0.005 U
2-Butanone	mg/kg	0.01 U	0.01 U
2-Chlorotoluene	mg/kg	0.005 U	0.005 U
2-Hexanone	mg/kg	0.01 U	0.01 U
4-Chlorotoluene	mg/kg	0.005 U	0.005 U
4-Isopropyltoluene	mg/kg	0.005 U	0.005 U
4-Methyl-2-pentanone	mg/kg	0.01 U	0.01 U
Acetone	mg/kg	0.05 U	0.05 U
Acrylonitrile	mg/kg	0.005 U	0.005 U
Benzene	mg/kg	0.005 U	0.005 U
Bromobenzene	mg/kg	0.005 U	0.005 U
Bromochloromethane	mg/kg	0.005 U	0.005 U
Bromodichloromethane	mg/kg	0.005 U	0.005 U
Bromoform	mg/kg	0.005 U	0.005 U
Bromomethane	mg/kg	0.01 U	0.01 U
Carbon disulfide	mg/kg	0.01 U	0.01 U
Carbon tetrachloride	mg/kg	0.005 U	0.005 U
Chlorobenzene	mg/kg	0.005 U	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix	
Lab Sample ID		620-10117-39	620-10117-40
Field Sample ID		Trip Blank-05	Trip Blank-06
Sample Type		TB	TB
Parent Sample ID			
Sample Date	**Units**	03/03/23	03/03/23
Chloroethane	mg/kg	0.01 U	0.01 U
Chloroform	mg/kg	0.005 U	0.005 U
Chloromethane	mg/kg	0.01 U	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U
cis-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U
Dibromochloromethane	mg/kg	0.005 U	0.005 U
Dibromomethane	mg/kg	0.005 U	0.005 U
Dichlorodifluoromethane	mg/kg	0.01 U	0.01 U
Diethyl ether	mg/kg	0.005 U	0.005 U
Diisopropyl Ether	mg/kg	0.005 U	0.005 U
Ethanol	mg/kg	1 U	1 U
Ethylbenzene	mg/kg	0.005 U	0.005 U
Hexachlorobutadiene	mg/kg	0.01 U	0.01 U
Isopropylbenzene	mg/kg	0.005 U	0.005 U
m,p-Xylene	mg/kg	0.005 U	0.005 U
Methyl tert-butyl ether	mg/kg	0.005 U	0.005 U
Methylene chloride	mg/kg	0.01 U	0.01 U
Naphthalene	mg/kg	0.005 U	0.005 U
n-Butylbenzene	mg/kg	0.01 U	0.01 U
n-Propylbenzene	mg/kg	0.005 U	0.005 U
o-Xylene	mg/kg	0.005 U	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix	
Lab Sample ID		620-10117-39	620-10117-40
Field Sample ID		Trip Blank-05	Trip Blank-06
Sample Type		TB	TB
Parent Sample ID			
Sample Date	**Units**	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.005 U	0.005 U
Styrene	mg/kg	0.005 U	0.005 U
tert-Amyl methyl ether	mg/kg	0.005 U	0.005 U
tert-Butyl Alcohol	mg/kg	0.1 U	0.1 U
Tert-Butyl Ethyl Ether	mg/kg	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	0.005 U	0.005 U
Tetrachloroethene	mg/kg	0.005 U	0.005 U
Tetrahydrofuran	mg/kg	0.01 U	0.01 U
Toluene	mg/kg	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U
trans-1,4-Dichlorobutene	mg/kg	0.025 U	0.025 U
Trichloroethene	mg/kg	0.005 U	0.005 U
Trichlorofluoromethane	mg/kg	0.005 U	0.005 U
Vinyl chloride	mg/kg	0.005 U	0.005 U
Xylene (total)	mg/kg	0.015 U	0.015 U

Data Review Qualification Actions
American Tissue Mill
SDG 620101171

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Acetone	2023-SB-08-0406, 2023-SB-07-0406, 2023-MW-05-0406, 2023-SB-05-0608	Laboratory blank contamination	RL (U)	
	Methylene chloride	2023-SB-08-0810	Laboratory blank contamination	RL (U)	
	Acetone, acrylonitrile, carbon tetrachloride, 1,2-dibromo-3-chloropropane, 4-methyl-2-pentanone, tetrahydrofuran, tert-butanol, 1,4-dioxane, ethanol, 2-hexanone	2023-SB-12-1012	MS recovery	UJ	
	Naphthalene	All SB samples	MS/MSD recovery	UJ	
SVOCs					
	Pentachlorophenol	2023-SB-05-0406	Laboratory blank contamination	RL (U)	
	Benzoic acid	2023-SB-12-0002	LCS/LCSD recovery / RPD	J	
	Benzoic acid	2023-MW-06-0002, 2023-MW-06-0204, 2023-MW-06-0406, 2023-MW-06-0608, 2023-MW-06-0810, 2023-MW-06-1012, 2023-SB-08-0002, 2023-SB-08-0204, 2023-SB-08-0406, 2023-SB-08-0608, 2023-SB-08-0810, 2023-SB-08-1012, 2023-SB-12-0204	LCS/LCSD recovery	UJ	No detected results.
	Benzidine	2023-SB-12-1012	MS/MSD recoveries (< 10%)	R	
	Benzidine	All SB samples	MS/MSD recoveries / RPD	J / UJ	

Data Review Qualification Actions
American Tissue Mill
SDG 620101171

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	Benzoic acid	2023-SB-05-0406	MS/MSD recoveries	J	
PCBs					
	Aroclor 1254	2023-SB-06-0406, 2023-FD-07	Field duplicate precision	J	
	Aroclor 1254	2023-SB-12-1012	MS/MSD RPD	J	
MassDEP-VPH					
	Naphthalene	2023-FD-06	Laboratory blank contamination	Result (U)	
	Naphthalene	2023-MW-06-0002, 2023-SB-05-0204, 2023-SB-05-0406, 2023-SB-06-0608, 2023-SB-07-0406, 2023-SB-12-0608, 2023-SB-12-1012	Laboratory blank contamination	RL (U)	
MCP-14 Metals / Mercury					
	Barium, lead	2023-SB-12-1012	MS/MSD recovery, RPD	J	Final qual J due to %R and RPD.
	Thallium	2023-SB-12-1012	MS/MSD recovery	UJ	
	Vanadium	2023-SB-12-1012	MS/MSD recovery	J+	
	Barium, lead	2023-SB-12-0810	MS/MSD recovery	J+	Final qual for Pb is J, indeterminate bias, due to laboratory duplicate precision.
	Antimony	2023-SB-12-0810	MS/MSD recovery	UJ	
	Lead	2023-SB-12-0810	Laboratory duplicate precision	J	
	Zinc	2023-SB-12-1012	Laboratory duplicate precision	J	

Data Review Qualification Actions
American Tissue Mill
SDG 620101171

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PFAS					
	NMeFOSAA, NEtFOSAA	2023-MW-06-0002, 2023-MW-06-0204, 2023-MW-06-0810, 2023-SB-08-0002, 2023-SB-08-0406, 2023-SB-08-0608, 2023-SB-08-0810, 2023-SB-12-0204, 2023-SB-12-0810, 2023-MW-05-0002	Surrogate recovery	UJ	
	NMeFOSAA	2023-MW-06-0406, 2023-SB-08-0204, 2023-SB-06-0204	Surrogate recovery	UJ	
	NMeFOSAA	2023-SB-12-0002	Surrogate recovery (< 10%)	R	
	NEtFOSAA	2023-SB-12-0002	Surrogate recovery	UJ	
	4:2 FTS, 8:2 FTS, 6:2 FTS, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnA, PFDoDA, PFTeDA, PFBS, PFHxS, PFOS, PFBA, PFPeA, HFPO-DA	2023-SB-12-0002	Surrogate recovery	UJ	
	PFHxA	2023-SB-06-0810, 2023-SB-06-1012	Surrogate recovery	J	

MW - Monitoring Well
SB - Soil Boring
PFPeA - Perfluoropentanoic acid

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 04/07/2023
Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins New England, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (Metals and PFAS); Eurofins Northeast, Amherst, NY (MassDEP-VPH)
SDG: 620101171
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Forty-four (44) soil samples, including two field duplicate samples, were listed on the COC for SDG 620101171. Two trip blank samples were also included on the COC. The samples were collected on 03/02/2023 and 03/03/2023 and received at the Eurofins New England Laboratory on 03/03/2023 at temperatures ranging from 0.2 and 2.6 °C. Samples for MassDEP-VPH analysis were subsequently shipped to Eurofins Northeast Laboratory and samples for MCP-14 metals/mercury and PFAS analyses were shipped to Eurofins Lancaster Laboratory for analysis. Samples were received at Eurofins Northeast on 03/04/2023 at 2.1 °C. Samples were received at Eurofins Lancaster Laboratory on 03/04/2023 at 0.4 and 1.3 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-06-0002	620-10117-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-06-0204	620-10117-2	
2023-MW-06-0406	620-10117-3	
2023-MW-06-0608	620-10117-4	
2023-MW-06-0810	620-10117-5	
2023-MW-06-1012	620-10117-6	
2023-SB-08-0002	620-10117-7	
2023-SB-08-0204	620-10117-8	
2023-SB-08-0406	620-10117-9	
2023-SB-08-0608	620-10117-10	
2023-SB-08-0810	620-10117-11	
2023-SB-08-1012	620-10117-12	
2023-SB-12-0002	620-10117-13	
2021-SB-12-0204	620-10117-14	
2023-SB-12-0406	620-10117-15	
2023-SB-12-0608	620-10117-16	
2023-SB-12-0810	620-10117-17	
2023-SB-12-1012	620-10117-18	

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
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Sample ID	Laboratory ID	Analyses
2023-SB-07-0002	620-10117-19	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-SB-07-0204	620-10117-20	
2023-SB-07-0406	620-10117-21	
2023-SB-07-0608	620-10117-22	
2023-SB-07-0810	620-10117-23	
2023-SB-07-1012	620-10117-24	
2023-MW-05-0002	620-10117-25	
2023-MW-05-0204	620-10117-26	
2023-MW-05-0608	620-10117-27	
2023-MW-05-0810	620-10117-28	
2023-MW-05-1012	620-10117-29	
2023-MW-05-0406	620-10117-30	
2023-FD-06	620-10117-31	
2023-FD-07	620-10117-32	
2023-SB-06-0002	620-10117-33	
2023-SB-06-0204	620-10117-34	
2023-SB-06-0406	620-10117-35	
2023-SB-06-0608	620-10117-36	
2023-SB-06-0810	620-10117-37	
2023-SB-06-1012	620-10117-38	
2023-SB-05-0002	620-10117-41	
2023-SB-05-0204	620-10117-42	
2023-SB-05-0406	620-10117-43	
2023-SB-05-0608	620-10117-44	
2023-SB-05-0810	620-10117-45	
2023-SB-05-1012	620-10117-46	
Trip Blank-05	620-10117-39	VOCs
Trip Blank-06	620-10117-40	

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (soil) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for several additional VOCs were also reported by the laboratory. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1'-biphenyl. Based on the QAPPA (February 2023), 1,1'-biphenyl is not a compound of

concern for the site. Results for several additional SVOCs were also reported by the laboratory. No action is required.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory. Results for MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

MassDEP-VPH: Results for all VPH parameters on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, copper, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which do not include these analytes.

PFAS: Results for all PFAS compounds on Table 2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for mercury; within 180 days for all other analytes) were met.

PFAS: Samples were extracted within the QAPP-specified holding time of 28 days from collection. Samples were analyzed within 40 days of extraction. No actions are taken.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Laboratory and Field Blanks

VOCs: Acetone was detected at < RL in several VOC laboratory method blanks. Results for acetone were non-detect in the associated samples except in samples 2023-SB-08-0406 (620-10117-9), 2023-SB-07-0406 (620-10117-21), 2023-MW-05-0406 (620-10117-30), and 2023-SB-05-0608 (620-10117-44), where acetone was detected at < RL. Based on the National Functional Guidelines (NFGs, 2020), detected acetone results are qualified as non-detect at the RL (RL [U]) in these samples due to laboratory blank contamination.

Methylene chloride was also detected at < RL in several VOC laboratory method blanks. Results for methylene chloride were non-detected in the associated samples except for sample 2023-SB-08-0810 (620-10117-11), where methylene chloride was detected at < RL. Based on the NFGs (2020), the detected methylene chloride result is qualified as non-detect at the RL (RL [U]) in this sample due to laboratory blank contamination.

Two trip blank samples are associated with the soil samples of this SDG (Trip Blank-05 and Trip Blank -06, both collected on 03/03/2023). Results for both trip blanks were non-detect. No actions are required based on the trip blank results.

SVOCs: Pentachlorophenol was detected at < RL in two SVOC laboratory method blanks. Results for pentachlorophenol were non-detect in all associated soil samples except sample 2023-SB-05-0406 (620-10117-43), where pentachlorophenol was detected at < RL. Based on the NFGs (2020), the detected result for pentachlorophenol in sample 2023-SB-05-0406 is qualified as non-detect at the RL (RL [U]) due to laboratory blank contamination.

PCBs: Results for all PCB laboratory method blanks were non-detect. No blank actions are required.

MassDEP-VPH: Naphthalene was detected at < RL in three VPH laboratory method blanks. Results for naphthalene were non-detect in the associated samples except for the samples summarized below.

Sample ID	Compound	Blank Result	Sample Result	Action*
2023-FD-06	Naphthalene	< RL	> RL	Result (U)
2023-MW-06-0002		< RL	< RL	RL (U)
2023-SB-05-0204		< RL	< RL	RL (U)
2023-SB-05-0406		< RL	< RL	RL (U)
2023-SB-06-0608		< RL	< RL	RL (U)
2023-SB-07-0406		< RL	< RL	RL (U)
2023-SB-12-0608		< RL	< RL	RL (U)
2023-SB-12-1012		< RL	< RL	RL (U)

* Professional judgement was used to base actions on the NFGs (2020) for VOC analysis.

MCP-14 Metals/Mercury: Results for all metals and mercury laboratory method blanks were non-detect. No blank actions are required.

PFAS: Results for PFAS were non-detect in all laboratory method blanks. No blank actions are required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130% except for the recoveries of 1,2-dichloroethane-d4 and dibromofluoromethane in samples 2023-SB-08-1012 (620-10117-12), 2023-SB-12-1012 (620-10117-18), and 2023-SB-07-0406 (620-10117-21), where recoveries exceeded the QAPP limits of 70-130%. Recoveries ranged from 131–165%. The samples were re-analyzed with similar results. Sample results for all VOCs were non-detect in the associated samples. Based on the NFGs (2020), the non-detect results are accepted unqualified since the potential bias is high. No actions are required.

The surrogate 4-bromofluorobenzene was recovered below the limits of 70-130% (68%) in sample 2023-SB0-05-0002 (620-10117-41). The sample was re-analyzed with acceptable surrogate recovery of all surrogates. Therefore, the laboratory reported results from the re-analysis of the sample and no actions are required.

SVOC: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-130% for soil. No actions are required.

PCBs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 30-150% on both analytical columns except for the recoveries in samples 2023-SB-12-0002 (620-10117-13), 2023-SB-07-0406 (620-10117-21), 2023-MW-05-0002 (620-10117-25), 2023-FD-06 (620-10117-31), 2023-SB-06-0002 (620-10117-33), and 2023-SB-06-0204 (620-10117-34), where recoveries for both surrogates were not recovered on either analytical column due to sample dilutions of 20x, 50x, or 500x. No actions are required.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.

PFAS: Percent recoveries of several surrogates did not meet the Program QAPP limits of 50-150% in several samples. Results for all PFAS compounds were non-detect in all soil samples except for one detect of PFHxA in sample 2023-SB-06-0810 and one detect of PFHxA in sample 2023-SB-06-1012. Recoveries for the associated surrogate (13C5 PFHxA) in these two samples exceeded 50-150% recovery. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), the detected results for PFHxA in samples 2023-SB-06-0810 and 2023-SB-06-1012 are qualified as estimated (J) due to the high surrogate recoveries. Note that both detections are < RL and are therefore already qualified (J) by the laboratory. Non-detect results with associated surrogate recovery below limits are qualified as estimated (UJ). Non-detect results with associated surrogate recovery above limits are accepted unqualified since the potential bias is high. Non-detect results with associated surrogate recoveries < 10% are rejected (R). Refer to the Data Review Qualification Actions Table for action details.

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover. All percent LCS/LCSD recoveries meet the Program QAPP recovery limits of 70-130% except for dichlorodifluoromethane, bromomethane, chloroethane, and/or 1,1,2,2-tetrachloroethane in select LCS/LCSD pairs. The MCP CAM identifies these compounds as “potentially difficult” to recover; therefore, the recovery limits of 40-160% apply for these compounds. Recoveries for dichlorodifluoromethane, bromomethane, chloroethane, and 1,1,2,2-

tetrachloroethane meet the expanded limits of 40-160% and no action is required for these LCS/LCSD results.

The recovery of 1,2-dibromo-3-chloropropane in LCS 620-20516/1-A also exceeded 70-130% (139%) and is not considered a "potentially difficult" compound. This LCS is associated with the re-analysis of sample 2023-SB-12-1012 (620-10117-18), which was analyzed to confirm surrogate recoveries in the original analysis. The original analysis of the sample was reported and therefore, no actions are required.

SVOCs: LCS/LCSD percent recoveries met the Program QAPP limits of 40-140% for base/neutral compounds and 30-130% for acid compounds except for the percent recovery for benzoic acid in the LCSD of LCS/LCSD pair 620-20475-3-A (22%). Benzoic acid is not an MCP CAM compound identified as "potentially difficult". The RPD exceeded the QAPP limit of ≤ 30% (36%).

Results for benzoic acid were non-detect in all associated soil samples except for sample 2023-SB-12-0002 (620-10117-13) where benzoic acid was detected at > RL. Based on the NFGs (2020) for SVOC LCS/LCSD recovery, the detected benzoic acid result in sample 2023-SB-12-0002 is qualified as estimated with a potential low bias (J-). Note the final qualification was estimated (J) with an indeterminant bias. Professional judgement was used to qualify the non-detect results for benzoic acid in samples 620-10117-1 through 620-10117-12, and 620-10117-14 as estimated (UJ) rather than rejected (R) since the recoveries in the LCS of the pair and other LCS/LCSD pairs were acceptable.

PCBs: Percent recoveries of Aroclors 1016 and 1260 met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30% in all LCS/LCSD pairs. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pairs met the Program QAPP recovery limits of 70-130%. All RPDs met the Program QAPP RPD limit of ≤ 25%. No actions are required.

MCP-14 Metals/Mercury: Percent recoveries for all metals and mercury LCS analyses were within the limits of 80-120%. The Program QAPP and MCP CAM recovery limits for soil are within vendor 95% confidence limits. Vendor limits were not presented in the laboratory report; the laboratory used 80-120% as recovery limits based on MassDEP CAM Method 6010D for aqueous samples. Professional judgement was used to accept sample results for metals and mercury unqualified for LCS performance since recoveries were all within 80-120% limits.

PFAS: Percent recoveries for all PFAS LCS analyses met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS results. An LCSD was not analyzed for the PFAS analysis since MSD and/or laboratory duplicate analyses were provided in the laboratory report. Per the Program QAPP, an LCSD for the PFAS analysis is only required if MSD analyses are not provided. No actions are required.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix, unless otherwise indicated.

Based on professional judgement, qualifications were applied to soil boring (SB) and monitoring well (MW) samples separately, based on associated MS/MSD sample type.

VOCs: MS/MSD analyses were performed on samples 2023-SB-12-1012 (620-10117-18) and 2023-SB-05-0406 (620-10117-43). Percent recovery and RPD exceedances as well as actions taken are summarized in the tables below.

2023-SB-12-1012

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Acetone	69	ok	40	70-130% / ≤ 30%	UJ
Acrylonitrile	69	ok	35		UJ
Carbon Tetrachloride	ok	0	NC		UJ
Chloroethane	140	ok	ok		A all SB samples
1,2-Dibromo-3-chloropropane	55	ok	42		UJ
4-Methyl-2-pentanone	60	ok	ok		UJ
Naphthalene	44	68	43		UJ all SB samples
Tetrahydrofuran	58	ok	34		UJ
tert-Butanol	53	ok	50		UJ
1,4-Dioxane	48	ok	46		UJ
Ethanol	64	ok	50		UJ
2-Hexanone	ok	ok	37		UJ

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for all compounds except chloroethane and naphthalene to the parent sample only since limits were met in the MS/MSD analyses for 2023-SB-05-0406, as shown below.
NC - Not Calculated
SB – Soil Boring

Professional judgement was used to qualify as estimated (UJ) rather than reject (R) the non-detect result for carbon tetrachloride in the parent sample since recovery was acceptable in the MS analysis. Parent sample results were non-detect for all compounds above. Chloroethane and naphthalene results were non-detect in all SB samples. No action is required for RPD since associated results were non-detect. Laboratory LCS/LCSD recoveries for the compounds above were acceptable.

2023-SB-05-0406

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		%R / RPD	
1,1,2-Trichlrofluoromethane	138	ok	ok	70-130% / ≤ 30%	A
Bromochloromethane	131	ok	ok		A
Bromodichloromethane	138	ok	ok		A
Chloroethane	133	ok	ok		A all SB samples
Dibromochloromethane	131	ok	ok		A
1,1-Dichloroethane	133	ok	ok		A
1,1-Dichloroethene	134	ok	ok		A
trans-1,2-Dichloroethene	134	ok	ok		A
1,2-Dichloropropane	133	ok	ok		A
Naphthalene	57	ok	ok		UJ all SB samples
1,1,2,2-Tetrachloroethane	131	ok	ok		A
Toluene	132	ok	ok		A
1,1,2-Trichloroethane	136	ok	ok		A
Trichlorofluoromethane	131	ok	ok		A
2-Hexanone	ok	ok	65		A

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for all compounds except chloroethane and naphthalene to the parent sample only since limits were met in the MS/MSD analyses for 2023-SB-12-1012, as shown above.
SB – Soil Boring

Parent sample results were non-detect for all compounds above. No action is required for RPD since associated results were non-detect. As previously noted, chloroethane and naphthalene results were non-detect in all SB samples. Laboratory LCS/LCSD recoveries for the compounds above were acceptable.

SVOCs: MS/MSD analyses were performed on samples 2023-SB-12-1012 (620-10117-18) and 2023-SB-05-0406 (620-10117-43). Percent recovery and RPD exceedances as well as actions taken are summarized in the tables below.

2023-SB-12-1012

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Benzidine	0	0	NC	40-140% / ≤ 30%	R

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions to parent sample only since actions based on the MS/MSD analyses for 2023-SB-05-0406 are dissimilar, as shown below.
NC – Not Calculated

Benzidine was not detected in the parent sample; therefore, the non-detect result was rejected.

2023-SB-05-0406

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Benzidine	14	8	60	40-140% / ≤ 30%	J / UJ**
Benzoic acid	21	24	ok	30-130% / ≤ 30%	J

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for benzidine to all SB samples except 2023-SB-12-1012 since MS recovery for 2023-SB-05-0406 was > 10% in one of the MS/MSD pairs and to apply actions for benzoic acid to the parent sample only since results for benzoic acid were acceptable in the MS/MSD analyses of 2023-SB-12-1012.
** Professional judgement was used to qualify as estimated (UJ) rather than reject (R) non-detect results since the MS recovery was > 10%.
NC - Not Calculated

PCBs: Only Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, actions were applied to associated Aroclors:

If only 1016/1260 spiked into the MS/MSD, apply actions to the following Aroclors:
If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on samples 2023-SB-12-1012 (620-10117-18) and 2023-SB-05-0406 (620-10117-43). Recoveries for Aroclor 1016 and 1260 meet the Program QAPP limits of 40-140% in the MS/MSD analyses of both parent samples. However, the RPDs for the Aroclor 1016 and Aroclor 1260 results in the MS/MSD analyses of 2023-SB-12-1012 exceed the Program QAPP limit of ≤ 30% (54% and 49%, respectively). Professional judgement was used to apply action for the RPD exceedances to the parent sample only since all MS/MSD limits were met for sample 2023-SB-05-0406. Based on the NFGs (2020), the detected result for Aroclor 1254 in sample 2023-SB-12-1012 is qualified as estimated (J) due to the high RPD. Non-detect results for

the remaining Aroclors reported for the sample are accepted unqualified for RPD exceedance, per the NFGs (2020). No actions are required for MS/MSD results for sample 2023-SB-05-0406.

MassDEP-VPH: MS/MSD analyses were performed on sample 2023-SB-12-1012 (620-10117-18) and 2023-SB-05-0406 (620-10117-43). Recoveries and RPDs met the Program QAPP limits of 70-130% recovery and ≤ 50% RPD. No actions are required.

MCP-14 Metals/Mercury: MS/MSD analyses for MCP-14 metals were performed on samples 2023-SB-12-1012 (620-10117-18) and 2023-SB-05-0406 (620-10117-43). Percent recoveries and actions taken are summarized below.

2023-SB-12-1012

Compound	% Recovery		Limits	Action*
	MS	MSD	%R	
Barium	208	130	75-125%	J+
Lead	157	ok		J+
Thallium	49	ok		UJ
Vanadium	134	ok		J+

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions to the parent sample only since QAPP limits for these analytes were met in the MS/MSD analyses for 2023-SB-05-0406.

Barium, lead, and vanadium were detected in the parent sample (2023-SB-12-1012). Results for these analytes are qualified as estimated with a potential high bias (J+) due to the high recoveries. Thallium was non-detect in the parent sample and the result was qualified as estimated (UJ) due to the low recovery.

Recoveries for all analytes were within the 75-125% limits in the MS/MSD analysis of sample SB-05-0406. No actions are required.

Note that several RPDs reported by the laboratory exceeded the Program QAPP limit of ≤ 35% due primarily to the different spiking levels used for the MS and MSD samples. Therefore, precision could not be evaluated meaningfully based on the concentrations recovered. Professional judgement was used to evaluate precision by comparing the percent recoveries between the MS and MSD analyses. Percent recoveries between the MS and MSD analyses were similar and precision is deemed acceptable for all RPDs except barium, lead, and thallium for the MS/MSD results for 2023-SB-12-1012, where RPDs for the percent recoveries exceeded 35%. Professional judgement was used to qualify the barium and lead results as estimated (J) in parent sample 2023-SB-12-1012 with final qualifiers estimated (J) with an indeterminate bias due to qualifications based on the RPD results of percent recoveries. The non-detect thallium result was qualified as estimated (UJ) due to a low percent recovery as discussed above. Based on the NFGs (2020), further action is not required for thallium due to RPD results.

MS/MSD analyses were also performed on sample 2023-SB-12-0810 (620-10117-17) and 2023-SB-05-0002 (620-10117-41).

The recoveries for barium and lead exceeded the limits of 75-125% in the MS/MSD analyses for sample 2023-SB-12-0810. The recovery for antimony was below the limits of 75-125% (64%) in the MS analysis. Professional judgement was used to apply actions to the parent sample only since MS/MSD results for sample 2023-SB-05-0406 (620-10117-43) were acceptable. Therefore, based on the NFGs (2020), the detected results for barium and lead were qualified as estimated with a potential high bias (J+) and the non-detect antimony result was qualified as estimated (UJ) in parent sample 2023-SB-12-0810. Reported results for the MS and MSD analyses of thallium were “ND”. Note that the parent sample was run at a 10x dilution factor; therefore, spiked thallium

was likely diluted out by the dilution required to report thallium in the parent sample. Professional judgement was used to accept the non-detect thallium result in sample 2023-SB-12-0810. The MS and MSD samples were spiked at similar concentrations and the RPDs are < 35%.

The recoveries for lead were below the limits of 75-125% in the MS/MSD analysis of sample 2023-SB-05-002 (-5% and -11%, respectively). The concentration of lead in the parent sample was > 4x the spiking level in the MS/MSD samples; therefore, based on the NFGs (2020), no actions are required. The MS and MSD samples were spiked at similar concentrations and all RPDs are < 35%. Percent recoveries for all other analytes meet the 75-125% limits.

MS/MSD analyses for mercury were performed on samples 2023-SB-12-1012 (620-10117-18), 2023-SB-05-0406 (620-10117-43), 2023-SB-12-0810 (620-10117-17), 2023-SB-12-0204 (620-10117-14), and 2023-SB-05-0002 (620-10117-41). Percent recoveries and RPDs met the Program QAPP limits of 75-125% recovery and RPD ≤ 35% for all MS/MSD analyses except for the MS analysis of sample 2023-SB-12-0810 (620-10117-17) where the recovery was 131%. Professional judgement was used to apply actions only to the parent sample since mercury recoveries were acceptable for the other four SB MS/MSD analyses in this SDG. Mercury was not detected in sample 2023-SB-12-0810. Based on the NFGs, the non-detect result for mercury is accepted unqualified in this sample since the potential bias is high.

PFAS: MS/MSD analyses were performed on samples 2023-SB-12-1012 (620-10117-18), 2023-SB-05-0406 (620-10117-43), 2023-SB-05-0608 (620-10117-44), and 2023-SB-06-0608 (620-10117-36). Percent recoveries and RPDs for all PFAS compounds met the laboratory-established limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include MS/MSD recovery limits for PFAS. Therefore, the laboratory-established recovery and RPD limits were used to evaluate the MS/MSD results. No actions are required.

9. Laboratory Duplicates (metals only)

MCP-14 Metals/Mercury: Laboratory duplicate analyses were performed on samples 2023-SB-12-1012 (620-10117-18), 2023-SB-05-0406 (620-10117-43), 2023-SB-12-0810 (620-10117-17), and 2023-SB-05-0002 (620-10117-41).

Program QAPP laboratory duplicate criteria (≤ 35% RPD) were met for all analytes for the duplicate analyses performed on samples 2023-SB-05-0406 and 2023-SB-05-0002. No actions are required.

Laboratory duplicate criteria (≤ 35% RPD) were exceeded for lead (RPD 45%) in sample 2023-SB-12-0810. The original sample result was < 5x RL while the duplicate result was > 5x RL. The absolute difference between the results was > RL. Based on the NFGs (2020), the detected lead result in sample 2023-SB-12-0810 is qualified as estimated (J) due to exceeded laboratory duplicate performance. Professional judgement was used to apply action to the parent sample only since lead met laboratory duplicate precision criteria in the other SB laboratory duplicate analyses.

Laboratory duplicate criteria were exceeded for zinc (48%) in sample 2023-SB-12-1012. The original and duplicate results were > 5x RL. Based on the NFGs (2020), the detected zinc result in sample 2023-SB-12-1012 is qualified as estimated (J) due to exceeded laboratory duplicate performance. Professional judgement was used to apply action to the parent sample only since zinc met laboratory duplicate precision criteria in the other SB laboratory duplicate analyses.

Laboratory duplicate analyses for mercury were performed on samples 2023-SB-12-1012 (620-10117-18), 2023-SB-05-0406 (620-10117-43), 2023-SB-12-0810 (620-10117-17), 2023-SB-12-0204 (620-10117-14), and 2023-SB-05-0002 (620-10117-41). Duplicate precision criteria (RPD ≤ 35%) were met for all five samples. Absolute differences for results < 5x RL were < the RL. No actions are required.

Note that Table 2-12-2 of the Program QAPP lists a laboratory duplicate as a QC sample for the PFAS analysis with no associated QC limit. A laboratory duplicate analysis was not reported by the laboratory for the PFAS analysis. The EPA Data Review and Validation Guidelines for PFAS Analyzed using EPA Method 537 (2018) does not include discussion of laboratory duplicate analyses. No actions are taken.

10. Serial Dilution (metals only)

MCP-14 Metals/Mercury: A serial dilution analysis was not performed for this SDG. The Massachusetts CAM requires a serial dilution analysis on samples used for MS/MSD analyses where analytes are detected at > 50x RL. MS/MSD analyses were performed on samples 2023-SB-12-1012 (620-10117-18), 2023-SB05-0406 (620-10117-43), 2023-SB-12-0810 (620-10117-17), and 2023-SB-05-0002 (620-10117-41). Detected analyte results were < 50x RL for all MS/MSD samples except for barium in sample 2023-SB-05-0002, which was detected at 57.0 mg/kg with an RL of 0.516 mg/kg. Based on the NFGs, detected results are qualified as estimated (J) if a serial dilution analysis is not performed. Professional judgement was used to accept the detected barium result in sample 2023-SB-05-0002 unqualified since the MS/MSD recoveries and RPD results as well as the laboratory duplicate results for barium in this sample were acceptable. Actions are limited to the parent sample only since three other SB MS/MSD and laboratory duplicate results were acceptable. There are no serial dilution criteria included in the Program QAPP.

11. Field Duplicate Precision

Field duplicate pairs 2023-SB-07-0406 (620-10117-21) / 2023-FD-06 (620-10117-31) and 2023-SB-06-0406 (620-10117-35) / 2023-FD-07 (620-10117-32) are associated with the soil samples of this SDG. Acceptable field duplicate precision is an RPD of ≤ 50% for results > 5x RL and an absolute difference < 4x RL for results < 5x RL, based on the EPA Region 1 Supplement (2020).

Based on the Region 1 Supplement (2020), qualifications are applied to all field samples with similar matrix unless otherwise indicated.

Field duplicate precision criteria were met for the VOC, SVOC, MassDEP VPH, MCP-14 Metals/Mercury, and PFAS analyses for both field duplicate pairs. Field duplicate precision criteria were exceeded for Aroclor 1254 in the analysis of field duplicate pair 2023-SB-06-0406 / 2023-FD-07 (RPD 64%), for results > 5x RL. The detected results for Aroclor 1254 are qualified as estimated in the field duplicate pair. Actions are limited to the field duplicate pair only since field duplicate precision criteria were met for field duplicate pair 2023-SB-07-0406 / 2023-FD-06.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections. No action is taken.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

RLs for non-detect results for VOCs, SVOCs, and MassDEP-VPH analyses met the Project Action Levels (PALs) for the site.

RLs for non-detect PCB Aroclor results meet the PAL of 1 mg/kg for each Aroclor except for the RLs for non-detect Aroclor results in samples 2023-MW-05-0002 (620-10117-25), 2023-SB-06-0002 (620-101171-33), and 2023-SB-06-0204 (620-101171-34), where RLs ranged from 1.14 to 1.17 mg/kg for non-detect Aroclor results. The exceeded PALs were due to sample dilutions required to report the results for these samples. All 3 samples required a dilution factor of 50x. Site objectives may be impacted.

RLs for non-detect MCP-14 metals/mercury results met the PALs for the site except for the thallium RLs in samples 2023-SB-12-0810 (620-10117-17) and 2023-MW-06-0810 (620-10117-5), where the PAL of 8 mg/kg was exceeded (38.9 mg/kg and 27.1 mg/kg, respectively). Non-detect thallium results for these samples were reported with a dilution factor of 10x. Site objectives may be impacted.

Note there are no PALs associated with the PFAS analysis.

16. Other

Region 1 Supplement (2020) criterion for percent solids content (> 30%) was met for all soil samples. No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620101171 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
1,1,1,2-Tetrachloroethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,1,1-Trichloroethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,1,2,2-Tetrachloroethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,1,2-Trichloroethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,1-Dichloroethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,1-Dichloroethene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,1-Dichloropropene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2,3-Trichlorobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2,3-Trichloropropane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2,4-Trichlorobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2,4-Trimethylbenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2-Dibromo-3-chloropropane	0.00888	U	0.00938	U	5.48		Ok - both ND
1,2-Dibromoethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2-Dichlorobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2-Dichloroethane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,2-Dichloropropane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,3,5-Trichlorobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,3,5-Trimethylbenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,3-Dichlorobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,3-Dichloropropane	0.00444	U	0.00469	U	5.48		Ok - both ND
1,3-Dichloropropene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,4-Dichlorobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
1,4-Dioxane	0.0888	U	0.0938	U	5.48		Ok - both ND
2,2-Dichloropropane	0.00444	U	0.00469	U	5.48		Ok - both ND
2-Butanone	0.00888	U	0.00938	U	5.48		Ok - both ND
2-Chlorotoluene	0.00444	U	0.00469	U	5.48		Ok - both ND
2-Hexanone	0.00888	U	0.00938	U	5.48		Ok - both ND
4-Chlorotoluene	0.00444	U	0.00469	U	5.48		Ok - both ND
4-Isopropyltoluene	0.00444	U	0.00469	U	5.48		Ok - both ND
4-Methyl-2-pentanone	0.00888	U	0.00938	U	5.48		Ok - both ND
Acetone	0.0218	BJ	0.0469	U	73.07		Ok - both ND after blank actions
Acrylonitrile	0.00444	U	0.00469	U	5.48		Ok - both ND
Benzene	0.00444	U	0.00469	U	5.48		Ok - both ND
Bromobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
Bromochloromethane	0.00444	U	0.00469	U	5.48		Ok - both ND
Bromodichloromethane	0.00444	U	0.00469	U	5.48		Ok - both ND
Bromoform	0.00444	U	0.00469	U	5.48		Ok - both ND
Bromomethane	0.00888	U	0.00938	U	5.48		Ok - both ND
Carbon disulfide	0.00888	U	0.00938	U	5.48		Ok - both ND
Carbon tetrachloride	0.00444	U	0.00469	U	5.48		Ok - both ND
Chlorobenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
Chloroethane	0.00888	U	0.00938	U	5.48		Ok - both ND
Chloroform	0.00444	U	0.00469	U	5.48		Ok - both ND
Chloromethane	0.00888	U	0.00938	U	5.48		Ok - both ND
cis-1,2-Dichloroethene	0.00444	U	0.00469	U	5.48		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
cis-1,3-Dichloropropene	0.00444	U	0.00469	U	5.48		Ok - both ND
Dibromochloromethane	0.00444	U	0.00469	U	5.48		Ok - both ND
Dibromomethane	0.00444	U	0.00469	U	5.48		Ok - both ND
Dichlorodifluoromethane	0.00888	U	0.00938	U	5.48		Ok - both ND
Diethyl ether	0.00444	U	0.00469	U	5.48		Ok - both ND
Diisopropyl Ether	0.00444	U	0.00469	U	5.48		Ok - both ND
Ethanol	0.888	U	0.938	U	5.48		Ok - both ND
Ethylbenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
Hexachlorobutadiene	0.00888	U	0.00938	U	5.48		Ok - both ND
Isopropylbenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
m,p-Xylene	0.00444	U	0.00469	U	5.48		Ok - both ND
Methyl tert-butyl ether	0.00444	U	0.00469	U	5.48		Ok - both ND
Methylene chloride	0.00888	U	0.00938	U	5.48		Ok - both ND
Naphthalene	0.00444	U	0.00469	U	5.48		Ok - both ND
n-Butylbenzene	0.00888	U	0.00938	U	5.48		Ok - both ND
n-Propylbenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
o-Xylene	0.00444	U	0.00469	U	5.48		Ok - both ND
sec-Butylbenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
Styrene	0.00444	U	0.00469	U	5.48		Ok - both ND
tert-Amyl methyl ether	0.00444	U	0.00469	U	5.48		Ok - both ND
tert-Butyl Alcohol	0.0888	U	0.0938	U	5.48		Ok - both ND
Tert-Butyl Ethyl Ether	0.00444	U	0.00469	U	5.48		Ok - both ND
tert-Butylbenzene	0.00444	U	0.00469	U	5.48		Ok - both ND
Tetrachloroethene	0.00444	U	0.00469	U	5.48		Ok - both ND
Tetrahydrofuran	0.00888	U	0.00938	U	5.48		Ok - both ND
Toluene	0.00444	U	0.00469	U	5.48		Ok - both ND
trans-1,2-Dichloroethene	0.00444	U	0.00469	U	5.48		Ok - both ND
trans-1,3-Dichloropropene	0.00444	U	0.00469	U	5.48		Ok - both ND
trans-1,4-Dichlorobutene	0.0222	U	0.0234	U	5.26		Ok - both ND
Trichloroethene	0.00444	U	0.00469	U	5.48		Ok - both ND
Trichlorofluoromethane	0.00444	U	0.00469	U	5.48		Ok - both ND
Vinyl chloride	0.00444	U	0.00469	U	5.48		Ok - both ND
Xylene (total)	0.0133	U	0.0141	U	5.84		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
1,2,4,5-Tetrachlorobenzene	0.364	U	0.368	U	1.09		Ok - both ND
1,2,4-Trichlorobenzene	0.364	U	0.368	U	1.09		Ok - both ND
1,2-Dichlorobenzene	0.364	U	0.368	U	1.09		Ok - both ND
1,3-Dichlorobenzene	0.364	U	0.368	U	1.09		Ok - both ND
1,4-Dichlorobenzene	0.364	U	0.368	U	1.09		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.184	U	0.186	U	1.08		Ok - both ND
2,4,5-Trichlorophenol	0.364	U	0.368	U	1.09		Ok - both ND
2,4,6-Trichlorophenol	0.184	U	0.186	U	1.08		Ok - both ND
2,4-Dichlorophenol	0.184	U	0.186	U	1.08		Ok - both ND
2,4-Dimethylphenol	0.364	U	0.368	U	1.09		Ok - both ND
2,4-Dinitrophenol	0.364	U	0.368	U	1.09		Ok - both ND
2,4-Dinitrotoluene	0.184	U	0.186	U	1.08		Ok - both ND
2,6-Dinitrotoluene	0.184	U	0.186	U	1.08		Ok - both ND
2-Chloronaphthalene	0.364	U	0.368	U	1.09		Ok - both ND
2-Chlorophenol	0.184	U	0.186	U	1.08		Ok - both ND
2-Methylnaphthalene	0.0736	U	0.0743	U	0.95		Ok - both ND
2-Methylphenol	0.364	U	0.368	U	1.09		Ok - both ND
2-Nitroaniline	0.364	U	0.368	U	1.09		Ok - both ND
2-Nitrophenol	0.184	U	0.186	U	1.08		Ok - both ND
3 & 4 Methylphenol	0.364	U	0.368	U	1.09		Ok - both ND
3,3'-Dichlorobenzidine	0.364	U	0.368	U	1.09		Ok - both ND
3-Nitroaniline	0.364	U	0.368	U	1.09		Ok - both ND
4,6-Dinitro-2-methylphenol	0.364	U	0.368	U	1.09		Ok - both ND
4-Bromophenyl-phenylether	0.364	U	0.368	U	1.09		Ok - both ND
4-Chloro-3-methylphenol	0.364	U	0.368	U	1.09		Ok - both ND
4-Chloroaniline	0.184	U	0.186	U	1.08		Ok - both ND
4-Chlorophenyl-phenylether	0.364	U	0.368	U	1.09		Ok - both ND
4-Nitroaniline	0.184	U	0.186	U	1.08		Ok - both ND
4-Nitrophenol	0.364	U	0.368	U	1.09		Ok - both ND
Acenaphthene	0.0736	U	0.0743	U	0.95		Ok - both ND
Acenaphthylene	0.0736	U	0.0743	U	0.95		Ok - both ND
Acetophenone	0.184	U	0.186	U	1.08		Ok - both ND
Aniline	0.364	U	0.368	U	1.09		Ok - both ND
Anthracene	0.0736	U	0.0743	U	0.95		Ok - both ND
Azobenzene	0.364	U	0.368	U	1.09		Ok - both ND
Benzidine	0.728	U	0.735	U	0.96		Ok - both ND
Benzo(a)anthracene	0.0736	U	0.0743	U	0.95		Ok - both ND
Benzo(a)pyrene	0.0736	U	0.0743	U	0.95		Ok - both ND
Benzo(b)fluoranthene	0.0736	U	0.0743	U	0.95		Ok - both ND
Benzo(g,h,i)perylene	0.0736	U	0.0743	U	0.95		Ok - both ND
Benzo(k)fluoranthene	0.0736	U	0.0743	U	0.95		Ok - both ND
Benzoic Acid	0.364	U	0.524		36.04	0.16	Ok - abs diff < 4x RL
Benzyl Alcohol	0.364	U	0.368	U	1.09		Ok - both ND
Bis(2-chloroethoxy)methane	0.364	U	0.368	U	1.09		Ok - both ND
Bis(2-chloroethyl)ether	0.184	U	0.186	U	1.08		Ok - both ND
bis-(2-chloroisopropyl)ether	0.184	U	0.186	U	1.08		Ok - both ND
Bis(2-ethylhexyl)phthalate	11.3		4.31		-89.56	-6.99	Ok - abs diff < 4x RL

Field Duplicate Evaluation

SDG: 620101171 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
Butylbenzylphthalate	2.73		2.25		-19.28		Ok - RPD < 50%
Carbazole	0.184	U	0.186	U	1.08		Ok - both ND
Chrysene	0.0736	U	0.0743	U	0.95		Ok - both ND
Dibenz(a,h)anthracene	0.0736	U	0.0743	U	0.95		Ok - both ND
Dibenzofuran	0.184	U	0.186	U	1.08		Ok - both ND
Diethylphthalate	0.364	U	0.368	U	1.09		Ok - both ND
Dimethylphthalate	0.364	U	0.368	U	1.09		Ok - both ND
Di-N-Butylphthalate	0.356	J	0.368	U	3.31		Ok - both ND
Di-N-Octyl Phthalate	0.364	U	0.368	U	1.09		Ok - both ND
Fluoranthene	0.0736	U	0.0743	U	0.95		Ok - both ND
Fluorene	0.0736	U	0.0743	U	0.95		Ok - both ND
Hexachlorobenzene	0.184	U	0.186	U	1.08		Ok - both ND
Hexachlorobutadiene	0.184	U	0.186	U	1.08		Ok - both ND
Hexachlorocyclopentadiene	0.184	U	0.186	U	1.08		Ok - both ND
Hexachloroethane	0.184	U	0.186	U	1.08		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.0736	U	0.0743	U	0.95		Ok - both ND
Isophorone	0.184	U	0.186	U	1.08		Ok - both ND
Naphthalene	0.0736	U	0.0743	U	0.95		Ok - both ND
Naphthalene, 1-methyl-	0.0736	U	0.0743	U	0.95		Ok - both ND
Nitrobenzene	0.184	U	0.186	U	1.08		Ok - both ND
N-Nitrosodimethylamine (NDMA)	0.184	U	0.186	U	1.08		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.184	U	0.186	U	1.08		Ok - both ND
N-Nitrosodiphenylamine	0.364	U	0.368	U	1.09		Ok - both ND
Pentachloronitrobenzene	0.364	U	0.368	U	1.09		Ok - both ND
Pentachlorophenol	0.364	U	0.368	U	1.09		Ok - both ND
Phenanthrene	0.0736	U	0.0743	U	0.95		Ok - both ND
Phenol	0.364	U	0.368	U	1.09		Ok - both ND
Pyrene	0.0736	U	0.0743	U	0.95		Ok - both ND
Pyridine	0.364	U	0.368	U	1.09		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
Aroclor 1016	0.468	U	0.455	U	-2.82		Ok - both ND
Aroclor 1221	0.468	U	0.455	U	-2.82		Ok - both ND
Aroclor 1232	0.468	U	0.455	U	-2.82		Ok - both ND
Aroclor 1242	0.468	U	0.455	U	-2.82		Ok - both ND
Aroclor 1248	0.468	U	0.455	U	-2.82		Ok - both ND
Aroclor 1254	16.2		14.5		-11.07		RPD < 50%
Aroclor 1260	0.468	U	0.455	U	-2.82		Ok - both ND
Aroclor 1262	0.468	U	0.455	U	-2.82		Ok - both ND
Aroclor 1268	0.468	U	0.455	U	-2.82		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
Benzene	0.0457	U	0.0661	U	36.49		Ok - both ND
C5-C8 Aliphatics (adjusted)	0.228	U	0.331	U	36.85		Ok - both ND
C5-C8 Aliphatics (unadjusted)	0.228	U	0.331	U	36.85		Ok - both ND
C9-C10 Aromatics	0.228	U	0.149	J	-41.91		Ok - ND and < RL
C9-C12 Aliphatics (adjusted)	0.228	U	0.357		44.10	0.13	Ok - abs diff < 4x RL
C9-C12 Aliphatics (unadjusted)	0.228	U	0.506		75.75	0.28	Ok - abs diff < 4x RL
Ethylbenzene	0.0457	U	0.0661	U	36.49		Ok - both ND
m,p-Xylene	0.0913	U	0.132	U	36.45		Ok - both ND
Methyl tert-butyl ether	0.0457	U	0.0661	U	36.49		Ok - both ND
Naphthalene	0.0349	BJ	0.098		94.96	0.06	Ok - abs diff < 4x RL
o-Xylene	0.0457	U	0.0661	U	36.49		Ok - both ND
Toluene	0.0457	U	0.0661	U	36.49		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
Antimony	5.49	U	4.97	U	-9.94		Ok - both ND
Arsenic	2.89	J	2.06	J	-33.54		Ok - both < RL
Barium	31.4		26.7		-16.18		Ok - RPD < 50%
Beryllium	0.29	J	0.256	J	-12.45		Ok - both < RL
Cadmium	0.549	U	0.497	U	-9.94		Ok - both ND
Chromium	9.44		10.6		11.58		Ok - RPD < 50%
Lead	4.51		5.21		14.40	0.70	Ok - abs diff < 4x RL
Mercury	0.0682	U	0.0674	U	-1.18		Ok - both ND
Nickel	4.47		4.08		-9.12	-0.39	Ok - abs diff < 4x RL
Selenium	5.49	U	4.97	U	-9.94		Ok - both ND
Silver	1.1	U	0.994	U	-10.12		Ok - both ND
Thallium	3.29	U	2.98	U	-9.89		Ok - both ND
Vanadium	9.11		8.49		-7.05		Ok - RPD < 50%
Zinc	19.4		18.4		-5.29		Ok - RPD < 50%

Field Duplicate Evaluation

SDG: 620101171 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-07-0406**		**2023-FD-06**				
	620-10117-21		**620-10117-31**				
10:2 FTS	2.28	U	2.16	U	-5.41		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.684	U	0.647	U	-5.56		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.28	U	2.16	U	-5.41		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.28	U	2.16	U	-5.41		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.42	U	3.23	U	-5.71		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.28	U	2.16	U	-5.41		Ok - both ND
6:2 Fluorotelomer sulfonate	2.28	U	2.16	U	-5.41		Ok - both ND
8:2 Fluorotelomer sulfonate	3.42	U	3.23	U	-5.71		Ok - both ND
9Cl-PF3ONS	2.28	U	2.16	U	-5.41		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.28	U	2.16	U	-5.41		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.28	U	2.16	U	-5.41		Ok - both ND
octanesulfonamide	2.28	U	2.16	U	-5.41		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.28	U	2.16	U	-5.41		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.28	U	2.16	U	-5.41		Ok - both ND
(PFBS)	2.28	U	2.16	U	-5.41		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.28	U	2.16	U	-5.41		Ok - both ND
Perfluorodecane Sulfonate	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.28	U	2.16	U	-5.41		Ok - both ND
(PFDoA)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluoroheptane sulfonate	0.684	U	0.647	U	-5.56		Ok - both ND
(PFHpA)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorohexadecanoic acid	0.684	U	0.647	U	-5.56		Ok - both ND
(PFHxS)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorononanesulfonic acid	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorononanoic acid (PFNA)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.684	U	0.647	U	-5.56		Ok - both ND
(PFTrDA)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorooctadecanoic acid	0.684	U	0.647	U	-5.56		Ok - both ND
(PFOS)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluorooctylsulfonamide	0.684	U	0.647	U	-5.56		Ok - both ND
Perfluoropentanoic Acid	0.684	U	0.647	U	-5.56		Ok - both ND
(PFPeS)	0.684	U	0.647	U	-5.56		Ok - both ND
(PFUna)	0.684	U	0.647	U	-5.56		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
1,1,1,2-Tetrachloroethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,1,1-Trichloroethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,1,2,2-Tetrachloroethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,1,2-Trichloroethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,1-Dichloroethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,1-Dichloroethene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,1-Dichloropropene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2,3-Trichlorobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2,3-Trichloropropane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2,4-Trichlorobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2,4-Trimethylbenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2-Dibromo-3-chloropropane	0.0092	U	0.00953	U	3.52		Ok - both ND
1,2-Dibromoethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2-Dichlorobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2-Dichloroethane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,2-Dichloropropane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,3,5-Trichlorobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,3,5-Trimethylbenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,3-Dichlorobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,3-Dichloropropane	0.0046	U	0.00476	U	3.42		Ok - both ND
1,3-Dichloropropene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,4-Dichlorobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
1,4-Dioxane	0.092	U	0.0953	U	3.52		Ok - both ND
2,2-Dichloropropane	0.0046	U	0.00476	U	3.42		Ok - both ND
2-Butanone	0.0092	U	0.00953	U	3.52		Ok - both ND
2-Chlorotoluene	0.0046	U	0.00476	U	3.42		Ok - both ND
2-Hexanone	0.0092	U	0.00953	U	3.52		Ok - both ND
4-Chlorotoluene	0.0046	U	0.00476	U	3.42		Ok - both ND
4-Isopropyltoluene	0.0046	U	0.00476	U	3.42		Ok - both ND
4-Methyl-2-pentanone	0.0092	U	0.00953	U	3.52		Ok - both ND
Acetone	0.046	U	0.0476	U	3.42		Ok - both ND
Acrylonitrile	0.0046	U	0.00476	U	3.42		Ok - both ND
Benzene	0.0046	U	0.00476	U	3.42		Ok - both ND
Bromobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
Bromochloromethane	0.0046	U	0.00476	U	3.42		Ok - both ND
Bromodichloromethane	0.0046	U	0.00476	U	3.42		Ok - both ND
Bromoform	0.0046	U	0.00476	U	3.42		Ok - both ND
Bromomethane	0.0092	U	0.00953	U	3.52		Ok - both ND
Carbon disulfide	0.0092	U	0.00953	U	3.52		Ok - both ND
Carbon tetrachloride	0.0046	U	0.00476	U	3.42		Ok - both ND
Chlorobenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
Chloroethane	0.0092	U	0.00953	U	3.52		Ok - both ND
Chloroform	0.0046	U	0.00476	U	3.42		Ok - both ND
Chloromethane	0.0092	U	0.00953	U	3.52		Ok - both ND
cis-1,2-Dichloroethene	0.0046	U	0.00476	U	3.42		Ok - both ND
cis-1,3-Dichloropropene	0.0046	U	0.00476	U	3.42		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
Dibromochloromethane	0.0046	U	0.00476	U	3.42		Ok - both ND
Dibromomethane	0.0046	U	0.00476	U	3.42		Ok - both ND
Dichlorodifluoromethane	0.0092	U	0.00953	U	3.52		Ok - both ND
Diethyl ether	0.0046	U	0.00476	U	3.42		Ok - both ND
Diisopropyl Ether	0.0046	U	0.00476	U	3.42		Ok - both ND
Ethanol	0.92	U	0.953	U	3.52		Ok - both ND
Ethylbenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
Hexachlorobutadiene	0.0092	U	0.00953	U	3.52		Ok - both ND
Isopropylbenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
m,p-Xylene	0.0046	U	0.00476	U	3.42		Ok - both ND
Methyl tert-butyl ether	0.0046	U	0.00476	U	3.42		Ok - both ND
Methylene chloride	0.0092	U	0.00953	U	3.52		Ok - both ND
Naphthalene	0.0046	U	0.00476	U	3.42		Ok - both ND
n-Butylbenzene	0.0092	U	0.00953	U	3.52		Ok - both ND
n-Propylbenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
o-Xylene	0.0046	U	0.00476	U	3.42		Ok - both ND
sec-Butylbenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
Styrene	0.0046	U	0.00476	U	3.42		Ok - both ND
tert-Amyl methyl ether	0.0046	U	0.00476	U	3.42		Ok - both ND
tert-Butyl Alcohol	0.092	U	0.0953	U	3.52		Ok - both ND
Tert-Butyl Ethyl Ether	0.0046	U	0.00476	U	3.42		Ok - both ND
tert-Butylbenzene	0.0046	U	0.00476	U	3.42		Ok - both ND
Tetrachloroethene	0.0046	U	0.00476	U	3.42		Ok - both ND
Tetrahydrofuran	0.0092	U	0.00953	U	3.52		Ok - both ND
Toluene	0.0046	U	0.00476	U	3.42		Ok - both ND
trans-1,2-Dichloroethene	0.0046	U	0.00476	U	3.42		Ok - both ND
trans-1,3-Dichloropropene	0.0046	U	0.00476	U	3.42		Ok - both ND
trans-1,4-Dichlorobutene	0.023	U	0.0238	U	3.42		Ok - both ND
Trichloroethene	0.0046	U	0.00476	U	3.42		Ok - both ND
Trichlorofluoromethane	0.0046	U	0.00476	U	3.42		Ok - both ND
Vinyl chloride	0.0046	U	0.00476	U	3.42		Ok - both ND
Xylene (total)	0.0138	U	0.0143	U	3.56		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
1,2,4,5-Tetrachlorobenzene	0.381	U	0.37	U	-2.93		Ok - both ND
1,2,4-Trichlorobenzene	0.381	U	0.37	U	-2.93		Ok - both ND
1,2-Dichlorobenzene	0.381	U	0.37	U	-2.93		Ok - both ND
1,3-Dichlorobenzene	0.381	U	0.37	U	-2.93		Ok - both ND
1,4-Dichlorobenzene	0.381	U	0.37	U	-2.93		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.193	U	0.187	U	-3.16		Ok - both ND
2,4,5-Trichlorophenol	0.381	U	0.37	U	-2.93		Ok - both ND
2,4,6-Trichlorophenol	0.193	U	0.187	U	-3.16		Ok - both ND
2,4-Dichlorophenol	0.193	U	0.187	U	-3.16		Ok - both ND
2,4-Dimethylphenol	0.381	U	0.37	U	-2.93		Ok - both ND
2,4-Dinitrophenol	0.381	U	0.37	U	-2.93		Ok - both ND
2,4-Dinitrotoluene	0.193	U	0.187	U	-3.16		Ok - both ND
2,6-Dinitrotoluene	0.193	U	0.187	U	-3.16		Ok - both ND
2-Chloronaphthalene	0.381	U	0.37	U	-2.93		Ok - both ND
2-Chlorophenol	0.193	U	0.187	U	-3.16		Ok - both ND
2-Methylnaphthalene	0.077	U	0.0749	U	-2.76		Ok - both ND
2-Methylphenol	0.381	U	0.37	U	-2.93		Ok - both ND
2-Nitroaniline	0.381	U	0.37	U	-2.93		Ok - both ND
2-Nitrophenol	0.193	U	0.187	U	-3.16		Ok - both ND
3 & 4 Methylphenol	0.381	U	0.37	U	-2.93		Ok - both ND
3,3'-Dichlorobenzidine	0.381	U	0.37	U	-2.93		Ok - both ND
3-Nitroaniline	0.381	U	0.37	U	-2.93		Ok - both ND
4,6-Dinitro-2-methylphenol	0.381	U	0.37	U	-2.93		Ok - both ND
4-Bromophenyl-phenylether	0.381	U	0.37	U	-2.93		Ok - both ND
4-Chloro-3-methylphenol	0.381	U	0.37	U	-2.93		Ok - both ND
4-Chloroaniline	0.193	U	0.187	U	-3.16		Ok - both ND
4-Chlorophenyl-phenylether	0.381	U	0.37	U	-2.93		Ok - both ND
4-Nitroaniline	0.193	U	0.187	U	-3.16		Ok - both ND
4-Nitrophenol	0.381	U	0.37	U	-2.93		Ok - both ND
Acenaphthene	0.077	U	0.0749	U	-2.76		Ok - both ND
Acenaphthylene	0.077	U	0.0749	U	-2.76		Ok - both ND
Acetophenone	0.193	U	0.187	U	-3.16		Ok - both ND
Aniline	0.381	U	0.37	U	-2.93		Ok - both ND
Anthracene	0.077	U	0.0749	U	-2.76		Ok - both ND
Azobenzene	0.381	U	0.37	U	-2.93		Ok - both ND
Benzidine	0.762	U	0.741	U	-2.79		Ok - both ND
Benzo(a)anthracene	0.077	U	0.0749	U	-2.76		Ok - both ND
Benzo(a)pyrene	0.077	U	0.0749	U	-2.76		Ok - both ND
Benzo(b)fluoranthene	0.077	U	0.0749	U	-2.76		Ok - both ND
Benzo(g,h,i)perylene	0.077	U	0.0749	U	-2.76		Ok - both ND
Benzo(k)fluoranthene	0.077	U	0.0749	U	-2.76		Ok - both ND
Benzoic Acid	0.381	U	0.37	U	-2.93		Ok - both ND
Benzyl Alcohol	0.381	U	0.37	U	-2.93		Ok - both ND
Bis(2-chloroethoxy)methane	0.381	U	0.37	U	-2.93		Ok - both ND
Bis(2-chloroethyl)ether	0.193	U	0.187	U	-3.16		Ok - both ND
bis-(2-chloroisopropyl)ether	0.193	U	0.187	U	-3.16		Ok - both ND
Bis(2-ethylhexyl)phthalate	0.193	U	0.187	U	-3.16		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
Butylbenzylphthalate	0.381	U	0.37	U	-2.93		Ok - both ND
Carbazole	0.193	U	0.187	U	-3.16		Ok - both ND
Chrysene	0.077	U	0.0749	U	-2.76		Ok - both ND
Dibenz(a,h)anthracene	0.077	U	0.0749	U	-2.76		Ok - both ND
Dibenzofuran	0.193	U	0.187	U	-3.16		Ok - both ND
Diethylphthalate	0.381	U	0.37	U	-2.93		Ok - both ND
Dimethylphthalate	0.381	U	0.37	U	-2.93		Ok - both ND
Di-N-Butylphthalate	0.381	U	0.37	U	-2.93		Ok - both ND
Di-N-Octyl Phthalate	0.381	U	0.37	U	-2.93		Ok - both ND
Fluoranthene	0.077	U	0.0749	U	-2.76		Ok - both ND
Fluorene	0.077	U	0.0749	U	-2.76		Ok - both ND
Hexachlorobenzene	0.193	U	0.187	U	-3.16		Ok - both ND
Hexachlorobutadiene	0.193	U	0.187	U	-3.16		Ok - both ND
Hexachlorocyclopentadiene	0.193	U	0.187	U	-3.16		Ok - both ND
Hexachloroethane	0.193	U	0.187	U	-3.16		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.077	U	0.0749	U	-2.76		Ok - both ND
Isophorone	0.193	U	0.187	U	-3.16		Ok - both ND
Naphthalene	0.077	U	0.0749	U	-2.76		Ok - both ND
Naphthalene, 1-methyl-	0.077	U	0.0749	U	-2.76		Ok - both ND
Nitrobenzene	0.193	U	0.187	U	-3.16		Ok - both ND
N-Nitrosodimethylamine (NDMA)	0.193	U	0.187	U	-3.16		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.193	U	0.187	U	-3.16		Ok - both ND
N-Nitrosodiphenylamine	0.381	U	0.37	U	-2.93		Ok - both ND
Pentachloronitrobenzene	0.381	U	0.37	U	-2.93		Ok - both ND
Pentachlorophenol	0.381	U	0.37	U	-2.93		Ok - both ND
Phenanthrene	0.077	U	0.0749	U	-2.76		Ok - both ND
Phenol	0.381	U	0.37	U	-2.93		Ok - both ND
Pyrene	0.077	U	0.0749	U	-2.76		Ok - both ND
Pyridine	0.381	U	0.37	U	-2.93		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
Aroclor 1016	0.023	U	0.0232	U	0.87		Ok - both ND
Aroclor 1221	0.023	U	0.0232	U	0.87		Ok - both ND
Aroclor 1232	0.023	U	0.0232	U	0.87		Ok - both ND
Aroclor 1242	0.023	U	0.0232	U	0.87		Ok - both ND
Aroclor 1248	0.023	U	0.0232	U	0.87		Ok - both ND
Aroclor 1254	0.115		0.225		64.71	0.110	**RPD > 50%; J both**
Aroclor 1260	0.023	U	0.0232	U	0.87		Ok - both ND
Aroclor 1262	0.023	U	0.0232	U	0.87		Ok - both ND
Aroclor 1268	0.023	U	0.0232	U	0.87		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
Benzene	0.0494	U	0.0525	U	6.08		Ok - both ND
C5-C8 Aliphatics (adjusted)	0.247	U	0.262	U	5.89		Ok - both ND
C5-C8 Aliphatics (unadjusted)	0.247	U	0.262	U	5.89		Ok - both ND
C9-C10 Aromatics	0.247	U	0.262	U	5.89		Ok - both ND
C9-C12 Aliphatics (adjusted)	0.247	U	0.262	U	5.89		Ok - both ND
C9-C12 Aliphatics (unadjusted)	0.247	U	0.262	U	5.89		Ok - both ND
Ethylbenzene	0.0494	U	0.0525	U	6.08		Ok - both ND
m,p-Xylene	0.0988	U	0.105	U	6.08		Ok - both ND
Methyl tert-butyl ether	0.0494	U	0.0525	U	6.08		Ok - both ND
Naphthalene	0.0494	U	0.0525	U	6.08		Ok - both ND
o-Xylene	0.0494	U	0.0525	U	6.08		Ok - both ND
Toluene	0.0494	U	0.0525	U	6.08		Ok - both ND

Field Duplicate Evaluation

SDG: 620101171 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
Antimony	3.93	U	4.09	U	3.99		Ok - both ND
Arsenic	1.6	J	1.66	J	3.68		Ok - both < RL
Barium	23.5		20.6		-13.15		Ok - RPD < 50%
Beryllium	0.325	J	0.28	J	-14.88		Ok - both < RL
Cadmium	0.393	U	0.409	U	3.99		Ok - both ND
Chromium	6.63		6.28		-5.42		Ok - RPD < 50%
Lead	2.9		2.9		0.00	0.00	Ok - abs diff < 4x RL
Mercury	0.0661	U	0.0662	U	0.15		Ok - both ND
Nickel	3.33		3.93		16.53	0.60	Ok - abs diff < 4x RL
Selenium	3.93	U	4.09	U	3.99		Ok - both ND
Silver	0.787	U	0.818	U	3.86		Ok - both ND
Thallium	2.36	U	2.45	U	3.74		Ok - both ND
Vanadium	10.2		9.14		-10.96		Ok - RPD < 50%
Zinc	58.8		64		8.47		Ok - RPD < 50%

Field Duplicate Evaluation

SDG: 620101171 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-06-0406**		**2023-FD-07**				
	620-10117-35		**620-10117-32**				
10:2 FTS	2.1	U	2.14	U	1.89		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.631	U	0.642	U	1.73		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.1	U	2.14	U	1.89		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.1	U	2.14	U	1.89		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.15	U	3.21	U	1.89		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.1	U	2.14	U	1.89		Ok - both ND
6:2 Fluorotelomer sulfonate	2.1	U	2.14	U	1.89		Ok - both ND
8:2 Fluorotelomer sulfonate	3.15	U	3.21	U	1.89		Ok - both ND
9Cl-PF3ONS	2.1	U	2.14	U	1.89		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.1	U	2.14	U	1.89		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.1	U	2.14	U	1.89		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	2.1	U	2.14	U	1.89		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.1	U	2.14	U	1.89		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.1	U	2.14	U	1.89		Ok - both ND
Perfluorobutanesulfonic acid (PFBS)	2.1	U	2.14	U	1.89		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.1	U	2.14	U	1.89		Ok - both ND
Perfluorodecane Sulfonate	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.1	U	2.14	U	1.89		Ok - both ND
Perfluorododecanoic Acid (PFDoA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluoroheptane sulfonate	0.631	U	0.642	U	1.73		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorohexadecanoic acid	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorohexanesulfonic acid (PFHxS)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorononanesulfonic acid	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorononanoic acid (PFNA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluoro-n-tridecanoic acid (PFTrDA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorooctadecanoic acid	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorooctanesulfonic acid (PFOS)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluorooctylsulfonamide	0.631	U	0.642	U	1.73		Ok - both ND
Perfluoropentanoic Acid	0.631	U	0.642	U	1.73		Ok - both ND
Perfluoropetanesulfonic acid (PFPeS)	0.631	U	0.642	U	1.73		Ok - both ND
Perfluoroundecanoic Acid (PFUna)	0.631	U	0.642	U	1.73		Ok - both ND

620-10117 Chain of Custody

Chain of Custody Record

eurofins | Environment Testing

Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 10
Phone:	E-Mail:	State of Origin:	Page: Page 10 of 17

Bridget Fortier

Company: Nobis Engineering Inc. | PWSID:

Address: 585 Middlesex Street | Due Date Requested:

City: Lowell | TAT Requested (days): Standard

State, Zip: MA, 01851 | Compliance Project: Δ Yes Δ No

Phone: 978-399-9657 | PO #: 500001 007

Email: bfortier@nobis-group.com | WO #:

Project Name: American Tissue Mill | Project #:

Site: Templeton, MA | SSOW#:

Job #:

Analysis Requested

Preservation Codes.

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							B		F					
01	2023 - MW-06 - 0002'	3/2/23	14:15	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023 - MW-06 - 0204'		14:20		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023 - MW-06 - 0406'		14:25		Solid			✓	✓	✓	✓	✓	✓	7	
04	2023 - MW-06 - 0608'		14:30		Solid			✓	✓	✓	✓	✓	✓	7	
05	2023 - MW-06 - 0810'		14:35		Solid			✓	✓	✓	✓	✓	✓	7	
06	2023 - MW-06 - 1012'		14:40		Solid			✓	✓	✓	✓	✓	✓	7	
07	2023 - SB-08 - 0002'		15:10		Solid			✓	✓	✓	✓	✓	✓	7	
08	2023 - SB-08 - 0204'		15:15		Solid			✓	✓	✓	✓	✓	✓	7	
09	2023 - SB-08 - 0406'		15:20		Solid			✓	✓	✓	✓	✓	✓	7	
10	2023 - SB-08 - 0608'		15:25		Solid			✓	✓	✓	✓	✓	✓	7	
11	2023 - SB-08 - 0810'	↓	15:30	↓	Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmigratne@nobis-group.com

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
2	[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.4 +0.2 2.6 #C

Ver: 06/08/2021

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.11
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 11 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
12	2023-SB-08-1012'	3/2/23	15:35	G	Solid			✓	✓	✓	✓	✓	✓	7	
13	2023-SB-12-0002'	3/3/23	09:00		Solid			✓	✓	✓	✓	✓	✓	7	
14	2023-SB-12-0204'		09:05		Solid			✓	✓	✓	✓	✓	✓	7	
15	2023-SB-12-0406'		09:10		Solid			✓	✓	✓	✓	✓	✓	7	
16	2023-SB-12-0608'		09:15		Solid			✓	✓	✓	✓	✓	✓	7	
17	2023-SB-12-0810'		09:20		Solid			✓	✓	✓	✓	✓	✓	7	
18	2023-SB-12-1012'		09:25		Solid		Y	✓	✓	✓	✓	✓	✓	21	
19	2023-SB-07-0002'		09:50		Solid			✓	✓	✓	✓	✓	✓	7	
20	2023-SB-07-0204'		09:55		Solid			✓	✓	✓	✓	✓	✓	7	
21	2023-SB-07-0406'		10:00		Solid			✓	✓	✓	✓	✓	✓	7	
22	2023-SB-07-0608'		10:05		Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 14:00	ENE		3/3/23 14:00	ENE
2		3/3/23 16:09	ENE		3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.1 1 6 #6

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

10 of 17

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM	Carrier Tracking No(s):	COC No: 620-8842-1096 12
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 12 of 17
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested		Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH Mass DEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537								Total Number of containers	Special Instructions/Note:
	Preservation Code:					X	X														X	
23	2023-SB-07-0810'	3/3/23	10:10	G	Solid			✓	✓	✓	✓	✓	✓									
24	2023-SB-07-1012'		10:15		Solid			✓	✓	✓	✓	✓	✓									
25	2023-MW-05-0002'		10:40		Solid			✓	✓	✓	✓	✓	✓									
26	2023-MW-05-0204'		10:45		Solid			✓	✓	✓	✓	✓	✓									
27	2023-MW-05-0608'		10:50		Solid			✓	✓	✓	✓	✓	✓									
28	2023-MW-05-0810'		10:55		Solid			✓	✓	✓	✓	✓	✓									
29	2023-MW-05-1012'		11:00		Solid			✓	✓	✓	✓	✓	✓									
30	2023-MW-05-0406'		11:05		Solid			✓	✓	✓	✓	✓	✓									
31	2023-FD-06		08:00		Solid			✓	✓	✓	✓	✓	✓									
32	2023-FD-07		08:05		Solid			✓	✓	✓	✓	✓	✓									
33	2023-SB-06-0002'	↓	11:35	↓	Solid			✓	✓	✓	✓	✓	✓									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
2	[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 2.6 #6

Ver: 06/08/2021

3/23/2023

Page 536 of 554

(104)

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone. 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 13
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 13 of 17
Company: Nobis Engineering Inc.	PWSID:	Analysis Requested		Job #:
Address: 585 Middlesex Street	Due Date Requested:			Preservation Codes. A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA; M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify); Other:
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9657	PO #: S00001.002			
Email: bfortier@nobis-group com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537									Total Number of containers	Special Instructions/Note:
				Preservation Code:				FJ		F													
34	2023-SB-06-0204'	3/3/23	11:40	G	Solid			✓	✓	✓	✓	✓	✓									7	
35	2023-SB-06-0406'		11:45		Solid			✓	✓	✓	✓	✓	✓									7	
36	2023-SB-06-0608'		11:50		Solid			✓	✓	✓	✓	✓	✓									7	
37	2023-SB-06-0810'		11:55		Solid			✓	✓	✓	✓	✓	✓									7	
38	2023-SB-06-1012'		12.00		Solid			✓	✓	✓	✓	✓	✓									7	
39	TRIP BLANK-05		—		Solid			✓	✓	✓	✓	✓	✓	BF								3	
40	TRIP BLANK-06				Solid			✓	✓	✓	✓	✓	✓									3	
41	2023-SB-05-0002'		13:10		Solid			✓	✓	✓	✓	✓	✓									7	
42	2023-SB-05-0204'		13:15		Solid			✓	✓	✓	✓	✓	✓									7	
43	2023-SB-05-0406'		13:20		Solid		Y	✓	✓	✓	✓	✓	✓									21	
44	2023-SB-05-0608'	↓	13:25	↓	Solid			✓	✓	✓	✓	✓	✓									7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): Equis EDD

Special Instructions/QC Requirements. email to: dmcgrath@nobis-group com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3/3/23 14:00			3/3/23 14:00	ENE
2		3/3/23 16:09	ENE		3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 0.2 2.6 #6

Ver: 06/08/2021

3/23/2023

Page 537 of 554

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 14
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 14 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Stnd			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001602			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
U5 2023-SB-05-0810'	3/3/23	13:30	G	Solid			✓	✓	✓	✓	✓	✓	5	
U6 2023-SB-05-7012'	↓	13:35	G	Solid			✓	✓	✓	✓	✓	✓	7	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify): EQuIS Edd

Special Instructions/QC Requirements: dmcrath@nobis-group.com

Empty Kit Relinquished by: | Date: | Time | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 1.6 FS

Ver: 06/08/2021

3/23/2023

Page 538 of 554

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 14
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 14 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Stnd			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001602			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
U5 2023-SB-05-0810'	3/3/23	13:30	G	Solid			✓	✓	✓	✓	✓	✓	5	
U6 2023-SB-05-7012'	↓	13:35	G	Solid			✓	✓	✓	✓	✓	✓	7	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify): EQuIS Edd

Special Instructions/QC Requirements: dmcrath@nobis-group.com

Empty Kit Relinquished by: | Date: | Time | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 1.6 FS

Ver: 06/08/2021

3/23/2023

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Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-06-0002' (620-10117-1)	3/2/23	14:15 Eastern		Solid			X	X	X	2	
2023-MW-06-0204' (620-10117-2)	3/2/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-06-0406' (620-10117-3)	3/2/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-06-0608' (620-10117-4)	3/2/23	14:30 Eastern		Solid			X	X	X	2	
2023-MW-06-0810' (620-10117-5)	3/2/23	14:35 Eastern		Solid			X	X	X	2	
2023-MW-06-1012' (620-10117-6)	3/2/23	14:40 Eastern		Solid			X	X	X	2	
2023-SB-08-0002' (620-10117-7)	3/2/23	15:10 Eastern		Solid			X	X	X	2	
2023-SB-08-0204' (620-10117-8)	3/2/23	15:15 Eastern		Solid			X	X	X	2	
2023-SB-08-0406' (620-10117-9)	3/2/23	15:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 17:55	FWE	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	3/4/23 10:10	CLIENT

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 - 1.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-08-0608' (620-10117-10)	3/2/23	15:25 Eastern		Solid			X	X	X	2	
2023-SB-08-0810' (620-10117-11)	3/2/23	15:30 Eastern		Solid			X	X	X	2	
2023-SB-08-1012' (620-10117-12)	3/2/23	15:35 Eastern		Solid			X	X	X	2	
2023-SB-12-0002' (620-10117-13)	3/3/23	09:00 Eastern		Solid			X	X	X	2	
2023-SB-12-0204' (620-10117-14)	3/3/23	09:05 Eastern		Solid			X	X	X	2	
2023-SB-12-0406' (620-10117-15)	3/3/23	09:10 Eastern		Solid			X	X	X	2	
2023-SB-12-0608' (620-10117-16)	3/3/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-12-0810' (620-10117-17)	3/3/23	09:20 Eastern		Solid			X	X	X	2	
2023-SB-12-1012' (620-10117-18)	3/3/23	09:25 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 3/3/23 17:37	Company ENE	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/4/23 10:10	Company EUET

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4-1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-12-1012' (620-10117-18MS)	3/3/23	09:25 Eastern	MS	Solid			X	X	X	2	
2023-SB-12-1012' (620-10117-18MSD)	3/3/23	09:25 Eastern	MSD	Solid			X	X	X	2	
2023-SB-07-0002' (620-10117-19)	3/3/23	09:50 Eastern		Solid			X	X	X	2	
2023-SB-07-0204' (620-10117-20)	3/3/23	09:55 Eastern		Solid			X	X	X	2	
2023-SB-07-0406' (620-10117-21)	3/3/23	10:00 Eastern		Solid			X	X	X	2	
2023-SB-07-0608' (620-10117-22)	3/3/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-07-0810' (620-10117-23)	3/3/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-07-1012' (620-10117-24)	3/3/23	10:15 Eastern		Solid			X	X	X	2	
2023-MW-05-0002' (620-10117-25)	3/3/23	10:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/4/23 12:53	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ENET

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
✗ Yes Δ No		0.4 - 1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-05-0204' (620-10117-26)	3/3/23	10:45 Eastern		Solid			X	X	X	2	
2023-MW-05-0608' (620-10117-27)	3/3/23	10:50 Eastern		Solid			X	X	X	2	
2023-MW-05-0810' (620-10117-28)	3/3/23	10:55 Eastern		Solid			X	X	X	2	
2023-MW-05-1012' (620-10117-29)	3/3/23	11:00 Eastern		Solid			X	X	X	2	
2023-MW-05-0406' (620-10117-30)	3/3/23	11:05 Eastern		Solid			X	X	X	2	
2023-FD-06 (620-10117-31)	3/3/23	08:00 Eastern		Solid			X	X	X	2	
2023-FD-07 (620-10117-32)	3/3/23	08:05 Eastern		Solid			X	X	X	2	
2023-SB-06-0002' (620-10117-33)	3/3/23	11:35 Eastern		Solid			X	X	X	2	
2023-SB-06-0204' (620-10117-34)	3/3/23	11:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/3/23 12:33	ECC	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ELFT

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
✗ Yes Δ No		0.4 - 1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-06-0406' (620-10117-35)	3/3/23	11:45 Eastern		Solid			X	X	X	2	
2023-SB-06-0608' (620-10117-36)	3/3/23	11:50 Eastern		Solid			X	X	X	2	
2023-SB-06-0810' (620-10117-37)	3/3/23	11:55 Eastern		Solid			X	X	X	2	
2023-SB-06-1012' (620-10117-38)	3/3/23	12:00 Eastern		Solid			X	X	X	2	
2023-SB-05-0002' (620-10117-41)	3/3/23	13:10 Eastern		Solid			X	X	X	2	
2023-SB-05-0204' (620-10117-42)	3/3/23	13:15 Eastern		Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43)	3/3/23	13:20 Eastern		Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43MS)	3/3/23	13:20 Eastern	MS	Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43MSD)	3/3/23	13:20 Eastern	MSD	Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/3/23 17:33	ENE	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ET

Custody Seals Intact: ✗ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.4 - 1.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 6 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-05-0608' (620-10117-44)	3/3/23	13:25 Eastern		Solid			X	X	X	2	
2023-SB-05-0810' (620-10117-45)	3/3/23	13:30 Eastern		Solid			X	X	X	2	
2023-SB-05-1012' (620-10117-46)	3/3/23	13:35 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 1733	ET			
2						
3					3/4/23 10:10	ELET

Custody Seals Intact: ☒ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 - 1.3

Ver: 06/08/2021

SR

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-06-0002' (620-10117-1)	3/2/23	14:15 Eastern		Solid			X	X	1	
2023-MW-06-0204' (620-10117-2)	3/2/23	14:20 Eastern		Solid			X	X	1	
2023-MW-06-0406' (620-10117-3)	3/2/23	14:25 Eastern		Solid			X	X	1	
2023-MW-06-0608' (620-10117-4)	3/2/23	14:30 Eastern		Solid			X	X	1	
2023-MW-06-0810' (620-10117-5)	3/2/23	14:35 Eastern		Solid			X	X	1	
2023-MW-06-1012' (620-10117-6)	3/2/23	14:40 Eastern		Solid			X	X	1	
2023-SB-08-0002' (620-10117-7)	3/2/23	15:10 Eastern		Solid			X	X	1	
2023-SB-08-0204' (620-10117-8)	3/2/23	15:15 Eastern		Solid			X	X	1	
2023-SB-08-0406' (620-10117-9)	3/2/23	15:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/3/23 17:30	EUG	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					3-4-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.1 + ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-08-0608' (620-10117-10)	3/2/23	15:25 Eastern		Solid			X	X	1	
2023-SB-08-0810' (620-10117-11)	3/2/23	15:30 Eastern		Solid			X	X	1	
2023-SB-08-1012' (620-10117-12)	3/2/23	15:35 Eastern		Solid			X	X	1	
2023-SB-12-0002' (620-10117-13)	3/3/23	09:00 Eastern		Solid			X	X	1	
2023-SB-12-0204' (620-10117-14)	3/3/23	09:05 Eastern		Solid			X	X	1	
2023-SB-12-0406' (620-10117-15)	3/3/23	09:10 Eastern		Solid			X	X	1	
2023-SB-12-0608' (620-10117-16)	3/3/23	09:15 Eastern		Solid			X	X	1	
2023-SB-12-0810' (620-10117-17)	3/3/23	09:20 Eastern		Solid			X	X	1	
2023-SB-12-1012' (620-10117-18)	3/3/23	09:25 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/3/23 12:30	ENE	[signature]		
2				[signature]		
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-12-1012' (620-10117-18MS)	3/3/23	09:25 Eastern	MS	Solid			X	X	1	
2023-SB-12-1012' (620-10117-18MSD)	3/3/23	09:25 Eastern	MSD	Solid			X	X	1	
2023-SB-07-0002' (620-10117-19)	3/3/23	09:50 Eastern		Solid			X	X	1	
2023-SB-07-0204' (620-10117-20)	3/3/23	09:55 Eastern		Solid			X	X	1	
2023-SB-07-0406' (620-10117-21)	3/3/23	10:00 Eastern		Solid			X	X	1	
2023-SB-07-0608' (620-10117-22)	3/3/23	10:05 Eastern		Solid			X	X	1	
2023-SB-07-0810' (620-10117-23)	3/3/23	10:10 Eastern		Solid			X	X	1	
2023-SB-07-1012' (620-10117-24)	3/3/23	10:15 Eastern		Solid			X	X	1	
2023-MW-05-0002' (620-10117-25)	3/3/23	10:40 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	3/3/23 12:30	ENE	[signature]		
	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-05-0204' (620-10117-26)	3/3/23	10:45 Eastern		Solid			X	X	1	
2023-MW-05-0810' (620-10117-28)	3/3/23	10:55 Eastern		Solid			X	X	1	
2023-MW-05-0406' (620-10117-30)	3/3/23	11:05 Eastern		Solid			X	X	1	
2023-FD-06 (620-10117-31)	3/3/23	08:00 Eastern		Solid			X	X	1	
2023-FD-07 (620-10117-32)	3/3/23	08:05 Eastern		Solid			X	X	1	
2023-SB-06-0002' (620-10117-33)	3/3/23	11:35 Eastern		Solid			X	X	1	
2023-SB-06-0204' (620-10117-34)	3/3/23	11:40 Eastern		Solid			X	X	1	
2023-SB-06-0406' (620-10117-35)	3/3/23	11:45 Eastern		Solid			X	X	1	
2023-SB-06-0608' (620-10117-36)	3/3/23	11:50 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 12:30	EVE			
2	Relinquished by:	Date/Time:	Company	Received by: see pg	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-06-0810' (620-10117-37)	3/3/23	11:55 Eastern		Solid			X	X	1	
2023-SB-06-1012' (620-10117-38)	3/3/23	12:00 Eastern		Solid			X	X	1	
2023-SB-05-0002' (620-10117-41)	3/3/23	13:10 Eastern		Solid			X	X	1	
2023-SB-05-0204' (620-10117-42)	3/3/23	13:15 Eastern		Solid			X	X	1	
2023-SB-05-0406' (620-10117-43)	3/3/23	13:20 Eastern		Solid			X	X	1	
2023-SB-05-0406' (620-10117-43MS)	3/3/23	13:20 Eastern	MS	Solid			X	X	1	
2023-SB-05-0406' (620-10117-43MSD)	3/3/23	13:20 Eastern	MSD	Solid			X	X	1	
2023-SB-05-0608' (620-10117-44)	3/3/23	13:25 Eastern		Solid			X	X	1	
2023-SB-05-0810' (620-10117-45)	3/3/23	13:30 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/23/23 17:30	EWG	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			See pg 1		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8523.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-05-0608' (620-10117-27)	3/3/23	10:50 Eastern		Solid			X	X	1	
2023-MW-05-1012' (620-10117-29)	3/3/23	11:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 17:30	EAE			
2	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 3/23/2023 11:32:46 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10117-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

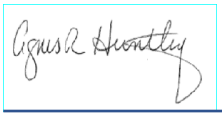
See page two for job notes and contact information.

Eurofins New England

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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(401)372-3482

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10117-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10117-1 through 620-10117-46

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/23/2023

Job ID: 620-10117-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10117-1

Receipt
The samples were received on 3/3/2023 4:09 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
Method 8260C: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 620-20198 and 620-20327 and analytical batch 620-20328 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 620-20198 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: tert-Butanol. (CCVIS 620-20361/3)

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20396 exhibited % difference of > 20% for the following analytes: Tert-butyl ethyl ether, Isopropyl ether, 2-Methyl-2-propanol, Naphthalene, Tetrahydrofuran, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, Tert-amyl methyl ether, 1,2,4-Trichlorobenzene, o-Xylene, cis-1,3-Dichloropropene, Methyl tert-butyl ether, 1,1-Dichloropropene, 4-Isopropyltoluene, and 1,2-Dibromo-3-Chloropropane; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20408 and analytical batch 620-20396 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20432 and analytical batch 620-20433 recovered outside control limits for the following analyte: Bromomethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20433 exhibited % difference of > 20% for the following analytes: tert-Butanol, Tert-butyl ethyl ether, and Naphthalene; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: Internal standard (ISTD) response for the following samples were outside control limits: 2023-SB-08-0810' (620-10117-11), 2023-SB-08-1012' (620-10117-12), 2023-SB-07-0406' (620-10117-21) and 2023-MW-05-0406' (620-10117-30). The samples were re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following samples: 2023-SB-08-0810' (620-10117-11), 2023-SB-08-1012' (620-10117-12) and 2023-SB-07-0406' (620-10117-21). The samples show evidence of matrix interference.

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: 2023-MW-05-0406' (620-10117-30). The sample shows evidence of matrix interference.

Method 8260C: Surrogate recovery for the following sample was outside the upper control limit: 2023-SB-08-1012' (620-10117-12). This

Job ID: 620-10117-1 (Continued)

Laboratory: Eurofins New England (Continued)

sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: Surrogate recovery for the following samples were outside the upper control limit: 2023-SB-08-1012' (620-10117-12) and 2023-SB-07-0406' (620-10117-21). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: 1,1,2-Trichloroethane.
(CCVIS 620-20473/3)

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-20472 and analytical batch 620-20473 recovered outside control limits for the following analytes: Chloroethane and Bromomethane, which has been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2023-SB-05-0002' (620-10117-41). The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20275 and 620-20472 and analytical batch 620-20473 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: 2023-SB-05-0002' (620-10117-41). The sample shows evidence of matrix interference.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 620-20518 recovered outside control limits but were greater than 10% for the following analytes: 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, and Dichlorodifluoromethane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The associated samples are: (LCS 620-20516/1-A) and (LCSD 620-20516/2-A).

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: Tert-butyl ethyl ether, Isopropyl ether, Methyl tert-butyl ether, 2-Methyl-2-propanol, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, and 1,4-Dichlorobenzene.
(CCVIS 620-20518/3)

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2023-SB-12-1012' (620-10117-18). The samples were re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following samples: 2023-SB-12-1012' (620-10117-18), 2023-SB-12-1012' (620-10117-18[MS]) and 2023-SB-12-1012' (620-10117-18[MSD]). The samples show evidence of matrix interference.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20275 and 620-20472 and analytical batch 620-20473 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20503/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long

Job ID: 620-10117-1 (Continued)

Laboratory: Eurofins New England (Continued)

as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 4,6-Dinitro-2-methylphenol, Benzidine, Benzoic acid and Pentachloronitrobenzene.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 2023-MW-06-0810' (620-10117-5). These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20475 and analytical batch 620-20495 were outside control limits, bias low for: Benzidine & Hexachlorocyclopentadiene. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The laboratory control sample duplicate(LCSD) for preparation batch 620-20475 and analytical batch 620-20495 recovered outside control limits for the following analyte: Benzoic acid. Benzoic acid has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The analyte recovered within acceptance limits in the LCS. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20546 and analytical batch 620-20556 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20556/7) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 4,6-Dinitro-2-methylphenol, Benzoic acid and Di-n-butyl phthalate.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 620-20556 was outside the method criteria for the following analyte: Benzoic Acid. This analyte recovered below acceptance criteria due to breakdown in the standard, however it recovered within range in the LCS and LCSD; therefore, demonstrating the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the problematic compound Benzidine in preparation batch 620-20520 and analytical batch 620-20556 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20590 recovered above the upper control limit for Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 620-20590/3).

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20626 recovered above the upper control limit for Aniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 620-20626/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-660655 and analytical batch 480-660658 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The method blank for preparation batch 480-660799 and analytical batch 480-660808 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The method blank for preparation batch 480-660942 and analytical batch 480-660951 contained Naphthalene above the

Job ID: 620-10117-1 (Continued)

Laboratory: Eurofins New England (Continued)

method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Methods 8082, 8082A: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following CCVs were outside acceptance limits (high biased) on the primary column: (CCV 620-20438/60). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

Method 8082: The matrix spike duplicate (MSD) precision for preparation batch 620-20414 and analytical batch 620-20434 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8082: The following samples required a dilution due to the nature of the sample matrix: 2023-SB-07-0406' (620-10117-21), 2023-FD-06 (620-10117-31), 2023-SB-06-0002' (620-10117-33) and 2023-SB-06-0204' (620-10117-34). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: 2023-SB-12-0002' (620-10117-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: 2023-MW-05-0002' (620-10117-25). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-SB-08-0204' (620-10117-8) and 2023-SB-06-1012' (620-10117-38). Elevated reporting limits (RLs) are provided.

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-06-0002' (620-10117-1), 2023-MW-06-0204' (620-10117-2), 2023-MW-06-0406' (620-10117-3), 2023-MW-06-0608' (620-10117-4), 2023-MW-06-0810' (620-10117-5), 2023-SB-08-0002' (620-10117-7), 2023-SB-08-0608' (620-10117-10), 2023-SB-08-0810' (620-10117-11), 2023-SB-12-0002' (620-10117-13), 2023-SB-12-0204' (620-10117-14), 2023-SB-12-0810' (620-10117-17), 2023-SB-12-1012' (620-10117-18), 2023-SB-07-0002' (620-10117-19), 2023-SB-07-0204' (620-10117-20), 2023-SB-07-0608' (620-10117-22), 2023-SB-07-0810' (620-10117-23), 2023-MW-05-0002' (620-10117-25), 2023-MW-05-0204' (620-10117-26), 2023-MW-05-0608' (620-10117-27), 2023-MW-05-0810' (620-10117-28), 2023-MW-05-0406' (620-10117-30), 2023-FD-06 (620-10117-31), 2023-FD-07 (620-10117-32), 2023-SB-06-0204' (620-10117-34), 2023-SB-06-0406' (620-10117-35), 2023-SB-06-0608' (620-10117-36), 2023-SB-06-0810' (620-10117-37), 2023-SB-05-0406' (620-10117-43), 2023-SB-05-0608' (620-10117-44), 2023-SB-05-0810' (620-10117-45) and 2023-SB-05-1012' (620-10117-46). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method 537 (modified): The recovery for the labeled isotope: M2-8:2 FTS in the following sample: 2023-SB-05-0002' (620-10117-41) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0002' — Lab Sample ID: 620-10117-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.0798	J	0.182	0.0463	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0459	J B	0.0646	0.0439	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.253		0.0218	0.0170	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.07	J	3.25	1.52	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.542	0.163	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.256	J	0.542	0.108	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.63		1.63	0.379	mg/Kg	1	☼	6010D	Total/NA
Lead	2.64		1.63	0.650	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.76		1.08	0.282	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.04		1.08	0.466	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.90		2.17	0.867	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0204' — Lab Sample ID: 620-10117-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.35		3.07	1.43	mg/Kg	1	☼	6010D	Total/NA
Barium	12.3		0.512	0.154	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.230	J	0.512	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.20		1.54	0.358	mg/Kg	1	☼	6010D	Total/NA
Lead	2.74		1.54	0.614	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.57		1.02	0.266	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.25		1.02	0.440	mg/Kg	1	☼	6010D	Total/NA
Zinc	6.55		2.05	0.819	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0406' — Lab Sample ID: 620-10117-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.47	J	2.80	1.31	mg/Kg	1	☼	6010D	Total/NA
Barium	11.9		0.466	0.140	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.206	J	0.466	0.0932	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.95		1.40	0.326	mg/Kg	1	☼	6010D	Total/NA
Lead	2.16		1.40	0.559	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.32		0.932	0.242	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.39		0.932	0.401	mg/Kg	1	☼	6010D	Total/NA
Zinc	5.24		1.86	0.746	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0608' — Lab Sample ID: 620-10117-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.33		2.47	1.15	mg/Kg	1	☼	6010D	Total/NA
Barium	18.2		0.412	0.124	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.288	J	0.412	0.0824	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.75		1.24	0.288	mg/Kg	1	☼	6010D	Total/NA
Lead	2.43		1.24	0.494	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.824	0.214	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.14		0.824	0.354	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.2		1.65	0.659	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0810' — Lab Sample ID: 620-10117-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.58		2.71	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	44.5		0.451	0.135	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-06-0810' (Continued) Lab Sample ID: 620-10117-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.585		0.451	0.0903	mg/Kg	1	☼	6010D	Total/NA
Chromium	11.4		1.35	0.316	mg/Kg	1	☼	6010D	Total/NA
Lead	4.75		1.35	0.542	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.39		0.903	0.235	mg/Kg	1	☼	6010D	Total/NA
Vanadium	19.6		0.903	0.388	mg/Kg	1	☼	6010D	Total/NA
Zinc	24.2		1.81	0.722	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-1012' Lab Sample ID: 620-10117-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.72	J	3.49	1.63	mg/Kg	1	☼	6010D	Total/NA
Barium	17.7		0.582	0.175	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.312	J	0.582	0.116	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.69		1.75	0.408	mg/Kg	1	☼	6010D	Total/NA
Lead	2.11		1.75	0.699	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.43		1.16	0.303	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.44		1.16	0.501	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.76		2.33	0.932	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0002' Lab Sample ID: 620-10117-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.102		0.0724	0.0407	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.104		0.0724	0.0518	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.114		0.0724	0.0600	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.0902		0.0724	0.0565	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.0936		0.0724	0.0563	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.170		0.0724	0.0409	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.240		0.0724	0.0424	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.0830		0.0724	0.0614	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.125		0.0724	0.0410	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.236		0.0724	0.0399	mg/Kg	1	☼	8270D	Total/NA
Antimony	5.26		4.72	1.60	mg/Kg	1	☼	6010D	Total/NA
Arsenic	15.2		2.83	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	193		4.72	1.41	mg/Kg	10	☼	6010D	Total/NA
Beryllium	0.904		0.472	0.0943	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.132	J	0.472	0.0943	mg/Kg	1	☼	6010D	Total/NA
Chromium	15.7		1.41	0.330	mg/Kg	1	☼	6010D	Total/NA
Lead	36.7		1.41	0.566	mg/Kg	1	☼	6010D	Total/NA
Nickel	36.5		0.943	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	33.2		0.943	0.406	mg/Kg	1	☼	6010D	Total/NA
Zinc	149		1.89	0.755	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.57		2.52	1.18	mg/Kg	1	☼	6010D	Total/NA
Barium	17.0		0.420	0.126	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.250	J	0.420	0.0841	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.87		1.26	0.294	mg/Kg	1	☼	6010D	Total/NA
Lead	2.56		1.26	0.505	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.40		0.841	0.219	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-08-0204' (Continued) — Lab Sample ID: 620-10117-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	9.21		0.841	0.362	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.8	^5-	1.68	0.673	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0406' — Lab Sample ID: 620-10117-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0161	J B	0.0441	0.00989	mg/Kg	1	☼	8260C	Total/NA
Arsenic	2.03	J	2.79	1.30	mg/Kg	1	☼	6010D	Total/NA
Barium	12.7		0.464	0.139	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.202	J	0.464	0.0928	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.87		1.39	0.325	mg/Kg	1	☼	6010D	Total/NA
Lead	1.67		1.39	0.557	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.54		0.928	0.241	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.25		0.928	0.399	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.63		1.86	0.743	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0608' — Lab Sample ID: 620-10117-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.29		2.67	1.25	mg/Kg	1	☼	6010D	Total/NA
Barium	42.7		0.445	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.731		0.445	0.0890	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.3		1.34	0.312	mg/Kg	1	☼	6010D	Total/NA
Lead	4.75		1.34	0.534	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.74		0.890	0.231	mg/Kg	1	☼	6010D	Total/NA
Vanadium	23.0		0.890	0.383	mg/Kg	1	☼	6010D	Total/NA
Zinc	24.2		1.78	0.712	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0810' — Lab Sample ID: 620-10117-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00353	J B *3	0.0102	0.00273	mg/Kg	1	☼	8260C	Total/NA
Arsenic	5.85		2.89	1.35	mg/Kg	1	☼	6010D	Total/NA
Barium	31.0		0.482	0.145	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.425	J	0.482	0.0963	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.87		1.45	0.337	mg/Kg	1	☼	6010D	Total/NA
Lead	4.39		1.45	0.578	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.74		0.963	0.250	mg/Kg	1	☼	6010D	Total/NA
Vanadium	11.1		0.963	0.414	mg/Kg	1	☼	6010D	Total/NA
Zinc	16.0		1.93	0.771	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-1012' — Lab Sample ID: 620-10117-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0276		0.0232	0.0180	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.04		2.96	1.38	mg/Kg	1	☼	6010D	Total/NA
Barium	22.6		0.493	0.148	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.332	J	0.493	0.0987	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.0		1.48	0.345	mg/Kg	1	☼	6010D	Total/NA
Lead	2.33		1.48	0.592	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.10		0.987	0.257	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.79		0.987	0.424	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.4		1.97	0.790	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'

Lab Sample ID: 620-10117-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.139	J	0.160	0.105	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.130	J	0.160	0.0925	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.276		0.160	0.0899	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.579	*3	0.160	0.114	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.93	*3	0.160	0.133	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.01	*3	0.160	0.125	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.31	*3	0.160	0.124	mg/Kg	1	☼	8270D	Total/NA
Benzoic acid	2.67	*- *1	0.791	0.544	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	60.2		4.00	1.02	mg/Kg	10	☼	8270D	Total/NA
Butyl benzyl phthalate	6.11	J	7.91	0.793	mg/Kg	10	☼	8270D	Total/NA
Chrysene	0.585		0.160	0.0904	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.300	*3	0.160	0.122	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	27.1		7.91	0.846	mg/Kg	10	☼	8270D	Total/NA
Fluoranthene	1.57		0.160	0.0937	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.858	*3	0.160	0.136	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.20		0.160	0.0906	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.47		0.160	0.0882	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	11.5		0.293	0.150	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	4.20		0.293	0.125	mg/Kg	1		MA VPH SUM	Total/NA
Ethylbenzene	0.0346	J	0.0585	0.0117	mg/Kg	1	☼	MAVPH	Total/NA
m,p-Xylene	0.0605	J	0.117	0.0117	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	11.5		0.293	0.150	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	1.57		0.293	0.0410	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	5.87		0.293	0.125	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	362		11.9	9.27	mg/Kg	500	☼	8082	Total/NA
Arsenic	4.67		3.11	1.45	mg/Kg	1	☼	6010D	Total/NA
Barium	66.5		0.519	0.156	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.547		0.519	0.104	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.80		1.56	0.363	mg/Kg	1	☼	6010D	Total/NA
Lead	26.9		1.56	0.623	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.04		1.04	0.270	mg/Kg	1	☼	6010D	Total/NA
Vanadium	15.4		1.04	0.446	mg/Kg	1	☼	6010D	Total/NA
Zinc	161		2.08	0.830	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0512	J	0.0700	0.0233	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-12-0204'

Lab Sample ID: 620-10117-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0905		0.0229	0.0178	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.40	J	2.41	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	12.0		0.401	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.363	J	0.401	0.0802	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.44		1.20	0.281	mg/Kg	1	☼	6010D	Total/NA
Lead	2.99		1.20	0.481	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.96		0.802	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.10		0.802	0.345	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.8		1.60	0.642	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-0406'

Lab Sample ID: 620-10117-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.172		0.0223	0.0174	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client Sample ID: 2023-SB-12-0406' (Continued)
Lab Sample ID: 620-10117-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.59	J	2.93	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	10.0		0.488	0.146	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.248	J	0.488	0.0976	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.85		1.46	0.342	mg/Kg	1	☼	6010D	Total/NA
Lead	1.93		1.46	0.586	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.976	0.254	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.90		0.976	0.420	mg/Kg	1	☼	6010D	Total/NA
Zinc	28.3		1.95	0.781	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-0608'
Lab Sample ID: 620-10117-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0316	J B	0.0446	0.0304	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	2.02	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	12.8		0.400	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.209	J	0.400	0.0801	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.76		1.20	0.280	mg/Kg	1	☼	6010D	Total/NA
Lead	2.05		1.20	0.481	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.15		0.801	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.76		0.801	0.344	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.2		1.60	0.641	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-0810'
Lab Sample ID: 620-10117-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.90		3.59	1.67	mg/Kg	1	☼	6010D	Total/NA
Barium	80.1	F1	0.598	0.179	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.17		0.598	0.120	mg/Kg	1	☼	6010D	Total/NA
Chromium	21.4		1.79	0.418	mg/Kg	1	☼	6010D	Total/NA
Lead	7.35	F1	1.79	0.717	mg/Kg	1	☼	6010D	Total/NA
Nickel	10.9		1.20	0.311	mg/Kg	1	☼	6010D	Total/NA
Vanadium	34.9		1.20	0.514	mg/Kg	1	☼	6010D	Total/NA
Zinc	47.7		2.39	0.956	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-1012'
Lab Sample ID: 620-10117-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0583	J B	0.0804	0.0546	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0274		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.17	F2	2.58	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	17.6	F1	0.431	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.348	J	0.431	0.0861	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.59		1.29	0.301	mg/Kg	1	☼	6010D	Total/NA
Lead	2.85	F1	1.29	0.517	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.47		0.861	0.224	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.07	F1	0.861	0.370	mg/Kg	1	☼	6010D	Total/NA
Zinc	28.0		1.72	0.689	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0002'
Lab Sample ID: 620-10117-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzidine	0.303	J	0.702	0.104	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	7.11		0.889	0.226	mg/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-07-0002' (Continued) Lab Sample ID: 620-10117-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl benzyl phthalate	0.159	J	0.351	0.0352	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	2.84		0.109	0.0848	mg/Kg	5	☼	8082	Total/NA
Arsenic	4.20		3.26	1.52	mg/Kg	1	☼	6010D	Total/NA
Barium	33.1		0.543	0.163	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.332	J	0.543	0.109	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.47		1.63	0.380	mg/Kg	1	☼	6010D	Total/NA
Lead	6.36		1.63	0.651	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.22		1.09	0.282	mg/Kg	1	☼	6010D	Total/NA
Vanadium	14.0		1.09	0.467	mg/Kg	1	☼	6010D	Total/NA
Zinc	23.2		2.17	0.868	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0204' Lab Sample ID: 620-10117-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0585	J	0.0750	0.0434	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0753		0.0750	0.0421	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0652	J	0.0750	0.0536	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0758		0.0750	0.0621	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.0748	J	0.0750	0.0583	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.135	J	0.188	0.0478	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.438		0.371	0.0372	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0790		0.0750	0.0424	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.167		0.0750	0.0439	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.159		0.0750	0.0425	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.154		0.0750	0.0414	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	1.05		0.0231	0.0180	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.03	J	3.35	1.57	mg/Kg	1	☼	6010D	Total/NA
Barium	26.3		0.559	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.238	J	0.559	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.92		1.68	0.391	mg/Kg	1	☼	6010D	Total/NA
Lead	3.02		1.68	0.671	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.83		1.12	0.291	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.74		1.12	0.481	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.66		2.24	0.894	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0218	J B *3	0.0444	0.00995	mg/Kg	1	☼	8260C	Total/NA
Acetone - RA	0.0196	J *3 B	0.0450	0.0101	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RA	0.00260	J *3 B	0.00901	0.00241	mg/Kg	1	☼	8260C	Total/NA
Bis(2-ethylhexyl) phthalate	11.3		1.84	0.469	mg/Kg	10	☼	8270D	Total/NA
Butyl benzyl phthalate	2.73		0.364	0.0365	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.356	J	0.364	0.0389	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0349	J B	0.0457	0.0311	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	16.2		0.468	0.364	mg/Kg	20	☼	8082	Total/NA
Arsenic	2.89	J	3.29	1.54	mg/Kg	1	☼	6010D	Total/NA
Barium	31.4		0.549	0.165	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.290	J	0.549	0.110	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.44		1.65	0.384	mg/Kg	1	☼	6010D	Total/NA
Lead	4.51		1.65	0.659	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.47		1.10	0.285	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-07-0406' (Continued)
Lab Sample ID: 620-10117-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	9.11		1.10	0.472	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.4		2.20	0.878	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0608'
Lab Sample ID: 620-10117-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.321		0.184	0.0469	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.285	J	0.364	0.0365	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	1.11		0.0460	0.0358	mg/Kg	2	☼	8082	Total/NA
Arsenic	1.86	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	30.1		0.401	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.265	J	0.401	0.0802	mg/Kg	1	☼	6010D	Total/NA
Chromium	11.4		1.20	0.281	mg/Kg	1	☼	6010D	Total/NA
Lead	3.25		1.20	0.481	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.43		0.802	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.57		0.802	0.345	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.2		1.60	0.641	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0810'
Lab Sample ID: 620-10117-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0253		0.0237	0.0184	mg/Kg	1	☼	8082	Total/NA
Barium	20.6		0.559	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.222	J	0.559	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.58		1.68	0.391	mg/Kg	1	☼	6010D	Total/NA
Lead	2.22		1.68	0.670	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.63		1.12	0.290	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.87		1.12	0.480	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.1		2.23	0.894	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-1012'
Lab Sample ID: 620-10117-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0595		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Barium	19.4		0.484	0.145	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.215	J	0.484	0.0968	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.33		1.45	0.339	mg/Kg	1	☼	6010D	Total/NA
Lead	2.25		1.45	0.581	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.86		0.968	0.252	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.34		0.968	0.416	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.55		1.94	0.774	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-0002'
Lab Sample ID: 620-10117-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.833		0.367	0.0965	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0819		0.0741	0.0417	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.104		0.0741	0.0530	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.119		0.0741	0.0615	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.111		0.0741	0.0579	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.102		0.0741	0.0577	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	10.7		0.742	0.189	mg/Kg	4	☼	8270D	Total/NA
Butyl benzyl phthalate	1.05		0.367	0.0368	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-05-0002' (Continued) Lab Sample ID: 620-10117-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.131		0.0741	0.0419	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	2.06		0.367	0.0392	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.237		0.0741	0.0435	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.0954		0.0741	0.0629	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.114		0.0741	0.0420	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.219		0.0741	0.0409	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.190	J	0.302	0.155	mg/Kg	1		MA VPH SUM	Total/NA
Toluene	0.0292	J	0.0604	0.0121	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	0.219	J	0.302	0.155	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	26.3		1.17	0.909	mg/Kg	50	☼	8082	Total/NA
PCB-1260	3.59		1.17	0.251	mg/Kg	50	☼	8082	Total/NA
Antimony	8.25		5.18	1.76	mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.48		3.11	1.45	mg/Kg	1	☼	6010D	Total/NA
Barium	3780		5.18	1.55	mg/Kg	10	☼	6010D	Total/NA
Beryllium	0.642		0.518	0.104	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.08		0.518	0.104	mg/Kg	1	☼	6010D	Total/NA
Chromium	27.1		1.55	0.363	mg/Kg	1	☼	6010D	Total/NA
Lead	676		1.55	0.622	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.71		1.04	0.269	mg/Kg	1	☼	6010D	Total/NA
Vanadium	14.0		1.04	0.446	mg/Kg	1	☼	6010D	Total/NA
Zinc	1970		20.7	8.29	mg/Kg	10	☼	6010D	Total/NA
Mercury	0.0307	J	0.0680	0.0227	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-05-0204' Lab Sample ID: 620-10117-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.123		0.0763	0.0429	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.125		0.0763	0.0546	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.145		0.0763	0.0633	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.133		0.0763	0.0596	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.165		0.0763	0.0594	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.972		0.191	0.0486	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.219		0.0763	0.0431	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	3.19		0.378	0.0404	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.342		0.0763	0.0447	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.112		0.0763	0.0648	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.249		0.0763	0.0433	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.387		0.0763	0.0421	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.142	J	0.263	0.135	mg/Kg	1		MA VPH SUM	Total/NA
C5-C8 Aliphatics (unadjusted)	0.142	J	0.263	0.135	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	1.08		0.0446	0.0347	mg/Kg	2	☼	8082	Total/NA
Antimony	3.08	J	4.77	1.62	mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.18		2.86	1.34	mg/Kg	1	☼	6010D	Total/NA
Barium	531		4.77	1.43	mg/Kg	10	☼	6010D	Total/NA
Beryllium	0.621		0.477	0.0954	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.216	J	0.477	0.0954	mg/Kg	1	☼	6010D	Total/NA
Chromium	10.3		1.43	0.334	mg/Kg	1	☼	6010D	Total/NA
Lead	76.1		1.43	0.572	mg/Kg	1	☼	6010D	Total/NA
Nickel	10.3		0.954	0.248	mg/Kg	1	☼	6010D	Total/NA
Vanadium	11.9		0.954	0.410	mg/Kg	1	☼	6010D	Total/NA
Zinc	302	^5-	1.91	0.763	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-05-0204' (Continued)
Lab Sample ID: 620-10117-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0264	J	0.0687	0.0229	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-05-0608'
Lab Sample ID: 620-10117-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0338		0.0221	0.0172	mg/Kg	1	☼	8082	Total/NA
Barium	13.5		0.533	0.160	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.216	J	0.533	0.107	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.38		1.60	0.373	mg/Kg	1	☼	6010D	Total/NA
Lead	3.86		1.60	0.640	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.76		1.07	0.277	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.65		1.07	0.459	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.78		2.13	0.853	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-0810'
Lab Sample ID: 620-10117-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	22.1		0.429	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.208	J	0.429	0.0858	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.10		1.29	0.300	mg/Kg	1	☼	6010D	Total/NA
Lead	2.54		1.29	0.515	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.94		0.858	0.223	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.26		0.858	0.369	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.8		1.72	0.686	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-1012'
Lab Sample ID: 620-10117-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.00841	J	0.00867	0.00304	mg/Kg	1	☼	8260C	Total/NA
Barium	9.86		0.546	0.164	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.155	J	0.546	0.109	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.38		1.64	0.382	mg/Kg	1	☼	6010D	Total/NA
Lead	2.12		1.64	0.655	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.02		1.09	0.284	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.16		1.09	0.470	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.25		2.18	0.874	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-0406'
Lab Sample ID: 620-10117-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0193	J B	0.0506	0.0113	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.0712		0.0246	0.0192	mg/Kg	1	☼	8082	Total/NA
Barium	15.5		0.559	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.378	J	0.559	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.99		1.68	0.391	mg/Kg	1	☼	6010D	Total/NA
Lead	5.35		1.68	0.671	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.60		1.12	0.291	mg/Kg	1	☼	6010D	Total/NA
Vanadium	3.83		1.12	0.481	mg/Kg	1	☼	6010D	Total/NA
Zinc	5.43		2.24	0.894	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-06 — Lab Sample ID: 620-10117-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	0.524		0.368	0.253	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	4.31		0.744	0.189	mg/Kg	4	☼	8270D	Total/NA
Butyl benzyl phthalate	2.25		0.368	0.0369	mg/Kg	1	☼	8270D	Total/NA
C9-C12 Aliphatics (adjusted)	0.357		0.331	0.142	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	0.0980	B	0.0661	0.0450	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.149	J	0.331	0.0463	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.506		0.331	0.142	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	14.5		0.455	0.354	mg/Kg	20	☼	8082	Total/NA
Arsenic	2.06	J	2.98	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	26.7		0.497	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.256	J	0.497	0.0994	mg/Kg	1	☼	6010D	Total/NA
Chromium	10.6		1.49	0.348	mg/Kg	1	☼	6010D	Total/NA
Lead	5.21		1.49	0.596	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.08		0.994	0.258	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.49		0.994	0.427	mg/Kg	1	☼	6010D	Total/NA
Zinc	18.4		1.99	0.795	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-07 — Lab Sample ID: 620-10117-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.225		0.0232	0.0181	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.66	J	2.45	1.15	mg/Kg	1	☼	6010D	Total/NA
Barium	20.6		0.409	0.123	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.280	J	0.409	0.0818	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.28		1.23	0.286	mg/Kg	1	☼	6010D	Total/NA
Lead	2.90		1.23	0.491	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.93		0.818	0.213	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.14		0.818	0.352	mg/Kg	1	☼	6010D	Total/NA
Zinc	64.0		1.64	0.654	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0002' — Lab Sample ID: 620-10117-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	5.78		0.380	0.0966	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.967		0.750	0.0752	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.587	J	0.750	0.0802	mg/Kg	1	☼	8270D	Total/NA
C9-C10 Aromatics	0.0587	J	0.297	0.0416	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.176	J	0.297	0.127	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	23.5		1.14	0.886	mg/Kg	50	☼	8082	Total/NA
Arsenic	1.78	J	3.44	1.60	mg/Kg	1	☼	6010D	Total/NA
Barium	130		0.573	0.172	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.177	J	0.573	0.115	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.35		1.72	0.401	mg/Kg	1	☼	6010D	Total/NA
Lead	13.4		1.72	0.687	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.16		1.15	0.298	mg/Kg	1	☼	6010D	Total/NA
Vanadium	3.76		1.15	0.493	mg/Kg	1	☼	6010D	Total/NA
Zinc	85.7		2.29	0.917	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0204' — Lab Sample ID: 620-10117-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	11.6		1.96	0.499	mg/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-06-0204' (Continued) — Lab Sample ID: 620-10117-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl benzyl phthalate	1.99		0.387	0.0388	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.717		0.387	0.0414	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	34.8		1.17	0.912	mg/Kg	50	☼	8082	Total/NA
Arsenic	1.90	J	3.29	1.54	mg/Kg	1	☼	6010D	Total/NA
Barium	225		0.548	0.165	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.255	J	0.548	0.110	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.27		1.65	0.384	mg/Kg	1	☼	6010D	Total/NA
Lead	27.8		1.65	0.658	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.94		1.10	0.285	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.47		1.10	0.472	mg/Kg	1	☼	6010D	Total/NA
Zinc	125		2.19	0.878	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0406' — Lab Sample ID: 620-10117-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.115		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.60	J	2.36	1.10	mg/Kg	1	☼	6010D	Total/NA
Barium	23.5		0.393	0.118	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.325	J	0.393	0.0787	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.63		1.18	0.275	mg/Kg	1	☼	6010D	Total/NA
Lead	2.90		1.18	0.472	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.33		0.787	0.205	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.2		0.787	0.338	mg/Kg	1	☼	6010D	Total/NA
Zinc	58.8		1.57	0.629	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0608' — Lab Sample ID: 620-10117-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0373	J B	0.0519	0.0353	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.296		0.0225	0.0175	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.80	J	2.81	1.31	mg/Kg	1	☼	6010D	Total/NA
Barium	24.6		0.468	0.140	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.253	J	0.468	0.0935	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.12		1.40	0.327	mg/Kg	1	☼	6010D	Total/NA
Lead	2.87		1.40	0.561	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.85		0.935	0.243	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.94		0.935	0.402	mg/Kg	1	☼	6010D	Total/NA
Zinc	61.5		1.87	0.748	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0810' — Lab Sample ID: 620-10117-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.422	J	0.670	0.223	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	2.29	J	3.19	1.49	mg/Kg	1	☼	6010D	Total/NA
Barium	21.9		0.532	0.160	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.285	J	0.532	0.106	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.90		1.60	0.373	mg/Kg	1	☼	6010D	Total/NA
Lead	3.46		1.60	0.639	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.16		1.06	0.277	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.08		1.06	0.458	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.6		2.13	0.852	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-1012'

Lab Sample ID: 620-10117-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0202	J	0.0218	0.0170	mg/Kg	1	☼	8082	Total/NA
Perfluorohexanoic acid	0.491	J	0.662	0.221	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	1.99	J	2.58	1.20	mg/Kg	1	☼	6010D	Total/NA
Barium	18.2		0.430	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.229	J	0.430	0.0860	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.14		1.29	0.301	mg/Kg	1	☼	6010D	Total/NA
Lead	2.69		1.29	0.516	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.33		0.860	0.224	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.56		0.860	0.370	mg/Kg	1	☼	6010D	Total/NA
Zinc	38.9	^5-	1.72	0.688	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank -05

Lab Sample ID: 620-10117-39

No Detections.

Client Sample ID: Trip Blank -06

Lab Sample ID: 620-10117-40

No Detections.

Client Sample ID: 2023-SB-05-0002'

Lab Sample ID: 620-10117-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0579	J	0.0738	0.0484	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0468	J	0.0738	0.0427	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.122		0.0738	0.0415	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.157		0.0738	0.0527	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.185		0.0738	0.0611	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.152		0.0738	0.0576	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.159		0.0738	0.0574	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.418		0.185	0.0470	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.184		0.0738	0.0417	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0575	J	0.0738	0.0563	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	3.07		0.365	0.0390	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.263		0.0738	0.0432	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.135		0.0738	0.0626	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.124		0.0738	0.0418	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.299		0.0738	0.0407	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.217	J	0.256	0.131	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	0.418		0.256	0.110	mg/Kg	1		MA VPH SUM	Total/NA
C5-C8 Aliphatics (unadjusted)	0.217	J	0.256	0.131	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.180	J	0.256	0.0358	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.598		0.256	0.110	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	1.99		0.110	0.0858	mg/Kg	5	☼	8082	Total/NA
Arsenic	2.32	J	3.10	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	57.0		0.516	0.155	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.267	J	0.516	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.50		1.55	0.361	mg/Kg	1	☼	6010D	Total/NA
Lead	26.8		1.55	0.619	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.30		1.03	0.268	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.90		1.03	0.444	mg/Kg	1	☼	6010D	Total/NA
Zinc	81.0		2.06	0.825	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0411	J	0.0633	0.0211	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204' — Lab Sample ID: 620-10117-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0778	J	0.101	0.0590	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0678	J	0.101	0.0555	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0572	J B	0.0759	0.0516	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	3.22	J	4.43	2.07	mg/Kg	1	☼	6010D	Total/NA
Barium	45.7		0.738	0.221	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.691	J	0.738	0.148	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.85		2.21	0.517	mg/Kg	1	☼	6010D	Total/NA
Lead	23.3		2.21	0.886	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.20		1.48	0.384	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.5		1.48	0.635	mg/Kg	1	☼	6010D	Total/NA
Zinc	140		2.95	1.18	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0464	J	0.0850	0.0283	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-05-0406' — Lab Sample ID: 620-10117-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	1.35	F1	0.389	0.267	mg/Kg	1	☼	8270D	Total/NA
Pentachlorophenol	0.327	J B	0.389	0.159	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0380	J B	0.0526	0.0357	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0557		0.0232	0.0180	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.43	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	26.3	F2	0.399	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.285	J	0.399	0.0799	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.42		1.20	0.280	mg/Kg	1	☼	6010D	Total/NA
Lead	4.16		1.20	0.479	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.81		0.799	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.68		0.799	0.343	mg/Kg	1	☼	6010D	Total/NA
Zinc	44.1		1.60	0.639	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-05-0608' — Lab Sample ID: 620-10117-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0179	J B	0.0540	0.0121	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.00665	J B	0.0108	0.00289	mg/Kg	1	☼	8260C	Total/NA
Barium	27.4		0.509	0.153	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.243	J	0.509	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.65		1.53	0.356	mg/Kg	1	☼	6010D	Total/NA
Lead	2.90		1.53	0.611	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.58		1.02	0.265	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.57		1.02	0.438	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.2		2.04	0.815	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-05-0810' — Lab Sample ID: 620-10117-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.54	J	2.38	1.11	mg/Kg	1	☼	6010D	Total/NA
Barium	33.6		0.396	0.119	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.276	J	0.396	0.0793	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.74		1.19	0.277	mg/Kg	1	☼	6010D	Total/NA
Lead	2.77		1.19	0.476	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.37		0.793	0.206	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.82		0.793	0.341	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-05-0810' (Continued)
Lab Sample ID: 620-10117-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	17.1		1.59	0.634	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-05-1012'
Lab Sample ID: 620-10117-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.111	J	0.198	0.0503	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0354		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.85	J	2.76	1.29	mg/Kg	1	☼	6010D	Total/NA
Barium	19.4		0.460	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.235	J	0.460	0.0920	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.84		1.38	0.322	mg/Kg	1	☼	6010D	Total/NA
Lead	2.97		1.38	0.552	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.84		0.920	0.239	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.78		0.920	0.395	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.0		1.84	0.736	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0002'
Date Collected: 03/02/23 14:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-1
Matrix: Solid
Percent Solids: 90.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00527	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Acetone	ND		0.0527	0.0118	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Acrylonitrile	ND		0.00527	0.00316	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Benzene	ND		0.00527	0.00352	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromobenzene	ND		0.00527	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromochloromethane	ND		0.00527	0.00299	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromodichloromethane	ND		0.00527	0.00387	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromoform	ND		0.00527	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromomethane	ND		0.0105	0.00657	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2-Butanone (MEK)	ND		0.0105	0.00420	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
n-Butylbenzene	ND		0.0105	0.00565	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
sec-Butylbenzene	ND		0.00527	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
tert-Butylbenzene	ND		0.00527	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Carbon disulfide	ND		0.0105	0.00370	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Carbon tetrachloride	ND		0.00527	0.00332	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chlorobenzene	ND		0.00527	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chloroethane	ND		0.0105	0.00387	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chloroform	ND		0.00527	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chloromethane	ND		0.0105	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2-Chlorotoluene	ND		0.00527	0.00420	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
4-Chlorotoluene	ND		0.00527	0.00458	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00447	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Dibromochloromethane	ND		0.00527	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dibromoethane (EDB)	ND		0.00527	0.00379	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Dibromomethane	ND		0.00527	0.00310	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dichlorobenzene	ND		0.00527	0.00489	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3-Dichlorobenzene	ND		0.00527	0.00423	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,4-Dichlorobenzene	ND		0.00527	0.00500	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00283	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1-Dichloroethane	ND		0.00527	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dichloroethane	ND		0.00527	0.00355	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1-Dichloroethene	ND		0.00527	0.00323	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
cis-1,2-Dichloroethene	ND		0.00527	0.00305	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
trans-1,2-Dichloroethene	ND		0.00527	0.00328	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dichloropropane	ND		0.00527	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3-Dichloropropane	ND		0.00527	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2,2-Dichloropropane	ND		0.00527	0.00364	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1-Dichloropropene	ND		0.00527	0.00359	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
cis-1,3-Dichloropropene	ND		0.00527	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
trans-1,3-Dichloropropene	ND		0.00527	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethylbenzene	ND		0.00527	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Hexachlorobutadiene	ND		0.0105	0.00530	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2-Hexanone (MBK)	ND		0.0105	0.00310	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Isopropylbenzene	ND		0.00527	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
4-Isopropyltoluene	ND		0.00527	0.00518	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Methyl tert-butyl ether	ND		0.00527	0.00304	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Methylene Chloride	ND		0.0105	0.00283	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Naphthalene	ND		0.00527	0.00477	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00527	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Styrene	ND		0.00527	0.00408	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,1,2-Tetrachloroethane	ND		0.00527	0.00395	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,2,2-Tetrachloroethane	ND		0.00527	0.00483	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Tetrachloroethene	ND		0.00527	0.00293	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Toluene	ND		0.00527	0.00334	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,3-Trichlorobenzene	ND		0.00527	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,4-Trichlorobenzene	ND		0.00527	0.00486	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3,5-Trichlorobenzene	ND		0.00527	0.00501	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,1-Trichloroethane	ND		0.00527	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,2-Trichloroethane	ND		0.00527	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Trichloroethene	ND		0.00527	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Trichlorofluoromethane (Freon 11)	ND		0.00527	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,3-Trichloropropane	ND		0.00527	0.00468	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,4-Trimethylbenzene	ND		0.00527	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3,5-Trimethylbenzene	ND		0.00527	0.00448	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Vinyl chloride	ND		0.00527	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
m,p-Xylene	ND		0.00527	0.00720	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
o-Xylene	ND		0.00527	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Tetrahydrofuran	ND		0.0105	0.00267	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethyl ether	ND		0.00527	0.00277	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Tert-amyl methyl ether	ND		0.00527	0.00417	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethyl tert-butyl ether	ND		0.00527	0.00347	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
di-Isopropyl ether	ND		0.00527	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
tert-Butanol	ND		0.105	0.0283	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,4-Dioxane	ND		0.105	0.0328	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethanol	ND		1.05	0.0654	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3-Dichloropropene, Total	ND		0.00527	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Xylenes, Total	ND		0.0158	0.00527	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.359	0.0639	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,2,4-Trichlorobenzene	ND		0.359	0.0823	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,2-Dichlorobenzene	ND		0.359	0.0693	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,3-Dichlorobenzene	ND		0.359	0.0870	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,4-Dichlorobenzene	ND		0.359	0.0846	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1-Methylnaphthalene	ND		0.0727	0.0610	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4,5-Trichlorophenol	ND		0.359	0.0412	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4,6-Trichlorophenol	ND		0.182	0.0444	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4-Dichlorophenol	ND		0.182	0.0724	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4-Dimethylphenol	ND		0.359	0.0527	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4-Dinitrophenol	ND		0.359	0.0945	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.182	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,6-Dinitrotoluene	ND		0.182	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Chloronaphthalene	ND		0.359	0.0831	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Chlorophenol	ND		0.182	0.0744	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Methylnaphthalene	ND		0.0727	0.0537	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Methylphenol	ND		0.359	0.0525	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Nitroaniline	ND		0.359	0.0342	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Nitrophenol	ND		0.182	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
3 & 4 Methylphenol	ND		0.359	0.0681	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
3,3'-Dichlorobenzidine	ND		0.359	0.0594	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
3-Nitroaniline	ND		0.359	0.0321	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4,6-Dinitro-2-methylphenol	ND		0.359	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Bromophenyl phenyl ether	ND		0.359	0.0406	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Chloro-3-methylphenol	ND		0.359	0.0704	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Chloroaniline	ND		0.182	0.0276	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Chlorophenyl phenyl ether	ND		0.359	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Nitroaniline	ND		0.182	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Nitrophenol	ND		0.359	0.125	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Acenaphthene	ND		0.0727	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Acenaphthylene	ND		0.0727	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Acetophenone	ND		0.182	0.0443	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Aniline	ND		0.359	0.0276	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Anthracene	ND		0.0727	0.0420	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Azobenzene/Diphenyldiazene	ND		0.359	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzidine	ND		0.719	0.106	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[a]anthracene	ND		0.0727	0.0408	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[a]pyrene	ND		0.0727	0.0520	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[b]fluoranthene	ND		0.0727	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[g,h,i]perylene	ND		0.0727	0.0568	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[k]fluoranthene	ND		0.0727	0.0565	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzoic acid	ND	*- *1	0.359	0.247	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzyl alcohol	ND		0.359	0.0651	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Bis(2-chloroethoxy)methane	ND		0.359	0.0625	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Bis(2-chloroethyl)ether	ND		0.182	0.0595	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
bis (2-chloroisopropyl) ether	ND		0.182	0.0809	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Bis(2-ethylhexyl) phthalate	**0.0798**	**J**	0.182	0.0463	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Butyl benzyl phthalate	ND		0.359	0.0361	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Carbazole	ND		0.182	0.0476	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Chrysene	ND		0.0727	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Dibenz(a,h)anthracene	ND		0.0727	0.0554	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Dibenzofuran	ND		0.182	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Diethyl phthalate	ND		0.359	0.0394	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Dimethyl phthalate	ND		0.359	0.0468	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Di-n-butyl phthalate	ND		0.359	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Di-n-octyl phthalate	ND		0.359	0.0594	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Fluoranthene	ND		0.0727	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Fluorene	ND		0.0727	0.0663	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Hexachlorobenzene	ND		0.182	0.0504	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Hexachlorobutadiene	ND		0.182	0.0907	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.182	0.0695	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Hexachloroethane	ND		0.182	0.0715	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0727	0.0617	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Isophorone	ND		0.182	0.0498	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Naphthalene	ND		0.0727	0.0697	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Nitrobenzene	ND		0.182	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
N-Nitrosodimethylamine	ND		0.182	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
N-Nitrosodi-n-propylamine	ND		0.182	0.0724	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
N-Nitrosodiphenylamine	ND		0.359	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pentachloronitrobenzene	ND		0.359	0.0568	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pentachlorophenol	ND		0.359	0.147	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Phenanthrene	ND		0.0727	0.0412	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Phenol	ND		0.359	0.0741	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pyrene	ND		0.0727	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pyridine	ND		0.359	0.0851	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:59*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.323	0.165	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.323	0.138	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Ethylbenzene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Methyl tert-butyl ether	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
m,p-Xylene	ND		0.129	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Naphthalene	**0.0459**	**J B**	0.0646	0.0439	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
o-Xylene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Toluene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
C5-C8 Aliphatics (unadjusted)	ND		0.323	0.165	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
C9-C10 Aromatics	ND		0.323	0.0452	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
C9-C12 Aliphatics (unadjusted)	ND		0.323	0.138	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/07/23 07:22*	*03/07/23 15:54*	*1*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/07/23 07:22*	*03/07/23 15:54*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1254	**0.253**		0.0218	0.0170	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*
DCB Decachlorobiphenyl (Surr)	*113*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoroheptanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorononanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorodecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorotridecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorotetradecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorobutanesulfonic acid	ND		2.17	0.434	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorohexanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
10:2 FTS	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoropentanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoroheptanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorononanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorodecanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctanesulfonamide	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorohexadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorobutanoic acid	ND		2.17	0.867	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoropentanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NMeFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NMeFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NEtFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NEtFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
HFPODA	ND		2.17	1.08	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
DONA	ND		3.25	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
11Cl-PF3OUdS	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorododecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoroundecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*80*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C5 PFHxA	*76*		*10 - 174*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C4 PFHpA	*84*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C8 PFOA	*95*		*26 - 159*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C9 PFNA	*95*		*26 - 165*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C6 PFDA	*95*		*26 - 161*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C7 PFUnA	*97*		*12 - 173*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C2-PFDoDA	*95*		*11 - 166*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C2 PFTeDA	*114*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C3 PFBS	*113*		*27 - 179*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C8 PFOS	*112*		*41 - 154*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d3-NMeFOSAA	*20*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d5-NEtFOSAA	*25*		*10 - 193*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C8 FOSA	*74*		*14 - 163*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C4 PFBA	*73*		*28 - 153*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d7-N-MeFOSE-M	*79*		*10 - 179*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d3-NMePFOSA	*62*		*10 - 175*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d5-NEtPFOSA	*67*		*10 - 180*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C3 HFPO-DA	*67*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.42	1.84	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Arsenic	**2.07**	**J**	3.25	1.52	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Barium	**13.0**		0.542	0.163	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Beryllium	**0.256**	**J**	0.542	0.108	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Cadmium	ND		0.542	0.108	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Chromium	**3.63**		1.63	0.379	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Lead	**2.64**		1.63	0.650	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Nickel	**1.76**		1.08	0.282	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Selenium	ND		5.42	1.63	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Silver	ND	^3+	1.08	0.434	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Thallium	ND		3.25	1.41	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Vanadium	**6.04**		1.08	0.466	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Zinc	**8.90**		2.17	0.867	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0663	0.0221	mg/Kg	☼	03/08/23 00:50	03/09/23 09:13	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.6		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	90.4		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0204'
Date Collected: 03/02/23 14:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-2
Matrix: Solid
Percent Solids: 91.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00565	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Acetone	ND		0.0565	0.0127	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Acrylonitrile	ND		0.00565	0.00339	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Benzene	ND		0.00565	0.00377	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromobenzene	ND		0.00565	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromochloromethane	ND		0.00565	0.00321	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromodichloromethane	ND		0.00565	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromoform	ND		0.00565	0.00432	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromomethane	ND		0.0113	0.00704	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2-Butanone (MEK)	ND		0.0113	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
n-Butylbenzene	ND		0.0113	0.00606	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
sec-Butylbenzene	ND		0.00565	0.00455	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
tert-Butylbenzene	ND		0.00565	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Carbon disulfide	ND		0.0113	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Carbon tetrachloride	ND		0.00565	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chlorobenzene	ND		0.00565	0.00413	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chloroethane	ND		0.0113	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chloroform	ND		0.00565	0.00380	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chloromethane	ND		0.0113	0.00434	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2-Chlorotoluene	ND		0.00565	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
4-Chlorotoluene	ND		0.00565	0.00490	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dibromo-3-Chloropropane	ND		0.0113	0.00479	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Dibromochloromethane	ND		0.00565	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dibromoethane (EDB)	ND		0.00565	0.00406	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Dibromomethane	ND		0.00565	0.00332	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dichlorobenzene	ND		0.00565	0.00524	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3-Dichlorobenzene	ND		0.00565	0.00453	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,4-Dichlorobenzene	ND		0.00565	0.00535	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Dichlorodifluoromethane (Freon 12)	ND		0.0113	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1-Dichloroethane	ND		0.00565	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dichloroethane	ND		0.00565	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1-Dichloroethene	ND		0.00565	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
cis-1,2-Dichloroethene	ND		0.00565	0.00326	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
trans-1,2-Dichloroethene	ND		0.00565	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dichloropropane	ND		0.00565	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3-Dichloropropane	ND		0.00565	0.00432	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2,2-Dichloropropane	ND		0.00565	0.00390	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1-Dichloropropene	ND		0.00565	0.00384	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
cis-1,3-Dichloropropene	ND		0.00565	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
trans-1,3-Dichloropropene	ND		0.00565	0.00429	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethylbenzene	ND		0.00565	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Hexachlorobutadiene	ND		0.0113	0.00568	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2-Hexanone (MBK)	ND		0.0113	0.00332	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Isopropylbenzene	ND		0.00565	0.00427	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
4-Isopropyltoluene	ND		0.00565	0.00555	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Methyl tert-butyl ether	ND		0.00565	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
4-Methyl-2-pentanone (MIBK)	ND		0.0113	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Methylene Chloride	ND		0.0113	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Naphthalene	ND		0.00565	0.00511	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1

Client Sample ID: 2023-MW-06-0204' **Lab Sample ID: 620-10117-2**
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00565	0.00478	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Styrene	ND		0.00565	0.00437	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,1,2-Tetrachloroethane	ND		0.00565	0.00424	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,2,2-Tetrachloroethane	ND		0.00565	0.00517	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Tetrachloroethene	ND		0.00565	0.00314	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Toluene	ND		0.00565	0.00358	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,3-Trichlorobenzene	ND		0.00565	0.00477	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,4-Trichlorobenzene	ND		0.00565	0.00521	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3,5-Trichlorobenzene	ND		0.00565	0.00537	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,1-Trichloroethane	ND		0.00565	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,2-Trichloroethane	ND		0.00565	0.00426	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Trichloroethene	ND		0.00565	0.00380	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Trichlorofluoromethane (Freon 11)	ND		0.00565	0.00432	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,3-Trichloropropane	ND		0.00565	0.00502	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,4-Trimethylbenzene	ND		0.00565	0.00478	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3,5-Trimethylbenzene	ND		0.00565	0.00480	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Vinyl chloride	ND		0.00565	0.00345	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
m,p-Xylene	ND		0.00565	0.00772	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
o-Xylene	ND		0.00565	0.00412	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Tetrahydrofuran	ND		0.0113	0.00286	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethyl ether	ND		0.00565	0.00297	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Tert-amyl methyl ether	ND		0.00565	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethyl tert-butyl ether	ND		0.00565	0.00372	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
di-Isopropyl ether	ND		0.00565	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
tert-Butanol	ND		0.113	0.0303	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,4-Dioxane	ND		0.113	0.0351	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
trans-1,4-Dichloro-2-butene	ND		0.0282	0.00417	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethanol	ND		1.13	0.0700	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3-Dichloropropene, Total	ND		0.00565	0.00429	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Xylenes, Total	ND		0.0169	0.00565	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.353	0.0628	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,2,4-Trichlorobenzene	ND		0.353	0.0809	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,2-Dichlorobenzene	ND		0.353	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,3-Dichlorobenzene	ND		0.353	0.0855	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,4-Dichlorobenzene	ND		0.353	0.0831	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1-Methylnaphthalene	ND		0.0714	0.0599	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4,5-Trichlorophenol	ND		0.353	0.0404	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4,6-Trichlorophenol	ND		0.179	0.0437	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4-Dichlorophenol	ND		0.179	0.0711	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4-Dimethylphenol	ND		0.353	0.0518	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4-Dinitrophenol	ND		0.353	0.0929	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0204'
Date Collected: 03/02/23 14:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-2
Matrix: Solid
Percent Solids: 91.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,6-Dinitrotoluene	ND		0.179	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Chloronaphthalene	ND		0.353	0.0816	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Chlorophenol	ND		0.179	0.0731	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Methylnaphthalene	ND		0.0714	0.0527	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Methylphenol	ND		0.353	0.0516	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Nitroaniline	ND		0.353	0.0336	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Nitrophenol	ND		0.179	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
3 & 4 Methylphenol	ND		0.353	0.0669	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
3,3'-Dichlorobenzidine	ND		0.353	0.0583	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
3-Nitroaniline	ND		0.353	0.0316	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4,6-Dinitro-2-methylphenol	ND		0.353	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Bromophenyl phenyl ether	ND		0.353	0.0399	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Chloro-3-methylphenol	ND		0.353	0.0691	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Chlorophenyl phenyl ether	ND		0.353	0.0378	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Nitroaniline	ND		0.179	0.0564	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Nitrophenol	ND		0.353	0.123	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Acenaphthene	ND		0.0714	0.0569	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Acenaphthylene	ND		0.0714	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Acetophenone	ND		0.179	0.0435	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Aniline	ND		0.353	0.0271	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Anthracene	ND		0.0714	0.0413	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Azobenzene/Diphenyldiazene	ND		0.353	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzidine	ND		0.706	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[a]anthracene	ND		0.0714	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[a]pyrene	ND		0.0714	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[b]fluoranthene	ND		0.0714	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[g,h,i]perylene	ND		0.0714	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[k]fluoranthene	ND		0.0714	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzoic acid	ND	*- *1	0.353	0.243	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzyl alcohol	ND		0.353	0.0640	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Bis(2-chloroethoxy)methane	ND		0.353	0.0614	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Bis(2-chloroethyl)ether	ND		0.179	0.0584	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0795	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Bis(2-ethylhexyl) phthalate	ND		0.179	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Butyl benzyl phthalate	ND		0.353	0.0354	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Carbazole	ND		0.179	0.0468	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Chrysene	ND		0.0714	0.0403	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Dibenz(a,h)anthracene	ND		0.0714	0.0545	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Dibenzofuran	ND		0.179	0.0618	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Diethyl phthalate	ND		0.353	0.0387	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Dimethyl phthalate	ND		0.353	0.0460	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Di-n-butyl phthalate	ND		0.353	0.0378	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Di-n-octyl phthalate	ND		0.353	0.0583	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Fluoranthene	ND		0.0714	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Fluorene	ND		0.0714	0.0652	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Hexachlorobenzene	ND		0.179	0.0495	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Hexachlorobutadiene	ND		0.179	0.0891	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2

Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0683	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Hexachloroethane	ND		0.179	0.0702	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0714	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Isophorone	ND		0.179	0.0489	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Naphthalene	ND		0.0714	0.0685	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Nitrobenzene	ND		0.179	0.0825	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
N-Nitrosodimethylamine	ND		0.179	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0711	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
N-Nitrosodiphenylamine	ND		0.353	0.0450	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pentachloronitrobenzene	ND		0.353	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pentachlorophenol	ND		0.353	0.144	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Phenanthrene	ND		0.0714	0.0404	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Phenol	ND		0.353	0.0728	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pyrene	ND		0.0714	0.0394	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pyridine	ND		0.353	0.0836	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
2-Fluorophenol (Surr)	*98*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
Terphenyl-d14	*82*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:27*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.270	0.138	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.270	0.115	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Ethylbenzene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Methyl tert-butyl ether	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
m,p-Xylene	ND		0.108	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Naphthalene	ND		0.0540	0.0367	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
o-Xylene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Toluene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.270	0.138	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
C9-C10 Aromatics	ND		0.270	0.0378	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.270	0.115	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/07/23 07:22*	*03/07/23 16:34*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 16:34*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0217	0.0157	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1221	ND		0.0217	0.00642	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1232	ND		0.0217	0.00602	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1

Client Sample ID: 2023-MW-06-0204' **Lab Sample ID: 620-10117-2**
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0217	0.00343	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1248	ND		0.0217	0.00679	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1254	ND		0.0217	0.0169	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1262	ND		0.0217	0.00506	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1260	ND		0.0217	0.00467	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1268	ND		0.0217	0.00463	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*
Tetrachloro-m-xylene	*103*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoroheptanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorononanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorodecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorotridecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorotetradecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorobutanesulfonic acid	ND		2.11	0.421	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorohexanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NEtFOSAA	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NMeFOSAA	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
10:2 FTS	ND		2.11	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoropentanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoroheptanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorononanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorodecanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctanesulfonamide	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorohexadecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctadecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorobutanoic acid	ND		2.11	0.842	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoropentanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NMeFOSE	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NMeFOSA	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NEtFOSE	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NEtFOSA	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
HFPODA	ND		2.11	1.05	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
DONA	ND		3.16	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
9Cl-PF3ONS	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
11Cl-PF3OUdS	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorododecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.11	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoroundecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1

Client Sample ID: 2023-MW-06-0204' **Lab Sample ID: 620-10117-2**
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.11	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.16	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
M2-8:2 FTS	*80*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
M2-6:2 FTS	*95*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C5 PFHxA	*88*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C4 PFHpA	*92*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C8 PFOA	*94*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C9 PFNA	*97*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C6 PFDA	*95*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C7 PFUnA	*102*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C2-PFDoDA	*90*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C3 PFBS	*111*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C3 PFHxS	*92*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d3-NMeFOSAA	*20*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C8 FOSA	*100*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C5 PFPeA	*83*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d7-N-MeFOSE-M	*106*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d3-NMePFOSA	*78*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d9-N-EtFOSE-M	*109*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:19*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.12	1.74	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Arsenic	**4.35**		3.07	1.43	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Barium	**12.3**		0.512	0.154	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Beryllium	**0.230**	**J**	0.512	0.102	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Cadmium	ND		0.512	0.102	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Chromium	**3.20**		1.54	0.358	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Lead	**2.74**		1.54	0.614	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Nickel	**1.57**		1.02	0.266	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Selenium	ND		5.12	1.54	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Silver	ND	^3+	1.02	0.409	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Thallium	ND		3.07	1.33	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Vanadium	**5.25**		1.02	0.440	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Zinc	**6.55**		2.05	0.819	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0657	0.0219	mg/Kg	☼	03/08/23 00:50	03/09/23 09:16	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0204'
Date Collected: 03/02/23 14:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-2
Matrix: Solid
Percent Solids: 91.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.7		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	91.3		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0406'
Date Collected: 03/02/23 14:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-3
Matrix: Solid
Percent Solids: 94.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Acetone	ND		0.0500	0.0112	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Benzene	ND		0.00500	0.00334	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromoform	ND		0.00500	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromomethane	ND		0.0100	0.00623	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chloroethane	ND		0.0100	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chloroform	ND		0.00500	0.00336	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chloromethane	ND		0.0100	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Naphthalene	ND		0.00500	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Styrene	ND		0.00500	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Toluene	ND		0.00500	0.00317	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
o-Xylene	ND		0.00500	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
tert-Butanol	ND		0.100	0.0268	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethanol	ND		1.00	0.0620	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.350	0.0623	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,2,4-Trichlorobenzene	ND		0.350	0.0803	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,2-Dichlorobenzene	ND		0.350	0.0675	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,3-Dichlorobenzene	ND		0.350	0.0848	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,4-Dichlorobenzene	ND		0.350	0.0825	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1-Methylnaphthalene	ND		0.0708	0.0595	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4,5-Trichlorophenol	ND		0.350	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4,6-Trichlorophenol	ND		0.177	0.0433	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4-Dichlorophenol	ND		0.177	0.0706	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4-Dimethylphenol	ND		0.350	0.0514	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4-Dinitrophenol	ND		0.350	0.0922	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0406'
Date Collected: 03/02/23 14:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-3
Matrix: Solid
Percent Solids: 94.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,6-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Chloronaphthalene	ND		0.350	0.0810	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Chlorophenol	ND		0.177	0.0725	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Methylnaphthalene	ND		0.0708	0.0523	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Methylphenol	ND		0.350	0.0512	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Nitroaniline	ND		0.350	0.0333	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Nitrophenol	ND		0.177	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
3 & 4 Methylphenol	ND		0.350	0.0664	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
3,3'-Dichlorobenzidine	ND		0.350	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
3-Nitroaniline	ND		0.350	0.0313	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4,6-Dinitro-2-methylphenol	ND		0.350	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Bromophenyl phenyl ether	ND		0.350	0.0396	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Chloro-3-methylphenol	ND		0.350	0.0686	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Chloroaniline	ND		0.177	0.0269	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Chlorophenyl phenyl ether	ND		0.350	0.0375	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Nitroaniline	ND		0.177	0.0559	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Nitrophenol	ND		0.350	0.122	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Acenaphthene	ND		0.0708	0.0565	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Acenaphthylene	ND		0.0708	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Acetophenone	ND		0.177	0.0432	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Aniline	ND		0.350	0.0269	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Anthracene	ND		0.0708	0.0410	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Azobenzene/Diphenyldiazene	ND		0.350	0.0598	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzidine	ND		0.701	0.104	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[a]anthracene	ND		0.0708	0.0398	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[a]pyrene	ND		0.0708	0.0506	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[b]fluoranthene	ND		0.0708	0.0587	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[g,h,i]perylene	ND		0.0708	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[k]fluoranthene	ND		0.0708	0.0551	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzoic acid	ND	*- *1	0.350	0.241	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzyl alcohol	ND		0.350	0.0635	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Bis(2-chloroethoxy)methane	ND		0.350	0.0609	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Bis(2-chloroethyl)ether	ND		0.177	0.0580	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
bis (2-chloroisopropyl) ether	ND		0.177	0.0789	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Bis(2-ethylhexyl) phthalate	ND		0.177	0.0451	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Butyl benzyl phthalate	ND		0.350	0.0351	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Carbazole	ND		0.177	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Chrysene	ND		0.0708	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Dibenz(a,h)anthracene	ND		0.0708	0.0540	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Dibenzofuran	ND		0.177	0.0614	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Diethyl phthalate	ND		0.350	0.0384	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Dimethyl phthalate	ND		0.350	0.0457	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Di-n-butyl phthalate	ND		0.350	0.0375	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Di-n-octyl phthalate	ND		0.350	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Fluoranthene	ND		0.0708	0.0415	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Fluorene	ND		0.0708	0.0647	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Hexachlorobenzene	ND		0.177	0.0492	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Hexachlorobutadiene	ND		0.177	0.0884	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.177	0.0677	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Hexachloroethane	ND		0.177	0.0696	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0708	0.0601	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Isophorone	ND		0.177	0.0485	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Naphthalene	ND		0.0708	0.0679	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Nitrobenzene	ND		0.177	0.0819	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
N-Nitrosodimethylamine	ND		0.177	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
N-Nitrosodi-n-propylamine	ND		0.177	0.0706	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
N-Nitrosodiphenylamine	ND		0.350	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pentachloronitrobenzene	ND		0.350	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pentachlorophenol	ND		0.350	0.143	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Phenanthrene	ND		0.0708	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Phenol	ND		0.350	0.0722	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pyrene	ND		0.0708	0.0391	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pyridine	ND		0.350	0.0829	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:30*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.283	0.145	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.283	0.121	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Ethylbenzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Methyl tert-butyl ether	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Naphthalene	ND		0.0565	0.0384	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
o-Xylene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Toluene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
C5-C8 Aliphatics (unadjusted)	ND		0.283	0.145	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
C9-C10 Aromatics	ND		0.283	0.0396	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
C9-C12 Aliphatics (unadjusted)	ND		0.283	0.121	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:13*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:13*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1221	ND		0.0208	0.00615	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1232	ND		0.0208	0.00577	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1254	ND		0.0208	0.0162	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1262	ND		0.0208	0.00485	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1260	ND		0.0208	0.00448	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*114*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoroheptanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorononanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorodecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorotridecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorotetradecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorobutanesulfonic acid	ND		2.04	0.409	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorohexanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NEtFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NMeFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
10:2 FTS	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoropentanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoroheptanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorononanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorodecanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctanesulfonamide	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorohexadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorobutanoic acid	ND		2.04	0.818	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoropentanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NMeFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NMeFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NEtFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NEtFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
HFPODA	ND		2.04	1.02	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
DONA	ND		3.07	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
9Cl-PF3ONS	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
11Cl-PF3OUdS	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorododecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
4:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoroundecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
8:2 Fluorotelomer sulfonic acid	ND		3.07	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
M2-8:2 FTS	*92*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
M2-6:2 FTS	*108*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C5 PFHxA	*100*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C8 PFOA	*111*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C9 PFNA	*110*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C7 PFUnA	*121*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C2-PFDoDA	*112*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d3-NMeFOSAA	*44*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d5-NEtFOSAA	*54*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C8 FOSA	*76*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C5 PFPeA	*86*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d7-N-MeFOSE-M	*77*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d3-NMePFOSA	*65*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d9-N-EtFOSE-M	*86*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d5-NEtPFOSA	*67*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C3 HFPO-DA	*82*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:31*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.66	1.59	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Arsenic	**2.47**	**J**	2.80	1.31	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Barium	**11.9**		0.466	0.140	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Beryllium	**0.206**	**J**	0.466	0.0932	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Cadmium	ND		0.466	0.0932	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Chromium	**2.95**		1.40	0.326	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Lead	**2.16**		1.40	0.559	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Nickel	**1.32**		0.932	0.242	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Selenium	ND		4.66	1.40	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Silver	ND	^3+	0.932	0.373	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Thallium	ND		2.80	1.21	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Vanadium	**4.39**		0.932	0.401	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Zinc	**5.24**		1.86	0.746	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0617	0.0206	mg/Kg	☼	03/08/23 00:46	03/09/23 08:08	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0406'
Date Collected: 03/02/23 14:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-3
Matrix: Solid
Percent Solids: 94.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.9		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	94.1		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0608'
Date Collected: 03/02/23 14:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-4
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00532	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Acetone	ND		0.0532	0.0119	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Acrylonitrile	ND		0.00532	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Benzene	ND		0.00532	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromobenzene	ND		0.00532	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromochloromethane	ND		0.00532	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromodichloromethane	ND		0.00532	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromoform	ND		0.00532	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromomethane	ND		0.0106	0.00663	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2-Butanone (MEK)	ND		0.0106	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
n-Butylbenzene	ND		0.0106	0.00570	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
sec-Butylbenzene	ND		0.00532	0.00429	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
tert-Butylbenzene	ND		0.00532	0.00419	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Carbon disulfide	ND		0.0106	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Carbon tetrachloride	ND		0.00532	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chlorobenzene	ND		0.00532	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chloroethane	ND		0.0106	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chloroform	ND		0.00532	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chloromethane	ND		0.0106	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2-Chlorotoluene	ND		0.00532	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
4-Chlorotoluene	ND		0.00532	0.00462	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Dibromochloromethane	ND		0.00532	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dibromoethane (EDB)	ND		0.00532	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Dibromomethane	ND		0.00532	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dichlorobenzene	ND		0.00532	0.00494	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3-Dichlorobenzene	ND		0.00532	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,4-Dichlorobenzene	ND		0.00532	0.00504	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Dichlorodifluoromethane (Freon 12)	ND		0.0106	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1-Dichloroethane	ND		0.00532	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dichloroethane	ND		0.00532	0.00358	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1-Dichloroethene	ND		0.00532	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
cis-1,2-Dichloroethene	ND		0.00532	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
trans-1,2-Dichloroethene	ND		0.00532	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dichloropropane	ND		0.00532	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3-Dichloropropane	ND		0.00532	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2,2-Dichloropropane	ND		0.00532	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1-Dichloropropene	ND		0.00532	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
cis-1,3-Dichloropropene	ND		0.00532	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
trans-1,3-Dichloropropene	ND		0.00532	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethylbenzene	ND		0.00532	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Hexachlorobutadiene	ND		0.0106	0.00535	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2-Hexanone (MBK)	ND		0.0106	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Isopropylbenzene	ND		0.00532	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
4-Isopropyltoluene	ND		0.00532	0.00522	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Methyl tert-butyl ether	ND		0.00532	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Methylene Chloride	ND		0.0106	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Naphthalene	ND		0.00532	0.00481	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00532	0.00450	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Styrene	ND		0.00532	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,1,2-Tetrachloroethane	ND		0.00532	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.00532	0.00487	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Tetrachloroethene	ND		0.00532	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Toluene	ND		0.00532	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,3-Trichlorobenzene	ND		0.00532	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,4-Trichlorobenzene	ND		0.00532	0.00490	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3,5-Trichlorobenzene	ND		0.00532	0.00505	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,1-Trichloroethane	ND		0.00532	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,2-Trichloroethane	ND		0.00532	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Trichloroethene	ND		0.00532	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Trichlorofluoromethane (Freon 11)	ND		0.00532	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,3-Trichloropropane	ND		0.00532	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,4-Trimethylbenzene	ND		0.00532	0.00450	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3,5-Trimethylbenzene	ND		0.00532	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Vinyl chloride	ND		0.00532	0.00324	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
m,p-Xylene	ND		0.00532	0.00727	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
o-Xylene	ND		0.00532	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Tetrahydrofuran	ND		0.0106	0.00269	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethyl ether	ND		0.00532	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Tert-amyl methyl ether	ND		0.00532	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethyl tert-butyl ether	ND		0.00532	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
di-Isopropyl ether	ND		0.00532	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
tert-Butanol	ND		0.106	0.0285	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,4-Dioxane	ND		0.106	0.0331	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
trans-1,4-Dichloro-2-butene	ND		0.0266	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethanol	ND		1.06	0.0660	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3-Dichloropropene, Total	ND		0.00532	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Xylenes, Total	ND		0.0160	0.00532	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0647	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,2,4-Trichlorobenzene	ND		0.364	0.0833	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,2-Dichlorobenzene	ND		0.364	0.0701	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,3-Dichlorobenzene	ND		0.364	0.0881	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1-Methylnaphthalene	ND		0.0735	0.0617	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4-Dichlorophenol	ND		0.184	0.0733	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4-Dinitrophenol	ND		0.364	0.0957	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0608'
Date Collected: 03/02/23 14:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-4
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Chloronaphthalene	ND		0.364	0.0841	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Chlorophenol	ND		0.184	0.0753	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Methylnaphthalene	ND		0.0735	0.0544	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Methylphenol	ND		0.364	0.0531	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Nitroaniline	ND		0.364	0.0346	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
3 & 4 Methylphenol	ND		0.364	0.0689	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
3-Nitroaniline	ND		0.364	0.0325	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Bromophenyl phenyl ether	ND		0.364	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Chloro-3-methylphenol	ND		0.364	0.0712	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0389	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Nitroaniline	ND		0.184	0.0581	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Acenaphthene	ND		0.0735	0.0587	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Acenaphthylene	ND		0.0735	0.0483	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Anthracene	ND		0.0735	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzidine	ND		0.728	0.108	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[a]anthracene	ND		0.0735	0.0413	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[a]pyrene	ND		0.0735	0.0526	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[b]fluoranthene	ND		0.0735	0.0610	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[g,h,i]perylene	ND		0.0735	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[k]fluoranthene	ND		0.0735	0.0572	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzoic acid	ND	*- *1	0.364	0.250	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzyl alcohol	ND		0.364	0.0659	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Bis(2-chloroethyl)ether	ND		0.184	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0819	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Bis(2-ethylhexyl) phthalate	ND		0.184	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Butyl benzyl phthalate	ND		0.364	0.0365	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Chrysene	ND		0.0735	0.0416	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Dibenz(a,h)anthracene	ND		0.0735	0.0561	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Dibenzofuran	ND		0.184	0.0637	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Dimethyl phthalate	ND		0.364	0.0474	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Di-n-butyl phthalate	ND		0.364	0.0389	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Fluoranthene	ND		0.0735	0.0431	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Fluorene	ND		0.0735	0.0671	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Hexachlorobenzene	ND		0.184	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Hexachlorobutadiene	ND		0.184	0.0918	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.184	0.0703	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Hexachloroethane	ND		0.184	0.0723	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0735	0.0624	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Naphthalene	ND		0.0735	0.0706	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Nitrobenzene	ND		0.184	0.0850	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0733	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
N-Nitrosodiphenylamine	ND		0.364	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pentachloronitrobenzene	ND		0.364	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Phenanthrene	ND		0.0735	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pyrene	ND		0.0735	0.0406	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pyridine	ND		0.364	0.0861	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
2-Fluorophenol (Surr)	*105*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
Phenol-d5 (Surr)	*91*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
Terphenyl-d14	*84*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:56*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.114	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Ethylbenzene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Methyl tert-butyl ether	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Naphthalene	ND		0.0531	0.0361	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
o-Xylene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Toluene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
C9-C10 Aromatics	ND		0.265	0.0372	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.114	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:52*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:52*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0214	0.0154	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1221	ND		0.0214	0.00631	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1232	ND		0.0214	0.00591	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0214	0.00337	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1248	ND		0.0214	0.00667	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1254	ND		0.0214	0.0166	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1262	ND		0.0214	0.00497	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1260	ND		0.0214	0.00459	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1268	ND		0.0214	0.00455	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoroheptanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorononanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorodecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorotridecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorotetradecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorobutanesulfonic acid	ND		2.04	0.409	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorohexanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NEtFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NMeFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
10:2 FTS	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoropentanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoroheptanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorononanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorodecanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctanesulfonamide	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorohexadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorobutanoic acid	ND		2.04	0.818	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoropentanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NMeFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NMeFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NEtFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NEtFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
HFPODA	ND		2.04	1.02	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
DONA	ND		3.07	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
9Cl-PF3ONS	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
11Cl-PF3OUdS	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorododecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
4:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoroundecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
8:2 Fluorotelomer sulfonic acid	ND		3.07	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
M2-8:2 FTS	*104*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
M2-6:2 FTS	*102*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C5 PFHxA	*108*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C4 PFHpA	*111*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C8 PFOA	*109*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C6 PFDA	*110*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C2 PFTeDA	*128*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C8 PFOS	*115*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d3-NMeFOSAA	*69*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d5-NEtFOSAA	*73*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d3-NMePFOSA	*112*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d9-N-EtFOSE-M	*123*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d5-NEtPFOSA	*114*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C3 HFPO-DA	*95*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:42*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.12	1.40	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Arsenic	**3.33**		2.47	1.15	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Barium	**18.2**		0.412	0.124	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Beryllium	**0.288**	**J**	0.412	0.0824	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Cadmium	ND		0.412	0.0824	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Chromium	**5.75**		1.24	0.288	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Lead	**2.43**		1.24	0.494	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Nickel	**2.49**		0.824	0.214	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Selenium	ND		4.12	1.24	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Silver	ND	^3+	0.824	0.330	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Thallium	ND		2.47	1.07	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Vanadium	**9.14**		0.824	0.354	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Zinc	**11.2**		1.65	0.659	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0621	0.0207	mg/Kg	☼	03/08/23 00:50	03/09/23 09:27	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0608'
Date Collected: 03/02/23 14:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-4
Matrix: Solid
Percent Solids: 90.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	90.6		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0810'
Date Collected: 03/02/23 14:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-5
Matrix: Solid
Percent Solids: 79.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00552	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Acetone	ND		0.0552	0.0124	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Acrylonitrile	ND		0.00552	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Benzene	ND		0.00552	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromobenzene	ND		0.00552	0.00368	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromochloromethane	ND		0.00552	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromodichloromethane	ND		0.00552	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromoform	ND		0.00552	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromomethane	ND		0.0110	0.00688	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2-Butanone (MEK)	ND		0.0110	0.00440	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
n-Butylbenzene	ND		0.0110	0.00592	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
sec-Butylbenzene	ND		0.00552	0.00445	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
tert-Butylbenzene	ND		0.00552	0.00435	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Carbon disulfide	ND		0.0110	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Carbon tetrachloride	ND		0.00552	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chlorobenzene	ND		0.00552	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chloroethane	ND		0.0110	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chloroform	ND		0.00552	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chloromethane	ND		0.0110	0.00424	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2-Chlorotoluene	ND		0.00552	0.00440	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
4-Chlorotoluene	ND		0.00552	0.00479	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0110	0.00468	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Dibromochloromethane	ND		0.00552	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dibromoethane (EDB)	ND		0.00552	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Dibromomethane	ND		0.00552	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dichlorobenzene	ND		0.00552	0.00512	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3-Dichlorobenzene	ND		0.00552	0.00443	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,4-Dichlorobenzene	ND		0.00552	0.00524	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.0110	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1-Dichloroethane	ND		0.00552	0.00374	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dichloroethane	ND		0.00552	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1-Dichloroethene	ND		0.00552	0.00338	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
cis-1,2-Dichloroethene	ND		0.00552	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
trans-1,2-Dichloroethene	ND		0.00552	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dichloropropane	ND		0.00552	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3-Dichloropropane	ND		0.00552	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2,2-Dichloropropane	ND		0.00552	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1-Dichloropropene	ND		0.00552	0.00376	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
cis-1,3-Dichloropropene	ND		0.00552	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
trans-1,3-Dichloropropene	ND		0.00552	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethylbenzene	ND		0.00552	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Hexachlorobutadiene	ND		0.0110	0.00556	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2-Hexanone (MBK)	ND		0.0110	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Isopropylbenzene	ND		0.00552	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
4-Isopropyltoluene	ND		0.00552	0.00542	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Methyl tert-butyl ether	ND		0.00552	0.00318	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Methylene Chloride	ND		0.0110	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Naphthalene	ND		0.00552	0.00499	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0810'
Date Collected: 03/02/23 14:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-5
Matrix: Solid
Percent Solids: 79.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00552	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Styrene	ND		0.00552	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,1,2-Tetrachloroethane	ND		0.00552	0.00414	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,2,2-Tetrachloroethane	ND		0.00552	0.00506	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Tetrachloroethene	ND		0.00552	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Toluene	ND		0.00552	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,3-Trichlorobenzene	ND		0.00552	0.00466	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,4-Trichlorobenzene	ND		0.00552	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3,5-Trichlorobenzene	ND		0.00552	0.00525	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,1-Trichloroethane	ND		0.00552	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,2-Trichloroethane	ND		0.00552	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Trichloroethene	ND		0.00552	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00552	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,3-Trichloropropane	ND		0.00552	0.00490	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,4-Trimethylbenzene	ND		0.00552	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3,5-Trimethylbenzene	ND		0.00552	0.00469	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Vinyl chloride	ND		0.00552	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
m,p-Xylene	ND		0.00552	0.00754	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
o-Xylene	ND		0.00552	0.00403	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Tetrahydrofuran	ND		0.0110	0.00279	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethyl ether	ND		0.00552	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Tert-amyl methyl ether	ND		0.00552	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethyl tert-butyl ether	ND		0.00552	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
di-Isopropyl ether	ND		0.00552	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
tert-Butanol	ND		0.110	0.0296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,4-Dioxane	ND		0.110	0.0343	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
trans-1,4-Dichloro-2-butene	ND		0.0276	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethanol	ND		1.10	0.0685	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3-Dichloropropene, Total	ND		0.00552	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Xylenes, Total	ND		0.0166	0.00552	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.417	0.0741	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,2,4-Trichlorobenzene	ND		0.417	0.0954	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,2-Dichlorobenzene	ND		0.417	0.0803	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,3-Dichlorobenzene	ND		0.417	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,4-Dichlorobenzene	ND		0.417	0.0981	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1-Methylnaphthalene	ND		0.0842	0.0707	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4,5-Trichlorophenol	ND		0.417	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4,6-Trichlorophenol	ND		0.211	0.0515	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4-Dichlorophenol	ND		0.211	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4-Dimethylphenol	ND		0.417	0.0611	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4-Dinitrophenol	ND		0.417	0.110	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0810'
Date Collected: 03/02/23 14:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-5
Matrix: Solid
Percent Solids: 79.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.211	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,6-Dinitrotoluene	ND		0.211	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Chloronaphthalene	ND		0.417	0.0963	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Chlorophenol	ND		0.211	0.0862	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Methylnaphthalene	ND		0.0842	0.0622	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Methylphenol	ND		0.417	0.0608	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Nitroaniline	ND		0.417	0.0396	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Nitrophenol	ND		0.211	0.0749	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
3 & 4 Methylphenol	ND		0.417	0.0789	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
3,3'-Dichlorobenzidine	ND		0.417	0.0688	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
3-Nitroaniline	ND		0.417	0.0372	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4,6-Dinitro-2-methylphenol	ND		0.417	0.0749	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Bromophenyl phenyl ether	ND		0.417	0.0471	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Chloro-3-methylphenol	ND		0.417	0.0816	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Chloroaniline	ND		0.211	0.0319	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Chlorophenyl phenyl ether	ND		0.417	0.0446	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Nitroaniline	ND		0.211	0.0665	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Nitrophenol	ND		0.417	0.145	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Acenaphthene	ND		0.0842	0.0672	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Acenaphthylene	ND		0.0842	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Acetophenone	ND		0.211	0.0514	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Aniline	ND		0.417	0.0319	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Anthracene	ND		0.0842	0.0487	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Azobenzene/Diphenyldiazene	ND		0.417	0.0711	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzidine	ND		0.833	0.123	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[a]anthracene	ND		0.0842	0.0473	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[a]pyrene	ND		0.0842	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[b]fluoranthene	ND		0.0842	0.0698	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[g,h,i]perylene	ND		0.0842	0.0658	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[k]fluoranthene	ND		0.0842	0.0655	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzoic acid	ND	*- *1	0.417	0.287	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzyl alcohol	ND		0.417	0.0755	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Bis(2-chloroethoxy)methane	ND		0.417	0.0725	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Bis(2-chloroethyl)ether	ND		0.211	0.0689	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
bis (2-chloroisopropyl) ether	ND		0.211	0.0938	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Bis(2-ethylhexyl) phthalate	ND		0.211	0.0537	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Butyl benzyl phthalate	ND		0.417	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Carbazole	ND		0.211	0.0552	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Chrysene	ND		0.0842	0.0476	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Dibenz(a,h)anthracene	ND		0.0842	0.0643	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Dibenzofuran	ND		0.211	0.0730	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Diethyl phthalate	ND		0.417	0.0457	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Dimethyl phthalate	ND		0.417	0.0543	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Di-n-butyl phthalate	ND		0.417	0.0446	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Di-n-octyl phthalate	ND		0.417	0.0688	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Fluoranthene	ND		0.0842	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Fluorene	ND		0.0842	0.0769	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Hexachlorobenzene	ND		0.211	0.0585	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Hexachlorobutadiene	ND		0.211	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.211	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Hexachloroethane	ND		0.211	0.0828	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0842	0.0715	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Isophorone	ND		0.211	0.0577	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Naphthalene	ND		0.0842	0.0808	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Nitrobenzene	ND		0.211	0.0973	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
N-Nitrosodimethylamine	ND		0.211	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
N-Nitrosodi-n-propylamine	ND		0.211	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
N-Nitrosodiphenylamine	ND		0.417	0.0531	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pentachloronitrobenzene	ND		0.417	0.0658	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pentachlorophenol	ND		0.417	0.170	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Phenanthrene	ND		0.0842	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Phenol	ND		0.417	0.0858	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pyrene	ND		0.0842	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pyridine	ND		0.417	0.0986	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
2-Fluorophenol (Surr)	*115*	*S1+*	*15 - 110*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
Nitrobenzene-d5 (Surr)	*96*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
Phenol-d5 (Surr)	*101*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:24*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.281	0.144	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.281	0.120	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Ethylbenzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Methyl tert-butyl ether	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
m,p-Xylene	ND		0.112	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Naphthalene	ND		0.0562	0.0382	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
o-Xylene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Toluene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
C5-C8 Aliphatics (unadjusted)	ND		0.281	0.144	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
C9-C10 Aromatics	ND		0.281	0.0394	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
C9-C12 Aliphatics (unadjusted)	ND		0.281	0.120	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 18:32*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 18:32*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0252	0.0181	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1221	ND		0.0252	0.00744	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1232	ND		0.0252	0.00697	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0252	0.00398	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1248	ND		0.0252	0.00786	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1254	ND		0.0252	0.0196	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1262	ND		0.0252	0.00586	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1260	ND		0.0252	0.00541	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1268	ND		0.0252	0.00536	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoroheptanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorononanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorodecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorotridecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorotetradecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorobutanesulfonic acid	ND		2.50	0.501	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorohexanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NEtFOSAA	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NMeFOSAA	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
10:2 FTS	ND		2.50	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoropentanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoroheptanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorononanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorodecanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctanesulfonamide	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorohexadecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctadecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorobutanoic acid	ND		2.50	1.00	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoropentanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NMeFOSE	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NMeFOSA	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NEtFOSE	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NEtFOSA	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
HFPODA	ND		2.50	1.25	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
DONA	ND		3.75	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
9Cl-PF3ONS	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
11Cl-PF3OUdS	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorododecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
4:2 Fluorotelomer sulfonic acid	ND		2.50	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoroundecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.50	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
8:2 Fluorotelomer sulfonic acid	ND		3.75	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
M2-8:2 FTS	*97*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C4 PFHpA	*111*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C3 PFBS	*124*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C8 PFOS	*116*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d3-NMeFOSAA	*41*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d5-NEtFOSAA	*42*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C4 PFBA	*114*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C5 PFPeA	*106*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d7-N-MeFOSE-M	*115*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d3-NMePFOSA	*113*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d9-N-EtFOSE-M	*120*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d5-NEtPFOSA	*114*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C3 HFPO-DA	*93*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:53*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.51	1.54	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Arsenic	**5.58**		2.71	1.26	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Barium	**44.5**		0.451	0.135	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Beryllium	**0.585**		0.451	0.0903	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Cadmium	ND		0.451	0.0903	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Chromium	**11.4**		1.35	0.316	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Lead	**4.75**		1.35	0.542	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Nickel	**5.39**		0.903	0.235	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Selenium	ND		4.51	1.35	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Silver	ND	^3+	0.903	0.361	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Thallium	ND		27.1	11.7	mg/Kg	☼	03/07/23 19:52	03/10/23 07:35	10
Vanadium	**19.6**		0.903	0.388	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Zinc	**24.2**		1.81	0.722	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0722	0.0241	mg/Kg	☼	03/07/23 20:58	03/08/23 12:21	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.9		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	79.1		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-1012'
Date Collected: 03/02/23 14:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-6
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Acetone	ND		0.0509	0.0114	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Acrylonitrile	ND		0.00509	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Benzene	ND		0.00509	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromobenzene	ND		0.00509	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromochloromethane	ND		0.00509	0.00289	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromodichloromethane	ND		0.00509	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromoform	ND		0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromomethane	ND		0.0102	0.00634	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2-Butanone (MEK)	ND		0.0102	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
n-Butylbenzene	ND		0.0102	0.00545	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
sec-Butylbenzene	ND		0.00509	0.00410	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
tert-Butylbenzene	ND		0.00509	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Carbon disulfide	ND		0.0102	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Carbon tetrachloride	ND		0.00509	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chlorobenzene	ND		0.00509	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chloroethane	ND		0.0102	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chloroform	ND		0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chloromethane	ND		0.0102	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2-Chlorotoluene	ND		0.00509	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
4-Chlorotoluene	ND		0.00509	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dibromo-3-Chloropropane	ND		0.0102	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Dibromochloromethane	ND		0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dibromoethane (EDB)	ND		0.00509	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Dibromomethane	ND		0.00509	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dichlorobenzene	ND		0.00509	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3-Dichlorobenzene	ND		0.00509	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,4-Dichlorobenzene	ND		0.00509	0.00482	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Dichlorodifluoromethane (Freon 12)	ND		0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1-Dichloroethane	ND		0.00509	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dichloroethane	ND		0.00509	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1-Dichloroethene	ND		0.00509	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
cis-1,2-Dichloroethene	ND		0.00509	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
trans-1,2-Dichloroethene	ND		0.00509	0.00316	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dichloropropane	ND		0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3-Dichloropropane	ND		0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2,2-Dichloropropane	ND		0.00509	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1-Dichloropropene	ND		0.00509	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
cis-1,3-Dichloropropene	ND		0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
trans-1,3-Dichloropropene	ND		0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethylbenzene	ND		0.00509	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Hexachlorobutadiene	ND		0.0102	0.00512	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2-Hexanone (MBK)	ND		0.0102	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Isopropylbenzene	ND		0.00509	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
4-Isopropyltoluene	ND		0.00509	0.00499	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Methyl tert-butyl ether	ND		0.00509	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
4-Methyl-2-pentanone (MIBK)	ND		0.0102	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Methylene Chloride	ND		0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Naphthalene	ND		0.00509	0.00460	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1

Client Sample ID: 2023-MW-06-1012'
Lab Sample ID: 620-10117-6
Date Collected: 03/02/23 14:40
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 80.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00509	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Styrene	ND		0.00509	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,1,2-Tetrachloroethane	ND		0.00509	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,2,2-Tetrachloroethane	ND		0.00509	0.00466	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Tetrachloroethene	ND		0.00509	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Toluene	ND		0.00509	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,3-Trichlorobenzene	ND		0.00509	0.00429	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,4-Trichlorobenzene	ND		0.00509	0.00469	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3,5-Trichlorobenzene	ND		0.00509	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,1-Trichloroethane	ND		0.00509	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,2-Trichloroethane	ND		0.00509	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Trichloroethene	ND		0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Trichlorofluoromethane (Freon 11)	ND		0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,3-Trichloropropane	ND		0.00509	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,4-Trimethylbenzene	ND		0.00509	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3,5-Trimethylbenzene	ND		0.00509	0.00432	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Vinyl chloride	ND		0.00509	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
m,p-Xylene	ND		0.00509	0.00695	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
o-Xylene	ND		0.00509	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Tetrahydrofuran	ND		0.0102	0.00257	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethyl ether	ND		0.00509	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Tert-amyl methyl ether	ND		0.00509	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethyl tert-butyl ether	ND		0.00509	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
di-Isopropyl ether	ND		0.00509	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
tert-Butanol	ND		0.102	0.0273	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,4-Dioxane	ND		0.102	0.0316	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
trans-1,4-Dichloro-2-butene	ND		0.0254	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethanol	ND		1.02	0.0631	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3-Dichloropropene, Total	ND		0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Xylenes, Total	ND		0.0153	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.401	0.0713	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,2,4-Trichlorobenzene	ND		0.401	0.0918	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,2-Dichlorobenzene	ND		0.401	0.0772	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,3-Dichlorobenzene	ND		0.401	0.0970	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,4-Dichlorobenzene	ND		0.401	0.0943	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1-Methylnaphthalene	ND		0.0810	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4,5-Trichlorophenol	ND		0.401	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4,6-Trichlorophenol	ND		0.203	0.0495	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4-Dichlorophenol	ND		0.203	0.0807	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4-Dimethylphenol	ND		0.401	0.0588	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4-Dinitrophenol	ND		0.401	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-1012'
Date Collected: 03/02/23 14:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-6
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.203	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,6-Dinitrotoluene	ND		0.203	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Chloronaphthalene	ND		0.401	0.0926	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Chlorophenol	ND		0.203	0.0829	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Methylnaphthalene	ND		0.0810	0.0598	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Methylphenol	ND		0.401	0.0585	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Nitroaniline	ND		0.401	0.0381	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Nitrophenol	ND		0.203	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
3 & 4 Methylphenol	ND		0.401	0.0759	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
3,3'-Dichlorobenzidine	ND		0.401	0.0662	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
3-Nitroaniline	ND		0.401	0.0358	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4,6-Dinitro-2-methylphenol	ND		0.401	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Bromophenyl phenyl ether	ND		0.401	0.0453	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Chloro-3-methylphenol	ND		0.401	0.0784	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Chloroaniline	ND		0.203	0.0307	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Chlorophenyl phenyl ether	ND		0.401	0.0429	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Nitroaniline	ND		0.203	0.0640	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Nitrophenol	ND		0.401	0.140	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Acenaphthene	ND		0.0810	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Acenaphthylene	ND		0.0810	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Acetophenone	ND		0.203	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Aniline	ND		0.401	0.0307	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Anthracene	ND		0.0810	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Azobenzene/Diphenyldiazene	ND		0.401	0.0683	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzidine	ND		0.801	0.119	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[a]anthracene	ND		0.0810	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[a]pyrene	ND		0.0810	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[b]fluoranthene	ND		0.0810	0.0671	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[g,h,i]perylene	ND		0.0810	0.0632	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[k]fluoranthene	ND		0.0810	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzoic acid	ND	*- *1	0.401	0.276	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzyl alcohol	ND		0.401	0.0726	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Bis(2-chloroethoxy)methane	ND		0.401	0.0697	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Bis(2-chloroethyl)ether	ND		0.203	0.0663	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
bis (2-chloroisopropyl) ether	ND		0.203	0.0902	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Bis(2-ethylhexyl) phthalate	ND		0.203	0.0516	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Butyl benzyl phthalate	ND		0.401	0.0402	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Carbazole	ND		0.203	0.0530	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Chrysene	ND		0.0810	0.0458	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Dibenz(a,h)anthracene	ND		0.0810	0.0618	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Dibenzofuran	ND		0.203	0.0702	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Diethyl phthalate	ND		0.401	0.0439	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Dimethyl phthalate	ND		0.401	0.0522	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Di-n-butyl phthalate	ND		0.401	0.0429	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Di-n-octyl phthalate	ND		0.401	0.0662	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Fluoranthene	ND		0.0810	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Fluorene	ND		0.0810	0.0739	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Hexachlorobenzene	ND		0.203	0.0562	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Hexachlorobutadiene	ND		0.203	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1

Client Sample ID: 2023-MW-06-1012' **Lab Sample ID: 620-10117-6**
Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.203	0.0774	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Hexachloroethane	ND		0.203	0.0796	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Indeno[1,2,3-cd]pyrene	ND		0.0810	0.0687	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Isophorone	ND		0.203	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Naphthalene	ND		0.0810	0.0777	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Nitrobenzene	ND		0.203	0.0936	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
N-Nitrosodimethylamine	ND		0.203	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
N-Nitrosodi-n-propylamine	ND		0.203	0.0807	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
N-Nitrosodiphenylamine	ND		0.401	0.0511	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pentachloronitrobenzene	ND		0.401	0.0632	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pentachlorophenol	ND		0.401	0.164	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Phenanthrene	ND		0.0810	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Phenol	ND		0.401	0.0825	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pyrene	ND		0.0810	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pyridine	ND		0.401	0.0948	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:52*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.266	0.136	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.266	0.114	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Ethylbenzene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Methyl tert-butyl ether	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Naphthalene	ND		0.0532	0.0362	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
o-Xylene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Toluene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
C5-C8 Aliphatics (unadjusted)	ND		0.266	0.136	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
C9-C10 Aromatics	ND		0.266	0.0372	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
C9-C12 Aliphatics (unadjusted)	ND		0.266	0.114	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:11*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:11*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0239	0.0172	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1221	ND		0.0239	0.00707	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1232	ND		0.0239	0.00663	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1

Client Sample ID: 2023-MW-06-1012' **Lab Sample ID: 620-10117-6**
Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0239	0.00378	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1248	ND		0.0239	0.00748	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1254	ND		0.0239	0.0186	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1262	ND		0.0239	0.00558	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1260	ND		0.0239	0.00515	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1268	ND		0.0239	0.00510	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*
Tetrachloro-m-xylene	*93*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoroheptanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorononanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorodecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorotridecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorotetradecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorobutanesulfonic acid	ND		2.31	0.462	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorohexanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NEtFOSAA	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NMeFOSAA	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
10:2 FTS	ND		2.31	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoropentanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoroheptanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorononanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorodecanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctanesulfonamide	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorohexadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorobutanoic acid	ND		2.31	0.923	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoropentanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NMeFOSE	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NMeFOSA	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NEtFOSE	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NEtFOSA	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
HFPODA	ND		2.31	1.15	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
DONA	ND		3.46	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
9Cl-PF3ONS	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
11Cl-PF3OUdS	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorododecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
4:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoroundecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1

Client Sample ID: 2023-MW-06-1012' **Lab Sample ID: 620-10117-6**
Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
M2-8:2 FTS	*87*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
M2-6:2 FTS	*105*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C5 PFHxA	*103*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C9 PFNA	*106*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C6 PFDA	*100*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C2-PFDoDA	*100*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C2 PFTeDA	*124*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d3-NMeFOSAA	*59*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d5-NEtFOSAA	*74*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C4 PFBA	*103*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C5 PFPeA	*97*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d7-N-MeFOSE-M	*104*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d5-NEtPFOSA	*90*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:04*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.82	1.98	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Arsenic	**2.72**	**J**	3.49	1.63	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Barium	**17.7**		0.582	0.175	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Beryllium	**0.312**	**J**	0.582	0.116	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Cadmium	ND		0.582	0.116	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Chromium	**6.69**		1.75	0.408	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Lead	**2.11**		1.75	0.699	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Nickel	**2.43**		1.16	0.303	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Selenium	ND		5.82	1.75	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Silver	ND	^3+	1.16	0.466	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Thallium	ND		3.49	1.51	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Vanadium	**7.44**		1.16	0.501	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Zinc	**9.76**		2.33	0.932	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0736	0.0245	mg/Kg	☼	03/08/23 00:46	03/09/23 07:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-1012'
Date Collected: 03/02/23 14:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-6
Matrix: Solid
Percent Solids: 80.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.8		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	80.2		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0002'
Date Collected: 03/02/23 15:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-7
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00546	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Acetone	ND		0.0546	0.0122	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Acrylonitrile	ND		0.00546	0.00328	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Benzene	ND		0.00546	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromobenzene	ND		0.00546	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromochloromethane	ND		0.00546	0.00310	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromodichloromethane	ND		0.00546	0.00401	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromoform	ND		0.00546	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromomethane	ND	*+	0.0109	0.00680	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2-Butanone (MEK)	ND		0.0109	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
n-Butylbenzene	ND		0.0109	0.00585	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
sec-Butylbenzene	ND		0.00546	0.00440	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
tert-Butylbenzene	ND		0.00546	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Carbon disulfide	ND		0.0109	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Carbon tetrachloride	ND		0.00546	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chlorobenzene	ND		0.00546	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chloroethane	ND		0.0109	0.00401	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chloroform	ND		0.00546	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chloromethane	ND		0.0109	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2-Chlorotoluene	ND		0.00546	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
4-Chlorotoluene	ND		0.00546	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dibromo-3-Chloropropane	ND		0.0109	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Dibromochloromethane	ND		0.00546	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dibromoethane (EDB)	ND		0.00546	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Dibromomethane	ND		0.00546	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dichlorobenzene	ND		0.00546	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3-Dichlorobenzene	ND		0.00546	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,4-Dichlorobenzene	ND		0.00546	0.00518	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Dichlorodifluoromethane (Freon 12)	ND		0.0109	0.00293	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1-Dichloroethane	ND		0.00546	0.00370	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dichloroethane	ND		0.00546	0.00368	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1-Dichloroethene	ND		0.00546	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
cis-1,2-Dichloroethene	ND		0.00546	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
trans-1,2-Dichloroethene	ND		0.00546	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dichloropropane	ND		0.00546	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3-Dichloropropane	ND		0.00546	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2,2-Dichloropropane	ND		0.00546	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1-Dichloropropene	ND		0.00546	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
cis-1,3-Dichloropropene	ND		0.00546	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
trans-1,3-Dichloropropene	ND		0.00546	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethylbenzene	ND		0.00546	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Hexachlorobutadiene	ND		0.0109	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2-Hexanone (MBK)	ND		0.0109	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Isopropylbenzene	ND		0.00546	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
4-Isopropyltoluene	ND		0.00546	0.00536	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Methyl tert-butyl ether	ND		0.00546	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		0.0109	0.00353	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Methylene Chloride	ND		0.0109	0.00293	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Naphthalene	ND		0.00546	0.00494	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1

Client Sample ID: 2023-SB-08-0002' **Lab Sample ID: 620-10117-7**
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00546	0.00462	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Styrene	ND		0.00546	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,1,2-Tetrachloroethane	ND		0.00546	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,2,2-Tetrachloroethane	ND		0.00546	0.00500	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Tetrachloroethene	ND		0.00546	0.00304	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Toluene	ND		0.00546	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,3-Trichlorobenzene	ND		0.00546	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,4-Trichlorobenzene	ND		0.00546	0.00504	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3,5-Trichlorobenzene	ND		0.00546	0.00519	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,1-Trichloroethane	ND		0.00546	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,2-Trichloroethane	ND		0.00546	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Trichloroethene	ND		0.00546	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Trichlorofluoromethane (Freon 11)	ND		0.00546	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,3-Trichloropropane	ND		0.00546	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,4-Trimethylbenzene	ND		0.00546	0.00462	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3,5-Trimethylbenzene	ND		0.00546	0.00464	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Vinyl chloride	ND		0.00546	0.00333	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
m,p-Xylene	ND		0.00546	0.00746	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
o-Xylene	ND		0.00546	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Tetrahydrofuran	ND		0.0109	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethyl ether	ND		0.00546	0.00287	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Tert-amyl methyl ether	ND		0.00546	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethyl tert-butyl ether	ND		0.00546	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
di-Isopropyl ether	ND		0.00546	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
tert-Butanol	ND		0.109	0.0293	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,4-Dioxane	ND		0.109	0.0340	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
trans-1,4-Dichloro-2-butene	ND		0.0273	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethanol	ND		1.09	0.0677	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3-Dichloropropene, Total	ND		0.00546	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Xylenes, Total	ND		0.0164	0.00546	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.358	0.0637	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,2,4-Trichlorobenzene	ND		0.358	0.0820	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,2-Dichlorobenzene	ND		0.358	0.0690	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,3-Dichlorobenzene	ND		0.358	0.0867	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,4-Dichlorobenzene	ND		0.358	0.0843	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1-Methylnaphthalene	ND		0.0724	0.0608	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4,5-Trichlorophenol	ND		0.358	0.0410	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4,6-Trichlorophenol	ND		0.181	0.0443	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4-Dichlorophenol	ND		0.181	0.0722	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4-Dimethylphenol	ND		0.358	0.0525	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4-Dinitrophenol	ND		0.358	0.0942	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0002'
Date Collected: 03/02/23 15:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-7
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,6-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Chloronaphthalene	ND		0.358	0.0828	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Chlorophenol	ND		0.181	0.0741	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Methylnaphthalene	ND		0.0724	0.0535	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Methylphenol	ND		0.358	0.0523	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Nitroaniline	ND		0.358	0.0341	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Nitrophenol	ND		0.181	0.0644	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
3 & 4 Methylphenol	ND		0.358	0.0678	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
3,3'-Dichlorobenzidine	ND		0.358	0.0591	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
3-Nitroaniline	ND		0.358	0.0320	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4,6-Dinitro-2-methylphenol	ND		0.358	0.0644	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Bromophenyl phenyl ether	ND		0.358	0.0405	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Chloro-3-methylphenol	ND		0.358	0.0701	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Chloroaniline	ND		0.181	0.0275	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Chlorophenyl phenyl ether	ND		0.358	0.0383	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Nitroaniline	ND		0.181	0.0572	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Nitrophenol	ND		0.358	0.125	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Acenaphthene	ND		0.0724	0.0577	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Acenaphthylene	ND		0.0724	0.0475	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Acetophenone	ND		0.181	0.0442	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Aniline	ND		0.358	0.0275	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Anthracene	ND		0.0724	0.0419	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Azobenzene/Diphenyldiazene	ND		0.358	0.0611	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzidine	ND		0.716	0.106	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[a]anthracene	**0.102**		0.0724	0.0407	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[a]pyrene	**0.104**		0.0724	0.0518	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[b]fluoranthene	**0.114**		0.0724	0.0600	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[g,h,i]perylene	**0.0902**		0.0724	0.0565	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[k]fluoranthene	**0.0936**		0.0724	0.0563	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzoic acid	ND	*- *1	0.358	0.246	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzyl alcohol	ND		0.358	0.0649	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Bis(2-chloroethoxy)methane	ND		0.358	0.0623	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Bis(2-chloroethyl)ether	ND		0.181	0.0593	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
bis (2-chloroisopropyl) ether	ND		0.181	0.0806	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Bis(2-ethylhexyl) phthalate	ND		0.181	0.0461	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Butyl benzyl phthalate	ND		0.358	0.0359	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Carbazole	ND		0.181	0.0474	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Chrysene	**0.170**		0.0724	0.0409	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Dibenz(a,h)anthracene	ND		0.0724	0.0552	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Dibenzofuran	ND		0.181	0.0627	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Diethyl phthalate	ND		0.358	0.0393	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Dimethyl phthalate	ND		0.358	0.0467	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Di-n-butyl phthalate	ND		0.358	0.0383	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Di-n-octyl phthalate	ND		0.358	0.0591	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Fluoranthene	**0.240**		0.0724	0.0424	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Fluorene	ND		0.0724	0.0661	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Hexachlorobenzene	ND		0.181	0.0502	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Hexachlorobutadiene	ND		0.181	0.0904	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1

Client Sample ID: 2023-SB-08-0002' **Lab Sample ID: 620-10117-7**
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.181	0.0692	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Hexachloroethane	ND		0.181	0.0712	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Indeno[1,2,3-cd]pyrene	**0.0830**		0.0724	0.0614	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Isophorone	ND		0.181	0.0496	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Naphthalene	ND		0.0724	0.0695	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Nitrobenzene	ND		0.181	0.0837	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
N-Nitrosodimethylamine	ND		0.181	0.0475	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
N-Nitrosodi-n-propylamine	ND		0.181	0.0722	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
N-Nitrosodiphenylamine	ND		0.358	0.0457	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pentachloronitrobenzene	ND		0.358	0.0565	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pentachlorophenol	ND		0.358	0.147	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Phenanthrene	**0.125**		0.0724	0.0410	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Phenol	ND		0.358	0.0738	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pyrene	**0.236**		0.0724	0.0399	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pyridine	ND		0.358	0.0848	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
Phenol-d5 (Surr)	*57*		*15 - 110*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/13/23 11:00*	*03/16/23 01:18*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.263	0.135	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.263	0.113	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Ethylbenzene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Methyl tert-butyl ether	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Naphthalene	ND		0.0526	0.0358	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
o-Xylene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Toluene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
C5-C8 Aliphatics (unadjusted)	ND		0.263	0.135	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
C9-C10 Aromatics	ND		0.263	0.0368	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
C9-C12 Aliphatics (unadjusted)	ND		0.263	0.113	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:51*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0207	0.0149	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1221	ND		0.0207	0.00613	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1232	ND		0.0207	0.00575	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1

Client Sample ID: 2023-SB-08-0002' **Lab Sample ID: 620-10117-7**
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0207	0.00328	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1248	ND		0.0207	0.00648	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1254	ND		0.0207	0.0161	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1262	ND		0.0207	0.00483	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1260	ND		0.0207	0.00446	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1268	ND		0.0207	0.00442	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoroheptanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorononanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorodecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorotridecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorotetradecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorobutanesulfonic acid	ND		2.17	0.433	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorohexanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
10:2 FTS	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoropentanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoroheptanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorononanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorodecanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctanesulfonamide	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorohexadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorobutanoic acid	ND		2.17	0.867	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoropentanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NMeFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NMeFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NEtFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NEtFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
HFPODA	ND		2.17	1.08	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
DONA	ND		3.25	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
11Cl-PF3OUdS	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorododecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoroundecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1

Client Sample ID: 2023-SB-08-0002' **Lab Sample ID: 620-10117-7**
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*80*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
M2-6:2 FTS	*98*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C5 PFHxA	*94*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C4 PFHpA	*99*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C3 PFBS	*116*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C3 PFHxS	*113*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C8 PFOS	*120*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d3-NMeFOSAA	*36*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d5-NEtFOSAA	*47*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C8 FOSA	*90*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C4 PFBA	*88*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C5 PFPeA	*81*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d9-N-EtFOSE-M	*98*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d5-NEtPFOSA	*90*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:15*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.26**		4.72	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Arsenic	**15.2**		2.83	1.32	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Barium	**193**		4.72	1.41	mg/Kg	☼	03/07/23 13:12	03/10/23 09:14	10
Beryllium	**0.904**		0.472	0.0943	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Cadmium	**0.132**	**J**	0.472	0.0943	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Chromium	**15.7**		1.41	0.330	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Lead	**36.7**		1.41	0.566	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Nickel	**36.5**		0.943	0.245	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Selenium	ND		4.72	1.41	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Silver	ND	^3+	0.943	0.377	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Thallium	ND		2.83	1.23	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Vanadium	**33.2**		0.943	0.406	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Zinc	**149**		1.89	0.755	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0635	0.0212	mg/Kg	☼	03/07/23 13:21	03/08/23 11:55	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0002'
Date Collected: 03/02/23 15:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-7
Matrix: Solid
Percent Solids: 91.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	91.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0204'
Date Collected: 03/02/23 15:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-8
Matrix: Solid
Percent Solids: 96.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00523	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Acetone	ND		0.0523	0.0117	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Acrylonitrile	ND		0.00523	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Benzene	ND		0.00523	0.00349	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromobenzene	ND		0.00523	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromochloromethane	ND		0.00523	0.00297	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromodichloromethane	ND		0.00523	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromoform	ND		0.00523	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromomethane	ND		0.0105	0.00651	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2-Butanone (MEK)	ND		0.0105	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
n-Butylbenzene	ND		0.0105	0.00560	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
sec-Butylbenzene	ND		0.00523	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
tert-Butylbenzene	ND		0.00523	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Carbon disulfide	ND		0.0105	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Carbon tetrachloride	ND		0.00523	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chlorobenzene	ND		0.00523	0.00383	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chloroethane	ND		0.0105	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chloroform	ND		0.00523	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chloromethane	ND		0.0105	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2-Chlorotoluene	ND		0.00523	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
4-Chlorotoluene	ND		0.00523	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00443	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Dibromochloromethane	ND		0.00523	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dibromoethane (EDB)	ND		0.00523	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Dibromomethane	ND		0.00523	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dichlorobenzene	ND		0.00523	0.00485	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3-Dichlorobenzene	ND		0.00523	0.00419	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,4-Dichlorobenzene	ND		0.00523	0.00495	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1-Dichloroethane	ND		0.00523	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dichloroethane	ND		0.00523	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1-Dichloroethene	ND		0.00523	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
cis-1,2-Dichloroethene	ND		0.00523	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
trans-1,2-Dichloroethene	ND		0.00523	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dichloropropane	ND		0.00523	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3-Dichloropropane	ND		0.00523	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2,2-Dichloropropane	ND		0.00523	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1-Dichloropropene	ND		0.00523	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
cis-1,3-Dichloropropene	ND		0.00523	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
trans-1,3-Dichloropropene	ND		0.00523	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethylbenzene	ND		0.00523	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Hexachlorobutadiene	ND		0.0105	0.00526	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2-Hexanone (MBK)	ND		0.0105	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Isopropylbenzene	ND		0.00523	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
4-Isopropyltoluene	ND		0.00523	0.00513	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Methyl tert-butyl ether	ND		0.00523	0.00301	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00338	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Methylene Chloride	ND		0.0105	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Naphthalene	ND		0.00523	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00523	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Styrene	ND		0.00523	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,1,2-Tetrachloroethane	ND		0.00523	0.00392	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,2,2-Tetrachloroethane	ND		0.00523	0.00479	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Tetrachloroethene	ND		0.00523	0.00291	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Toluene	ND		0.00523	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,3-Trichlorobenzene	ND		0.00523	0.00441	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,4-Trichlorobenzene	ND		0.00523	0.00482	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3,5-Trichlorobenzene	ND		0.00523	0.00496	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,1-Trichloroethane	ND		0.00523	0.00356	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,2-Trichloroethane	ND		0.00523	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Trichloroethene	ND		0.00523	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Trichlorofluoromethane (Freon 11)	ND		0.00523	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,3-Trichloropropane	ND		0.00523	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,4-Trimethylbenzene	ND		0.00523	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3,5-Trimethylbenzene	ND		0.00523	0.00444	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Vinyl chloride	ND		0.00523	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
m,p-Xylene	ND		0.00523	0.00714	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
o-Xylene	ND		0.00523	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Tetrahydrofuran	ND		0.0105	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethyl ether	ND		0.00523	0.00275	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Tert-amyl methyl ether	ND		0.00523	0.00413	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethyl tert-butyl ether	ND		0.00523	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
di-Isopropyl ether	ND		0.00523	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
tert-Butanol	ND		0.105	0.0280	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,4-Dioxane	ND		0.105	0.0325	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00386	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethanol	ND		1.05	0.0648	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3-Dichloropropene, Total	ND		0.00523	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Xylenes, Total	ND		0.0157	0.00523	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.337	0.0600	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,2,4-Trichlorobenzene	ND		0.337	0.0773	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,2-Dichlorobenzene	ND		0.337	0.0650	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,3-Dichlorobenzene	ND		0.337	0.0816	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,4-Dichlorobenzene	ND		0.337	0.0794	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1-Methylnaphthalene	ND		0.0682	0.0572	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4,5-Trichlorophenol	ND		0.337	0.0386	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4,6-Trichlorophenol	ND		0.171	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4-Dichlorophenol	ND		0.171	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4-Dimethylphenol	ND		0.337	0.0495	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4-Dinitrophenol	ND		0.337	0.0887	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.171	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,6-Dinitrotoluene	ND		0.171	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Chloronaphthalene	ND		0.337	0.0780	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Chlorophenol	ND		0.171	0.0698	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Methylnaphthalene	ND		0.0682	0.0504	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Methylphenol	ND		0.337	0.0493	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Nitroaniline	ND		0.337	0.0321	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Nitrophenol	ND		0.171	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
3 & 4 Methylphenol	ND		0.337	0.0639	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
3,3'-Dichlorobenzidine	ND		0.337	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
3-Nitroaniline	ND		0.337	0.0301	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4,6-Dinitro-2-methylphenol	ND		0.337	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Bromophenyl phenyl ether	ND		0.337	0.0381	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Chloro-3-methylphenol	ND		0.337	0.0660	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Chloroaniline	ND		0.171	0.0259	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Chlorophenyl phenyl ether	ND		0.337	0.0361	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Nitroaniline	ND		0.171	0.0539	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Nitrophenol	ND		0.337	0.118	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Acenaphthene	ND		0.0682	0.0544	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Acenaphthylene	ND		0.0682	0.0448	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Acetophenone	ND		0.171	0.0416	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Aniline	ND		0.337	0.0259	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Anthracene	ND		0.0682	0.0394	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Azobenzene/Diphenyldiazene	ND		0.337	0.0575	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzidine	ND		0.674	0.0998	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[a]anthracene	ND		0.0682	0.0383	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[a]pyrene	ND		0.0682	0.0487	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[b]fluoranthene	ND		0.0682	0.0565	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[g,h,i]perylene	ND		0.0682	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[k]fluoranthene	ND		0.0682	0.0530	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzoic acid	ND	*- *1	0.337	0.232	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzyl alcohol	ND		0.337	0.0611	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Bis(2-chloroethoxy)methane	ND		0.337	0.0587	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Bis(2-chloroethyl)ether	ND		0.171	0.0558	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
bis (2-chloroisopropyl) ether	ND		0.171	0.0759	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Bis(2-ethylhexyl) phthalate	ND		0.171	0.0434	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Butyl benzyl phthalate	ND		0.337	0.0338	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Carbazole	ND		0.171	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Chrysene	ND		0.0682	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Dibenz(a,h)anthracene	ND		0.0682	0.0520	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Dibenzofuran	ND		0.171	0.0591	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Diethyl phthalate	ND		0.337	0.0370	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Dimethyl phthalate	ND		0.337	0.0439	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Di-n-butyl phthalate	ND		0.337	0.0361	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Di-n-octyl phthalate	ND		0.337	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Fluoranthene	ND		0.0682	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Fluorene	ND		0.0682	0.0622	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Hexachlorobenzene	ND		0.171	0.0473	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Hexachlorobutadiene	ND		0.171	0.0851	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.171	0.0652	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Hexachloroethane	ND		0.171	0.0670	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Indeno[1,2,3-cd]pyrene	ND		0.0682	0.0578	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Isophorone	ND		0.171	0.0467	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Naphthalene	ND		0.0682	0.0654	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Nitrobenzene	ND		0.171	0.0788	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
N-Nitrosodimethylamine	ND		0.171	0.0448	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
N-Nitrosodi-n-propylamine	ND		0.171	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
N-Nitrosodiphenylamine	ND		0.337	0.0430	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pentachloronitrobenzene	ND		0.337	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pentachlorophenol	ND		0.337	0.138	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Phenanthrene	ND		0.0682	0.0386	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Phenol	ND		0.337	0.0695	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pyrene	ND		0.0682	0.0376	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pyridine	ND		0.337	0.0798	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
Nitrobenzene-d5 (Surr)	*94*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:49*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.277	0.142	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.277	0.119	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Ethylbenzene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Methyl tert-butyl ether	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Naphthalene	ND		0.0555	0.0377	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
o-Xylene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Toluene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
C5-C8 Aliphatics (unadjusted)	ND		0.277	0.142	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
C9-C10 Aromatics	ND		0.277	0.0388	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
C9-C12 Aliphatics (unadjusted)	ND		0.277	0.119	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 20:30*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 20:30*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0197	0.0142	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1221	ND		0.0197	0.00582	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1232	ND		0.0197	0.00546	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0197	0.00311	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1248	ND		0.0197	0.00616	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1254	ND		0.0197	0.0153	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1262	ND		0.0197	0.00459	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1260	ND		0.0197	0.00424	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1268	ND		0.0197	0.00420	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*
Tetrachloro-m-xylene	*111*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*
DCB Decachlorobiphenyl (Surr)	*124*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoroheptanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorononanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorodecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorotridecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorotetradecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorobutanesulfonic acid	ND		1.95	0.390	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorohexanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NEtFOSAA	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NMeFOSAA	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
10:2 FTS	ND		1.95	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoropentanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoroheptanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorononanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorodecanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctanesulfonamide	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorohexadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorobutanoic acid	ND		1.95	0.781	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoropentanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NMeFOSE	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NMeFOSA	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NEtFOSE	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NEtFOSA	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
HFPODA	ND		1.95	0.976	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
DONA	ND		2.93	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
9Cl-PF3ONS	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
11Cl-PF3OUdS	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorododecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
4:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoroundecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
8:2 Fluorotelomer sulfonic acid	ND		2.93	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*80*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
M2-8:2 FTS	*94*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
M2-6:2 FTS	*100*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C5 PFHxA	*97*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C4 PFHpA	*98*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C9 PFNA	*97*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C3 PFBS	*112*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C8 PFOS	*112*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d3-NMeFOSAA	*38*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d5-NEtFOSAA	*53*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C8 FOSA	*82*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C5 PFPeA	*83*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d9-N-EtFOSE-M	*89*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d5-NEtPFOSA	*86*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C3 HFPO-DA	*77*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:26*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.20	1.43	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Arsenic	**3.57**		2.52	1.18	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Barium	**17.0**		0.420	0.126	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Beryllium	**0.250**	**J**	0.420	0.0841	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Cadmium	ND		0.420	0.0841	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Chromium	**5.87**		1.26	0.294	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Lead	**2.56**		1.26	0.505	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Nickel	**3.40**		0.841	0.219	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Selenium	ND		4.20	1.26	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Silver	ND	^3+	0.841	0.336	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Thallium	ND		2.52	1.09	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Vanadium	**9.21**		0.841	0.362	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Zinc	**15.8**	**^5-**	1.68	0.673	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0591	0.0197	mg/Kg	☼	03/07/23 20:58	03/08/23 12:19	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0204'
Date Collected: 03/02/23 15:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-8
Matrix: Solid
Percent Solids: 96.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	96.7		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0406'
Date Collected: 03/02/23 15:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-9
Matrix: Solid
Percent Solids: 96.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00441	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Acetone	**0.0161**	**J B**	0.0441	0.00989	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Acrylonitrile	ND		0.00441	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Benzene	ND		0.00441	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromobenzene	ND		0.00441	0.00294	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromochloromethane	ND		0.00441	0.00251	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromodichloromethane	ND		0.00441	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromoform	ND		0.00441	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromomethane	ND	*+	0.00883	0.00550	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2-Butanone (MEK)	ND		0.00883	0.00351	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
n-Butylbenzene	ND		0.00883	0.00473	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
sec-Butylbenzene	ND		0.00441	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
tert-Butylbenzene	ND		0.00441	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Carbon disulfide	ND		0.00883	0.00310	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Carbon tetrachloride	ND		0.00441	0.00278	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chlorobenzene	ND		0.00441	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chloroethane	ND		0.00883	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chloroform	ND		0.00441	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chloromethane	ND		0.00883	0.00339	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2-Chlorotoluene	ND		0.00441	0.00351	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
4-Chlorotoluene	ND		0.00441	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dibromo-3-Chloropropane	ND		0.00883	0.00374	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Dibromochloromethane	ND		0.00441	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dibromoethane (EDB)	ND		0.00441	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Dibromomethane	ND		0.00441	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dichlorobenzene	ND		0.00441	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3-Dichlorobenzene	ND		0.00441	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,4-Dichlorobenzene	ND		0.00441	0.00418	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Dichlorodifluoromethane (Freon 12)	ND		0.00883	0.00237	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1-Dichloroethane	ND		0.00441	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dichloroethane	ND		0.00441	0.00298	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1-Dichloroethene	ND		0.00441	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
cis-1,2-Dichloroethene	ND		0.00441	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
trans-1,2-Dichloroethene	ND		0.00441	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dichloropropane	ND		0.00441	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3-Dichloropropane	ND		0.00441	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2,2-Dichloropropane	ND		0.00441	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1-Dichloropropene	ND		0.00441	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
cis-1,3-Dichloropropene	ND		0.00441	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
trans-1,3-Dichloropropene	ND		0.00441	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethylbenzene	ND		0.00441	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Hexachlorobutadiene	ND		0.00883	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2-Hexanone (MBK)	ND		0.00883	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Isopropylbenzene	ND		0.00441	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
4-Isopropyltoluene	ND		0.00441	0.00433	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Methyl tert-butyl ether	ND		0.00441	0.00254	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.00883	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Methylene Chloride	ND		0.00883	0.00237	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Naphthalene	ND		0.00441	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Styrene	ND		0.00441	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,1,2-Tetrachloroethane	ND		0.00441	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.00441	0.00404	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Tetrachloroethene	ND		0.00441	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Toluene	ND		0.00441	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,3-Trichlorobenzene	ND		0.00441	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,4-Trichlorobenzene	ND		0.00441	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3,5-Trichlorobenzene	ND		0.00441	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,1-Trichloroethane	ND		0.00441	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,2-Trichloroethane	ND		0.00441	0.00333	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Trichloroethene	ND		0.00441	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00441	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,3-Trichloropropane	ND		0.00441	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,4-Trimethylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3,5-Trimethylbenzene	ND		0.00441	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Vinyl chloride	ND		0.00441	0.00269	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
m,p-Xylene	ND		0.00441	0.00603	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
o-Xylene	ND		0.00441	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Tetrahydrofuran	ND		0.00883	0.00223	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethyl ether	ND		0.00441	0.00232	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Tert-amyl methyl ether	ND		0.00441	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethyl tert-butyl ether	ND		0.00441	0.00290	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
di-Isopropyl ether	ND		0.00441	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
tert-Butanol	ND		0.0883	0.0237	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,4-Dioxane	ND		0.0883	0.0275	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
trans-1,4-Dichloro-2-butene	ND		0.0221	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethanol	ND		0.883	0.0547	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3-Dichloropropene, Total	ND		0.00441	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Xylenes, Total	ND		0.0132	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.679	0.121	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,2,4-Trichlorobenzene	ND		0.679	0.156	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,2-Dichlorobenzene	ND		0.679	0.131	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,3-Dichlorobenzene	ND		0.679	0.164	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,4-Dichlorobenzene	ND		0.679	0.160	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1-Methylnaphthalene	ND		0.137	0.115	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4,5-Trichlorophenol	ND		0.679	0.0778	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4,6-Trichlorophenol	ND		0.344	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4-Dichlorophenol	ND		0.344	0.137	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4-Dimethylphenol	ND		0.679	0.0996	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4-Dinitrophenol	ND		0.679	0.179	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.344	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,6-Dinitrotoluene	ND		0.344	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Chloronaphthalene	ND		0.679	0.157	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Chlorophenol	ND		0.344	0.141	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Methylnaphthalene	ND		0.137	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Methylphenol	ND		0.679	0.0992	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Nitroaniline	ND		0.679	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Nitrophenol	ND		0.344	0.122	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
3 & 4 Methylphenol	ND		0.679	0.129	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
3,3'-Dichlorobenzidine	ND		0.679	0.112	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
3-Nitroaniline	ND		0.679	0.0607	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4,6-Dinitro-2-methylphenol	ND		0.679	0.122	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Bromophenyl phenyl ether	ND		0.679	0.0768	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Chloro-3-methylphenol	ND		0.679	0.133	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Chloroaniline	ND		0.344	0.0521	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Chlorophenyl phenyl ether	ND		0.679	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Nitroaniline	ND		0.344	0.108	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Nitrophenol	ND		0.679	0.237	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Acenaphthene	ND		0.137	0.109	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Acenaphthylene	ND		0.137	0.0901	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Acetophenone	ND		0.344	0.0838	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Aniline	ND		0.679	0.0521	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Anthracene	ND		0.137	0.0794	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Azobenzene/Diphenyldiazene	ND		0.679	0.116	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzidine	ND		1.36	0.201	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[a]anthracene	ND		0.137	0.0772	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[a]pyrene	ND		0.137	0.0982	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[b]fluoranthene	ND		0.137	0.114	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[g,h,i]perylene	ND		0.137	0.107	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[k]fluoranthene	ND		0.137	0.107	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzoic acid	ND	*- *1	0.679	0.467	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzyl alcohol	ND		0.679	0.123	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Bis(2-chloroethoxy)methane	ND		0.679	0.118	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Bis(2-chloroethyl)ether	ND		0.344	0.112	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
bis (2-chloroisopropyl) ether	ND		0.344	0.153	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Bis(2-ethylhexyl) phthalate	ND		0.344	0.0875	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Butyl benzyl phthalate	ND		0.679	0.0681	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Carbazole	ND		0.344	0.0899	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Chrysene	ND		0.137	0.0776	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Dibenz(a,h)anthracene	ND		0.137	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Dibenzofuran	ND		0.344	0.119	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Diethyl phthalate	ND		0.679	0.0745	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Dimethyl phthalate	ND		0.679	0.0885	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Di-n-butyl phthalate	ND		0.679	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Di-n-octyl phthalate	ND		0.679	0.112	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Fluoranthene	ND		0.137	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Fluorene	ND		0.137	0.125	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Hexachlorobenzene	ND		0.344	0.0953	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Hexachlorobutadiene	ND		0.344	0.171	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1

Client Sample ID: 2023-SB-08-0406'
Date Collected: 03/02/23 15:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-9
Matrix: Solid
Percent Solids: 96.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.344	0.131	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Hexachloroethane	ND		0.344	0.135	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Indeno[1,2,3-cd]pyrene	ND		0.137	0.116	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Isophorone	ND		0.344	0.0941	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Naphthalene	ND		0.137	0.132	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Nitrobenzene	ND		0.344	0.159	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
N-Nitrosodimethylamine	ND		0.344	0.0901	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
N-Nitrosodi-n-propylamine	ND		0.344	0.137	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
N-Nitrosodiphenylamine	ND		0.679	0.0866	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pentachloronitrobenzene	ND		0.679	0.107	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pentachlorophenol	ND		0.679	0.278	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Phenanthrene	ND		0.137	0.0778	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Phenol	ND		0.679	0.140	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pyrene	ND		0.137	0.0757	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pyridine	ND		0.679	0.161	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
Phenol-d5 (Surr)	*83*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
Terphenyl-d14	*80*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.302	0.155	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.302	0.129	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Ethylbenzene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Methyl tert-butyl ether	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
m,p-Xylene	ND		0.121	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Naphthalene	ND		0.0604	0.0411	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
o-Xylene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Toluene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
C5-C8 Aliphatics (unadjusted)	ND		0.302	0.155	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
C9-C10 Aromatics	ND		0.302	0.0423	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
C9-C12 Aliphatics (unadjusted)	ND		0.302	0.129	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:09*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:09*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0203	0.0146	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1221	ND		0.0203	0.00600	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1232	ND		0.0203	0.00562	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0203	0.00321	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1248	ND		0.0203	0.00635	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1254	ND		0.0203	0.0158	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1262	ND		0.0203	0.00473	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1260	ND		0.0203	0.00437	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1268	ND		0.0203	0.00433	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoroheptanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorononanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorodecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorotridecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorotetradecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorobutanesulfonic acid	ND		2.06	0.412	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorohexanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NEtFOSAA	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NMeFOSAA	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
10:2 FTS	ND		2.06	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoropentanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoroheptanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorononanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorodecanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctanesulfonamide	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorohexadecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctadecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorobutanoic acid	ND		2.06	0.824	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoropentanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NMeFOSE	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NMeFOSA	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NEtFOSE	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NEtFOSA	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
HFPODA	ND		2.06	1.03	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
DONA	ND		3.09	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
9Cl-PF3ONS	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
11Cl-PF3OUdS	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorododecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
4:2 Fluorotelomer sulfonic acid	ND		2.06	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoroundecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.06	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
8:2 Fluorotelomer sulfonic acid	ND		3.09	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
M2-8:2 FTS	*80*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C4 PFHpA	*96*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C8 PFOA	*103*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C9 PFNA	*102*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C6 PFDA	*98*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C7 PFUnA	*113*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C2 PFTeDA	*119*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C3 PFBS	*110*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d3-NMeFOSAA	*17*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C8 FOSA	*94*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C4 PFBA	*87*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d7-N-MeFOSE-M	*97*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d9-N-EtFOSE-M	*100*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:37*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.64	1.58	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Arsenic	**2.03**	**J**	2.79	1.30	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Barium	**12.7**		0.464	0.139	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Beryllium	**0.202**	**J**	0.464	0.0928	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Cadmium	ND		0.464	0.0928	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Chromium	**2.87**		1.39	0.325	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Lead	**1.67**		1.39	0.557	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Nickel	**1.54**		0.928	0.241	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Selenium	ND		4.64	1.39	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Silver	ND	^3+	0.928	0.371	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Thallium	ND		2.79	1.21	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Vanadium	**4.25**		0.928	0.399	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Zinc	**7.63**		1.86	0.743	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0585	0.0195	mg/Kg	☼	03/08/23 00:46	03/09/23 07:58	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0406'
Date Collected: 03/02/23 15:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-9
Matrix: Solid
Percent Solids: 96.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.8		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	96.2		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0608'
Date Collected: 03/02/23 15:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-10
Matrix: Solid
Percent Solids: 87.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00632	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Acetone	ND		0.0632	0.0142	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Acrylonitrile	ND		0.00632	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Benzene	ND		0.00632	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromobenzene	ND		0.00632	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromochloromethane	ND		0.00632	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromodichloromethane	ND		0.00632	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromoform	ND		0.00632	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromomethane	ND		0.0126	0.00787	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2-Butanone (MEK)	ND		0.0126	0.00503	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
n-Butylbenzene	ND		0.0126	0.00677	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
sec-Butylbenzene	ND		0.00632	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
tert-Butylbenzene	ND		0.00632	0.00498	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Carbon disulfide	ND		0.0126	0.00444	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Carbon tetrachloride	ND		0.00632	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chlorobenzene	ND		0.00632	0.00463	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chloroethane	ND		0.0126	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chloroform	ND		0.00632	0.00425	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chloromethane	ND		0.0126	0.00485	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2-Chlorotoluene	ND		0.00632	0.00503	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
4-Chlorotoluene	ND		0.00632	0.00548	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0126	0.00536	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Dibromochloromethane	ND		0.00632	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dibromoethane (EDB)	ND		0.00632	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Dibromomethane	ND		0.00632	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dichlorobenzene	ND		0.00632	0.00586	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3-Dichlorobenzene	ND		0.00632	0.00507	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,4-Dichlorobenzene	ND		0.00632	0.00599	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0126	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1-Dichloroethane	ND		0.00632	0.00428	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dichloroethane	ND		0.00632	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1-Dichloroethene	ND		0.00632	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
cis-1,2-Dichloroethene	ND		0.00632	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
trans-1,2-Dichloroethene	ND		0.00632	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dichloropropane	ND		0.00632	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3-Dichloropropane	ND		0.00632	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2,2-Dichloropropane	ND		0.00632	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1-Dichloropropene	ND		0.00632	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
cis-1,3-Dichloropropene	ND		0.00632	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
trans-1,3-Dichloropropene	ND		0.00632	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethylbenzene	ND		0.00632	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Hexachlorobutadiene	ND		0.0126	0.00636	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2-Hexanone (MBK)	ND		0.0126	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Isopropylbenzene	ND		0.00632	0.00478	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
4-Isopropyltoluene	ND		0.00632	0.00620	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Methyl tert-butyl ether	ND		0.00632	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0126	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Methylene Chloride	ND		0.0126	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Naphthalene	ND		0.00632	0.00571	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00632	0.00535	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Styrene	ND		0.00632	0.00489	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,1,2-Tetrachloroethane	ND		0.00632	0.00474	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,2,2-Tetrachloroethane	ND		0.00632	0.00579	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Tetrachloroethene	ND		0.00632	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Toluene	ND		0.00632	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,3-Trichlorobenzene	ND		0.00632	0.00533	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,4-Trichlorobenzene	ND		0.00632	0.00583	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3,5-Trichlorobenzene	ND		0.00632	0.00600	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,1-Trichloroethane	ND		0.00632	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,2-Trichloroethane	ND		0.00632	0.00476	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Trichloroethene	ND		0.00632	0.00425	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00632	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,3-Trichloropropane	ND		0.00632	0.00561	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,4-Trimethylbenzene	ND		0.00632	0.00535	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3,5-Trimethylbenzene	ND		0.00632	0.00537	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Vinyl chloride	ND		0.00632	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
m,p-Xylene	ND		0.00632	0.00863	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
o-Xylene	ND		0.00632	0.00461	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Tetrahydrofuran	ND		0.0126	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethyl ether	ND		0.00632	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Tert-amyl methyl ether	ND		0.00632	0.00499	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethyl tert-butyl ether	ND		0.00632	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
di-Isopropyl ether	ND		0.00632	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
tert-Butanol	ND		0.126	0.0339	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,4-Dioxane	ND		0.126	0.0393	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
trans-1,4-Dichloro-2-butene	ND		0.0316	0.00466	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethanol	ND		1.26	0.0783	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3-Dichloropropene, Total	ND		0.00632	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Xylenes, Total	ND		0.0190	0.00632	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.371	0.0660	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,2,4-Trichlorobenzene	ND		0.371	0.0850	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,2-Dichlorobenzene	ND		0.371	0.0715	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,3-Dichlorobenzene	ND		0.371	0.0899	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,4-Dichlorobenzene	ND		0.371	0.0874	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1-Methylnaphthalene	ND		0.0750	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4,5-Trichlorophenol	ND		0.371	0.0425	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4,6-Trichlorophenol	ND		0.188	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4-Dichlorophenol	ND		0.188	0.0748	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4-Dimethylphenol	ND		0.371	0.0544	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4-Dinitrophenol	ND		0.371	0.0976	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0608'
Date Collected: 03/02/23 15:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-10
Matrix: Solid
Percent Solids: 87.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,6-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Chloronaphthalene	ND		0.371	0.0858	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Chlorophenol	ND		0.188	0.0768	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Methylnaphthalene	ND		0.0750	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Methylphenol	ND		0.371	0.0542	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Nitroaniline	ND		0.371	0.0353	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Nitrophenol	ND		0.188	0.0667	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
3 & 4 Methylphenol	ND		0.371	0.0703	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
3,3'-Dichlorobenzidine	ND		0.371	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
3-Nitroaniline	ND		0.371	0.0332	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4,6-Dinitro-2-methylphenol	ND		0.371	0.0667	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Bromophenyl phenyl ether	ND		0.371	0.0420	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Chloro-3-methylphenol	ND		0.371	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Chloroaniline	ND		0.188	0.0285	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Chlorophenyl phenyl ether	ND		0.371	0.0397	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Nitroaniline	ND		0.188	0.0593	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Nitrophenol	ND		0.371	0.129	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Acenaphthene	ND		0.0750	0.0598	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Acenaphthylene	ND		0.0750	0.0493	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Acetophenone	ND		0.188	0.0458	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Aniline	ND		0.371	0.0285	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Anthracene	ND		0.0750	0.0434	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Azobenzene/Diphenyldiazene	ND		0.371	0.0633	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzidine	ND		0.742	0.110	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[a]anthracene	ND		0.0750	0.0422	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[a]pyrene	ND		0.0750	0.0537	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[b]fluoranthene	ND		0.0750	0.0622	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[g,h,i]perylene	ND		0.0750	0.0586	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[k]fluoranthene	ND		0.0750	0.0584	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzoic acid	ND	*- *1	0.371	0.255	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzyl alcohol	ND		0.371	0.0673	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Bis(2-chloroethoxy)methane	ND		0.371	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Bis(2-chloroethyl)ether	ND		0.188	0.0614	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
bis (2-chloroisopropyl) ether	ND		0.188	0.0836	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Bis(2-ethylhexyl) phthalate	ND		0.188	0.0478	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Butyl benzyl phthalate	ND		0.371	0.0372	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Carbazole	ND		0.188	0.0492	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Chrysene	ND		0.0750	0.0424	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Dibenz(a,h)anthracene	ND		0.0750	0.0573	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Dibenzofuran	ND		0.188	0.0650	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Diethyl phthalate	ND		0.371	0.0407	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Dimethyl phthalate	ND		0.371	0.0484	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Di-n-butyl phthalate	ND		0.371	0.0397	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Di-n-octyl phthalate	ND		0.371	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Fluoranthene	ND		0.0750	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Fluorene	ND		0.0750	0.0685	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Hexachlorobenzene	ND		0.188	0.0521	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Hexachlorobutadiene	ND		0.188	0.0937	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.188	0.0718	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Hexachloroethane	ND		0.188	0.0738	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0750	0.0637	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Isophorone	ND		0.188	0.0514	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Naphthalene	ND		0.0750	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Nitrobenzene	ND		0.188	0.0867	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
N-Nitrosodimethylamine	ND		0.188	0.0493	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
N-Nitrosodi-n-propylamine	ND		0.188	0.0748	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
N-Nitrosodiphenylamine	ND		0.371	0.0474	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pentachloronitrobenzene	ND		0.371	0.0586	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pentachlorophenol	ND		0.371	0.152	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Phenanthrene	ND		0.0750	0.0425	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Phenol	ND		0.371	0.0765	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pyrene	ND		0.0750	0.0414	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pyridine	ND		0.371	0.0878	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
Phenol-d5 (Surr)	*90*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:45*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.334	0.171	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.334	0.143	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Ethylbenzene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Methyl tert-butyl ether	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
m,p-Xylene	ND		0.134	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Naphthalene	ND		0.0669	0.0455	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
o-Xylene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Toluene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.334	0.171	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
C9-C10 Aromatics	ND		0.334	0.0468	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.334	0.143	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:49*	*1*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1221	ND		0.0228	0.00674	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1232	ND		0.0228	0.00632	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00361	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1248	ND		0.0228	0.00713	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1254	ND		0.0228	0.0178	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1260	ND		0.0228	0.00491	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1268	ND		0.0228	0.00486	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoroheptanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorononanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorodecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorotridecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorotetradecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorobutanesulfonic acid	ND		2.21	0.442	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorohexanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NEtFOSAA	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NMeFOSAA	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
10:2 FTS	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoropentanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoroheptanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorononanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorodecanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctanesulfonamide	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorohexadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorobutanoic acid	ND		2.21	0.883	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoropentanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NMeFOSE	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NMeFOSA	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NEtFOSE	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NEtFOSA	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
HFPODA	ND		2.21	1.10	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
DONA	ND		3.31	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
9Cl-PF3ONS	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
11Cl-PF3OUdS	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorododecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
4:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoroundecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
8:2 Fluorotelomer sulfonic acid	ND		3.31	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
M2-8:2 FTS	*84*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C5 PFHxA	*105*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C8 PFOA	*112*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C9 PFNA	*104*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C6 PFDA	*102*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C7 PFUnA	*114*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C8 PFOS	*114*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d3-NMeFOSAA	*23*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d5-NEtFOSAA	*30*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C5 PFPeA	*104*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d3-NMePFOSA	*99*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d5-NEtPFOSA	*108*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C3 HFPO-DA	*106*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.45	1.51	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Arsenic	**7.29**		2.67	1.25	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Barium	**42.7**		0.445	0.134	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Beryllium	**0.731**		0.445	0.0890	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Cadmium	ND		0.445	0.0890	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Chromium	**12.3**		1.34	0.312	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Lead	**4.75**		1.34	0.534	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Nickel	**4.74**		0.890	0.231	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Selenium	ND		4.45	1.34	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Silver	ND	^3+	0.890	0.356	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Thallium	ND		2.67	1.16	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Vanadium	**23.0**		0.890	0.383	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Zinc	**24.2**		1.78	0.712	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0689	0.0230	mg/Kg	☼	03/08/23 00:46	03/09/23 08:00	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0608'
Date Collected: 03/02/23 15:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-10
Matrix: Solid
Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.9		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.1		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0810'
Date Collected: 03/02/23 15:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-11
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Acetone	ND	*3	0.0509	0.0114	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Acrylonitrile	ND	*3	0.00509	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Benzene	ND	*3	0.00509	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromobenzene	ND	*3	0.00509	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromochloromethane	ND	*3	0.00509	0.00289	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromodichloromethane	ND	*3	0.00509	0.00374	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromoform	ND	*3	0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromomethane	ND	*3	0.0102	0.00635	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2-Butanone (MEK)	ND	*3	0.0102	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
n-Butylbenzene	ND	*3	0.0102	0.00546	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
sec-Butylbenzene	ND	*3	0.00509	0.00410	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
tert-Butylbenzene	ND	*3	0.00509	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Carbon disulfide	ND	*3	0.0102	0.00358	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Carbon tetrachloride	ND	*3	0.00509	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chlorobenzene	ND	*3	0.00509	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chloroethane	ND	*3	0.0102	0.00374	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chloroform	ND	*3	0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chloromethane	ND	*3	0.0102	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2-Chlorotoluene	ND	*3	0.00509	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
4-Chlorotoluene	ND	*3	0.00509	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0102	0.00432	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Dibromochloromethane	ND	*3	0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dibromoethane (EDB)	ND	*3	0.00509	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Dibromomethane	ND	*3	0.00509	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dichlorobenzene	ND	*3	0.00509	0.00473	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3-Dichlorobenzene	ND	*3	0.00509	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,4-Dichlorobenzene	ND	*3	0.00509	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1-Dichloroethane	ND	*3	0.00509	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dichloroethane	ND	*3	0.00509	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1-Dichloroethene	ND	*3	0.00509	0.00312	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
cis-1,2-Dichloroethene	ND	*3	0.00509	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
trans-1,2-Dichloroethene	ND	*3	0.00509	0.00317	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dichloropropane	ND	*3	0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3-Dichloropropane	ND	*3	0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2,2-Dichloropropane	ND	*3	0.00509	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1-Dichloropropene	ND	*3	0.00509	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
cis-1,3-Dichloropropene	ND	*3	0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
trans-1,3-Dichloropropene	ND	*3	0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethylbenzene	ND	*3	0.00509	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Hexachlorobutadiene	ND	*3	0.0102	0.00512	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2-Hexanone (MBK)	ND	*3	0.0102	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Isopropylbenzene	ND	*3	0.00509	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
4-Isopropyltoluene	ND	*3	0.00509	0.00500	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Methyl tert-butyl ether	ND	*3	0.00509	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0102	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Methylene Chloride	**0.00353**	**J B *3**	0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Naphthalene	ND	*3	0.00509	0.00460	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1

Client Sample ID: 2023-SB-08-0810'
Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00509	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Styrene	ND	*3	0.00509	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00509	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00509	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Tetrachloroethene	ND	*3	0.00509	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Toluene	ND	*3	0.00509	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,3-Trichlorobenzene	ND	*3	0.00509	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,4-Trichlorobenzene	ND	*3	0.00509	0.00470	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3,5-Trichlorobenzene	ND	*3	0.00509	0.00484	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,1-Trichloroethane	ND	*3	0.00509	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,2-Trichloroethane	ND	*3	0.00509	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Trichloroethene	ND	*3	0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,3-Trichloropropane	ND	*3	0.00509	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,4-Trimethylbenzene	ND	*3	0.00509	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3,5-Trimethylbenzene	ND	*3	0.00509	0.00433	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Vinyl chloride	ND	*3	0.00509	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
m,p-Xylene	ND	*3	0.00509	0.00696	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
o-Xylene	ND	*3	0.00509	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Tetrahydrofuran	ND	*3	0.0102	0.00258	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethyl ether	ND	*3	0.00509	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Tert-amyl methyl ether	ND	*3	0.00509	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethyl tert-butyl ether	ND	*3	0.00509	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
di-Isopropyl ether	ND	*3	0.00509	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
tert-Butanol	ND	*3	0.102	0.0273	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,4-Dioxane	ND	*3	0.102	0.0317	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0255	0.00376	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethanol	ND	*3	1.02	0.0632	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3-Dichloropropene, Total	ND		0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Xylenes, Total	ND		0.0153	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*
Toluene-d8 (Surr)	*103*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*
Dibromofluoromethane (Surr)	*115*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Acetone	ND	*3	0.0485	0.0109	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Acrylonitrile	ND	*3	0.00485	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Benzene	ND	*3	0.00485	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromobenzene	ND	*3	0.00485	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromochloromethane	ND	*3	0.00485	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromodichloromethane	ND	*3	0.00485	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromoform	ND	*3	0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromomethane	ND	*3 *+	0.00970	0.00604	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2-Butanone (MEK)	ND	*3	0.00970	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00970	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
sec-Butylbenzene	ND	*3	0.00485	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
tert-Butylbenzene	ND	*3	0.00485	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Carbon disulfide	ND	*3	0.00970	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Carbon tetrachloride	ND	*3	0.00485	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chlorobenzene	ND	*3	0.00485	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chloroethane	ND	*3	0.00970	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chloroform	ND	*3	0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chloromethane	ND	*3	0.00970	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2-Chlorotoluene	ND	*3	0.00485	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
4-Chlorotoluene	ND	*3	0.00485	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00970	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Dibromochloromethane	ND	*3	0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dibromoethane (EDB)	ND	*3	0.00485	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Dibromomethane	ND	*3	0.00485	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dichlorobenzene	ND	*3	0.00485	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3-Dichlorobenzene	ND	*3	0.00485	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,4-Dichlorobenzene	ND	*3	0.00485	0.00460	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1-Dichloroethane	ND	*3	0.00485	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dichloroethane	ND	*3	0.00485	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1-Dichloroethene	ND	*3	0.00485	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
cis-1,2-Dichloroethene	ND	*3	0.00485	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
trans-1,2-Dichloroethene	ND	*3	0.00485	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dichloropropane	ND	*3	0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3-Dichloropropane	ND	*3	0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2,2-Dichloropropane	ND	*3	0.00485	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1-Dichloropropene	ND	*3	0.00485	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
cis-1,3-Dichloropropene	ND	*3	0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
trans-1,3-Dichloropropene	ND	*3	0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethylbenzene	ND	*3	0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Hexachlorobutadiene	ND	*3	0.00970	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2-Hexanone (MBK)	ND	*3	0.00970	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Isopropylbenzene	ND	*3	0.00485	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
4-Isopropyltoluene	ND	*3	0.00485	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Methyl tert-butyl ether	ND	*3	0.00485	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00970	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Methylene Chloride	ND	*3	0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Naphthalene	ND	*3	0.00485	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
N-Propylbenzene	ND	*3	0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Styrene	ND	*3	0.00485	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00485	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00485	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Tetrachloroethene	ND	*3	0.00485	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Toluene	ND	*3	0.00485	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,3-Trichlorobenzene	ND	*3	0.00485	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,4-Trichlorobenzene	ND	*3	0.00485	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3,5-Trichlorobenzene	ND	*3	0.00485	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1,1-Trichloroethane	ND	*3	0.00485	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00485	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Trichloroethene	ND	*3	0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,3-Trichloropropane	ND	*3	0.00485	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,4-Trimethylbenzene	ND	*3	0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3,5-Trimethylbenzene	ND	*3	0.00485	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Vinyl chloride	ND	*3	0.00485	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
m,p-Xylene	ND	*3	0.00485	0.00663	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
o-Xylene	ND	*3	0.00485	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Tetrahydrofuran	ND	*3	0.00970	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethyl ether	ND	*3	0.00485	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Tert-amyl methyl ether	ND	*3	0.00485	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethyl tert-butyl ether	ND	*3	0.00485	0.00319	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
di-Isopropyl ether	ND	*3	0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
tert-Butanol	ND	*3	0.0970	0.0260	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,4-Dioxane	ND	*3	0.0970	0.0302	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0243	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethanol	ND	*3	0.970	0.0601	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3-Dichloropropene, Total	ND		0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Xylenes, Total	ND		0.0146	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*
Toluene-d8 (Surr)	*101*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*
Dibromofluoromethane (Surr)	*120*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.346	0.0616	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,2,4-Trichlorobenzene	ND		0.346	0.0793	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,2-Dichlorobenzene	ND		0.346	0.0667	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,3-Dichlorobenzene	ND		0.346	0.0838	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,4-Dichlorobenzene	ND		0.346	0.0815	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1-Methylnaphthalene	ND		0.0700	0.0588	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4,5-Trichlorophenol	ND		0.346	0.0397	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4,6-Trichlorophenol	ND		0.175	0.0428	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dichlorophenol	ND		0.175	0.0698	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dimethylphenol	ND		0.346	0.0508	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dinitrophenol	ND		0.346	0.0911	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,6-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Chloronaphthalene	ND		0.346	0.0801	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Chlorophenol	ND		0.175	0.0717	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Methylnaphthalene	ND		0.0700	0.0517	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Methylphenol	ND		0.346	0.0506	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Nitroaniline	ND		0.346	0.0330	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Nitrophenol	ND		0.175	0.0622	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
3 & 4 Methylphenol	ND		0.346	0.0656	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
3,3'-Dichlorobenzidine	ND		0.346	0.0572	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0810'
Date Collected: 03/02/23 15:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-11
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.346	0.0310	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4,6-Dinitro-2-methylphenol	ND		0.346	0.0622	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Bromophenyl phenyl ether	ND		0.346	0.0391	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Chloro-3-methylphenol	ND		0.346	0.0678	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Chloroaniline	ND		0.175	0.0266	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Chlorophenyl phenyl ether	ND		0.346	0.0370	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Nitroaniline	ND		0.175	0.0553	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Nitrophenol	ND		0.346	0.121	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Acenaphthene	ND		0.0700	0.0558	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Acenaphthylene	ND		0.0700	0.0460	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Acetophenone	ND		0.175	0.0427	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Aniline	ND		0.346	0.0266	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Anthracene	ND		0.0700	0.0405	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Azobenzene/Diphenyldiazene	ND		0.346	0.0591	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzidine	ND		0.693	0.103	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[a]anthracene	ND		0.0700	0.0394	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[a]pyrene	ND		0.0700	0.0501	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[b]fluoranthene	ND		0.0700	0.0580	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[g,h,i]perylene	ND		0.0700	0.0547	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[k]fluoranthene	ND		0.0700	0.0545	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzoic acid	ND	*- *1	0.346	0.238	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzyl alcohol	ND		0.346	0.0628	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Bis(2-chloroethoxy)methane	ND		0.346	0.0602	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Bis(2-chloroethyl)ether	ND		0.175	0.0573	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0780	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Bis(2-ethylhexyl) phthalate	ND		0.175	0.0446	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Butyl benzyl phthalate	ND		0.346	0.0347	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Carbazole	ND		0.175	0.0459	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Chrysene	ND		0.0700	0.0396	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Dibenz(a,h)anthracene	ND		0.0700	0.0534	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Dibenzofuran	ND		0.175	0.0607	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Diethyl phthalate	ND		0.346	0.0380	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Dimethyl phthalate	ND		0.346	0.0451	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Di-n-butyl phthalate	ND		0.346	0.0370	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Di-n-octyl phthalate	ND		0.346	0.0572	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Fluoranthene	ND		0.0700	0.0410	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Fluorene	ND		0.0700	0.0639	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachlorobenzene	ND		0.175	0.0486	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachlorobutadiene	ND		0.175	0.0874	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachlorocyclopentadiene	ND		0.175	0.0670	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachloroethane	ND		0.175	0.0688	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0700	0.0594	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Isophorone	ND		0.175	0.0480	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Naphthalene	ND		0.0700	0.0672	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Nitrobenzene	ND		0.175	0.0809	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
N-Nitrosodimethylamine	ND		0.175	0.0460	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0698	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
N-Nitrosodiphenylamine	ND		0.346	0.0442	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Pentachloronitrobenzene	ND		0.346	0.0547	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1

Client Sample ID: 2023-SB-08-0810' Lab Sample ID: 620-10117-11

Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.346	0.142	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Phenanthrene	ND		0.0700	0.0397	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Phenol	ND		0.346	0.0714	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Pyrene	ND		0.0700	0.0386	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Pyridine	ND		0.346	0.0820	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
Phenol-d5 (Surr)	*89*		*15 - 110*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
Terphenyl-d14	*87*		*30 - 130*	*03/13/23 11:00*	*03/15/23 20:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.233	0.119	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.233	0.0997	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Ethylbenzene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Methyl tert-butyl ether	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
m,p-Xylene	ND		0.0932	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Naphthalene	ND		0.0466	0.0317	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
o-Xylene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Toluene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
C5-C8 Aliphatics (unadjusted)	ND		0.233	0.119	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
C9-C10 Aromatics	ND		0.233	0.0326	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
C9-C12 Aliphatics (unadjusted)	ND		0.233	0.0997	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:07*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:07*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1221	ND		0.0208	0.00615	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1232	ND		0.0208	0.00577	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1254	ND		0.0208	0.0162	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1262	ND		0.0208	0.00485	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1260	ND		0.0208	0.00448	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 05:50*	*1*
Tetrachloro-m-xylene	*106*		*30 - 150*	*03/09/23 15:26*	*03/11/23 05:50*	*1*

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	117		30 - 150	03/09/23 15:26	03/11/23 05:50	1
DCB Decachlorobiphenyl (Surr)	123		30 - 150	03/09/23 15:26	03/11/23 05:50	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoroheptanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorononanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorodecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorotridecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorotetradecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorobutanesulfonic acid	ND		2.10	0.420	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorohexanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NEtFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NMeFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
10:2 FTS	ND		2.10	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoropentanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoroheptanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorononanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorodecanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctanesulfonamide	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorohexadecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctadecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorobutanoic acid	ND		2.10	0.839	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoropentanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NMeFOSE	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NMeFOSA	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NEtFOSE	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NEtFOSA	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
HFPODA	ND		2.10	1.05	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
DONA	ND		3.15	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
9Cl-PF3ONS	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
11Cl-PF3OUdS	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorododecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.10	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoroundecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
6:2 Fluorotelomer sulfonic acid	ND		2.10	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.15	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	78		10 - 200	03/07/23 22:53	03/16/23 00:59	1
M2-8:2 FTS	82		15 - 200	03/07/23 22:53	03/16/23 00:59	1
M2-6:2 FTS	101		10 - 200	03/07/23 22:53	03/16/23 00:59	1
13C5 PFHxA	98		10 - 174	03/07/23 22:53	03/16/23 00:59	1
13C4 PFHpA	105		10 - 178	03/07/23 22:53	03/16/23 00:59	1
13C8 PFOA	111		26 - 159	03/07/23 22:53	03/16/23 00:59	1

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	103		26 - 165	03/07/23 22:53	03/16/23 00:59	1
13C6 PFDA	91		26 - 161	03/07/23 22:53	03/16/23 00:59	1
13C7 PFUnA	100		12 - 173	03/07/23 22:53	03/16/23 00:59	1
13C2-PFDoDA	87		11 - 166	03/07/23 22:53	03/16/23 00:59	1
13C2 PFTeDA	105		10 - 169	03/07/23 22:53	03/16/23 00:59	1
13C3 PFBS	118		27 - 179	03/07/23 22:53	03/16/23 00:59	1
13C3 PFHxS	115		24 - 171	03/07/23 22:53	03/16/23 00:59	1
13C8 PFOS	108		41 - 154	03/07/23 22:53	03/16/23 00:59	1
d3-NMeFOSAA	19		10 - 178	03/07/23 22:53	03/16/23 00:59	1
d5-NEtFOSAA	25		10 - 193	03/07/23 22:53	03/16/23 00:59	1
13C8 FOSA	88		14 - 163	03/07/23 22:53	03/16/23 00:59	1
13C4 PFBA	93		28 - 153	03/07/23 22:53	03/16/23 00:59	1
13C5 PFPeA	91		24 - 161	03/07/23 22:53	03/16/23 00:59	1
d7-N-MeFOSE-M	82		10 - 179	03/07/23 22:53	03/16/23 00:59	1
d3-NMePFOSA	77		10 - 175	03/07/23 22:53	03/16/23 00:59	1
d9-N-EtFOSE-M	89		10 - 185	03/07/23 22:53	03/16/23 00:59	1
d5-NEtPFOSA	80		10 - 180	03/07/23 22:53	03/16/23 00:59	1
13C3 HFPO-DA	88		10 - 169	03/07/23 22:53	03/16/23 00:59	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.82	1.64	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Arsenic	**5.85**		2.89	1.35	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Barium	**31.0**		0.482	0.145	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Beryllium	**0.425**	**J**	0.482	0.0963	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Cadmium	ND		0.482	0.0963	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Chromium	**9.87**		1.45	0.337	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Lead	**4.39**		1.45	0.578	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Nickel	**3.74**		0.963	0.250	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Selenium	ND		4.82	1.45	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Silver	ND	^3+	0.963	0.385	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Thallium	ND		2.89	1.25	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Vanadium	**11.1**		0.963	0.414	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Zinc	**16.0**		1.93	0.771	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0615	0.0205	mg/Kg	☼	03/07/23 13:21	03/08/23 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.6**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**94.4**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-1012'
Date Collected: 03/02/23 15:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-12
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00598	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Acetone	ND	*3	0.0598	0.0134	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Acrylonitrile	ND	*3	0.00598	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Benzene	ND	*3	0.00598	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromobenzene	ND	*3	0.00598	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromochloromethane	ND	*3	0.00598	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromodichloromethane	ND	*3	0.00598	0.00439	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromoform	ND	*3	0.00598	0.00457	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromomethane	ND	*3	0.0120	0.00745	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2-Butanone (MEK)	ND	*3	0.0120	0.00476	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
n-Butylbenzene	ND	*3	0.0120	0.00641	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
sec-Butylbenzene	ND	*3	0.00598	0.00482	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
tert-Butylbenzene	ND	*3	0.00598	0.00471	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Carbon disulfide	ND	*3	0.0120	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Carbon tetrachloride	ND	*3	0.00598	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chlorobenzene	ND	*3	0.00598	0.00437	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chloroethane	ND	*3	0.0120	0.00439	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chloroform	ND	*3	0.00598	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chloromethane	ND	*3	0.0120	0.00459	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2-Chlorotoluene	ND	*3	0.00598	0.00476	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
4-Chlorotoluene	ND	*3	0.00598	0.00519	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0120	0.00507	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Dibromochloromethane	ND	*3	0.00598	0.00396	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dibromoethane (EDB)	ND	*3	0.00598	0.00429	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Dibromomethane	ND	*3	0.00598	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dichlorobenzene	ND	*3	0.00598	0.00555	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3-Dichlorobenzene	ND	*3	0.00598	0.00479	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,4-Dichlorobenzene	ND	*3	0.00598	0.00567	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0120	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1-Dichloroethane	ND	*3	0.00598	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dichloroethane	ND	*3	0.00598	0.00403	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1-Dichloroethene	ND	*3	0.00598	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
cis-1,2-Dichloroethene	ND	*3	0.00598	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
trans-1,2-Dichloroethene	ND	*3	0.00598	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dichloropropane	ND	*3	0.00598	0.00396	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3-Dichloropropane	ND	*3	0.00598	0.00457	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2,2-Dichloropropane	ND	*3	0.00598	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1-Dichloropropene	ND	*3	0.00598	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
cis-1,3-Dichloropropene	ND	*3	0.00598	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
trans-1,3-Dichloropropene	ND	*3	0.00598	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethylbenzene	ND	*3	0.00598	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Hexachlorobutadiene	ND	*3	0.0120	0.00601	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2-Hexanone (MBK)	ND	*3	0.0120	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Isopropylbenzene	ND	*3	0.00598	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
4-Isopropyltoluene	ND	*3	0.00598	0.00587	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Methyl tert-butyl ether	ND	*3	0.00598	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0120	0.00386	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Methylene Chloride	ND	*3	0.0120	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Naphthalene	ND	*3	0.00598	0.00540	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1

Client Sample ID: 2023-SB-08-1012' **Lab Sample ID: 620-10117-12**
Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00598	0.00506	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Styrene	ND	*3	0.00598	0.00463	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00598	0.00448	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00598	0.00547	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Tetrachloroethene	ND	*3	0.00598	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Toluene	ND	*3	0.00598	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,3-Trichlorobenzene	ND	*3	0.00598	0.00504	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,4-Trichlorobenzene	ND	*3	0.00598	0.00551	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3,5-Trichlorobenzene	ND	*3	0.00598	0.00568	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,1-Trichloroethane	ND	*3	0.00598	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,2-Trichloroethane	ND	*3	0.00598	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Trichloroethene	ND	*3	0.00598	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00598	0.00457	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,3-Trichloropropane	ND	*3	0.00598	0.00531	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,4-Trimethylbenzene	ND	*3	0.00598	0.00506	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3,5-Trimethylbenzene	ND	*3	0.00598	0.00508	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Vinyl chloride	ND	*3	0.00598	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
m,p-Xylene	ND	*3	0.00598	0.00816	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
o-Xylene	ND	*3	0.00598	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Tetrahydrofuran	ND	*3	0.0120	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethyl ether	ND	*3	0.00598	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Tert-amyl methyl ether	ND	*3	0.00598	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethyl tert-butyl ether	ND	*3	0.00598	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
di-Isopropyl ether	ND	*3	0.00598	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
tert-Butanol	ND	*3	0.120	0.0320	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,4-Dioxane	ND	*3	0.120	0.0372	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0299	0.00441	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethanol	ND	*3	1.20	0.0741	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3-Dichloropropene, Total	ND		0.00598	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Xylenes, Total	ND		0.0179	0.00598	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*
Toluene-d8 (Surr)	*102*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*150*	*S1+ *3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*
Dibromofluoromethane (Surr)	*147*	*S1+ *3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00560	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Acetone	ND	*3	0.0560	0.0126	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Acrylonitrile	ND	*3	0.00560	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Benzene	ND	*3	0.00560	0.00374	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromobenzene	ND	*3	0.00560	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromochloromethane	ND	*3	0.00560	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromodichloromethane	ND	*3	0.00560	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromoform	ND	*3	0.00560	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromomethane	ND	*3 *+	0.0112	0.00698	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2-Butanone (MEK)	ND	*3	0.0112	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-1012'
Date Collected: 03/02/23 15:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-12
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0112	0.00601	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
sec-Butylbenzene	ND	*3	0.00560	0.00452	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
tert-Butylbenzene	ND	*3	0.00560	0.00442	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Carbon disulfide	ND	*3	0.0112	0.00393	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Carbon tetrachloride	ND	*3	0.00560	0.00353	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chlorobenzene	ND	*3	0.00560	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chloroethane	ND	*3	0.0112	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chloroform	ND	*3	0.00560	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chloromethane	ND	*3	0.0112	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2-Chlorotoluene	ND	*3	0.00560	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
4-Chlorotoluene	ND	*3	0.00560	0.00486	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0112	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Dibromochloromethane	ND	*3	0.00560	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dibromoethane (EDB)	ND	*3	0.00560	0.00402	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Dibromomethane	ND	*3	0.00560	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dichlorobenzene	ND	*3	0.00560	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3-Dichlorobenzene	ND	*3	0.00560	0.00449	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,4-Dichlorobenzene	ND	*3	0.00560	0.00531	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0112	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1-Dichloroethane	ND	*3	0.00560	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dichloroethane	ND	*3	0.00560	0.00378	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1-Dichloroethene	ND	*3	0.00560	0.00343	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
cis-1,2-Dichloroethene	ND	*3	0.00560	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
trans-1,2-Dichloroethene	ND	*3	0.00560	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dichloropropane	ND	*3	0.00560	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3-Dichloropropane	ND	*3	0.00560	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2,2-Dichloropropane	ND	*3	0.00560	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1-Dichloropropene	ND	*3	0.00560	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
cis-1,3-Dichloropropene	ND	*3	0.00560	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
trans-1,3-Dichloropropene	ND	*3	0.00560	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethylbenzene	ND	*3	0.00560	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Hexachlorobutadiene	ND	*3	0.0112	0.00564	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2-Hexanone (MBK)	ND	*3	0.0112	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Isopropylbenzene	ND	*3	0.00560	0.00424	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
4-Isopropyltoluene	ND	*3	0.00560	0.00550	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Methyl tert-butyl ether	ND	*3	0.00560	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0112	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Methylene Chloride	ND	*3	0.0112	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Naphthalene	ND	*3	0.00560	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
N-Propylbenzene	ND	*3	0.00560	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Styrene	ND	*3	0.00560	0.00434	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00560	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00560	0.00513	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Tetrachloroethene	ND	*3	0.00560	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Toluene	ND	*3	0.00560	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,3-Trichlorobenzene	ND	*3	0.00560	0.00473	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,4-Trichlorobenzene	ND	*3	0.00560	0.00517	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3,5-Trichlorobenzene	ND	*3	0.00560	0.00532	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1,1-Trichloroethane	ND	*3	0.00560	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1

Client Sample ID: 2023-SB-08-1012' **Lab Sample ID: 620-10117-12**
Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00560	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Trichloroethene	ND	*3	0.00560	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00560	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,3-Trichloropropane	ND	*3	0.00560	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,4-Trimethylbenzene	ND	*3	0.00560	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3,5-Trimethylbenzene	ND	*3	0.00560	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Vinyl chloride	ND	*3	0.00560	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
m,p-Xylene	ND	*3	0.00560	0.00765	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
o-Xylene	ND	*3	0.00560	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Tetrahydrofuran	ND	*3	0.0112	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethyl ether	ND	*3	0.00560	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Tert-amyl methyl ether	ND	*3	0.00560	0.00443	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethyl tert-butyl ether	ND	*3	0.00560	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
di-Isopropyl ether	ND	*3	0.00560	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
tert-Butanol	ND	*3	0.112	0.0300	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,4-Dioxane	ND	*3	0.112	0.0349	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0280	0.00414	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethanol	ND	*3	1.12	0.0695	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3-Dichloropropene, Total	ND		0.00560	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Xylenes, Total	ND		0.0168	0.00560	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*	**3*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*
Toluene-d8 (Surr)	*99*	**3*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*152*	**3 S1+*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*
Dibromofluoromethane (Surr)	*153*	**3 S1+*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.384	0.0683	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,2,4-Trichlorobenzene	ND		0.384	0.0880	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,2-Dichlorobenzene	ND		0.384	0.0740	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,3-Dichlorobenzene	ND		0.384	0.0930	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,4-Dichlorobenzene	ND		0.384	0.0904	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1-Methylnaphthalene	ND		0.0776	0.0652	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4,5-Trichlorophenol	ND		0.384	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4,6-Trichlorophenol	ND		0.194	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dichlorophenol	ND		0.194	0.0774	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dimethylphenol	ND		0.384	0.0563	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dinitrophenol	ND		0.384	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dinitrotoluene	ND		0.194	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,6-Dinitrotoluene	ND		0.194	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Chloronaphthalene	ND		0.384	0.0888	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Chlorophenol	ND		0.194	0.0795	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Methylnaphthalene	ND		0.0776	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Methylphenol	ND		0.384	0.0561	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Nitroaniline	ND		0.384	0.0365	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Nitrophenol	ND		0.194	0.0690	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
3 & 4 Methylphenol	ND		0.384	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
3,3'-Dichlorobenzidine	ND		0.384	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-1012'
Date Collected: 03/02/23 15:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-12
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.384	0.0343	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4,6-Dinitro-2-methylphenol	ND		0.384	0.0690	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Bromophenyl phenyl ether	ND		0.384	0.0434	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Chloro-3-methylphenol	ND		0.384	0.0752	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Chloroaniline	ND		0.194	0.0294	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Chlorophenyl phenyl ether	ND		0.384	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Nitroaniline	ND		0.194	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Nitrophenol	ND		0.384	0.134	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Acenaphthene	ND		0.0776	0.0619	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Acenaphthylene	ND		0.0776	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Acetophenone	ND		0.194	0.0474	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Aniline	ND		0.384	0.0294	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Anthracene	ND		0.0776	0.0449	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Azobenzene/Diphenyldiazene	ND		0.384	0.0655	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzidine	ND		0.768	0.114	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[a]anthracene	ND		0.0776	0.0436	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[a]pyrene	ND		0.0776	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[b]fluoranthene	ND		0.0776	0.0643	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[g,h,i]perylene	ND		0.0776	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[k]fluoranthene	ND		0.0776	0.0604	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzoic acid	ND	*- *1	0.384	0.264	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzyl alcohol	ND		0.384	0.0696	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Bis(2-chloroethoxy)methane	ND		0.384	0.0668	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Bis(2-chloroethyl)ether	ND		0.194	0.0635	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
bis (2-chloroisopropyl) ether	ND		0.194	0.0864	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Bis(2-ethylhexyl) phthalate	ND		0.194	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Butyl benzyl phthalate	ND		0.384	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Carbazole	ND		0.194	0.0508	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Chrysene	ND		0.0776	0.0439	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Dibenz(a,h)anthracene	ND		0.0776	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Dibenzofuran	ND		0.194	0.0672	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Diethyl phthalate	ND		0.384	0.0421	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Dimethyl phthalate	ND		0.384	0.0500	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Di-n-butyl phthalate	ND		0.384	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Di-n-octyl phthalate	ND		0.384	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Fluoranthene	ND		0.0776	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Fluorene	ND		0.0776	0.0709	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachlorobenzene	ND		0.194	0.0539	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachlorobutadiene	ND		0.194	0.0969	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachlorocyclopentadiene	ND		0.194	0.0742	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachloroethane	ND		0.194	0.0763	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0776	0.0659	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Isophorone	ND		0.194	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Naphthalene	ND		0.0776	0.0745	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Nitrobenzene	ND		0.194	0.0897	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
N-Nitrosodimethylamine	ND		0.194	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
N-Nitrosodi-n-propylamine	ND		0.194	0.0774	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
N-Nitrosodiphenylamine	ND		0.384	0.0490	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Pentachloronitrobenzene	ND		0.384	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1

Client Sample ID: 2023-SB-08-1012' **Lab Sample ID: 620-10117-12**
Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.384	0.157	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Phenanthrene	ND		0.0776	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Phenol	ND		0.384	0.0791	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Pyrene	ND		0.0776	0.0428	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Pyridine	ND		0.384	0.0909	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
Phenol-d5 (Surr)	*93*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:20*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.282	0.145	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.282	0.121	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Ethylbenzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Methyl tert-butyl ether	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Naphthalene	ND		0.0565	0.0384	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
o-Xylene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Toluene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
C5-C8 Aliphatics (unadjusted)	ND		0.282	0.145	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
C9-C10 Aromatics	ND		0.282	0.0395	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
C9-C12 Aliphatics (unadjusted)	ND		0.282	0.121	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:47*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:47*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1221	ND		0.0232	0.00685	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1232	ND		0.0232	0.00642	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1242	ND		0.0232	0.00366	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1248	ND		0.0232	0.00725	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1254	**0.0276**		0.0232	0.0180	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1262	ND		0.0232	0.00540	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1260	ND		0.0232	0.00499	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1268	ND		0.0232	0.00494	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:26*	*03/11/23 06:08*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 06:08*	*1*

Client Sample ID: 2023-SB-08-1012'
Lab Sample ID: 620-10117-12
Date Collected: 03/02/23 15:35
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	104		30 - 150	03/09/23 15:26	03/11/23 06:08	1
DCB Decachlorobiphenyl (Surr)	109		30 - 150	03/09/23 15:26	03/11/23 06:08	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	93		10 - 200	03/07/23 22:53	03/16/23 01:21	1
M2-8:2 FTS	99		15 - 200	03/07/23 22:53	03/16/23 01:21	1
M2-6:2 FTS	105		10 - 200	03/07/23 22:53	03/16/23 01:21	1
13C5 PFHxA	100		10 - 174	03/07/23 22:53	03/16/23 01:21	1
13C4 PFHpA	113		10 - 178	03/07/23 22:53	03/16/23 01:21	1
13C8 PFOA	116		26 - 159	03/07/23 22:53	03/16/23 01:21	1

Client Sample ID: 2023-SB-08-1012' Lab Sample ID: 620-10117-12

Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	108		26 - 165	03/07/23 22:53	03/16/23 01:21	1
13C6 PFDA	107		26 - 161	03/07/23 22:53	03/16/23 01:21	1
13C7 PFUnA	112		12 - 173	03/07/23 22:53	03/16/23 01:21	1
13C2-PFDoDA	105		11 - 166	03/07/23 22:53	03/16/23 01:21	1
13C2 PFTeDA	125		10 - 169	03/07/23 22:53	03/16/23 01:21	1
13C3 PFBS	112		27 - 179	03/07/23 22:53	03/16/23 01:21	1
13C3 PFHxS	112		24 - 171	03/07/23 22:53	03/16/23 01:21	1
13C8 PFOS	110		41 - 154	03/07/23 22:53	03/16/23 01:21	1
d3-NMeFOSAA	63		10 - 178	03/07/23 22:53	03/16/23 01:21	1
d5-NEtFOSAA	71		10 - 193	03/07/23 22:53	03/16/23 01:21	1
13C8 FOSA	88		14 - 163	03/07/23 22:53	03/16/23 01:21	1
13C4 PFBA	105		28 - 153	03/07/23 22:53	03/16/23 01:21	1
13C5 PFPeA	101		24 - 161	03/07/23 22:53	03/16/23 01:21	1
d7-N-MeFOSE-M	97		10 - 179	03/07/23 22:53	03/16/23 01:21	1
d3-NMePFOSA	74		10 - 175	03/07/23 22:53	03/16/23 01:21	1
d9-N-EtFOSE-M	102		10 - 185	03/07/23 22:53	03/16/23 01:21	1
d5-NEtPFOSA	77		10 - 180	03/07/23 22:53	03/16/23 01:21	1
13C3 HFPO-DA	88		10 - 169	03/07/23 22:53	03/16/23 01:21	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.93	1.68	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Arsenic	**3.04**		2.96	1.38	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Barium	**22.6**		0.493	0.148	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Beryllium	**0.332**	**J**	0.493	0.0987	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Cadmium	ND		0.493	0.0987	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Chromium	**12.0**		1.48	0.345	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Lead	**2.33**		1.48	0.592	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Nickel	**4.10**		0.987	0.257	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Selenium	ND		4.93	1.48	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Silver	ND	^3+	0.987	0.395	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Thallium	ND		2.96	1.28	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Vanadium	**7.79**		0.987	0.424	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Zinc	**13.4**		1.97	0.790	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0705	0.0235	mg/Kg	☼	03/08/23 00:46	03/09/23 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.9**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**85.1**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'
Date Collected: 03/03/23 09:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-13
Matrix: Solid
Percent Solids: 81.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00486	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Acetone	ND		0.0486	0.0109	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Acrylonitrile	ND		0.00486	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Benzene	ND		0.00486	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromobenzene	ND		0.00486	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromochloromethane	ND		0.00486	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromodichloromethane	ND		0.00486	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromoform	ND		0.00486	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromomethane	ND	*+	0.00971	0.00605	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2-Butanone (MEK)	ND		0.00971	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
n-Butylbenzene	ND		0.00971	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
sec-Butylbenzene	ND		0.00486	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
tert-Butylbenzene	ND		0.00486	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Carbon disulfide	ND		0.00971	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Carbon tetrachloride	ND		0.00486	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chlorobenzene	ND		0.00486	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chloroethane	ND		0.00971	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chloroform	ND		0.00486	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chloromethane	ND		0.00971	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2-Chlorotoluene	ND		0.00486	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
4-Chlorotoluene	ND		0.00486	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dibromo-3-Chloropropane	ND		0.00971	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Dibromochloromethane	ND		0.00486	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dibromoethane (EDB)	ND		0.00486	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Dibromomethane	ND		0.00486	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dichlorobenzene	ND		0.00486	0.00451	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3-Dichlorobenzene	ND		0.00486	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,4-Dichlorobenzene	ND		0.00486	0.00460	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Dichlorodifluoromethane (Freon 12)	ND		0.00971	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1-Dichloroethane	ND		0.00486	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dichloroethane	ND		0.00486	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1-Dichloroethene	ND		0.00486	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
cis-1,2-Dichloroethene	ND		0.00486	0.00281	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
trans-1,2-Dichloroethene	ND		0.00486	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dichloropropane	ND		0.00486	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3-Dichloropropane	ND		0.00486	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2,2-Dichloropropane	ND		0.00486	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1-Dichloropropene	ND		0.00486	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
cis-1,3-Dichloropropene	ND		0.00486	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
trans-1,3-Dichloropropene	ND		0.00486	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethylbenzene	ND		0.00486	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Hexachlorobutadiene	ND		0.00971	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2-Hexanone (MBK)	ND		0.00971	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Isopropylbenzene	ND		0.00486	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
4-Isopropyltoluene	ND		0.00486	0.00477	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Methyl tert-butyl ether	ND		0.00486	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.00971	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Methylene Chloride	ND		0.00971	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Naphthalene	ND		0.00486	0.00439	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00486	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Styrene	ND		0.00486	0.00376	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,1,2-Tetrachloroethane	ND		0.00486	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,2,2-Tetrachloroethane	ND		0.00486	0.00445	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Tetrachloroethene	ND		0.00486	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Toluene	ND		0.00486	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,3-Trichlorobenzene	ND		0.00486	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,4-Trichlorobenzene	ND		0.00486	0.00448	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3,5-Trichlorobenzene	ND		0.00486	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,1-Trichloroethane	ND		0.00486	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,2-Trichloroethane	ND		0.00486	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Trichloroethene	ND		0.00486	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00486	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,3-Trichloropropane	ND		0.00486	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,4-Trimethylbenzene	ND		0.00486	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3,5-Trimethylbenzene	ND		0.00486	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Vinyl chloride	ND		0.00486	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
m,p-Xylene	ND		0.00486	0.00663	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
o-Xylene	ND		0.00486	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Tetrahydrofuran	ND		0.00971	0.00246	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethyl ether	ND		0.00486	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Tert-amyl methyl ether	ND		0.00486	0.00384	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethyl tert-butyl ether	ND		0.00486	0.00319	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
di-Isopropyl ether	ND		0.00486	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
tert-Butanol	ND		0.0971	0.0260	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,4-Dioxane	ND		0.0971	0.0302	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
trans-1,4-Dichloro-2-butene	ND		0.0243	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethanol	ND		0.971	0.0602	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3-Dichloropropene, Total	ND		0.00486	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Xylenes, Total	ND		0.0146	0.00486	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.791	0.141	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,2,4-Trichlorobenzene	ND		0.791	0.181	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,2-Dichlorobenzene	ND		0.791	0.152	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,3-Dichlorobenzene	ND		0.791	0.192	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,4-Dichlorobenzene	ND		0.791	0.186	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1-Methylnaphthalene	ND		0.160	0.134	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4,5-Trichlorophenol	ND		0.791	0.0906	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4,6-Trichlorophenol	ND		0.400	0.0978	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4-Dichlorophenol	ND		0.400	0.159	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4-Dimethylphenol	ND		0.791	0.116	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4-Dinitrophenol	ND		0.791	0.208	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'
Date Collected: 03/03/23 09:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-13
Matrix: Solid
Percent Solids: 81.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.400	0.0937	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,6-Dinitrotoluene	ND		0.400	0.0937	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Chloronaphthalene	ND		0.791	0.183	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Chlorophenol	ND		0.400	0.164	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Methylnaphthalene	ND		0.160	0.118	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Methylphenol	ND		0.791	0.116	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Nitroaniline	ND		0.791	0.0753	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Nitrophenol	ND		0.400	0.142	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
3 & 4 Methylphenol	ND		0.791	0.150	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
3,3'-Dichlorobenzidine	ND		0.791	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
3-Nitroaniline	ND		0.791	0.0707	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4,6-Dinitro-2-methylphenol	ND		0.791	0.142	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Bromophenyl phenyl ether	ND		0.791	0.0894	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Chloro-3-methylphenol	ND		0.791	0.155	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Chloroaniline	ND		0.400	0.0606	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Chlorophenyl phenyl ether	ND		0.791	0.0846	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Nitroaniline	ND		0.400	0.126	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Nitrophenol	ND		0.791	0.276	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Acenaphthene	ND		0.160	0.128	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Acenaphthylene	**0.139**	**J**	0.160	0.105	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Acetophenone	ND		0.400	0.0976	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Aniline	ND		0.791	0.0606	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Anthracene	**0.130**	**J**	0.160	0.0925	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Azobenzene/Diphenyldiazene	ND		0.791	0.135	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzidine	ND		1.58	0.234	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[a]anthracene	**0.276**		0.160	0.0899	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[a]pyrene	**0.579**	***3**	0.160	0.114	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[b]fluoranthene	**1.93**	***3**	0.160	0.133	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[g,h,i]perylene	**1.01**	***3**	0.160	0.125	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[k]fluoranthene	**1.31**	***3**	0.160	0.124	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzoic acid	**2.67**	***- *1**	0.791	0.544	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzyl alcohol	ND		0.791	0.143	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Bis(2-chloroethoxy)methane	ND		0.791	0.138	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Bis(2-chloroethyl)ether	ND		0.400	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
bis (2-chloroisopropyl) ether	ND		0.400	0.178	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Bis(2-ethylhexyl) phthalate	**60.2**		4.00	1.02	mg/Kg	☼	03/13/23 11:00	03/16/23 17:31	10
Butyl benzyl phthalate	**6.11**	**J**	7.91	0.793	mg/Kg	☼	03/13/23 11:00	03/16/23 17:31	10
Carbazole	ND		0.400	0.105	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Chrysene	**0.585**		0.160	0.0904	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Dibenz(a,h)anthracene	**0.300**	***3**	0.160	0.122	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Dibenzofuran	ND		0.400	0.139	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Diethyl phthalate	ND		0.791	0.0868	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Dimethyl phthalate	ND		0.791	0.103	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Di-n-butyl phthalate	**27.1**		7.91	0.846	mg/Kg	☼	03/13/23 11:00	03/16/23 17:31	10
Di-n-octyl phthalate	ND	*3	0.791	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Fluoranthene	**1.57**		0.160	0.0937	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Fluorene	ND		0.160	0.146	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Hexachlorobenzene	ND		0.400	0.111	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Hexachlorobutadiene	ND		0.400	0.200	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.400	0.153	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Hexachloroethane	ND		0.400	0.157	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Indeno[1,2,3-cd]pyrene	**0.858**	***3**	0.160	0.136	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Isophorone	ND		0.400	0.110	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Naphthalene	ND		0.160	0.153	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Nitrobenzene	ND		0.400	0.185	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
N-Nitrosodimethylamine	ND		0.400	0.105	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
N-Nitrosodi-n-propylamine	ND		0.400	0.159	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
N-Nitrosodiphenylamine	ND		0.791	0.101	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pentachloronitrobenzene	ND		0.791	0.125	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pentachlorophenol	ND		0.791	0.324	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Phenanthrene	**1.20**		0.160	0.0906	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Phenol	ND		0.791	0.163	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pyrene	**1.47**		0.160	0.0882	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pyridine	ND		0.791	0.187	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
2-Fluorobiphenyl (Surr)	*52*		*30 - 130*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
2-Fluorophenol (Surr)	*20*		*15 - 110*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
2-Fluorophenol (Surr)	*66*		*15 - 110*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
Phenol-d5 (Surr)	*21*		*15 - 110*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
Phenol-d5 (Surr)	*37*		*15 - 110*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
2,4,6-Tribromophenol (Surr)	*37*		*15 - 110*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 110*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
Terphenyl-d14	*74*		*30 - 130*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
Terphenyl-d14	*50*		*30 - 130*	*03/13/23 11:00*	*03/16/23 17:31*	*10*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**11.5**		0.293	0.150	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	**4.20**		0.293	0.125	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Ethylbenzene	**0.0346**	**J**	0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Methyl tert-butyl ether	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
m,p-Xylene	**0.0605**	**J**	0.117	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Naphthalene	ND		0.0585	0.0398	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
o-Xylene	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Toluene	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
C5-C8 Aliphatics (unadjusted)	**11.5**		0.293	0.150	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
C9-C10 Aromatics	**1.57**		0.293	0.0410	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
C9-C12 Aliphatics (unadjusted)	**5.87**		0.293	0.125	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*70 - 130*	*03/07/23 07:22*	*03/08/23 00:26*	*1*

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*107*		*70 - 130*	*03/07/23 07:22*	*03/08/23 00:26*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		11.9	8.58	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1221	ND		11.9	3.52	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1232	ND		11.9	3.30	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1242	ND		11.9	1.88	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1248	ND		11.9	3.72	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1254	**362**		11.9	9.27	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1262	ND		11.9	2.78	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1260	ND		11.9	2.56	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1268	ND		11.9	2.54	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoroheptanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorononanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorodecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorotridecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorotetradecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorobutanesulfonic acid	ND		2.40	0.480	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorohexanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NEtFOSAA	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NMeFOSAA	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
10:2 FTS	ND		2.40	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoropentanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoroheptanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorononanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorodecanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctanesulfonamide	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorohexadecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctadecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorobutanoic acid	ND		2.40	0.960	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoropentanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NMeFOSE	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NMeFOSA	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NEtFOSE	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NEtFOSA	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.40	1.20	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
DONA	ND		3.60	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
9Cl-PF3ONS	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
11Cl-PF3OUdS	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorododecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
4:2 Fluorotelomer sulfonic acid	ND		2.40	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoroundecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
6:2 Fluorotelomer sulfonic acid	ND		2.40	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
8:2 Fluorotelomer sulfonic acid	ND		3.60	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*21*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
M2-8:2 FTS	*25*		*15 - 200*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
M2-6:2 FTS	*26*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C5 PFHxA	*27*		*10 - 174*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C4 PFHpA	*29*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C8 PFOA	*31*		*26 - 159*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C9 PFNA	*30*		*26 - 165*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C6 PFDA	*30*		*26 - 161*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C7 PFUnA	*32*		*12 - 173*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C2-PFDoDA	*30*		*11 - 166*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C2 PFTeDA	*37*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C3 PFBS	*45*		*27 - 179*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C3 PFHxS	*43*		*24 - 171*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C8 PFOS	*43*		*41 - 154*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d3-NMeFOSAA	*7*	*5-	*10 - 178*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d5-NEtFOSAA	*11*		*10 - 193*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C8 FOSA	*76*		*14 - 163*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C4 PFBA	*27*	*5-	*28 - 153*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C5 PFPeA	*25*		*24 - 161*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d7-N-MeFOSE-M	*80*		*10 - 179*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d3-NMePFOSA	*63*		*10 - 175*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d9-N-EtFOSE-M	*87*		*10 - 185*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d5-NEtPFOSA	*66*		*10 - 180*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C3 HFPO-DA	*29*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.19	1.76	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Arsenic	**4.67**		3.11	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Barium	**66.5**		0.519	0.156	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Beryllium	**0.547**		0.519	0.104	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Cadmium	ND		0.519	0.104	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Chromium	**9.80**		1.56	0.363	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Lead	**26.9**		1.56	0.623	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Nickel	**4.04**		1.04	0.270	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Selenium	ND		5.19	1.56	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Silver	ND	^3+	1.04	0.415	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Thallium	ND		3.11	1.35	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Vanadium	**15.4**		1.04	0.446	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'
Date Collected: 03/03/23 09:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-13
Matrix: Solid
Percent Solids: 81.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	161		2.08	0.830	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0512	J	0.0700	0.0233	mg/Kg	☼	03/08/23 00:50	03/09/23 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.3		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	81.7		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0204'
Date Collected: 03/03/23 09:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-14
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00529	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Acetone	ND		0.0529	0.0118	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Acrylonitrile	ND		0.00529	0.00317	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Benzene	ND		0.00529	0.00353	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromobenzene	ND		0.00529	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromochloromethane	ND		0.00529	0.00300	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromodichloromethane	ND		0.00529	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromoform	ND		0.00529	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromomethane	ND		0.0106	0.00659	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2-Butanone (MEK)	ND		0.0106	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
n-Butylbenzene	ND		0.0106	0.00567	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
sec-Butylbenzene	ND		0.00529	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
tert-Butylbenzene	ND		0.00529	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Carbon tetrachloride	ND		0.00529	0.00333	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chlorobenzene	ND		0.00529	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chloroethane	ND		0.0106	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chloroform	ND		0.00529	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chloromethane	ND		0.0106	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2-Chlorotoluene	ND		0.00529	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
4-Chlorotoluene	ND		0.00529	0.00459	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Dibromochloromethane	ND		0.00529	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dibromoethane (EDB)	ND		0.00529	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Dibromomethane	ND		0.00529	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dichlorobenzene	ND		0.00529	0.00491	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3-Dichlorobenzene	ND		0.00529	0.00424	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,4-Dichlorobenzene	ND		0.00529	0.00501	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Dichlorodifluoromethane (Freon 12)	ND		0.0106	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1-Dichloroethane	ND		0.00529	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dichloroethane	ND		0.00529	0.00356	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1-Dichloroethene	ND		0.00529	0.00324	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
cis-1,2-Dichloroethene	ND		0.00529	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
trans-1,2-Dichloroethene	ND		0.00529	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dichloropropane	ND		0.00529	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3-Dichloropropane	ND		0.00529	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2,2-Dichloropropane	ND		0.00529	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1-Dichloropropene	ND		0.00529	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
cis-1,3-Dichloropropene	ND		0.00529	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
trans-1,3-Dichloropropene	ND		0.00529	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethylbenzene	ND		0.00529	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Hexachlorobutadiene	ND		0.0106	0.00532	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2-Hexanone (MBK)	ND		0.0106	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Isopropylbenzene	ND		0.00529	0.00400	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
4-Isopropyltoluene	ND		0.00529	0.00519	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Methyl tert-butyl ether	ND		0.00529	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Methylene Chloride	ND		0.0106	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Naphthalene	ND		0.00529	0.00478	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0204'
Date Collected: 03/03/23 09:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-14
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00529	0.00447	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Styrene	ND		0.00529	0.00409	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,1,2-Tetrachloroethane	ND		0.00529	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,2,2-Tetrachloroethane	ND		0.00529	0.00484	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Tetrachloroethene	ND		0.00529	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Toluene	ND		0.00529	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,3-Trichlorobenzene	ND		0.00529	0.00446	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,4-Trichlorobenzene	ND		0.00529	0.00488	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3,5-Trichlorobenzene	ND		0.00529	0.00502	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,1-Trichloroethane	ND		0.00529	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,2-Trichloroethane	ND		0.00529	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Trichloroethene	ND		0.00529	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Trichlorofluoromethane (Freon 11)	ND		0.00529	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,3-Trichloropropane	ND		0.00529	0.00470	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,4-Trimethylbenzene	ND		0.00529	0.00447	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3,5-Trimethylbenzene	ND		0.00529	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Vinyl chloride	ND		0.00529	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
m,p-Xylene	ND		0.00529	0.00722	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
o-Xylene	ND		0.00529	0.00386	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethyl ether	ND		0.00529	0.00278	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Tert-amyl methyl ether	ND		0.00529	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethyl tert-butyl ether	ND		0.00529	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
di-Isopropyl ether	ND		0.00529	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,4-Dioxane	ND		0.106	0.0329	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethanol	ND		1.06	0.0656	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3-Dichloropropene, Total	ND		0.00529	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Xylenes, Total	ND		0.0159	0.00529	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0667	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,2,4-Trichlorobenzene	ND		0.375	0.0859	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,2-Dichlorobenzene	ND		0.375	0.0723	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,3-Dichlorobenzene	ND		0.375	0.0908	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,4-Dichlorobenzene	ND		0.375	0.0883	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1-Methylnaphthalene	ND		0.0758	0.0636	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4,5-Trichlorophenol	ND		0.375	0.0430	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4-Dichlorophenol	ND		0.190	0.0756	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4-Dimethylphenol	ND		0.375	0.0550	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4-Dinitrophenol	ND		0.375	0.0986	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0204'
Date Collected: 03/03/23 09:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-14
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,6-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Chloronaphthalene	ND		0.375	0.0867	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Chlorophenol	ND		0.190	0.0776	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Methylnaphthalene	ND		0.0758	0.0560	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Methylphenol	ND		0.375	0.0548	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Nitroaniline	ND		0.375	0.0357	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Nitrophenol	ND		0.190	0.0674	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
3 & 4 Methylphenol	ND		0.375	0.0710	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
3,3'-Dichlorobenzidine	ND		0.375	0.0619	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
3-Nitroaniline	ND		0.375	0.0335	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0674	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Bromophenyl phenyl ether	ND		0.375	0.0424	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Chloro-3-methylphenol	ND		0.375	0.0734	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0401	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Nitroaniline	ND		0.190	0.0599	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Acenaphthene	ND		0.0758	0.0605	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Acenaphthylene	ND		0.0758	0.0498	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Aniline	ND		0.375	0.0288	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Anthracene	ND		0.0758	0.0439	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0640	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzidine	ND		0.750	0.111	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[a]anthracene	ND		0.0758	0.0426	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[a]pyrene	ND		0.0758	0.0542	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[b]fluoranthene	ND		0.0758	0.0628	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[g,h,i]perylene	ND		0.0758	0.0592	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[k]fluoranthene	ND		0.0758	0.0590	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzoic acid	ND	*- *1	0.375	0.258	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzyl alcohol	ND		0.375	0.0680	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0652	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Bis(2-chloroethyl)ether	ND		0.190	0.0621	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0844	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0483	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Butyl benzyl phthalate	ND		0.375	0.0376	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Chrysene	ND		0.0758	0.0428	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Dibenz(a,h)anthracene	ND		0.0758	0.0578	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Dibenzofuran	ND		0.190	0.0657	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Diethyl phthalate	ND		0.375	0.0411	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Dimethyl phthalate	ND		0.375	0.0489	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Di-n-butyl phthalate	ND		0.375	0.0401	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Di-n-octyl phthalate	ND		0.375	0.0619	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Fluoranthene	ND		0.0758	0.0444	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Fluorene	ND		0.0758	0.0692	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Hexachlorobenzene	ND		0.190	0.0526	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Hexachlorobutadiene	ND		0.190	0.0947	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0725	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Hexachloroethane	ND		0.190	0.0746	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0758	0.0643	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Isophorone	ND		0.190	0.0519	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Naphthalene	ND		0.0758	0.0727	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Nitrobenzene	ND		0.190	0.0876	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
N-Nitrosodimethylamine	ND		0.190	0.0498	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0756	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
N-Nitrosodiphenylamine	ND		0.375	0.0478	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pentachloronitrobenzene	ND		0.375	0.0592	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pentachlorophenol	ND		0.375	0.153	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Phenanthrene	ND		0.0758	0.0430	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Phenol	ND		0.375	0.0773	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pyrene	ND		0.0758	0.0418	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pyridine	ND		0.375	0.0888	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
Phenol-d5 (Surr)	*61*		*15 - 110*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*15 - 110*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/13/23 11:00*	*03/15/23 23:25*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.281	0.144	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.281	0.120	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Ethylbenzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Methyl tert-butyl ether	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
m,p-Xylene	ND		0.112	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Naphthalene	ND		0.0562	0.0382	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
o-Xylene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Toluene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
C5-C8 Aliphatics (unadjusted)	ND		0.281	0.144	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
C9-C10 Aromatics	ND		0.281	0.0394	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
C9-C12 Aliphatics (unadjusted)	ND		0.281	0.120	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:05*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:05*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1221	ND		0.0229	0.00676	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1232	ND		0.0229	0.00633	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0229	0.00361	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1248	ND		0.0229	0.00715	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1254	**0.0905**		0.0229	0.0178	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1262	ND		0.0229	0.00533	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1260	ND		0.0229	0.00492	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1268	ND		0.0229	0.00487	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoroheptanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorononanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorodecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorotridecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorotetradecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorobutanesulfonic acid	ND		2.20	0.440	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorohexanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NEtFOSAA	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NMeFOSAA	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
10:2 FTS	ND		2.20	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoropentanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoroheptanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorononanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorodecanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctanesulfonamide	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorohexadecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctadecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorobutanoic acid	ND		2.20	0.880	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoropentanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NMeFOSE	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NMeFOSA	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NEtFOSE	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NEtFOSA	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
HFPODA	ND		2.20	1.10	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
DONA	ND		3.30	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
9Cl-PF3ONS	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
11Cl-PF3OUdS	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorododecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
4:2 Fluorotelomer sulfonic acid	ND		2.20	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoroundecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.20	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
8:2 Fluorotelomer sulfonic acid	ND		3.30	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
M2-8:2 FTS	*59*		*15 - 200*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
M2-6:2 FTS	*76*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C4 PFHpA	*82*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C8 PFOA	*83*		*26 - 159*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C9 PFNA	*75*		*26 - 165*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C6 PFDA	*71*		*26 - 161*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C7 PFUnA	*76*		*12 - 173*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C2-PFDoDA	*65*		*11 - 166*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C3 PFHxS	*98*		*24 - 171*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C8 PFOS	*88*		*41 - 154*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d3-NMeFOSAA	*25*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d5-NEtFOSAA	*31*		*10 - 193*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C4 PFBA	*76*		*28 - 153*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C5 PFPeA	*70*		*24 - 161*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d9-N-EtFOSE-M	*102*		*10 - 185*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C3 HFPO-DA	*74*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.01	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Arsenic	**2.40**	**J**	2.41	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Barium	**12.0**		0.401	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Beryllium	**0.363**	**J**	0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Cadmium	ND		0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Chromium	**5.44**		1.20	0.281	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Lead	**2.99**		1.20	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Nickel	**2.96**		0.802	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Selenium	ND		4.01	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Silver	ND	^3+	0.802	0.321	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Thallium	ND		2.41	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Vanadium	**8.10**		0.802	0.345	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Zinc	**17.8**		1.60	0.642	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0681	0.0227	mg/Kg	☼	03/08/23 00:50	03/09/23 08:56	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	86.6		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0406'
Date Collected: 03/03/23 09:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-15
Matrix: Solid
Percent Solids: 89.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00480	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Acetone	ND		0.0480	0.0107	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Acrylonitrile	ND		0.00480	0.00288	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Benzene	ND		0.00480	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromobenzene	ND		0.00480	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromochloromethane	ND		0.00480	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromodichloromethane	ND		0.00480	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromoform	ND		0.00480	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromomethane	ND		0.00960	0.00598	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2-Butanone (MEK)	ND		0.00960	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
n-Butylbenzene	ND		0.00960	0.00514	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
sec-Butylbenzene	ND		0.00480	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
tert-Butylbenzene	ND		0.00480	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Carbon disulfide	ND		0.00960	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Carbon tetrachloride	ND		0.00480	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chlorobenzene	ND		0.00480	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chloroethane	ND		0.00960	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chloroform	ND		0.00480	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chloromethane	ND		0.00960	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2-Chlorotoluene	ND		0.00480	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
4-Chlorotoluene	ND		0.00480	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dibromo-3-Chloropropane	ND		0.00960	0.00407	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Dibromochloromethane	ND		0.00480	0.00318	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dibromoethane (EDB)	ND		0.00480	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Dibromomethane	ND		0.00480	0.00282	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dichlorobenzene	ND		0.00480	0.00445	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3-Dichlorobenzene	ND		0.00480	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,4-Dichlorobenzene	ND		0.00480	0.00455	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Dichlorodifluoromethane (Freon 12)	ND		0.00960	0.00257	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1-Dichloroethane	ND		0.00480	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dichloroethane	ND		0.00480	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1-Dichloroethene	ND		0.00480	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
cis-1,2-Dichloroethene	ND		0.00480	0.00277	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
trans-1,2-Dichloroethene	ND		0.00480	0.00298	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dichloropropane	ND		0.00480	0.00318	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3-Dichloropropane	ND		0.00480	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2,2-Dichloropropane	ND		0.00480	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1-Dichloropropene	ND		0.00480	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
cis-1,3-Dichloropropene	ND		0.00480	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
trans-1,3-Dichloropropene	ND		0.00480	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethylbenzene	ND		0.00480	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Hexachlorobutadiene	ND		0.00960	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2-Hexanone (MBK)	ND		0.00960	0.00282	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Isopropylbenzene	ND		0.00480	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
4-Isopropyltoluene	ND		0.00480	0.00471	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Methyl tert-butyl ether	ND		0.00480	0.00276	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.00960	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Methylene Chloride	ND		0.00960	0.00257	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Naphthalene	ND		0.00480	0.00434	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00480	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Styrene	ND		0.00480	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,1,2-Tetrachloroethane	ND		0.00480	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,2,2-Tetrachloroethane	ND		0.00480	0.00440	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Tetrachloroethene	ND		0.00480	0.00267	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Toluene	ND		0.00480	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,3-Trichlorobenzene	ND		0.00480	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,4-Trichlorobenzene	ND		0.00480	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3,5-Trichlorobenzene	ND		0.00480	0.00456	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,1-Trichloroethane	ND		0.00480	0.00327	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,2-Trichloroethane	ND		0.00480	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Trichloroethene	ND		0.00480	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Trichlorofluoromethane (Freon 11)	ND		0.00480	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,3-Trichloropropane	ND		0.00480	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,4-Trimethylbenzene	ND		0.00480	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3,5-Trimethylbenzene	ND		0.00480	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Vinyl chloride	ND		0.00480	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
m,p-Xylene	ND		0.00480	0.00656	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
o-Xylene	ND		0.00480	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Tetrahydrofuran	ND		0.00960	0.00243	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethyl ether	ND		0.00480	0.00252	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Tert-amyl methyl ether	ND		0.00480	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethyl tert-butyl ether	ND		0.00480	0.00316	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
di-Isopropyl ether	ND		0.00480	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
tert-Butanol	ND		0.0960	0.0257	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,4-Dioxane	ND		0.0960	0.0298	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
trans-1,4-Dichloro-2-butene	ND		0.0240	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethanol	ND		0.960	0.0595	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3-Dichloropropene, Total	ND		0.00480	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Xylenes, Total	ND		0.0144	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.356	0.0634	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,2,4-Trichlorobenzene	ND		0.356	0.0816	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,2-Dichlorobenzene	ND		0.356	0.0687	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,3-Dichlorobenzene	ND		0.356	0.0863	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,4-Dichlorobenzene	ND		0.356	0.0839	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1-Methylnaphthalene	ND		0.0720	0.0605	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4,5-Trichlorophenol	ND		0.356	0.0408	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4,6-Trichlorophenol	ND		0.180	0.0441	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4-Dichlorophenol	ND		0.180	0.0718	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4-Dimethylphenol	ND		0.356	0.0523	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4-Dinitrophenol	ND		0.356	0.0937	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0406'
Date Collected: 03/03/23 09:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-15
Matrix: Solid
Percent Solids: 89.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.180	0.0422	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,6-Dinitrotoluene	ND		0.180	0.0422	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Chloronaphthalene	ND		0.356	0.0824	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Chlorophenol	ND		0.180	0.0738	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Methylnaphthalene	ND		0.0720	0.0532	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Methylphenol	ND		0.356	0.0521	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Nitroaniline	ND		0.356	0.0339	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Nitrophenol	ND		0.180	0.0640	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
3 & 4 Methylphenol	ND		0.356	0.0675	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
3,3'-Dichlorobenzidine	ND		0.356	0.0589	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
3-Nitroaniline	ND		0.356	0.0319	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4,6-Dinitro-2-methylphenol	ND		0.356	0.0640	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Bromophenyl phenyl ether	ND		0.356	0.0403	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Chloro-3-methylphenol	ND		0.356	0.0698	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Chloroaniline	ND		0.180	0.0273	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Chlorophenyl phenyl ether	ND		0.356	0.0381	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Nitroaniline	ND		0.180	0.0569	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Nitrophenol	ND		0.356	0.124	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Acenaphthene	ND		0.0720	0.0575	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Acenaphthylene	ND		0.0720	0.0473	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Acetophenone	ND		0.180	0.0440	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Aniline	ND		0.356	0.0273	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Anthracene	ND		0.0720	0.0417	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Azobenzene/Diphenyldiazene	ND		0.356	0.0608	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzidine	ND		0.713	0.106	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[a]anthracene	ND		0.0720	0.0405	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[a]pyrene	ND		0.0720	0.0515	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[b]fluoranthene	ND		0.0720	0.0597	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[g,h,i]perylene	ND		0.0720	0.0563	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[k]fluoranthene	ND		0.0720	0.0560	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzoic acid	ND		0.356	0.245	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzyl alcohol	ND		0.356	0.0646	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Bis(2-chloroethoxy)methane	ND		0.356	0.0620	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Bis(2-chloroethyl)ether	ND		0.180	0.0590	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
bis (2-chloroisopropyl) ether	ND		0.180	0.0802	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Bis(2-ethylhexyl) phthalate	ND		0.180	0.0459	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Butyl benzyl phthalate	ND		0.356	0.0357	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Carbazole	ND		0.180	0.0472	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Chrysene	ND		0.0720	0.0407	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Dibenz(a,h)anthracene	ND		0.0720	0.0550	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Dibenzofuran	ND		0.180	0.0624	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Diethyl phthalate	ND		0.356	0.0391	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Dimethyl phthalate	ND		0.356	0.0464	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Di-n-butyl phthalate	ND		0.356	0.0381	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Di-n-octyl phthalate	ND		0.356	0.0589	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Fluoranthene	ND		0.0720	0.0422	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Fluorene	ND		0.0720	0.0658	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Hexachlorobenzene	ND		0.180	0.0500	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Hexachlorobutadiene	ND		0.180	0.0900	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.180	0.0689	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Hexachloroethane	ND		0.180	0.0708	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Indeno[1,2,3-cd]pyrene	ND		0.0720	0.0611	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Isophorone	ND		0.180	0.0494	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Naphthalene	ND		0.0720	0.0691	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Nitrobenzene	ND		0.180	0.0833	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
N-Nitrosodimethylamine	ND		0.180	0.0473	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
N-Nitrosodi-n-propylamine	ND		0.180	0.0718	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
N-Nitrosodiphenylamine	ND		0.356	0.0455	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pentachloronitrobenzene	ND		0.356	0.0563	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pentachlorophenol	ND		0.356	0.146	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Phenanthrene	ND		0.0720	0.0408	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Phenol	ND		0.356	0.0734	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pyrene	ND		0.0720	0.0397	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pyridine	ND		0.356	0.0843	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
Phenol-d5 (Surr)	*63*		*15 - 110*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*15 - 110*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/14/23 10:48*	*03/15/23 23:53*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.244	0.125	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.244	0.104	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Ethylbenzene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Methyl tert-butyl ether	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
m,p-Xylene	ND		0.0974	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Naphthalene	ND		0.0487	0.0331	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
o-Xylene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Toluene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
C5-C8 Aliphatics (unadjusted)	ND		0.244	0.125	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
C9-C10 Aromatics	ND		0.244	0.0341	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
C9-C12 Aliphatics (unadjusted)	ND		0.244	0.104	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:45*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:45*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1221	ND		0.0223	0.00660	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1232	ND		0.0223	0.00619	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00353	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1248	ND		0.0223	0.00698	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1254	**0.172**		0.0223	0.0174	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1262	ND		0.0223	0.00521	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1260	ND		0.0223	0.00480	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1268	ND		0.0223	0.00476	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoroheptanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorononanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorodecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorotridecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorotetradecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorobutanesulfonic acid	ND		2.08	0.416	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorohexanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
10:2 FTS	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoropentanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoroheptanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorononanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorodecanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctanesulfonamide	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorohexadecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctadecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorobutanoic acid	ND		2.08	0.831	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoropentanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NMeFOSE	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NMeFOSA	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NEtFOSE	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NEtFOSA	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
DONA	ND		3.12	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
11Cl-PF3OUdS	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorododecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoroundecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
8:2 Fluorotelomer sulfonic acid	ND		3.12	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*85*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
M2-8:2 FTS	*94*		*15 - 200*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
M2-6:2 FTS	*98*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C9 PFNA	*104*		*26 - 165*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C6 PFDA	*103*		*26 - 161*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C7 PFUnA	*114*		*12 - 173*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C2-PFDoDA	*102*		*11 - 166*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C2 PFTeDA	*124*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C3 PFBS	*105*		*27 - 179*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C8 PFOS	*107*		*41 - 154*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d3-NMeFOSAA	*62*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d5-NEtFOSAA	*69*		*10 - 193*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C8 FOSA	*96*		*14 - 163*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C4 PFBA	*100*		*28 - 153*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C5 PFPeA	*94*		*24 - 161*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d7-N-MeFOSE-M	*101*		*10 - 179*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d3-NMePFOSA	*68*		*10 - 175*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d5-NEtPFOSA	*73*		*10 - 180*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:55*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.88	1.66	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Arsenic	**1.59**	**J**	2.93	1.37	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Barium	**10.0**		0.488	0.146	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Beryllium	**0.248**	**J**	0.488	0.0976	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Cadmium	ND		0.488	0.0976	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Chromium	**2.85**		1.46	0.342	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Lead	**1.93**		1.46	0.586	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Nickel	**2.49**		0.976	0.254	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Selenium	ND		4.88	1.46	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Silver	ND	^3+	0.976	0.390	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Thallium	ND		2.93	1.27	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Vanadium	**4.90**		0.976	0.420	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Zinc	**28.3**		1.95	0.781	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0631	0.0210	mg/Kg	☼	03/08/23 00:50	03/09/23 09:20	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.9		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	89.1		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0608'
Date Collected: 03/03/23 09:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-16
Matrix: Solid
Percent Solids: 84.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00471	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Acetone	ND		0.0471	0.0106	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Acrylonitrile	ND		0.00471	0.00283	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Benzene	ND		0.00471	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromobenzene	ND		0.00471	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromochloromethane	ND		0.00471	0.00268	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromodichloromethane	ND		0.00471	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromoform	ND		0.00471	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromomethane	ND	*+	0.00943	0.00587	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2-Butanone (MEK)	ND		0.00943	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
n-Butylbenzene	ND		0.00943	0.00505	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
sec-Butylbenzene	ND		0.00471	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
tert-Butylbenzene	ND		0.00471	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Carbon disulfide	ND		0.00943	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Carbon tetrachloride	ND		0.00471	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chlorobenzene	ND		0.00471	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chloroethane	ND		0.00943	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chloroform	ND		0.00471	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chloromethane	ND		0.00943	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2-Chlorotoluene	ND		0.00471	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
4-Chlorotoluene	ND		0.00471	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dibromo-3-Chloropropane	ND		0.00943	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Dibromochloromethane	ND		0.00471	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dibromoethane (EDB)	ND		0.00471	0.00339	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Dibromomethane	ND		0.00471	0.00277	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dichlorobenzene	ND		0.00471	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3-Dichlorobenzene	ND		0.00471	0.00378	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,4-Dichlorobenzene	ND		0.00471	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Dichlorodifluoromethane (Freon 12)	ND		0.00943	0.00253	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1-Dichloroethane	ND		0.00471	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dichloroethane	ND		0.00471	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1-Dichloroethene	ND		0.00471	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
cis-1,2-Dichloroethene	ND		0.00471	0.00273	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
trans-1,2-Dichloroethene	ND		0.00471	0.00293	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dichloropropane	ND		0.00471	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3-Dichloropropane	ND		0.00471	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2,2-Dichloropropane	ND		0.00471	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1-Dichloropropene	ND		0.00471	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
cis-1,3-Dichloropropene	ND		0.00471	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
trans-1,3-Dichloropropene	ND		0.00471	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethylbenzene	ND		0.00471	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Hexachlorobutadiene	ND		0.00943	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2-Hexanone (MBK)	ND		0.00943	0.00277	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Isopropylbenzene	ND		0.00471	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
4-Isopropyltoluene	ND		0.00471	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Methyl tert-butyl ether	ND		0.00471	0.00272	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
4-Methyl-2-pentanone (MIBK)	ND		0.00943	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Methylene Chloride	ND		0.00943	0.00253	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Naphthalene	ND		0.00471	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00471	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Styrene	ND		0.00471	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,1,2-Tetrachloroethane	ND		0.00471	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,2,2-Tetrachloroethane	ND		0.00471	0.00432	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Tetrachloroethene	ND		0.00471	0.00262	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Toluene	ND		0.00471	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,3-Trichlorobenzene	ND		0.00471	0.00398	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,4-Trichlorobenzene	ND		0.00471	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3,5-Trichlorobenzene	ND		0.00471	0.00448	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,1-Trichloroethane	ND		0.00471	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,2-Trichloroethane	ND		0.00471	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Trichloroethene	ND		0.00471	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Trichlorofluoromethane (Freon 11)	ND		0.00471	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,3-Trichloropropane	ND		0.00471	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,4-Trimethylbenzene	ND		0.00471	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3,5-Trimethylbenzene	ND		0.00471	0.00401	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Vinyl chloride	ND		0.00471	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
m,p-Xylene	ND		0.00471	0.00644	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
o-Xylene	ND		0.00471	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Tetrahydrofuran	ND		0.00943	0.00239	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethyl ether	ND		0.00471	0.00248	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Tert-amyl methyl ether	ND		0.00471	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethyl tert-butyl ether	ND		0.00471	0.00310	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
di-Isopropyl ether	ND		0.00471	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
tert-Butanol	ND		0.0943	0.0253	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,4-Dioxane	ND		0.0943	0.0293	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
trans-1,4-Dichloro-2-butene	ND		0.0236	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethanol	ND		0.943	0.0585	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3-Dichloropropene, Total	ND		0.00471	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Xylenes, Total	ND		0.0141	0.00471	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,2,4-Trichlorobenzene	ND		0.375	0.0858	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,2-Dichlorobenzene	ND		0.375	0.0722	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,3-Dichlorobenzene	ND		0.375	0.0907	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,4-Dichlorobenzene	ND		0.375	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1-Methylnaphthalene	ND		0.0757	0.0636	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4,5-Trichlorophenol	ND		0.375	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4,6-Trichlorophenol	ND		0.190	0.0463	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4-Dichlorophenol	ND		0.190	0.0755	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4-Dimethylphenol	ND		0.375	0.0549	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4-Dinitrophenol	ND		0.375	0.0985	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0608'
Date Collected: 03/03/23 09:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-16
Matrix: Solid
Percent Solids: 84.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,6-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Chloronaphthalene	ND		0.375	0.0866	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Chlorophenol	ND		0.190	0.0775	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Methylnaphthalene	ND		0.0757	0.0560	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Methylphenol	ND		0.375	0.0547	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Nitroaniline	ND		0.375	0.0356	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Nitrophenol	ND		0.190	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
3 & 4 Methylphenol	ND		0.375	0.0710	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
3,3'-Dichlorobenzidine	ND		0.375	0.0619	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
3-Nitroaniline	ND		0.375	0.0335	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Bromophenyl phenyl ether	ND		0.375	0.0423	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Chloro-3-methylphenol	ND		0.375	0.0733	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Chloroaniline	ND		0.190	0.0287	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0401	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Nitroaniline	ND		0.190	0.0598	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Acenaphthene	ND		0.0757	0.0604	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Acenaphthylene	ND		0.0757	0.0497	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Acetophenone	ND		0.190	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Aniline	ND		0.375	0.0287	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Anthracene	ND		0.0757	0.0438	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0639	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzidine	ND		0.749	0.111	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[a]anthracene	ND		0.0757	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[a]pyrene	ND		0.0757	0.0542	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[b]fluoranthene	ND		0.0757	0.0628	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[g,h,i]perylene	ND		0.0757	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[k]fluoranthene	ND		0.0757	0.0589	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzoic acid	ND		0.375	0.258	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzyl alcohol	ND		0.375	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0652	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Bis(2-chloroethyl)ether	ND		0.190	0.0620	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0843	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Butyl benzyl phthalate	ND		0.375	0.0376	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Carbazole	ND		0.190	0.0496	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Chrysene	ND		0.0757	0.0428	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Dibenz(a,h)anthracene	ND		0.0757	0.0578	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Dibenzofuran	ND		0.190	0.0656	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Diethyl phthalate	ND		0.375	0.0411	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Dimethyl phthalate	ND		0.375	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Di-n-butyl phthalate	ND		0.375	0.0401	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Di-n-octyl phthalate	ND		0.375	0.0619	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Fluoranthene	ND		0.0757	0.0444	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Fluorene	ND		0.0757	0.0691	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Hexachlorobenzene	ND		0.190	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Hexachlorobutadiene	ND		0.190	0.0946	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Hexachloroethane	ND		0.190	0.0745	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0757	0.0643	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Isophorone	ND		0.190	0.0519	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Naphthalene	ND		0.0757	0.0727	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Nitrobenzene	ND		0.190	0.0875	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
N-Nitrosodimethylamine	ND		0.190	0.0497	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0755	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
N-Nitrosodiphenylamine	ND		0.375	0.0478	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pentachloronitrobenzene	ND		0.375	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pentachlorophenol	ND		0.375	0.153	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Phenanthrene	ND		0.0757	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Phenol	ND		0.375	0.0772	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pyrene	ND		0.0757	0.0418	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pyridine	ND		0.375	0.0887	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
2-Fluorophenol (Surr)	*92*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
Nitrobenzene-d5 (Surr)	*89*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:22*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.223	0.114	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.223	0.0955	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Ethylbenzene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Methyl tert-butyl ether	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
m,p-Xylene	ND		0.0893	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Naphthalene	**0.0316**	**J B**	0.0446	0.0304	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
o-Xylene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Toluene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
C5-C8 Aliphatics (unadjusted)	ND		0.223	0.114	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
C9-C10 Aromatics	ND		0.223	0.0312	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
C9-C12 Aliphatics (unadjusted)	ND		0.223	0.0955	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:10*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:10*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1221	ND		0.0228	0.00674	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1232	ND		0.0228	0.00632	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00360	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1248	ND		0.0228	0.00713	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1254	ND		0.0228	0.0177	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1260	ND		0.0228	0.00490	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1268	ND		0.0228	0.00486	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoroheptanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorononanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorodecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorotridecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorotetradecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorobutanesulfonic acid	ND		2.22	0.443	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorohexanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
10:2 FTS	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoropentanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoroheptanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorononanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorodecanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctanesulfonamide	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorohexadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorobutanoic acid	ND		2.22	0.886	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoropentanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NMeFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NMeFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NEtFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NEtFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
DONA	ND		3.32	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
11Cl-PF3OUdS	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorododecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoroundecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.32	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
M2-8:2 FTS	*103*		*15 - 200*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
M2-6:2 FTS	*111*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C5 PFHxA	*109*		*10 - 174*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C8 PFOA	*112*		*26 - 159*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C9 PFNA	*107*		*26 - 165*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C6 PFDA	*107*		*26 - 161*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C7 PFUnA	*107*		*12 - 173*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C2-PFDoDA	*109*		*11 - 166*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C2 PFTeDA	*132*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d3-NMeFOSAA	*87*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d5-NEtFOSAA	*94*		*10 - 193*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C4 PFBA	*104*		*28 - 153*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d7-N-MeFOSE-M	*112*		*10 - 179*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d9-N-EtFOSE-M	*114*		*10 - 185*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d5-NEtPFOSA	*111*		*10 - 180*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C3 HFPO-DA	*94*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.00	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Arsenic	**2.02**	**J**	2.40	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Barium	**12.8**		0.400	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Beryllium	**0.209**	**J**	0.400	0.0801	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Cadmium	ND		0.400	0.0801	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Chromium	**3.76**		1.20	0.280	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Lead	**2.05**		1.20	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Nickel	**2.15**		0.801	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Selenium	ND		4.00	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Silver	ND	^3+	0.801	0.320	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Vanadium	**5.76**		0.801	0.344	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Zinc	**19.2**		1.60	0.641	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0688	0.0229	mg/Kg	☼	03/08/23 00:50	03/09/23 09:18	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0608'
Date Collected: 03/03/23 09:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-16
Matrix: Solid
Percent Solids: 84.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	84.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0810'
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-17
Matrix: Solid
Percent Solids: 82.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00449	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Acetone	ND		0.0449	0.0101	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Acrylonitrile	ND		0.00449	0.00269	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Benzene	ND		0.00449	0.00300	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromobenzene	ND		0.00449	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromochloromethane	ND		0.00449	0.00255	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromodichloromethane	ND		0.00449	0.00330	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromoform	ND		0.00449	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromomethane	ND		0.00898	0.00559	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2-Butanone (MEK)	ND		0.00898	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
n-Butylbenzene	ND		0.00898	0.00481	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
sec-Butylbenzene	ND		0.00449	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
tert-Butylbenzene	ND		0.00449	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Carbon disulfide	ND		0.00898	0.00315	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Carbon tetrachloride	ND		0.00449	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chlorobenzene	ND		0.00449	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chloroethane	ND		0.00898	0.00330	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chloroform	ND		0.00449	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chloromethane	ND		0.00898	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2-Chlorotoluene	ND		0.00449	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
4-Chlorotoluene	ND		0.00449	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dibromo-3-Chloropropane	ND		0.00898	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Dibromochloromethane	ND		0.00449	0.00297	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dibromoethane (EDB)	ND		0.00449	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Dibromomethane	ND		0.00449	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dichlorobenzene	ND		0.00449	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3-Dichlorobenzene	ND		0.00449	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,4-Dichlorobenzene	ND		0.00449	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Dichlorodifluoromethane (Freon 12)	ND		0.00898	0.00241	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1-Dichloroethane	ND		0.00449	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dichloroethane	ND		0.00449	0.00303	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1-Dichloroethene	ND		0.00449	0.00275	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
cis-1,2-Dichloroethene	ND		0.00449	0.00260	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
trans-1,2-Dichloroethene	ND		0.00449	0.00279	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dichloropropane	ND		0.00449	0.00297	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3-Dichloropropane	ND		0.00449	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2,2-Dichloropropane	ND		0.00449	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1-Dichloropropene	ND		0.00449	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
cis-1,3-Dichloropropene	ND		0.00449	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
trans-1,3-Dichloropropene	ND		0.00449	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethylbenzene	ND		0.00449	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Hexachlorobutadiene	ND		0.00898	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2-Hexanone (MBK)	ND		0.00898	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Isopropylbenzene	ND		0.00449	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
4-Isopropyltoluene	ND		0.00449	0.00441	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Methyl tert-butyl ether	ND		0.00449	0.00259	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		0.00898	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Methylene Chloride	ND		0.00898	0.00241	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Naphthalene	ND		0.00449	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Styrene	ND		0.00449	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,1,2-Tetrachloroethane	ND		0.00449	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,2,2-Tetrachloroethane	ND		0.00449	0.00411	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Tetrachloroethene	ND		0.00449	0.00250	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Toluene	ND		0.00449	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,3-Trichlorobenzene	ND		0.00449	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,4-Trichlorobenzene	ND		0.00449	0.00414	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3,5-Trichlorobenzene	ND		0.00449	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,1-Trichloroethane	ND		0.00449	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,2-Trichloroethane	ND		0.00449	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Trichloroethene	ND		0.00449	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Trichlorofluoromethane (Freon 11)	ND		0.00449	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,3-Trichloropropane	ND		0.00449	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,4-Trimethylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3,5-Trimethylbenzene	ND		0.00449	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Vinyl chloride	ND		0.00449	0.00274	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
m,p-Xylene	ND		0.00449	0.00613	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
o-Xylene	ND		0.00449	0.00328	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Tetrahydrofuran	ND		0.00898	0.00227	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethyl ether	ND		0.00449	0.00236	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Tert-amyl methyl ether	ND		0.00449	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethyl tert-butyl ether	ND		0.00449	0.00295	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
di-Isopropyl ether	ND		0.00449	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
tert-Butanol	ND		0.0898	0.0241	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,4-Dioxane	ND		0.0898	0.0279	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
trans-1,4-Dichloro-2-butene	ND		0.0224	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethanol	ND		0.898	0.0557	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3-Dichloropropene, Total	ND		0.00449	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Xylenes, Total	ND		0.0135	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.396	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,2,4-Trichlorobenzene	ND		0.396	0.0907	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,2-Dichlorobenzene	ND		0.396	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,3-Dichlorobenzene	ND		0.396	0.0959	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,4-Dichlorobenzene	ND		0.396	0.0932	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1-Methylnaphthalene	ND		0.0800	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4,5-Trichlorophenol	ND		0.396	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4,6-Trichlorophenol	ND		0.200	0.0490	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4-Dichlorophenol	ND		0.200	0.0798	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4-Dimethylphenol	ND		0.396	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4-Dinitrophenol	ND		0.396	0.104	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0810'
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-17
Matrix: Solid
Percent Solids: 82.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.200	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,6-Dinitrotoluene	ND		0.200	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Chloronaphthalene	ND		0.396	0.0915	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Chlorophenol	ND		0.200	0.0819	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Methylnaphthalene	ND		0.0800	0.0592	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Methylphenol	ND		0.396	0.0578	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Nitroaniline	ND		0.396	0.0377	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Nitrophenol	ND		0.200	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
3 & 4 Methylphenol	ND		0.396	0.0750	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
3,3'-Dichlorobenzidine	ND		0.396	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
3-Nitroaniline	ND		0.396	0.0354	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4,6-Dinitro-2-methylphenol	ND		0.396	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Bromophenyl phenyl ether	ND		0.396	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Chloro-3-methylphenol	ND		0.396	0.0775	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Chloroaniline	ND		0.200	0.0304	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Chlorophenyl phenyl ether	ND		0.396	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Nitroaniline	ND		0.200	0.0632	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Nitrophenol	ND		0.396	0.138	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Acenaphthene	ND		0.0800	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Acenaphthylene	ND		0.0800	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Acetophenone	ND		0.200	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Aniline	ND		0.396	0.0304	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Anthracene	ND		0.0800	0.0463	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Azobenzene/Diphenyldiazene	ND		0.396	0.0675	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzidine	ND		0.792	0.117	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[a]anthracene	ND		0.0800	0.0450	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[a]pyrene	ND		0.0800	0.0572	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[b]fluoranthene	ND		0.0800	0.0663	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[g,h,i]perylene	ND		0.0800	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[k]fluoranthene	ND		0.0800	0.0623	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzoic acid	ND		0.396	0.272	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzyl alcohol	ND		0.396	0.0717	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Bis(2-chloroethoxy)methane	ND		0.396	0.0689	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Bis(2-chloroethyl)ether	ND		0.200	0.0655	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
bis (2-chloroisopropyl) ether	ND		0.200	0.0891	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Bis(2-ethylhexyl) phthalate	ND		0.200	0.0510	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Butyl benzyl phthalate	ND		0.396	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Carbazole	ND		0.200	0.0524	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Chrysene	ND		0.0800	0.0452	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Dibenz(a,h)anthracene	ND		0.0800	0.0611	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Dibenzofuran	ND		0.200	0.0693	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Diethyl phthalate	ND		0.396	0.0434	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Dimethyl phthalate	ND		0.396	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Di-n-butyl phthalate	ND		0.396	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Di-n-octyl phthalate	ND		0.396	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Fluoranthene	ND		0.0800	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Fluorene	ND		0.0800	0.0731	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Hexachlorobenzene	ND		0.200	0.0556	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Hexachlorobutadiene	ND		0.200	0.0999	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.200	0.0765	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Hexachloroethane	ND		0.200	0.0787	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Isophorone	ND		0.200	0.0548	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Naphthalene	ND		0.0800	0.0768	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Nitrobenzene	ND		0.200	0.0925	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
N-Nitrosodimethylamine	ND		0.200	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
N-Nitrosodi-n-propylamine	ND		0.200	0.0798	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
N-Nitrosodiphenylamine	ND		0.396	0.0505	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pentachloronitrobenzene	ND		0.396	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pentachlorophenol	ND		0.396	0.162	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Phenanthrene	ND		0.0800	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Phenol	ND		0.396	0.0816	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pyrene	ND		0.0800	0.0442	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pyridine	ND		0.396	0.0937	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
Nitrobenzene-d5 (Surr)	*105*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
Phenol-d5 (Surr)	*72*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
Terphenyl-d14	*99*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:50*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.410	0.210	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.410	0.176	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Ethylbenzene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Methyl tert-butyl ether	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
m,p-Xylene	ND		0.164	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Naphthalene	ND		0.0821	0.0558	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
o-Xylene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Toluene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.410	0.210	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
C9-C10 Aromatics	ND		0.410	0.0574	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.410	0.176	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:49*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0240	0.0173	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1221	ND		0.0240	0.00709	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1232	ND		0.0240	0.00664	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0240	0.00379	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1248	ND		0.0240	0.00749	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1254	ND		0.0240	0.0187	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1262	ND		0.0240	0.00559	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1260	ND		0.0240	0.00516	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1268	ND		0.0240	0.00511	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoroheptanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorononanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorodecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorotridecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorotetradecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorobutanesulfonic acid	ND		2.39	0.478	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorohexanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NEtFOSAA	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NMeFOSAA	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
10:2 FTS	ND		2.39	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoropentanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoroheptanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorononanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorodecanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctanesulfonamide	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorohexadecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctadecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorobutanoic acid	ND		2.39	0.956	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoropentanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NMeFOSE	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NMeFOSA	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NEtFOSE	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NEtFOSA	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
HFPODA	ND		2.39	1.20	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
DONA	ND		3.59	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
9Cl-PF3ONS	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
11Cl-PF3OUdS	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorododecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.39	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoroundecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.39	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.59	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
M2-6:2 FTS	*102*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C8 PFOA	*116*		*26 - 159*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C2 PFTeDA	*135*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C3 PFBS	*114*		*27 - 179*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d3-NMeFOSAA	*21*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d5-NEtFOSAA	*25*		*10 - 193*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C8 FOSA	*117*		*14 - 163*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C4 PFBA	*104*		*28 - 153*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C5 PFPeA	*95*		*24 - 161*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d7-N-MeFOSE-M	*123*		*10 - 179*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d3-NMePFOSA	*111*		*10 - 175*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d9-N-EtFOSE-M	*130*		*10 - 185*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d5-NEtPFOSA	*118*		*10 - 180*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	5.98	2.03	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Arsenic	**7.90**		3.59	1.67	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Barium	**80.1**	**F1**	0.598	0.179	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Beryllium	**1.17**		0.598	0.120	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Cadmium	ND		0.598	0.120	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Chromium	**21.4**		1.79	0.418	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Lead	**7.35**	**F1**	1.79	0.717	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Nickel	**10.9**		1.20	0.311	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Selenium	ND		5.98	1.79	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Silver	ND	^3+	1.20	0.478	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Thallium	ND		35.9	15.5	mg/Kg	☼	03/08/23 00:33	03/10/23 03:22	10
Vanadium	**34.9**		1.20	0.514	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Zinc	**47.7**		2.39	0.956	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F1	0.0686	0.0229	mg/Kg	☼	03/08/23 00:46	03/10/23 09:53	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0810'
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-17
Matrix: Solid
Percent Solids: 82.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00443	0.00289	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Acetone	ND	*3 F1 F2	0.0443	0.00993	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Acrylonitrile	ND	*3 F1 F2	0.00443	0.00266	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Benzene	ND	*3	0.00443	0.00296	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromobenzene	ND	*3	0.00443	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromochloromethane	ND	*3	0.00443	0.00252	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromodichloromethane	ND	*3	0.00443	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromoform	ND	*3	0.00443	0.00339	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromomethane	ND	*3 *+	0.00886	0.00552	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2-Butanone (MEK)	ND	*3	0.00886	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
n-Butylbenzene	ND	*3	0.00886	0.00475	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
sec-Butylbenzene	ND	*3	0.00443	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
tert-Butylbenzene	ND	*3	0.00443	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Carbon disulfide	ND	*3	0.00886	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Carbon tetrachloride	ND	*3 F1	0.00443	0.00279	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chlorobenzene	ND	*3	0.00443	0.00324	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chloroethane	ND	*3 F1 *+	0.00886	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chloroform	ND	*3	0.00443	0.00298	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chloromethane	ND	*3	0.00886	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2-Chlorotoluene	ND	*3	0.00443	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
4-Chlorotoluene	ND	*3	0.00443	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dibromo-3-Chloropropane	ND	*3 F1 F2	0.00886	0.00376	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Dibromochloromethane	ND	*3	0.00443	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dibromoethane (EDB)	ND	*3	0.00443	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Dibromomethane	ND	*3	0.00443	0.00261	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dichlorobenzene	ND	*3	0.00443	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3-Dichlorobenzene	ND	*3	0.00443	0.00355	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,4-Dichlorobenzene	ND	*3	0.00443	0.00420	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00886	0.00238	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1-Dichloroethane	ND	*3	0.00443	0.00300	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dichloroethane	ND	*3	0.00443	0.00299	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1-Dichloroethene	ND	*3	0.00443	0.00271	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
cis-1,2-Dichloroethene	ND	*3	0.00443	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
trans-1,2-Dichloroethene	ND	*3	0.00443	0.00276	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dichloropropane	ND	*3	0.00443	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3-Dichloropropane	ND	*3	0.00443	0.00339	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2,2-Dichloropropane	ND	*3	0.00443	0.00306	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1-Dichloropropene	ND	*3	0.00443	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
cis-1,3-Dichloropropene	ND	*3	0.00443	0.00289	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
trans-1,3-Dichloropropene	ND	*3	0.00443	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethylbenzene	ND	*3	0.00443	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Hexachlorobutadiene	ND	*3	0.00886	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2-Hexanone (MBK)	ND	*3 F1 F2	0.00886	0.00261	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Isopropylbenzene	ND	*3	0.00443	0.00335	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
4-Isopropyltoluene	ND	*3	0.00443	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Methyl tert-butyl ether	ND	*3	0.00443	0.00255	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
4-Methyl-2-pentanone (MIBK)	ND	*3 F1	0.00886	0.00286	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Methylene Chloride	ND	*3	0.00886	0.00238	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Naphthalene	ND	*3 F1 F2	0.00443	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00443	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Styrene	ND	*3	0.00443	0.00343	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00443	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00443	0.00406	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Tetrachloroethene	ND	*3	0.00443	0.00246	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Toluene	ND	*3	0.00443	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,3-Trichlorobenzene	ND	*3	0.00443	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,4-Trichlorobenzene	ND	*3	0.00443	0.00409	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3,5-Trichlorobenzene	ND	*3	0.00443	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,1-Trichloroethane	ND	*3	0.00443	0.00302	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,2-Trichloroethane	ND	*3	0.00443	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Trichloroethene	ND	*3	0.00443	0.00298	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00443	0.00339	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,3-Trichloropropane	ND	*3	0.00443	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,4-Trimethylbenzene	ND	*3	0.00443	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3,5-Trimethylbenzene	ND	*3	0.00443	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Vinyl chloride	ND	*3	0.00443	0.00270	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
m,p-Xylene	ND	*3	0.00443	0.00605	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
o-Xylene	ND	*3	0.00443	0.00323	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Tetrahydrofuran	ND	*3 F1 F2	0.00886	0.00224	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethyl ether	ND	*3	0.00443	0.00233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Tert-amyl methyl ether	ND	*3	0.00443	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethyl tert-butyl ether	ND	*3	0.00443	0.00292	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
di-Isopropyl ether	ND	*3	0.00443	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
tert-Butanol	ND	*3 F1 F2	0.0886	0.0238	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,4-Dioxane	ND	*3 F1 F2	0.0886	0.0276	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0222	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethanol	ND	*3 F1 F2	0.886	0.0549	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3-Dichloropropene, Total	ND		0.00443	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Xylenes, Total	ND		0.0133	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*	*3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*
Toluene-d8 (Surr)	*96*	*3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*165*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*
Dibromofluoromethane (Surr)	*154*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00444	0.00289	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Acetone	ND	*3	0.0444	0.00994	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Acrylonitrile	ND	*3	0.00444	0.00266	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Benzene	ND	*3	0.00444	0.00296	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromobenzene	ND	*3	0.00444	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromochloromethane	ND	*3	0.00444	0.00252	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromodichloromethane	ND	*3	0.00444	0.00326	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromoform	ND	*3	0.00444	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromomethane	ND	*3	0.00887	0.00553	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2-Butanone (MEK)	ND	*3	0.00887	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00887	0.00475	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
sec-Butylbenzene	ND	*3	0.00444	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
tert-Butylbenzene	ND	*3	0.00444	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Carbon disulfide	ND	*3	0.00887	0.00311	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Carbon tetrachloride	ND	*3	0.00444	0.00279	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chlorobenzene	ND	*3	0.00444	0.00325	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chloroethane	ND	*3	0.00887	0.00326	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chloroform	ND	*3	0.00444	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chloromethane	ND	*3	0.00887	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2-Chlorotoluene	ND	*3	0.00444	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
4-Chlorotoluene	ND	*3	0.00444	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.00887	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Dibromochloromethane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dibromoethane (EDB)	ND	*3	0.00444	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Dibromomethane	ND	*3	0.00444	0.00261	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dichlorobenzene	ND	*3	0.00444	0.00412	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3-Dichlorobenzene	ND	*3	0.00444	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,4-Dichlorobenzene	ND	*3	0.00444	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.00887	0.00238	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1-Dichloroethane	ND	*3	0.00444	0.00301	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dichloroethane	ND	*3	0.00444	0.00299	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1-Dichloroethene	ND	*3	0.00444	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
cis-1,2-Dichloroethene	ND	*3	0.00444	0.00256	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
trans-1,2-Dichloroethene	ND	*3	0.00444	0.00276	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dichloropropane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3-Dichloropropane	ND	*3	0.00444	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2,2-Dichloropropane	ND	*3	0.00444	0.00306	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1-Dichloropropene	ND	*3	0.00444	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
cis-1,3-Dichloropropene	ND	*3	0.00444	0.00289	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
trans-1,3-Dichloropropene	ND	*3	0.00444	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethylbenzene	ND	*3	0.00444	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Hexachlorobutadiene	ND	*3	0.00887	0.00446	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2-Hexanone (MBK)	ND	*3	0.00887	0.00261	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Isopropylbenzene	ND	*3	0.00444	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
4-Isopropyltoluene	ND	*3	0.00444	0.00436	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Methyl tert-butyl ether	ND	*3	0.00444	0.00255	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00887	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Methylene Chloride	ND	*3	0.00887	0.00238	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Naphthalene	ND	*3	0.00444	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
N-Propylbenzene	ND	*3	0.00444	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Styrene	ND	*3	0.00444	0.00343	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00444	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1,2,2-Tetrachloroethane	ND	*3 *+	0.00444	0.00406	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Tetrachloroethene	ND	*3	0.00444	0.00247	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Toluene	ND	*3	0.00444	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,3-Trichlorobenzene	ND	*3	0.00444	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,4-Trichlorobenzene	ND	*3	0.00444	0.00409	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3,5-Trichlorobenzene	ND	*3	0.00444	0.00421	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1,1-Trichloroethane	ND	*3	0.00444	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1

Client Sample ID: 2023-SB-12-1012' **Lab Sample ID: 620-10117-18**
Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00444	0.00334	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Trichloroethene	ND	*3	0.00444	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00444	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,3-Trichloropropane	ND	*3	0.00444	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,4-Trimethylbenzene	ND	*3	0.00444	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3,5-Trimethylbenzene	ND	*3	0.00444	0.00377	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Vinyl chloride	ND	*3	0.00444	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
m,p-Xylene	ND	*3	0.00444	0.00606	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
o-Xylene	ND	*3	0.00444	0.00324	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Tetrahydrofuran	ND	*3	0.00887	0.00224	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethyl ether	ND	*3	0.00444	0.00233	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Tert-amyl methyl ether	ND	*3	0.00444	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethyl tert-butyl ether	ND	*3	0.00444	0.00292	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
di-Isopropyl ether	ND	*3	0.00444	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
tert-Butanol	ND	*3	0.0887	0.0238	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,4-Dioxane	ND	*3	0.0887	0.0276	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0222	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethanol	ND	*3	0.887	0.0550	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3-Dichloropropene, Total	ND		0.00444	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Xylenes, Total	ND		0.0133	0.00444	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*	*3	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*
Toluene-d8 (Surr)	*89*	*3	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*158*	*3 S1+	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*
Dibromofluoromethane (Surr)	*137*	*3 S1+	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.360	0.0640	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,2,4-Trichlorobenzene	ND		0.360	0.0825	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,2-Dichlorobenzene	ND		0.360	0.0694	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,3-Dichlorobenzene	ND		0.360	0.0872	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,4-Dichlorobenzene	ND		0.360	0.0848	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1-Methylnaphthalene	ND		0.0728	0.0611	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4,5-Trichlorophenol	ND		0.360	0.0412	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4,6-Trichlorophenol	ND		0.182	0.0445	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dichlorophenol	ND		0.182	0.0725	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dimethylphenol	ND		0.360	0.0528	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dinitrophenol	ND		0.360	0.0947	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dinitrotoluene	ND		0.182	0.0427	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,6-Dinitrotoluene	ND		0.182	0.0427	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Chloronaphthalene	ND		0.360	0.0832	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Chlorophenol	ND		0.182	0.0745	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Methylnaphthalene	ND		0.0728	0.0538	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Methylphenol	ND		0.360	0.0526	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Nitroaniline	ND		0.360	0.0343	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Nitrophenol	ND		0.182	0.0647	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
3 & 4 Methylphenol	ND		0.360	0.0682	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
3,3'-Dichlorobenzidine	ND		0.360	0.0595	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.360	0.0322	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4,6-Dinitro-2-methylphenol	ND		0.360	0.0647	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Bromophenyl phenyl ether	ND		0.360	0.0407	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Chloro-3-methylphenol	ND		0.360	0.0705	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Chloroaniline	ND		0.182	0.0276	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Chlorophenyl phenyl ether	ND		0.360	0.0385	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Nitroaniline	ND		0.182	0.0575	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Nitrophenol	ND		0.360	0.125	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Acenaphthene	ND		0.0728	0.0580	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Acenaphthylene	ND		0.0728	0.0478	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Acetophenone	ND		0.182	0.0444	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Aniline	ND		0.360	0.0276	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Anthracene	ND		0.0728	0.0421	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Azobenzene/Diphenyldiazene	ND		0.360	0.0614	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzidine	ND	F1	0.720	0.107	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[a]anthracene	ND		0.0728	0.0409	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[a]pyrene	ND		0.0728	0.0520	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[b]fluoranthene	ND		0.0728	0.0603	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[g,h,i]perylene	ND		0.0728	0.0568	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[k]fluoranthene	ND		0.0728	0.0566	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzoic acid	ND		0.360	0.248	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzyl alcohol	ND		0.360	0.0652	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Bis(2-chloroethoxy)methane	ND		0.360	0.0626	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Bis(2-chloroethyl)ether	ND		0.182	0.0596	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
bis (2-chloroisopropyl) ether	ND		0.182	0.0811	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Bis(2-ethylhexyl) phthalate	ND		0.182	0.0464	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Butyl benzyl phthalate	ND		0.360	0.0361	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Carbazole	ND		0.182	0.0477	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Chrysene	ND		0.0728	0.0411	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Dibenz(a,h)anthracene	ND		0.0728	0.0555	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Dibenzofuran	ND		0.182	0.0631	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Diethyl phthalate	ND		0.360	0.0395	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Dimethyl phthalate	ND		0.360	0.0469	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Di-n-butyl phthalate	ND		0.360	0.0385	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Di-n-octyl phthalate	ND		0.360	0.0595	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Fluoranthene	ND		0.0728	0.0427	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Fluorene	ND		0.0728	0.0664	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachlorobenzene	ND		0.182	0.0505	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachlorobutadiene	ND		0.182	0.0909	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachlorocyclopentadiene	ND		0.182	0.0696	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachloroethane	ND		0.182	0.0716	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0728	0.0617	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Isophorone	ND		0.182	0.0499	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Naphthalene	ND		0.0728	0.0698	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Nitrobenzene	ND		0.182	0.0841	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
N-Nitrosodimethylamine	ND		0.182	0.0478	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
N-Nitrosodi-n-propylamine	ND		0.182	0.0725	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
N-Nitrosodiphenylamine	ND		0.360	0.0459	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Pentachloronitrobenzene	ND		0.360	0.0568	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.360	0.147	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Phenanthrene	ND		0.0728	0.0412	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Phenol	ND		0.360	0.0742	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Pyrene	ND		0.0728	0.0401	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Pyridine	ND		0.360	0.0852	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
2-Fluorophenol (Surr)	*74*		*15 - 110*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
Nitrobenzene-d5 (Surr)	*52*		*30 - 130*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
Phenol-d5 (Surr)	*50*		*15 - 110*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
Terphenyl-d14	*92*		*30 - 130*	*03/14/23 10:48*	*03/15/23 21:33*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.402	0.206	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.402	0.172	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Ethylbenzene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Methyl tert-butyl ether	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
m,p-Xylene	ND		0.161	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Naphthalene	**0.0583**	**J B**	0.0804	0.0546	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
o-Xylene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Toluene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
C5-C8 Aliphatics (unadjusted)	ND		0.402	0.206	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
C9-C10 Aromatics	ND		0.402	0.0563	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
C9-C12 Aliphatics (unadjusted)	ND		0.402	0.172	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/08/23 06:56*	*03/08/23 10:12*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/08/23 06:56*	*03/08/23 10:12*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.0230	0.0166	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1232	ND		0.0230	0.00637	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1242	ND		0.0230	0.00363	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1254	**0.0274**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1260	ND	F2	0.0230	0.00494	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:44*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:44*	*1*

Client Sample ID: 2023-SB-12-1012' **Lab Sample ID: 620-10117-18**
Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	101		30 - 150	03/09/23 15:26	03/10/23 19:44	1
DCB Decachlorobiphenyl (Surr)	107		30 - 150	03/09/23 15:26	03/10/23 19:44	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	103		10 - 200	03/07/23 18:02	03/16/23 03:01	1
M2-8:2 FTS	111		15 - 200	03/07/23 18:02	03/16/23 03:01	1
M2-6:2 FTS	124		10 - 200	03/07/23 18:02	03/16/23 03:01	1
13C5 PFHxA	119		10 - 174	03/07/23 18:02	03/16/23 03:01	1
13C4 PFHpA	130		10 - 178	03/07/23 18:02	03/16/23 03:01	1
13C8 PFOA	129		26 - 159	03/07/23 18:02	03/16/23 03:01	1

Client Sample ID: 2023-SB-12-1012' **Lab Sample ID: 620-10117-18**
Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	117		26 - 165	03/07/23 18:02	03/16/23 03:01	1
13C6 PFDA	122		26 - 161	03/07/23 18:02	03/16/23 03:01	1
13C7 PFUnA	136		12 - 173	03/07/23 18:02	03/16/23 03:01	1
13C2-PFDoDA	126		11 - 166	03/07/23 18:02	03/16/23 03:01	1
13C2 PFTeDA	151		10 - 169	03/07/23 18:02	03/16/23 03:01	1
13C3 PFBS	129		27 - 179	03/07/23 18:02	03/16/23 03:01	1
13C3 PFHxS	120		24 - 171	03/07/23 18:02	03/16/23 03:01	1
13C8 PFOS	122		41 - 154	03/07/23 18:02	03/16/23 03:01	1
d3-NMeFOSAA	71		10 - 178	03/07/23 18:02	03/16/23 03:01	1
d5-NEtFOSAA	81		10 - 193	03/07/23 18:02	03/16/23 03:01	1
13C8 FOSA	122		14 - 163	03/07/23 18:02	03/16/23 03:01	1
13C4 PFBA	121		28 - 153	03/07/23 18:02	03/16/23 03:01	1
13C5 PFPeA	110		24 - 161	03/07/23 18:02	03/16/23 03:01	1
d7-N-MeFOSE-M	136		10 - 179	03/07/23 18:02	03/16/23 03:01	1
d3-NMePFOSA	120		10 - 175	03/07/23 18:02	03/16/23 03:01	1
d9-N-EtFOSE-M	138		10 - 185	03/07/23 18:02	03/16/23 03:01	1
d5-NEtPFOSA	129		10 - 180	03/07/23 18:02	03/16/23 03:01	1
13C3 HFPO-DA	102		10 - 169	03/07/23 18:02	03/16/23 03:01	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F2	4.31	1.46	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Arsenic	**3.17**	**F2**	2.58	1.21	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Barium	**17.6**	**F1**	0.431	0.129	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Beryllium	**0.348**	**J**	0.431	0.0861	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Cadmium	ND	F2	0.431	0.0861	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Chromium	**6.59**		1.29	0.301	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Lead	**2.85**	**F1**	1.29	0.517	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Nickel	**3.47**		0.861	0.224	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Selenium	ND	F2	4.31	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Silver	ND	F2 ^3+	0.861	0.344	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Thallium	ND	F2 F1	2.58	1.12	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Vanadium	**9.07**	**F1**	0.861	0.370	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Zinc	**28.0**		1.72	0.689	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0686	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.0**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**86.0**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0002'
Date Collected: 03/03/23 09:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-19
Matrix: Solid
Percent Solids: 88.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00493	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Acetone	ND		0.0493	0.0111	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Acrylonitrile	ND		0.00493	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Benzene	ND		0.00493	0.00330	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromobenzene	ND		0.00493	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromochloromethane	ND		0.00493	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromodichloromethane	ND		0.00493	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromoform	ND		0.00493	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromomethane	ND		0.00987	0.00615	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2-Butanone (MEK)	ND		0.00987	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
n-Butylbenzene	ND		0.00987	0.00529	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
sec-Butylbenzene	ND		0.00493	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
tert-Butylbenzene	ND		0.00493	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Carbon disulfide	ND		0.00987	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Carbon tetrachloride	ND		0.00493	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chlorobenzene	ND		0.00493	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chloroethane	ND		0.00987	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chloroform	ND		0.00493	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chloromethane	ND		0.00987	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2-Chlorotoluene	ND		0.00493	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
4-Chlorotoluene	ND		0.00493	0.00428	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dibromo-3-Chloropropane	ND		0.00987	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Dibromochloromethane	ND		0.00493	0.00327	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dibromoethane (EDB)	ND		0.00493	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Dibromomethane	ND		0.00493	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dichlorobenzene	ND		0.00493	0.00458	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3-Dichlorobenzene	ND		0.00493	0.00396	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,4-Dichlorobenzene	ND		0.00493	0.00468	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Dichlorodifluoromethane (Freon 12)	ND		0.00987	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1-Dichloroethane	ND		0.00493	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dichloroethane	ND		0.00493	0.00333	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1-Dichloroethene	ND		0.00493	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
cis-1,2-Dichloroethene	ND		0.00493	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
trans-1,2-Dichloroethene	ND		0.00493	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dichloropropane	ND		0.00493	0.00327	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3-Dichloropropane	ND		0.00493	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2,2-Dichloropropane	ND		0.00493	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1-Dichloropropene	ND		0.00493	0.00336	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
cis-1,3-Dichloropropene	ND		0.00493	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
trans-1,3-Dichloropropene	ND		0.00493	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethylbenzene	ND		0.00493	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Hexachlorobutadiene	ND		0.00987	0.00496	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2-Hexanone (MBK)	ND		0.00987	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Isopropylbenzene	ND		0.00493	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
4-Isopropyltoluene	ND		0.00493	0.00485	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Methyl tert-butyl ether	ND		0.00493	0.00284	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
4-Methyl-2-pentanone (MIBK)	ND		0.00987	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Methylene Chloride	ND		0.00987	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Naphthalene	ND		0.00493	0.00446	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Styrene	ND		0.00493	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,1,2-Tetrachloroethane	ND		0.00493	0.00370	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,2,2-Tetrachloroethane	ND		0.00493	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Tetrachloroethene	ND		0.00493	0.00274	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Toluene	ND		0.00493	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,3-Trichlorobenzene	ND		0.00493	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,4-Trichlorobenzene	ND		0.00493	0.00455	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3,5-Trichlorobenzene	ND		0.00493	0.00469	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,1-Trichloroethane	ND		0.00493	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,2-Trichloroethane	ND		0.00493	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Trichloroethene	ND		0.00493	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Trichlorofluoromethane (Freon 11)	ND		0.00493	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,3-Trichloropropane	ND		0.00493	0.00438	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,4-Trimethylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3,5-Trimethylbenzene	ND		0.00493	0.00419	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Vinyl chloride	ND		0.00493	0.00301	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
m,p-Xylene	ND		0.00493	0.00674	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
o-Xylene	ND		0.00493	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Tetrahydrofuran	ND		0.00987	0.00250	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethyl ether	ND		0.00493	0.00260	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Tert-amyl methyl ether	ND		0.00493	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethyl tert-butyl ether	ND		0.00493	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
di-Isopropyl ether	ND		0.00493	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
tert-Butanol	ND		0.0987	0.0264	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,4-Dioxane	ND		0.0987	0.0307	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethanol	ND		0.987	0.0612	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3-Dichloropropene, Total	ND		0.00493	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Xylenes, Total	ND		0.0148	0.00493	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.351	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,2,4-Trichlorobenzene	ND		0.351	0.0805	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,2-Dichlorobenzene	ND		0.351	0.0677	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,3-Dichlorobenzene	ND		0.351	0.0850	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,4-Dichlorobenzene	ND		0.351	0.0827	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1-Methylnaphthalene	ND		0.0710	0.0596	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4,5-Trichlorophenol	ND		0.351	0.0402	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4,6-Trichlorophenol	ND		0.178	0.0434	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4-Dichlorophenol	ND		0.178	0.0708	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4-Dimethylphenol	ND		0.351	0.0515	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4-Dinitrophenol	ND		0.351	0.0924	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0002'
Date Collected: 03/03/23 09:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-19
Matrix: Solid
Percent Solids: 88.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.178	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,6-Dinitrotoluene	ND		0.178	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Chloronaphthalene	ND		0.351	0.0812	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Chlorophenol	ND		0.178	0.0727	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Methylnaphthalene	ND		0.0710	0.0525	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Methylphenol	ND		0.351	0.0513	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Nitroaniline	ND		0.351	0.0334	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Nitrophenol	ND		0.178	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
3 & 4 Methylphenol	ND		0.351	0.0665	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
3,3'-Dichlorobenzidine	ND		0.351	0.0580	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
3-Nitroaniline	ND		0.351	0.0314	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4,6-Dinitro-2-methylphenol	ND		0.351	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Bromophenyl phenyl ether	ND		0.351	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Chloro-3-methylphenol	ND		0.351	0.0688	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Chloroaniline	ND		0.178	0.0269	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Chlorophenyl phenyl ether	ND		0.351	0.0376	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Nitroaniline	ND		0.178	0.0561	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Nitrophenol	ND		0.351	0.122	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Acenaphthene	ND		0.0710	0.0566	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Acenaphthylene	ND		0.0710	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Acetophenone	ND		0.178	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Aniline	ND		0.351	0.0269	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Anthracene	ND		0.0710	0.0411	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Azobenzene/Diphenyldiazene	ND		0.351	0.0599	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzidine	**0.303**	**J**	0.702	0.104	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[a]anthracene	ND		0.0710	0.0399	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[a]pyrene	ND		0.0710	0.0508	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[b]fluoranthene	ND		0.0710	0.0589	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[g,h,i]perylene	ND		0.0710	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[k]fluoranthene	ND		0.0710	0.0552	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzoic acid	ND		0.351	0.242	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzyl alcohol	ND		0.351	0.0637	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Bis(2-chloroethoxy)methane	ND		0.351	0.0611	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Bis(2-chloroethyl)ether	ND		0.178	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
bis (2-chloroisopropyl) ether	ND		0.178	0.0791	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Bis(2-ethylhexyl) phthalate	**7.11**		0.889	0.226	mg/Kg	☼	03/14/23 10:48	03/16/23 17:59	5
Butyl benzyl phthalate	**0.159**	**J**	0.351	0.0352	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Carbazole	ND		0.178	0.0465	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Chrysene	ND		0.0710	0.0401	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Dibenz(a,h)anthracene	ND		0.0710	0.0542	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Dibenzofuran	ND		0.178	0.0615	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Diethyl phthalate	ND		0.351	0.0385	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Dimethyl phthalate	ND		0.351	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Di-n-butyl phthalate	ND		0.351	0.0376	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Di-n-octyl phthalate	ND		0.351	0.0580	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Fluoranthene	ND		0.0710	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Fluorene	ND		0.0710	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Hexachlorobenzene	ND		0.178	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Hexachlorobutadiene	ND		0.178	0.0887	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.178	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Hexachloroethane	ND		0.178	0.0698	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Indeno[1,2,3-cd]pyrene	ND		0.0710	0.0602	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Isophorone	ND		0.178	0.0486	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Naphthalene	ND		0.0710	0.0681	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Nitrobenzene	ND		0.178	0.0821	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
N-Nitrosodimethylamine	ND		0.178	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
N-Nitrosodi-n-propylamine	ND		0.178	0.0708	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
N-Nitrosodiphenylamine	ND		0.351	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pentachloronitrobenzene	ND		0.351	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pentachlorophenol	ND		0.351	0.144	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Phenanthrene	ND		0.0710	0.0402	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Phenol	ND		0.351	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pyrene	ND		0.0710	0.0392	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pyridine	ND		0.351	0.0831	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
2-Fluorophenol (Surr)	*77*		*15 - 110*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
2-Fluorophenol (Surr)	*73*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
Phenol-d5 (Surr)	*63*		*15 - 110*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
Phenol-d5 (Surr)	*57*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
2,4,6-Tribromophenol (Surr)	*51*		*15 - 110*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
Terphenyl-d14	*99*		*30 - 130*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:59*	*5*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.221	0.113	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.221	0.0948	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Ethylbenzene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Methyl tert-butyl ether	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
m,p-Xylene	ND		0.0886	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Naphthalene	ND		0.0443	0.0301	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
o-Xylene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Toluene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
C5-C8 Aliphatics (unadjusted)	ND		0.221	0.113	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
C9-C10 Aromatics	ND		0.221	0.0310	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
C9-C12 Aliphatics (unadjusted)	ND		0.221	0.0948	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/08/23 06:56*	*03/08/23 13:29*	*1*

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/08/23 06:56*	*03/08/23 13:29*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.109	0.0785	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1221	ND		0.109	0.0322	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1232	ND		0.109	0.0302	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1242	ND		0.109	0.0172	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1248	ND		0.109	0.0340	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1254	**2.84**		0.109	0.0848	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1262	ND		0.109	0.0254	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1260	ND		0.109	0.0234	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1268	ND		0.109	0.0232	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*
Tetrachloro-m-xylene	*107*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*
DCB Decachlorobiphenyl (Surr)	*137*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*
DCB Decachlorobiphenyl (Surr)	*150*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoroheptanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorononanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorodecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorotridecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorotetradecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorobutanesulfonic acid	ND		2.19	0.438	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorohexanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NEtFOSAA	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NMeFOSAA	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
10:2 FTS	ND		2.19	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoropentanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoroheptanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorononanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorodecanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctanesulfonamide	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorohexadecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctadecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorobutanoic acid	ND		2.19	0.877	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoropentanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NMeFOSE	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NMeFOSA	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NEtFOSE	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NEtFOSA	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.19	1.10	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
DONA	ND		3.29	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
9Cl-PF3ONS	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
11Cl-PF3OUdS	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorododecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.19	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoroundecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
6:2 Fluorotelomer sulfonic acid	ND		2.19	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.29	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
M2-8:2 FTS	*120*		*15 - 200*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
M2-6:2 FTS	*120*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C5 PFHxA	*115*		*10 - 174*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C4 PFHpA	*118*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C8 PFOA	*123*		*26 - 159*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C9 PFNA	*119*		*26 - 165*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C6 PFDA	*122*		*26 - 161*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C2 PFTeDA	*143*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C3 PFHxS	*120*		*24 - 171*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C8 PFOS	*121*		*41 - 154*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d3-NMeFOSAA	*83*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d5-NEtFOSAA	*91*		*10 - 193*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C4 PFBA	*119*		*28 - 153*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d7-N-MeFOSE-M	*110*		*10 - 179*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d3-NMePFOSA	*96*		*10 - 175*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:34*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.43	1.85	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Arsenic	**4.20**		3.26	1.52	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Barium	**33.1**		0.543	0.163	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Beryllium	**0.332**	**J**	0.543	0.109	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Cadmium	ND		0.543	0.109	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Chromium	**9.47**		1.63	0.380	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Lead	**6.36**		1.63	0.651	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Nickel	**5.22**		1.09	0.282	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Selenium	ND		5.43	1.63	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Silver	ND	^3+	1.09	0.434	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Thallium	ND		3.26	1.41	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Vanadium	**14.0**		1.09	0.467	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1

Client Sample ID: 2023-SB-07-0002' Lab Sample ID: 620-10117-19

Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	23.2		2.17	0.868	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0666	0.0222	mg/Kg	☼	03/08/23 00:46	03/09/23 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	88.6		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0204'
Date Collected: 03/03/23 09:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-20
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00517	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Acetone	ND		0.0517	0.0116	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Acrylonitrile	ND		0.00517	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Benzene	ND		0.00517	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromobenzene	ND		0.00517	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromochloromethane	ND		0.00517	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromodichloromethane	ND		0.00517	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromoform	ND		0.00517	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromomethane	ND		0.0103	0.00644	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2-Butanone (MEK)	ND		0.0103	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
n-Butylbenzene	ND		0.0103	0.00554	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
sec-Butylbenzene	ND		0.00517	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
tert-Butylbenzene	ND		0.00517	0.00407	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Carbon disulfide	ND		0.0103	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Carbon tetrachloride	ND		0.00517	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chlorobenzene	ND		0.00517	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chloroethane	ND		0.0103	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chloroform	ND		0.00517	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chloromethane	ND		0.0103	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2-Chlorotoluene	ND		0.00517	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
4-Chlorotoluene	ND		0.00517	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dibromo-3-Chloropropane	ND		0.0103	0.00438	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Dibromochloromethane	ND		0.00517	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dibromoethane (EDB)	ND		0.00517	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Dibromomethane	ND		0.00517	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dichlorobenzene	ND		0.00517	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3-Dichlorobenzene	ND		0.00517	0.00415	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,4-Dichlorobenzene	ND		0.00517	0.00490	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Dichlorodifluoromethane (Freon 12)	ND		0.0103	0.00277	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1-Dichloroethane	ND		0.00517	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dichloroethane	ND		0.00517	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1-Dichloroethene	ND		0.00517	0.00316	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
cis-1,2-Dichloroethene	ND		0.00517	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
trans-1,2-Dichloroethene	ND		0.00517	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dichloropropane	ND		0.00517	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3-Dichloropropane	ND		0.00517	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2,2-Dichloropropane	ND		0.00517	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1-Dichloropropene	ND		0.00517	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
cis-1,3-Dichloropropene	ND		0.00517	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
trans-1,3-Dichloropropene	ND		0.00517	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethylbenzene	ND		0.00517	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Hexachlorobutadiene	ND		0.0103	0.00520	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2-Hexanone (MBK)	ND		0.0103	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Isopropylbenzene	ND		0.00517	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
4-Isopropyltoluene	ND		0.00517	0.00508	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Methyl tert-butyl ether	ND		0.00517	0.00298	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
4-Methyl-2-pentanone (MIBK)	ND		0.0103	0.00334	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Methylene Chloride	ND		0.0103	0.00277	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Naphthalene	ND		0.00517	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0204'
Date Collected: 03/03/23 09:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-20
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00517	0.00437	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Styrene	ND		0.00517	0.00400	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,1,2-Tetrachloroethane	ND		0.00517	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,2,2-Tetrachloroethane	ND		0.00517	0.00474	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Tetrachloroethene	ND		0.00517	0.00287	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Toluene	ND		0.00517	0.00328	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,3-Trichlorobenzene	ND		0.00517	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,4-Trichlorobenzene	ND		0.00517	0.00477	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3,5-Trichlorobenzene	ND		0.00517	0.00491	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,1-Trichloroethane	ND		0.00517	0.00353	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,2-Trichloroethane	ND		0.00517	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Trichloroethene	ND		0.00517	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Trichlorofluoromethane (Freon 11)	ND		0.00517	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,3-Trichloropropane	ND		0.00517	0.00459	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,4-Trimethylbenzene	ND		0.00517	0.00437	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3,5-Trimethylbenzene	ND		0.00517	0.00439	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Vinyl chloride	ND		0.00517	0.00315	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
m,p-Xylene	ND		0.00517	0.00706	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
o-Xylene	ND		0.00517	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Tetrahydrofuran	ND		0.0103	0.00262	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethyl ether	ND		0.00517	0.00272	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Tert-amyl methyl ether	ND		0.00517	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethyl tert-butyl ether	ND		0.00517	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
di-Isopropyl ether	ND		0.00517	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
tert-Butanol	ND		0.103	0.0277	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,4-Dioxane	ND		0.103	0.0322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
trans-1,4-Dichloro-2-butene	ND		0.0259	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethanol	ND		1.03	0.0641	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3-Dichloropropene, Total	ND		0.00517	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Xylenes, Total	ND		0.0155	0.00517	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.371	0.0660	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,2,4-Trichlorobenzene	ND		0.371	0.0850	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,2-Dichlorobenzene	ND		0.371	0.0715	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,3-Dichlorobenzene	ND		0.371	0.0898	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,4-Dichlorobenzene	ND		0.371	0.0873	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1-Methylnaphthalene	ND		0.0750	0.0629	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4,5-Trichlorophenol	ND		0.371	0.0425	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4,6-Trichlorophenol	ND		0.188	0.0459	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4-Dichlorophenol	ND		0.188	0.0747	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4-Dimethylphenol	ND		0.371	0.0544	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4-Dinitrophenol	ND		0.371	0.0975	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0204'
Date Collected: 03/03/23 09:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-20
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.188	0.0439	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,6-Dinitrotoluene	ND		0.188	0.0439	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Chloronaphthalene	ND		0.371	0.0857	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Chlorophenol	ND		0.188	0.0768	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Methylnaphthalene	ND		0.0750	0.0554	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Methylphenol	ND		0.371	0.0542	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Nitroaniline	ND		0.371	0.0353	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Nitrophenol	ND		0.188	0.0666	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
3 & 4 Methylphenol	ND		0.371	0.0702	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
3,3'-Dichlorobenzidine	ND		0.371	0.0612	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
3-Nitroaniline	ND		0.371	0.0332	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4,6-Dinitro-2-methylphenol	ND		0.371	0.0666	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Bromophenyl phenyl ether	ND		0.371	0.0419	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Chloro-3-methylphenol	ND		0.371	0.0726	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Chloroaniline	ND		0.188	0.0284	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Chlorophenyl phenyl ether	ND		0.371	0.0397	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Nitroaniline	ND		0.188	0.0592	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Nitrophenol	ND		0.371	0.129	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Acenaphthene	ND		0.0750	0.0598	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Acenaphthylene	ND		0.0750	0.0492	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Acetophenone	ND		0.188	0.0457	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Aniline	ND		0.371	0.0284	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Anthracene	**0.0585**	**J**	0.0750	0.0434	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Azobenzene/Diphenyldiazene	ND		0.371	0.0633	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzidine	ND		0.742	0.110	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[a]anthracene	**0.0753**		0.0750	0.0421	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[a]pyrene	**0.0652**	**J**	0.0750	0.0536	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[b]fluoranthene	**0.0758**		0.0750	0.0621	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[g,h,i]perylene	ND		0.0750	0.0585	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[k]fluoranthene	**0.0748**	**J**	0.0750	0.0583	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzoic acid	ND		0.371	0.255	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzyl alcohol	ND		0.371	0.0672	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Bis(2-chloroethoxy)methane	ND		0.371	0.0645	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Bis(2-chloroethyl)ether	ND		0.188	0.0614	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
bis (2-chloroisopropyl) ether	ND		0.188	0.0835	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Bis(2-ethylhexyl) phthalate	**0.135**	**J**	0.188	0.0478	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Butyl benzyl phthalate	**0.438**		0.371	0.0372	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Carbazole	ND		0.188	0.0491	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Chrysene	**0.0790**		0.0750	0.0424	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Dibenz(a,h)anthracene	ND		0.0750	0.0572	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Dibenzofuran	ND		0.188	0.0650	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Diethyl phthalate	ND		0.371	0.0407	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Dimethyl phthalate	ND		0.371	0.0483	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Di-n-butyl phthalate	ND		0.371	0.0397	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Di-n-octyl phthalate	ND		0.371	0.0612	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Fluoranthene	**0.167**		0.0750	0.0439	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Fluorene	ND		0.0750	0.0684	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Hexachlorobenzene	ND		0.188	0.0520	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Hexachlorobutadiene	ND		0.188	0.0936	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.188	0.0717	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Hexachloroethane	ND		0.188	0.0737	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Indeno[1,2,3-cd]pyrene	ND		0.0750	0.0636	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Isophorone	ND		0.188	0.0514	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Naphthalene	ND		0.0750	0.0719	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Nitrobenzene	ND		0.188	0.0866	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
N-Nitrosodimethylamine	ND		0.188	0.0492	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
N-Nitrosodi-n-propylamine	ND		0.188	0.0747	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
N-Nitrosodiphenylamine	ND		0.371	0.0473	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pentachloronitrobenzene	ND		0.371	0.0585	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pentachlorophenol	ND		0.371	0.152	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Phenanthrene	**0.159**		0.0750	0.0425	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Phenol	ND		0.371	0.0764	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pyrene	**0.154**		0.0750	0.0414	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pyridine	ND		0.371	0.0878	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
2-Fluorophenol (Surr)	*101*		*15 - 110*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
Nitrobenzene-d5 (Surr)	*87*		*30 - 130*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*15 - 110*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/14/23 10:48*	*03/15/23 22:58*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.235	0.120	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.235	0.100	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Ethylbenzene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Methyl tert-butyl ether	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
m,p-Xylene	ND		0.0939	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Naphthalene	ND		0.0470	0.0319	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
o-Xylene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Toluene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
C5-C8 Aliphatics (unadjusted)	ND		0.235	0.120	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
C9-C10 Aromatics	ND		0.235	0.0329	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
C9-C12 Aliphatics (unadjusted)	ND		0.235	0.100	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 14:08*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 14:08*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0231	0.0167	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1221	ND		0.0231	0.00683	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1232	ND		0.0231	0.00641	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0231	0.00365	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1248	ND		0.0231	0.00723	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1254	**1.05**		0.0231	0.0180	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1262	ND		0.0231	0.00539	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1260	ND		0.0231	0.00497	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1268	ND		0.0231	0.00493	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*
Tetrachloro-m-xylene	*91*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
M2-6:2 FTS	*121*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C5 PFHxA	*124*		*10 - 174*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C4 PFHpA	*121*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C8 PFOA	*129*		*26 - 159*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C7 PFUnA	*134*		*12 - 173*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C2-PFDoDA	*121*		*11 - 166*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C2 PFTeDA	*143*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C3 PFBS	*124*		*27 - 179*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C3 PFHxS	*125*		*24 - 171*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d3-NMeFOSAA	*77*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d5-NEtFOSAA	*90*		*10 - 193*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C8 FOSA	*105*		*14 - 163*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C4 PFBA	*120*		*28 - 153*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C5 PFPeA	*109*		*24 - 161*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d9-N-EtFOSE-M	*120*		*10 - 185*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d5-NEtPFOSA	*108*		*10 - 180*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:56*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.59	1.90	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Arsenic	**2.03**	**J**	3.35	1.57	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Barium	**26.3**		0.559	0.168	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Beryllium	**0.238**	**J**	0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Cadmium	ND		0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Chromium	**3.92**		1.68	0.391	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Lead	**3.02**		1.68	0.671	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Nickel	**1.83**		1.12	0.291	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Selenium	ND		5.59	1.68	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Silver	ND	^3+	1.12	0.447	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Thallium	ND		3.35	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Vanadium	**5.74**		1.12	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Zinc	**8.66**		2.24	0.894	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0650	0.0217	mg/Kg	☼	03/08/23 00:46	03/09/23 08:14	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	85.2		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0406'
Date Collected: 03/03/23 10:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-21
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00444	0.00290	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Acetone	**0.0218**	**J B *3**	0.0444	0.00995	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Acrylonitrile	ND	*3	0.00444	0.00266	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Benzene	ND	*3	0.00444	0.00297	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromobenzene	ND	*3	0.00444	0.00296	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromochloromethane	ND	*3	0.00444	0.00252	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromodichloromethane	ND	*3	0.00444	0.00326	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromoform	ND	*3	0.00444	0.00339	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromomethane	ND	*3	0.00888	0.00553	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2-Butanone (MEK)	ND	*3	0.00888	0.00354	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
n-Butylbenzene	ND	*3	0.00888	0.00476	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
sec-Butylbenzene	ND	*3	0.00444	0.00358	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
tert-Butylbenzene	ND	*3	0.00444	0.00350	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Carbon disulfide	ND	*3	0.00888	0.00312	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Carbon tetrachloride	ND	*3	0.00444	0.00280	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chlorobenzene	ND	*3	0.00444	0.00325	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chloroethane	ND	*3	0.00888	0.00326	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chloroform	ND	*3	0.00444	0.00298	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chloromethane	ND	*3	0.00888	0.00341	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2-Chlorotoluene	ND	*3	0.00444	0.00354	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
4-Chlorotoluene	ND	*3	0.00444	0.00385	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00888	0.00377	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Dibromochloromethane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dibromoethane (EDB)	ND	*3	0.00444	0.00319	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Dibromomethane	ND	*3	0.00444	0.00261	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dichlorobenzene	ND	*3	0.00444	0.00412	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3-Dichlorobenzene	ND	*3	0.00444	0.00356	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,4-Dichlorobenzene	ND	*3	0.00444	0.00421	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00888	0.00238	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1-Dichloroethane	ND	*3	0.00444	0.00301	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dichloroethane	ND	*3	0.00444	0.00299	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1-Dichloroethene	ND	*3	0.00444	0.00272	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
cis-1,2-Dichloroethene	ND	*3	0.00444	0.00257	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
trans-1,2-Dichloroethene	ND	*3	0.00444	0.00276	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dichloropropane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3-Dichloropropane	ND	*3	0.00444	0.00339	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2,2-Dichloropropane	ND	*3	0.00444	0.00306	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1-Dichloropropene	ND	*3	0.00444	0.00302	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
cis-1,3-Dichloropropene	ND	*3	0.00444	0.00290	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
trans-1,3-Dichloropropene	ND	*3	0.00444	0.00338	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethylbenzene	ND	*3	0.00444	0.00317	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Hexachlorobutadiene	ND	*3	0.00888	0.00447	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2-Hexanone (MBK)	ND	*3	0.00888	0.00261	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Isopropylbenzene	ND	*3	0.00444	0.00336	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
4-Isopropyltoluene	ND	*3	0.00444	0.00436	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Methyl tert-butyl ether	ND	*3	0.00444	0.00256	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00888	0.00287	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Methylene Chloride	ND	*3	0.00888	0.00238	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Naphthalene	ND	*3	0.00444	0.00401	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00444	0.00376	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Styrene	ND	*3	0.00444	0.00344	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00444	0.00333	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00444	0.00407	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Tetrachloroethene	ND	*3	0.00444	0.00247	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Toluene	ND	*3	0.00444	0.00282	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,3-Trichlorobenzene	ND	*3	0.00444	0.00375	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,4-Trichlorobenzene	ND	*3	0.00444	0.00409	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3,5-Trichlorobenzene	ND	*3	0.00444	0.00422	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,1-Trichloroethane	ND	*3	0.00444	0.00303	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,2-Trichloroethane	ND	*3	0.00444	0.00335	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Trichloroethene	ND	*3	0.00444	0.00298	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00444	0.00339	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,3-Trichloropropane	ND	*3	0.00444	0.00394	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,4-Trimethylbenzene	ND	*3	0.00444	0.00376	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3,5-Trimethylbenzene	ND	*3	0.00444	0.00378	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Vinyl chloride	ND	*3	0.00444	0.00271	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
m,p-Xylene	ND	*3	0.00444	0.00607	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
o-Xylene	ND	*3	0.00444	0.00324	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Tetrahydrofuran	ND	*3	0.00888	0.00225	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethyl ether	ND	*3	0.00444	0.00234	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Tert-amyl methyl ether	ND	*3	0.00444	0.00351	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethyl tert-butyl ether	ND	*3	0.00444	0.00292	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
di-Isopropyl ether	ND	*3	0.00444	0.00317	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
tert-Butanol	ND	*3	0.0888	0.0238	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,4-Dioxane	ND	*3	0.0888	0.0276	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0222	0.00328	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethanol	ND	*3	0.888	0.0551	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3-Dichloropropene, Total	ND		0.00444	0.00338	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Xylenes, Total	ND		0.0133	0.00444	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*	*3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*
Toluene-d8 (Surr)	*102*	*3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*131*	*S1+ *3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*
Dibromofluoromethane (Surr)	*133*	*S1+ *3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00450	0.00294	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Acetone	**0.0196**	**J *3 B**	0.0450	0.0101	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Acrylonitrile	ND	*3	0.00450	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Benzene	ND	*3	0.00450	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromobenzene	ND	*3	0.00450	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromochloromethane	ND	*3	0.00450	0.00256	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromodichloromethane	ND	*3	0.00450	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromoform	ND	*3	0.00450	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromomethane	ND	*3 *+	0.00901	0.00561	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2-Butanone (MEK)	ND	*3	0.00901	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0406'
Date Collected: 03/03/23 10:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-21
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00901	0.00483	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
sec-Butylbenzene	ND	*3	0.00450	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
tert-Butylbenzene	ND	*3	0.00450	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Carbon disulfide	ND	*3	0.00901	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Carbon tetrachloride	ND	*3	0.00450	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chlorobenzene	ND	*3	0.00450	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chloroethane	ND	*3	0.00901	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chloroform	ND	*3	0.00450	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chloromethane	ND	*3	0.00901	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2-Chlorotoluene	ND	*3	0.00450	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
4-Chlorotoluene	ND	*3	0.00450	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00901	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Dibromochloromethane	ND	*3	0.00450	0.00298	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dibromoethane (EDB)	ND	*3	0.00450	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Dibromomethane	ND	*3	0.00450	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dichlorobenzene	ND	*3	0.00450	0.00418	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3-Dichlorobenzene	ND	*3	0.00450	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,4-Dichlorobenzene	ND	*3	0.00450	0.00427	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00901	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1-Dichloroethane	ND	*3	0.00450	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dichloroethane	ND	*3	0.00450	0.00304	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1-Dichloroethene	ND	*3	0.00450	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
cis-1,2-Dichloroethene	ND	*3	0.00450	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
trans-1,2-Dichloroethene	ND	*3	0.00450	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dichloropropane	ND	*3	0.00450	0.00298	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3-Dichloropropane	ND	*3	0.00450	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2,2-Dichloropropane	ND	*3	0.00450	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1-Dichloropropene	ND	*3	0.00450	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
cis-1,3-Dichloropropene	ND	*3	0.00450	0.00294	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
trans-1,3-Dichloropropene	ND	*3	0.00450	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethylbenzene	ND	*3	0.00450	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Hexachlorobutadiene	ND	*3	0.00901	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2-Hexanone (MBK)	ND	*3	0.00901	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Isopropylbenzene	ND	*3	0.00450	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
4-Isopropyltoluene	ND	*3	0.00450	0.00442	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Methyl tert-butyl ether	ND	*3	0.00450	0.00259	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00901	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Methylene Chloride	**0.00260**	**J *3 B**	0.00901	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Naphthalene	ND	*3	0.00450	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
N-Propylbenzene	ND	*3	0.00450	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Styrene	ND	*3	0.00450	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00450	0.00338	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00450	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Tetrachloroethene	ND	*3	0.00450	0.00250	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Toluene	ND	*3	0.00450	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,3-Trichlorobenzene	ND	*3	0.00450	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,4-Trichlorobenzene	ND	*3	0.00450	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3,5-Trichlorobenzene	ND	*3	0.00450	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1,1-Trichloroethane	ND	*3	0.00450	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00450	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Trichloroethene	ND	*3	0.00450	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00450	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,3-Trichloropropane	ND	*3	0.00450	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,4-Trimethylbenzene	ND	*3	0.00450	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3,5-Trimethylbenzene	ND	*3	0.00450	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Vinyl chloride	ND	*3	0.00450	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
m,p-Xylene	ND	*3	0.00450	0.00615	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
o-Xylene	ND	*3	0.00450	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Tetrahydrofuran	ND	*3	0.00901	0.00228	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethyl ether	ND	*3	0.00450	0.00237	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Tert-amyl methyl ether	ND	*3	0.00450	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethyl tert-butyl ether	ND	*3	0.00450	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
di-Isopropyl ether	ND	*3	0.00450	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
tert-Butanol	ND	*3	0.0901	0.0241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,4-Dioxane	ND	*3	0.0901	0.0280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0225	0.00332	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethanol	ND	*3	0.901	0.0559	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3-Dichloropropene, Total	ND		0.00450	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Xylenes, Total	ND		0.0135	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*
Toluene-d8 (Surr)	*105*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*
Dibromofluoromethane (Surr)	*125*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,2,4-Trichlorobenzene	ND		0.364	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,2-Dichlorobenzene	ND		0.364	0.0702	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,3-Dichlorobenzene	ND		0.364	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1-Methylnaphthalene	ND		0.0736	0.0618	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dichlorophenol	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dinitrophenol	ND		0.364	0.0958	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Chloronaphthalene	ND		0.364	0.0842	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Chlorophenol	ND		0.184	0.0754	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Methylnaphthalene	ND		0.0736	0.0544	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Methylphenol	ND		0.364	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Nitroaniline	ND		0.364	0.0346	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
3 & 4 Methylphenol	ND		0.364	0.0690	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.364	0.0325	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Bromophenyl phenyl ether	ND		0.364	0.0412	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Chloro-3-methylphenol	ND		0.364	0.0713	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0389	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Nitroaniline	ND		0.184	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Acenaphthene	ND		0.0736	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Acenaphthylene	ND		0.0736	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Anthracene	ND		0.0736	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzidine	ND		0.728	0.108	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[a]anthracene	ND		0.0736	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[a]pyrene	ND		0.0736	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[b]fluoranthene	ND		0.0736	0.0610	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[g,h,i]perylene	ND		0.0736	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[k]fluoranthene	ND		0.0736	0.0573	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzoic acid	ND		0.364	0.250	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzyl alcohol	ND		0.364	0.0660	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Bis(2-chloroethyl)ether	ND		0.184	0.0602	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0820	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Bis(2-ethylhexyl) phthalate	**11.3**		1.84	0.469	mg/Kg	☼	03/14/23 10:48	03/17/23 18:05	10
Butyl benzyl phthalate	**2.73**		0.364	0.0365	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Chrysene	ND		0.0736	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Dibenz(a,h)anthracene	ND		0.0736	0.0562	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Dibenzofuran	ND		0.184	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Dimethyl phthalate	ND		0.364	0.0474	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Di-n-butyl phthalate	**0.356**	**J**	0.364	0.0389	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Fluoranthene	ND		0.0736	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Fluorene	ND		0.0736	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachlorobenzene	ND		0.184	0.0511	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachlorobutadiene	ND		0.184	0.0919	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachlorocyclopentadiene	ND		0.184	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachloroethane	ND		0.184	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0736	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Naphthalene	ND		0.0736	0.0706	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Nitrobenzene	ND		0.184	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
N-Nitrosodiphenylamine	ND		0.364	0.0465	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Pentachloronitrobenzene	ND		0.364	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Phenanthrene	ND		0.0736	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Pyrene	ND		0.0736	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Pyridine	ND		0.364	0.0862	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
2-Fluorobiphenyl (Surr)	*55*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
2-Fluorophenol (Surr)	*60*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
Terphenyl-d14	*79*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
Terphenyl-d14	*48*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:05*	*10*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.228	0.117	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.228	0.0977	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Ethylbenzene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Methyl tert-butyl ether	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
m,p-Xylene	ND		0.0913	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Naphthalene	**0.0349**	**J B**	0.0457	0.0311	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
o-Xylene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Toluene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
C5-C8 Aliphatics (unadjusted)	ND		0.228	0.117	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
C9-C10 Aromatics	ND		0.228	0.0320	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
C9-C12 Aliphatics (unadjusted)	ND		0.228	0.0977	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 15:27*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 15:27*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.468	0.337	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1221	ND		0.468	0.138	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1232	ND		0.468	0.130	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1242	ND		0.468	0.0740	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1248	ND		0.468	0.146	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1254	**16.2**		0.468	0.364	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1262	ND		0.468	0.109	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0406'
Date Collected: 03/03/23 10:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-21
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.468	0.101	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1268	ND		0.468	0.0997	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:07*	*1*

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21

Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	120		15 - 200	03/07/23 18:02	03/16/23 04:07	1
M2-6:2 FTS	120		10 - 200	03/07/23 18:02	03/16/23 04:07	1
13C5 PFHxA	120		10 - 174	03/07/23 18:02	03/16/23 04:07	1
13C4 PFHpA	127		10 - 178	03/07/23 18:02	03/16/23 04:07	1
13C8 PFOA	127		26 - 159	03/07/23 18:02	03/16/23 04:07	1
13C9 PFNA	128		26 - 165	03/07/23 18:02	03/16/23 04:07	1
13C6 PFDA	121		26 - 161	03/07/23 18:02	03/16/23 04:07	1
13C7 PFUnA	148		12 - 173	03/07/23 18:02	03/16/23 04:07	1
13C2-PFDoDA	126		11 - 166	03/07/23 18:02	03/16/23 04:07	1
13C2 PFTeDA	157		10 - 169	03/07/23 18:02	03/16/23 04:07	1
13C3 PFBS	135		27 - 179	03/07/23 18:02	03/16/23 04:07	1
13C3 PFHxS	123		24 - 171	03/07/23 18:02	03/16/23 04:07	1
13C8 PFOS	130		41 - 154	03/07/23 18:02	03/16/23 04:07	1
d3-NMeFOSAA	102		10 - 178	03/07/23 18:02	03/16/23 04:07	1
d5-NEtFOSAA	115		10 - 193	03/07/23 18:02	03/16/23 04:07	1
13C8 FOSA	114		14 - 163	03/07/23 18:02	03/16/23 04:07	1
13C4 PFBA	131		28 - 153	03/07/23 18:02	03/16/23 04:07	1
13C5 PFPeA	116		24 - 161	03/07/23 18:02	03/16/23 04:07	1
d7-N-MeFOSE-M	125		10 - 179	03/07/23 18:02	03/16/23 04:07	1
d3-NMePFOSA	106		10 - 175	03/07/23 18:02	03/16/23 04:07	1
d9-N-EtFOSE-M	135		10 - 185	03/07/23 18:02	03/16/23 04:07	1
d5-NEtPFOSA	114		10 - 180	03/07/23 18:02	03/16/23 04:07	1
13C3 HFPO-DA	112		10 - 169	03/07/23 18:02	03/16/23 04:07	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.49	1.87	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Arsenic	**2.89**	**J**	3.29	1.54	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Barium	**31.4**		0.549	0.165	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Beryllium	**0.290**	**J**	0.549	0.110	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Cadmium	ND		0.549	0.110	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Chromium	**9.44**		1.65	0.384	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Lead	**4.51**		1.65	0.659	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Nickel	**4.47**		1.10	0.285	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Selenium	ND		5.49	1.65	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Silver	ND	^3+	1.10	0.439	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Thallium	ND		3.29	1.43	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Vanadium	**9.11**		1.10	0.472	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Zinc	**19.4**		2.20	0.878	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0682	0.0227	mg/Kg	☼	03/08/23 00:46	03/09/23 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.9**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**85.1**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00525	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Acetone	ND		0.0525	0.0118	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Acrylonitrile	ND		0.00525	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Benzene	ND		0.00525	0.00351	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromobenzene	ND		0.00525	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromochloromethane	ND		0.00525	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromodichloromethane	ND		0.00525	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromoform	ND		0.00525	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromomethane	ND		0.0105	0.00654	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2-Butanone (MEK)	ND		0.0105	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
n-Butylbenzene	ND		0.0105	0.00563	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
sec-Butylbenzene	ND		0.00525	0.00423	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
tert-Butylbenzene	ND		0.00525	0.00414	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Carbon disulfide	ND		0.0105	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Carbon tetrachloride	ND		0.00525	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chlorobenzene	ND		0.00525	0.00384	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chloroethane	ND		0.0105	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chloroform	ND		0.00525	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chloromethane	ND		0.0105	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2-Chlorotoluene	ND		0.00525	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
4-Chlorotoluene	ND		0.00525	0.00456	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00445	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Dibromochloromethane	ND		0.00525	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dibromoethane (EDB)	ND		0.00525	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Dibromomethane	ND		0.00525	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dichlorobenzene	ND		0.00525	0.00487	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3-Dichlorobenzene	ND		0.00525	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,4-Dichlorobenzene	ND		0.00525	0.00498	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0105	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1-Dichloroethane	ND		0.00525	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dichloroethane	ND		0.00525	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1-Dichloroethene	ND		0.00525	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
cis-1,2-Dichloroethene	ND		0.00525	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
trans-1,2-Dichloroethene	ND		0.00525	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dichloropropane	ND		0.00525	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3-Dichloropropane	ND		0.00525	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2,2-Dichloropropane	ND		0.00525	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1-Dichloropropene	ND		0.00525	0.00357	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
cis-1,3-Dichloropropene	ND		0.00525	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
trans-1,3-Dichloropropene	ND		0.00525	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethylbenzene	ND		0.00525	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Hexachlorobutadiene	ND		0.0105	0.00528	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2-Hexanone (MBK)	ND		0.0105	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Isopropylbenzene	ND		0.00525	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
4-Isopropyltoluene	ND		0.00525	0.00516	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Methyl tert-butyl ether	ND		0.00525	0.00302	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00339	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Methylene Chloride	ND		0.0105	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Naphthalene	ND		0.00525	0.00475	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0608'
Date Collected: 03/03/23 10:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-22
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Styrene	ND		0.00525	0.00406	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,1,2-Tetrachloroethane	ND		0.00525	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,2,2-Tetrachloroethane	ND		0.00525	0.00481	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Tetrachloroethene	ND		0.00525	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Toluene	ND		0.00525	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,3-Trichlorobenzene	ND		0.00525	0.00443	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,4-Trichlorobenzene	ND		0.00525	0.00484	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3,5-Trichlorobenzene	ND		0.00525	0.00499	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,1-Trichloroethane	ND		0.00525	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,2-Trichloroethane	ND		0.00525	0.00396	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Trichloroethene	ND		0.00525	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Trichlorofluoromethane (Freon 11)	ND		0.00525	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,3-Trichloropropane	ND		0.00525	0.00466	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,4-Trimethylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3,5-Trimethylbenzene	ND		0.00525	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Vinyl chloride	ND		0.00525	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
m,p-Xylene	ND		0.00525	0.00717	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
o-Xylene	ND		0.00525	0.00383	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Tetrahydrofuran	ND		0.0105	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethyl ether	ND		0.00525	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Tert-amyl methyl ether	ND		0.00525	0.00415	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethyl tert-butyl ether	ND		0.00525	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
di-Isopropyl ether	ND		0.00525	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
tert-Butanol	ND		0.105	0.0281	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,4-Dioxane	ND		0.105	0.0327	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
trans-1,4-Dichloro-2-butene	ND		0.0263	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethanol	ND		1.05	0.0651	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3-Dichloropropene, Total	ND		0.00525	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Xylenes, Total	ND		0.0158	0.00525	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,2,4-Trichlorobenzene	ND		0.364	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,2-Dichlorobenzene	ND		0.364	0.0702	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,3-Dichlorobenzene	ND		0.364	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1-Methylnaphthalene	ND		0.0736	0.0618	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4-Dichlorophenol	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4-Dinitrophenol	ND		0.364	0.0958	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0608'
Date Collected: 03/03/23 10:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-22
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Chloronaphthalene	ND		0.364	0.0842	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Chlorophenol	ND		0.184	0.0754	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Methylnaphthalene	ND		0.0736	0.0544	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Methylphenol	ND		0.364	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Nitroaniline	ND		0.364	0.0347	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
3 & 4 Methylphenol	ND		0.364	0.0690	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
3-Nitroaniline	ND		0.364	0.0326	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Bromophenyl phenyl ether	ND		0.364	0.0412	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Chloro-3-methylphenol	ND		0.364	0.0713	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0390	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Nitroaniline	ND		0.184	0.0582	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Acenaphthene	ND		0.0736	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Acenaphthylene	ND		0.0736	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Anthracene	ND		0.0736	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzidine	ND		0.728	0.108	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[a]anthracene	ND		0.0736	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[a]pyrene	ND		0.0736	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[b]fluoranthene	ND		0.0736	0.0610	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[g,h,i]perylene	ND		0.0736	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[k]fluoranthene	ND		0.0736	0.0573	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzoic acid	ND		0.364	0.251	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzyl alcohol	ND		0.364	0.0660	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Bis(2-chloroethyl)ether	ND		0.184	0.0603	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0820	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Bis(2-ethylhexyl) phthalate	**0.321**		0.184	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Butyl benzyl phthalate	**0.285**	**J**	0.364	0.0365	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Chrysene	ND		0.0736	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Dibenz(a,h)anthracene	ND		0.0736	0.0562	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Dibenzofuran	ND		0.184	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Dimethyl phthalate	ND		0.364	0.0475	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Di-n-butyl phthalate	ND		0.364	0.0390	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Fluoranthene	ND		0.0736	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Fluorene	ND		0.0736	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Hexachlorobenzene	ND		0.184	0.0511	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Hexachlorobutadiene	ND		0.184	0.0919	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.184	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Hexachloroethane	ND		0.184	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0736	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Naphthalene	ND		0.0736	0.0706	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Nitrobenzene	ND		0.184	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
N-Nitrosodiphenylamine	ND		0.364	0.0465	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pentachloronitrobenzene	ND		0.364	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Phenanthrene	ND		0.0736	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pyrene	ND		0.0736	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pyridine	ND		0.364	0.0862	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
Phenol-d5 (Surr)	*94*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:15*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.232	0.119	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.232	0.0994	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Ethylbenzene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Methyl tert-butyl ether	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
m,p-Xylene	ND		0.0929	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Naphthalene	ND		0.0464	0.0316	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
o-Xylene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Toluene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
C5-C8 Aliphatics (unadjusted)	ND		0.232	0.119	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
C9-C10 Aromatics	ND		0.232	0.0325	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
C9-C12 Aliphatics (unadjusted)	ND		0.232	0.0994	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:06*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:06*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0460	0.0331	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1221	ND		0.0460	0.0136	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1232	ND		0.0460	0.0127	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0460	0.00726	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1248	ND		0.0460	0.0144	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1254	**1.11**		0.0460	0.0358	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1262	ND		0.0460	0.0107	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1260	ND		0.0460	0.00988	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1268	ND		0.0460	0.00979	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*
Tetrachloro-m-xylene	*44*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*
DCB Decachlorobiphenyl (Surr)	*43*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
M2-8:2 FTS	*111*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
M2-6:2 FTS	*119*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C5 PFHxA	*123*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C9 PFNA	*129*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C6 PFDA	*121*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C2-PFDoDA	*122*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C2 PFTeDA	*155*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C3 PFBS	*126*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C8 PFOS	*126*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d3-NMeFOSAA	*105*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d5-NEtFOSAA	*111*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C4 PFBA	*127*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C5 PFPeA	*114*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d3-NMePFOSA	*102*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d9-N-EtFOSE-M	*125*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d5-NEtPFOSA	*112*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C3 HFPO-DA	*103*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:19*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.01	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Arsenic	**1.86**	**J**	2.40	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Barium	**30.1**		0.401	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Beryllium	**0.265**	**J**	0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Cadmium	ND		0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Chromium	**11.4**		1.20	0.281	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Lead	**3.25**		1.20	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Nickel	**3.43**		0.802	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Selenium	ND		4.01	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Silver	ND	^3+	0.802	0.321	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Vanadium	**8.57**		0.802	0.345	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Zinc	**12.2**		1.60	0.641	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0664	0.0221	mg/Kg	☼	03/08/23 00:46	03/09/23 07:52	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0608'
Date Collected: 03/03/23 10:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-22
Matrix: Solid
Percent Solids: 86.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	86.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00493	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Acetone	ND		0.0493	0.0110	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Acrylonitrile	ND		0.00493	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Benzene	ND		0.00493	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromobenzene	ND		0.00493	0.00328	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromochloromethane	ND		0.00493	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromodichloromethane	ND		0.00493	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromoform	ND		0.00493	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromomethane	ND		0.00986	0.00614	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2-Butanone (MEK)	ND		0.00986	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
n-Butylbenzene	ND		0.00986	0.00528	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
sec-Butylbenzene	ND		0.00493	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
tert-Butylbenzene	ND		0.00493	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Carbon disulfide	ND		0.00986	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Carbon tetrachloride	ND		0.00493	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chlorobenzene	ND		0.00493	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chloroethane	ND		0.00986	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chloroform	ND		0.00493	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chloromethane	ND		0.00986	0.00379	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2-Chlorotoluene	ND		0.00493	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
4-Chlorotoluene	ND		0.00493	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dibromo-3-Chloropropane	ND		0.00986	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Dibromochloromethane	ND		0.00493	0.00326	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dibromoethane (EDB)	ND		0.00493	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Dibromomethane	ND		0.00493	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dichlorobenzene	ND		0.00493	0.00457	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3-Dichlorobenzene	ND		0.00493	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,4-Dichlorobenzene	ND		0.00493	0.00467	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00986	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1-Dichloroethane	ND		0.00493	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dichloroethane	ND		0.00493	0.00332	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1-Dichloroethene	ND		0.00493	0.00302	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
cis-1,2-Dichloroethene	ND		0.00493	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
trans-1,2-Dichloroethene	ND		0.00493	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dichloropropane	ND		0.00493	0.00326	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3-Dichloropropane	ND		0.00493	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2,2-Dichloropropane	ND		0.00493	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1-Dichloropropene	ND		0.00493	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
cis-1,3-Dichloropropene	ND		0.00493	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
trans-1,3-Dichloropropene	ND		0.00493	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethylbenzene	ND		0.00493	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Hexachlorobutadiene	ND		0.00986	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2-Hexanone (MBK)	ND		0.00986	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Isopropylbenzene	ND		0.00493	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
4-Isopropyltoluene	ND		0.00493	0.00484	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Methyl tert-butyl ether	ND		0.00493	0.00284	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.00986	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Methylene Chloride	ND		0.00986	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Naphthalene	ND		0.00493	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1

Client Sample ID: 2023-SB-07-0810' **Lab Sample ID: 620-10117-23**
Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 83.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Styrene	ND		0.00493	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,1,2-Tetrachloroethane	ND		0.00493	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,2,2-Tetrachloroethane	ND		0.00493	0.00452	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Tetrachloroethene	ND		0.00493	0.00274	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Toluene	ND		0.00493	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,3-Trichlorobenzene	ND		0.00493	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,4-Trichlorobenzene	ND		0.00493	0.00454	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3,5-Trichlorobenzene	ND		0.00493	0.00468	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,1-Trichloroethane	ND		0.00493	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,2-Trichloroethane	ND		0.00493	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Trichloroethene	ND		0.00493	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Trichlorofluoromethane (Freon 11)	ND		0.00493	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,3-Trichloropropane	ND		0.00493	0.00438	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,4-Trimethylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3,5-Trimethylbenzene	ND		0.00493	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Vinyl chloride	ND		0.00493	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
m,p-Xylene	ND		0.00493	0.00673	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
o-Xylene	ND		0.00493	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Tetrahydrofuran	ND		0.00986	0.00249	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethyl ether	ND		0.00493	0.00259	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Tert-amyl methyl ether	ND		0.00493	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethyl tert-butyl ether	ND		0.00493	0.00324	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
di-Isopropyl ether	ND		0.00493	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
tert-Butanol	ND		0.0986	0.0264	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,4-Dioxane	ND		0.0986	0.0307	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
trans-1,4-Dichloro-2-butene	ND		0.0246	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethanol	ND		0.986	0.0611	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3-Dichloropropene, Total	ND		0.00493	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Xylenes, Total	ND		0.0148	0.00493	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.378	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,2,4-Trichlorobenzene	ND		0.378	0.0867	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,2-Dichlorobenzene	ND		0.378	0.0729	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,3-Dichlorobenzene	ND		0.378	0.0916	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,4-Dichlorobenzene	ND		0.378	0.0891	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1-Methylnaphthalene	ND		0.0765	0.0642	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4,5-Trichlorophenol	ND		0.378	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4,6-Trichlorophenol	ND		0.191	0.0468	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4-Dichlorophenol	ND		0.191	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4-Dimethylphenol	ND		0.378	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4-Dinitrophenol	ND		0.378	0.0995	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,6-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Chloronaphthalene	ND		0.378	0.0875	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Chlorophenol	ND		0.191	0.0783	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Methylnaphthalene	ND		0.0765	0.0565	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Methylphenol	ND		0.378	0.0553	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Nitroaniline	ND		0.378	0.0360	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Nitrophenol	ND		0.191	0.0680	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
3 & 4 Methylphenol	ND		0.378	0.0717	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
3,3'-Dichlorobenzidine	ND		0.378	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
3-Nitroaniline	ND		0.378	0.0338	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4,6-Dinitro-2-methylphenol	ND		0.378	0.0680	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Bromophenyl phenyl ether	ND		0.378	0.0428	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Chloro-3-methylphenol	ND		0.378	0.0741	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Chloroaniline	ND		0.191	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Chlorophenyl phenyl ether	ND		0.378	0.0405	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Nitroaniline	ND		0.191	0.0604	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Nitrophenol	ND		0.378	0.132	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Acenaphthene	ND		0.0765	0.0610	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Acenaphthylene	ND		0.0765	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Acetophenone	ND		0.191	0.0467	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Aniline	ND		0.378	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Anthracene	ND		0.0765	0.0443	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Azobenzene/Diphenyldiazene	ND		0.378	0.0646	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzidine	ND		0.757	0.112	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[a]anthracene	ND		0.0765	0.0430	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[a]pyrene	ND		0.0765	0.0547	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[b]fluoranthene	ND		0.0765	0.0634	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[g,h,i]perylene	ND		0.0765	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[k]fluoranthene	ND		0.0765	0.0595	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzoic acid	ND		0.378	0.260	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzyl alcohol	ND		0.378	0.0686	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Bis(2-chloroethoxy)methane	ND		0.378	0.0658	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Bis(2-chloroethyl)ether	ND		0.191	0.0626	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0852	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Bis(2-ethylhexyl) phthalate	ND		0.191	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Butyl benzyl phthalate	ND		0.378	0.0380	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Carbazole	ND		0.191	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Chrysene	ND		0.0765	0.0432	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Dibenz(a,h)anthracene	ND		0.0765	0.0584	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Dibenzofuran	ND		0.191	0.0663	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Diethyl phthalate	ND		0.378	0.0415	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Dimethyl phthalate	ND		0.378	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Di-n-butyl phthalate	ND		0.378	0.0405	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Di-n-octyl phthalate	ND		0.378	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Fluoranthene	ND		0.0765	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Fluorene	ND		0.0765	0.0698	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Hexachlorobenzene	ND		0.191	0.0531	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Hexachlorobutadiene	ND		0.191	0.0955	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1

Client Sample ID: 2023-SB-07-0810' **Lab Sample ID: 620-10117-23**
Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 83.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.191	0.0732	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Hexachloroethane	ND		0.191	0.0752	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0765	0.0649	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Isophorone	ND		0.191	0.0524	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Naphthalene	ND		0.0765	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Nitrobenzene	ND		0.191	0.0884	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
N-Nitrosodimethylamine	ND		0.191	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
N-Nitrosodiphenylamine	ND		0.378	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pentachloronitrobenzene	ND		0.378	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pentachlorophenol	ND		0.378	0.155	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Phenanthrene	ND		0.0765	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Phenol	ND		0.378	0.0780	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pyrene	ND		0.0765	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pyridine	ND		0.378	0.0896	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
Nitrobenzene-d5 (Surr)	*94*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
Phenol-d5 (Surr)	*93*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
Terphenyl-d14	*98*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:44*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.304	0.156	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.304	0.130	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Ethylbenzene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Methyl tert-butyl ether	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
m,p-Xylene	ND		0.122	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Naphthalene	ND		0.0609	0.0414	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
o-Xylene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Toluene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
C5-C8 Aliphatics (unadjusted)	ND		0.304	0.156	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
C9-C10 Aromatics	ND		0.304	0.0426	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
C9-C12 Aliphatics (unadjusted)	ND		0.304	0.130	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:45*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:45*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0237	0.0171	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1221	ND		0.0237	0.00700	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1232	ND		0.0237	0.00656	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0237	0.00374	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1248	ND		0.0237	0.00740	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1254	**0.0253**		0.0237	0.0184	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1262	ND		0.0237	0.00552	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1260	ND		0.0237	0.00509	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1268	ND		0.0237	0.00504	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoroheptanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorononanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorodecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorotridecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorotetradecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorobutanesulfonic acid	ND		2.30	0.460	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorohexanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NEtFOSAA	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NMeFOSAA	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
10:2 FTS	ND		2.30	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoropentanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoroheptanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorononanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorodecanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctanesulfonamide	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorohexadecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctadecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorobutanoic acid	ND		2.30	0.920	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoropentanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NMeFOSE	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NMeFOSA	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NEtFOSE	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NEtFOSA	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
HFPODA	ND		2.30	1.15	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
DONA	ND		3.45	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
9Cl-PF3ONS	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
11Cl-PF3OUdS	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorododecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.30	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoroundecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.30	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.45	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
M2-8:2 FTS	*107*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
M2-6:2 FTS	*123*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C5 PFHxA	*127*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C4 PFHpA	*126*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C8 PFOA	*131*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C9 PFNA	*127*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C2-PFDoDA	*128*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C2 PFTeDA	*158*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C3 PFBS	*129*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C3 PFHxS	*123*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C8 PFOS	*128*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d3-NMeFOSAA	*120*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d5-NEtFOSAA	*124*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C8 FOSA	*120*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C4 PFBA	*129*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C5 PFPeA	*120*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d7-N-MeFOSE-M	*124*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d3-NMePFOSA	*114*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d9-N-EtFOSE-M	*135*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d5-NEtPFOSA	*126*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C3 HFPO-DA	*98*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.59	1.90	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Arsenic	ND		3.35	1.56	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Barium	**20.6**		0.559	0.168	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Beryllium	**0.222**	**J**	0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Cadmium	ND		0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Chromium	**4.58**		1.68	0.391	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Lead	**2.22**		1.68	0.670	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Nickel	**2.63**		1.12	0.290	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Selenium	ND		5.59	1.68	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Silver	ND	^3+	1.12	0.447	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Thallium	ND		3.35	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Vanadium	**6.87**		1.12	0.480	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Zinc	**10.1**		2.23	0.894	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0683	0.0228	mg/Kg	☼	03/08/23 00:50	03/09/23 09:11	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	83.6		0.1	0.1	%			03/06/23 11:08	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00440	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Acetone	ND		0.0440	0.00985	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Acrylonitrile	ND		0.00440	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Benzene	ND		0.00440	0.00294	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromobenzene	ND		0.00440	0.00293	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromochloromethane	ND		0.00440	0.00250	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromodichloromethane	ND		0.00440	0.00323	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromoform	ND		0.00440	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromomethane	ND		0.00880	0.00548	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2-Butanone (MEK)	ND		0.00880	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
n-Butylbenzene	ND		0.00880	0.00471	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
sec-Butylbenzene	ND		0.00440	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
tert-Butylbenzene	ND		0.00440	0.00347	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Carbon disulfide	ND		0.00880	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Carbon tetrachloride	ND		0.00440	0.00277	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chlorobenzene	ND		0.00440	0.00322	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chloroethane	ND		0.00880	0.00323	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chloroform	ND		0.00440	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chloromethane	ND		0.00880	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2-Chlorotoluene	ND		0.00440	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
4-Chlorotoluene	ND		0.00440	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dibromo-3-Chloropropane	ND		0.00880	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Dibromochloromethane	ND		0.00440	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dibromoethane (EDB)	ND		0.00440	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Dibromomethane	ND		0.00440	0.00259	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dichlorobenzene	ND		0.00440	0.00408	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3-Dichlorobenzene	ND		0.00440	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,4-Dichlorobenzene	ND		0.00440	0.00417	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00880	0.00236	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1-Dichloroethane	ND		0.00440	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dichloroethane	ND		0.00440	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1-Dichloroethene	ND		0.00440	0.00269	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
cis-1,2-Dichloroethene	ND		0.00440	0.00254	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
trans-1,2-Dichloroethene	ND		0.00440	0.00274	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dichloropropane	ND		0.00440	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3-Dichloropropane	ND		0.00440	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2,2-Dichloropropane	ND		0.00440	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1-Dichloropropene	ND		0.00440	0.00299	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
cis-1,3-Dichloropropene	ND		0.00440	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
trans-1,3-Dichloropropene	ND		0.00440	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethylbenzene	ND		0.00440	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Hexachlorobutadiene	ND		0.00880	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2-Hexanone (MBK)	ND		0.00880	0.00259	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Isopropylbenzene	ND		0.00440	0.00332	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
4-Isopropyltoluene	ND		0.00440	0.00432	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Methyl tert-butyl ether	ND		0.00440	0.00253	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.00880	0.00284	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Methylene Chloride	ND		0.00880	0.00236	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Naphthalene	ND		0.00440	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00440	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Styrene	ND		0.00440	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,1,2-Tetrachloroethane	ND		0.00440	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.00440	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Tetrachloroethene	ND		0.00440	0.00245	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Toluene	ND		0.00440	0.00279	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,3-Trichlorobenzene	ND		0.00440	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,4-Trichlorobenzene	ND		0.00440	0.00405	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3,5-Trichlorobenzene	ND		0.00440	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,1-Trichloroethane	ND		0.00440	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,2-Trichloroethane	ND		0.00440	0.00332	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Trichloroethene	ND		0.00440	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Trichlorofluoromethane (Freon 11)	ND		0.00440	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,3-Trichloropropane	ND		0.00440	0.00391	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,4-Trimethylbenzene	ND		0.00440	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3,5-Trimethylbenzene	ND		0.00440	0.00374	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Vinyl chloride	ND		0.00440	0.00268	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
m,p-Xylene	ND		0.00440	0.00601	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
o-Xylene	ND		0.00440	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Tetrahydrofuran	ND		0.00880	0.00223	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethyl ether	ND		0.00440	0.00231	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Tert-amyl methyl ether	ND		0.00440	0.00347	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethyl tert-butyl ether	ND		0.00440	0.00289	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
di-Isopropyl ether	ND		0.00440	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
tert-Butanol	ND		0.0880	0.0236	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,4-Dioxane	ND		0.0880	0.0274	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
trans-1,4-Dichloro-2-butene	ND		0.0220	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethanol	ND		0.880	0.0545	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3-Dichloropropene, Total	ND		0.00440	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Xylenes, Total	ND		0.0132	0.00440	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.378	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,2,4-Trichlorobenzene	ND		0.378	0.0866	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,2-Dichlorobenzene	ND		0.378	0.0729	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,3-Dichlorobenzene	ND		0.378	0.0915	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,4-Dichlorobenzene	ND		0.378	0.0890	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1-Methylnaphthalene	ND		0.0764	0.0642	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4,5-Trichlorophenol	ND		0.378	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4,6-Trichlorophenol	ND		0.191	0.0467	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4-Dichlorophenol	ND		0.191	0.0762	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4-Dimethylphenol	ND		0.378	0.0554	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4-Dinitrophenol	ND		0.378	0.0994	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-1012'
Date Collected: 03/03/23 10:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-24
Matrix: Solid
Percent Solids: 84.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,6-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Chloronaphthalene	ND		0.378	0.0874	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Chlorophenol	ND		0.191	0.0782	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Methylnaphthalene	ND		0.0764	0.0565	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Methylphenol	ND		0.378	0.0552	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Nitroaniline	ND		0.378	0.0360	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Nitrophenol	ND		0.191	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
3 & 4 Methylphenol	ND		0.378	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
3,3'-Dichlorobenzidine	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
3-Nitroaniline	ND		0.378	0.0338	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4,6-Dinitro-2-methylphenol	ND		0.378	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Bromophenyl phenyl ether	ND		0.378	0.0427	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Chloro-3-methylphenol	ND		0.378	0.0740	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Chloroaniline	ND		0.191	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Chlorophenyl phenyl ether	ND		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Nitroaniline	ND		0.191	0.0604	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Nitrophenol	ND		0.378	0.132	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Acenaphthene	ND		0.0764	0.0609	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Acenaphthylene	ND		0.0764	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Acetophenone	ND		0.191	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Aniline	ND		0.378	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Anthracene	ND		0.0764	0.0442	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Azobenzene/Diphenyldiazene	ND		0.378	0.0645	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzidine	ND		0.756	0.112	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[a]anthracene	ND		0.0764	0.0430	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[a]pyrene	ND		0.0764	0.0546	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[b]fluoranthene	ND		0.0764	0.0634	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[g,h,i]perylene	ND		0.0764	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[k]fluoranthene	ND		0.0764	0.0595	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzoic acid	ND		0.378	0.260	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzyl alcohol	ND		0.378	0.0685	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Bis(2-chloroethoxy)methane	ND		0.378	0.0658	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Bis(2-chloroethyl)ether	ND		0.191	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Bis(2-ethylhexyl) phthalate	ND		0.191	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Butyl benzyl phthalate	ND		0.378	0.0379	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Carbazole	ND		0.191	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Chrysene	ND		0.0764	0.0432	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Dibenz(a,h)anthracene	ND		0.0764	0.0583	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Dibenzofuran	ND		0.191	0.0662	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Diethyl phthalate	ND		0.378	0.0415	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Dimethyl phthalate	ND		0.378	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Di-n-butyl phthalate	ND		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Di-n-octyl phthalate	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Fluoranthene	ND		0.0764	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Fluorene	ND		0.0764	0.0698	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Hexachlorobenzene	ND		0.191	0.0530	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Hexachlorobutadiene	ND		0.191	0.0954	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.191	0.0731	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Hexachloroethane	ND		0.191	0.0752	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Indeno[1,2,3-cd]pyrene	ND		0.0764	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Isophorone	ND		0.191	0.0524	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Naphthalene	ND		0.0764	0.0733	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Nitrobenzene	ND		0.191	0.0883	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
N-Nitrosodimethylamine	ND		0.191	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0762	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
N-Nitrosodiphenylamine	ND		0.378	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pentachloronitrobenzene	ND		0.378	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pentachlorophenol	ND		0.378	0.155	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Phenanthrene	ND		0.0764	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Phenol	ND		0.378	0.0779	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pyrene	ND		0.0764	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pyridine	ND		0.378	0.0895	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
2-Fluorophenol (Surr)	*110*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
Terphenyl-d14	*102*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:13*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.321	0.164	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.321	0.137	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Ethylbenzene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Methyl tert-butyl ether	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
m,p-Xylene	ND		0.128	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Naphthalene	ND		0.0641	0.0436	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
o-Xylene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Toluene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
C5-C8 Aliphatics (unadjusted)	ND		0.321	0.164	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
C9-C10 Aromatics	ND		0.321	0.0449	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
C9-C12 Aliphatics (unadjusted)	ND		0.321	0.137	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 17:25*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 17:25*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1232	ND		0.0230	0.00638	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1248	ND		0.0230	0.00720	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1254	**0.0595**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1262	ND		0.0230	0.00537	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*144*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*
Tetrachloro-m-xylene	*134*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*
DCB Decachlorobiphenyl (Surr)	*142*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*
DCB Decachlorobiphenyl (Surr)	*136*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoroheptanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorononanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorodecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorotridecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorotetradecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorobutanesulfonic acid	ND		2.27	0.454	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorohexanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NEtFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NMeFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
10:2 FTS	ND		2.27	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoropentanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoroheptanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorononanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorodecanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctanesulfonamide	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorohexadecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctadecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorobutanoic acid	ND		2.27	0.907	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoropentanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NMeFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NMeFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NEtFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NEtFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
HFPODA	ND		2.27	1.13	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
DONA	ND		3.40	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
9Cl-PF3ONS	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
11Cl-PF3OUdS	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorododecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.27	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoroundecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.27	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.40	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
M2-8:2 FTS	*117*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
M2-6:2 FTS	*123*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C5 PFHxA	*117*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C4 PFHpA	*116*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C8 PFOA	*125*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C6 PFDA	*126*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C7 PFUnA	*129*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C2-PFDoDA	*127*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C2 PFTeDA	*146*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C3 PFBS	*131*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C8 PFOS	*120*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d3-NMeFOSAA	*114*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d5-NEtFOSAA	*121*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C8 FOSA	*120*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C4 PFBA	*126*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C5 PFPeA	*114*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d3-NMePFOSA	*121*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d9-N-EtFOSE-M	*127*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d5-NEtPFOSA	*123*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:41*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.84	1.65	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Arsenic	ND		2.90	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Barium	**19.4**		0.484	0.145	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Beryllium	**0.215**	**J**	0.484	0.0968	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Cadmium	ND		0.484	0.0968	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Chromium	**6.33**		1.45	0.339	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Lead	**2.25**		1.45	0.581	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Nickel	**2.86**		0.968	0.252	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Selenium	ND		4.84	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Silver	ND	^3+	0.968	0.387	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Thallium	ND		2.90	1.26	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Vanadium	**6.34**		0.968	0.416	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Zinc	**9.55**		1.94	0.774	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0659	0.0220	mg/Kg	☼	03/08/23 00:50	03/09/23 09:25	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-1012'
Date Collected: 03/03/23 10:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-24
Matrix: Solid
Percent Solids: 84.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	84.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0002'
Date Collected: 03/03/23 10:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-25
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00522	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Acetone	ND		0.0522	0.0117	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Acrylonitrile	ND		0.00522	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Benzene	ND		0.00522	0.00349	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromobenzene	ND		0.00522	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromochloromethane	ND		0.00522	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromodichloromethane	ND		0.00522	0.00383	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromoform	ND		0.00522	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromomethane	ND		0.0104	0.00651	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2-Butanone (MEK)	ND		0.0104	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
n-Butylbenzene	ND		0.0104	0.00560	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
sec-Butylbenzene	ND		0.00522	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
tert-Butylbenzene	ND		0.00522	0.00412	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Carbon disulfide	ND		0.0104	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Carbon tetrachloride	ND		0.00522	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chlorobenzene	ND		0.00522	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chloroform	ND		0.00522	0.00351	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chloromethane	ND		0.0104	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2-Chlorotoluene	ND		0.00522	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
4-Chlorotoluene	ND		0.00522	0.00453	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00443	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Dibromochloromethane	ND		0.00522	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dibromoethane (EDB)	ND		0.00522	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Dibromomethane	ND		0.00522	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dichlorobenzene	ND		0.00522	0.00485	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3-Dichlorobenzene	ND		0.00522	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,4-Dichlorobenzene	ND		0.00522	0.00495	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0104	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1-Dichloroethane	ND		0.00522	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dichloroethane	ND		0.00522	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1-Dichloroethene	ND		0.00522	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
cis-1,2-Dichloroethene	ND		0.00522	0.00302	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
trans-1,2-Dichloroethene	ND		0.00522	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dichloropropane	ND		0.00522	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3-Dichloropropane	ND		0.00522	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2,2-Dichloropropane	ND		0.00522	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1-Dichloropropene	ND		0.00522	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
cis-1,3-Dichloropropene	ND		0.00522	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
trans-1,3-Dichloropropene	ND		0.00522	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethylbenzene	ND		0.00522	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Hexachlorobutadiene	ND		0.0104	0.00526	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2-Hexanone (MBK)	ND		0.0104	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Isopropylbenzene	ND		0.00522	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
4-Isopropyltoluene	ND		0.00522	0.00513	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Methyl tert-butyl ether	ND		0.00522	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Methylene Chloride	ND		0.0104	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Naphthalene	ND		0.00522	0.00472	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Styrene	ND		0.00522	0.00404	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,1,2-Tetrachloroethane	ND		0.00522	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,2,2-Tetrachloroethane	ND		0.00522	0.00479	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Tetrachloroethene	ND		0.00522	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Toluene	ND		0.00522	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,3-Trichlorobenzene	ND		0.00522	0.00441	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,4-Trichlorobenzene	ND		0.00522	0.00482	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3,5-Trichlorobenzene	ND		0.00522	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,1-Trichloroethane	ND		0.00522	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,2-Trichloroethane	ND		0.00522	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Trichloroethene	ND		0.00522	0.00351	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00522	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,3-Trichloropropane	ND		0.00522	0.00464	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,4-Trimethylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3,5-Trimethylbenzene	ND		0.00522	0.00444	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Vinyl chloride	ND		0.00522	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
m,p-Xylene	ND		0.00522	0.00714	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
o-Xylene	ND		0.00522	0.00381	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethyl ether	ND		0.00522	0.00275	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Tert-amyl methyl ether	ND		0.00522	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethyl tert-butyl ether	ND		0.00522	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
di-Isopropyl ether	ND		0.00522	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
tert-Butanol	ND		0.104	0.0280	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,4-Dioxane	ND		0.104	0.0325	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethanol	ND		1.04	0.0648	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3-Dichloropropene, Total	ND		0.00522	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Xylenes, Total	ND		0.0157	0.00522	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.367	0.0652	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,2,4-Trichlorobenzene	ND		0.367	0.0840	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,2-Dichlorobenzene	ND		0.367	0.0707	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,3-Dichlorobenzene	ND		0.367	0.0888	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,4-Dichlorobenzene	ND		0.367	0.0863	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1-Methylnaphthalene	ND		0.0741	0.0622	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4,5-Trichlorophenol	ND		0.367	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4,6-Trichlorophenol	ND		0.186	0.0453	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4-Dichlorophenol	ND		0.186	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4-Dimethylphenol	ND		0.367	0.0538	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4-Dinitrophenol	**0.833**		0.367	0.0965	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.186	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,6-Dinitrotoluene	ND		0.186	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Chloronaphthalene	ND		0.367	0.0848	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Chlorophenol	ND		0.186	0.0759	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Methylnaphthalene	ND		0.0741	0.0548	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Methylphenol	ND		0.367	0.0536	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Nitroaniline	ND		0.367	0.0349	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Nitrophenol	ND		0.186	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
3 & 4 Methylphenol	ND		0.367	0.0695	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
3,3'-Dichlorobenzidine	ND		0.367	0.0606	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
3-Nitroaniline	ND		0.367	0.0328	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4,6-Dinitro-2-methylphenol	ND		0.367	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Bromophenyl phenyl ether	ND		0.367	0.0415	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Chloro-3-methylphenol	ND		0.367	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Chloroaniline	ND		0.186	0.0281	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Chlorophenyl phenyl ether	ND		0.367	0.0392	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Nitroaniline	ND		0.186	0.0586	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Nitrophenol	ND		0.367	0.128	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Acenaphthene	ND		0.0741	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Acenaphthylene	ND		0.0741	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Acetophenone	ND		0.186	0.0452	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Aniline	ND		0.367	0.0281	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Anthracene	ND		0.0741	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Azobenzene/Diphenyldiazene	ND		0.367	0.0626	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzidine	ND		0.733	0.109	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[a]anthracene	**0.0819**		0.0741	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[a]pyrene	**0.104**		0.0741	0.0530	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[b]fluoranthene	**0.119**		0.0741	0.0615	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[g,h,i]perylene	**0.111**		0.0741	0.0579	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[k]fluoranthene	**0.102**		0.0741	0.0577	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzoic acid	ND		0.367	0.252	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzyl alcohol	ND		0.367	0.0665	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Bis(2-chloroethoxy)methane	ND		0.367	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Bis(2-chloroethyl)ether	ND		0.186	0.0607	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0826	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Bis(2-ethylhexyl) phthalate	**10.7**		0.742	0.189	mg/Kg	☼	03/14/23 10:48	03/17/23 18:33	4
Butyl benzyl phthalate	**1.05**		0.367	0.0368	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Carbazole	ND		0.186	0.0486	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Chrysene	**0.131**		0.0741	0.0419	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Dibenz(a,h)anthracene	ND		0.0741	0.0566	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Dibenzofuran	ND		0.186	0.0642	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Diethyl phthalate	ND		0.367	0.0402	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Dimethyl phthalate	ND		0.367	0.0478	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Di-n-butyl phthalate	**2.06**		0.367	0.0392	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Di-n-octyl phthalate	ND		0.367	0.0606	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Fluoranthene	**0.237**		0.0741	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Fluorene	ND		0.0741	0.0677	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Hexachlorobenzene	ND		0.186	0.0515	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Hexachlorobutadiene	ND		0.186	0.0926	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.186	0.0709	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Hexachloroethane	ND		0.186	0.0729	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Indeno[1,2,3-cd]pyrene	**0.0954**		0.0741	0.0629	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Isophorone	ND		0.186	0.0508	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Naphthalene	ND		0.0741	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Nitrobenzene	ND		0.186	0.0857	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
N-Nitrosodimethylamine	ND		0.186	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
N-Nitrosodiphenylamine	ND		0.367	0.0468	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pentachloronitrobenzene	ND		0.367	0.0579	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pentachlorophenol	ND		0.367	0.150	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Phenanthrene	**0.114**		0.0741	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Phenol	ND		0.367	0.0756	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pyrene	**0.219**		0.0741	0.0409	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pyridine	ND		0.367	0.0868	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
2-Fluorobiphenyl (Surr)	*65*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
2-Fluorophenol (Surr)	*71*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
Phenol-d5 (Surr)	*65*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
Terphenyl-d14	*66*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
Terphenyl-d14	*67*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:33*	*4*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.190**	**J**	0.302	0.155	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.302	0.129	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Ethylbenzene	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Methyl tert-butyl ether	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
m,p-Xylene	ND		0.121	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Naphthalene	ND		0.0604	0.0411	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
o-Xylene	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Toluene	**0.0292**	**J**	0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
C5-C8 Aliphatics (unadjusted)	**0.219**	**J**	0.302	0.155	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
C9-C10 Aromatics	ND		0.302	0.0423	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
C9-C12 Aliphatics (unadjusted)	ND		0.302	0.129	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:04*	*1*

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:04*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.17	0.841	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1221	ND		1.17	0.345	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1232	ND		1.17	0.323	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1242	ND		1.17	0.185	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1248	ND		1.17	0.365	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1254	**26.3**		1.17	0.909	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1262	ND		1.17	0.272	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1260	**3.59**		1.17	0.251	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1268	ND		1.17	0.249	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoroheptanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorononanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorodecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorotridecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorotetradecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorobutanesulfonic acid	ND		2.25	0.450	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorohexanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NEtFOSAA	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NMeFOSAA	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
10:2 FTS	ND		2.25	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoropentanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoroheptanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorononanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorodecanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctanesulfonamide	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorohexadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorobutanoic acid	ND		2.25	0.901	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoropentanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NMeFOSE	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NMeFOSA	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NEtFOSE	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NEtFOSA	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.25	1.13	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
DONA	ND		3.38	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
9Cl-PF3ONS	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
11Cl-PF3OUdS	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorododecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
4:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoroundecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
6:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C4 PFHpA	*98*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C8 PFOA	*96*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C9 PFNA	*94*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C6 PFDA	*96*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C2-PFDoDA	*105*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C2 PFTeDA	*127*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C3 PFBS	*116*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C3 PFHxS	*114*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d5-NEtFOSAA	*24*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C4 PFBA	*93*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C5 PFPeA	*92*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d3-NMePFOSA	*102*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d9-N-EtFOSE-M	*129*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d5-NEtPFOSA	*113*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C3 HFPO-DA	*78*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**8.25**		5.18	1.76	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Arsenic	**6.48**		3.11	1.45	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Barium	**3780**		5.18	1.55	mg/Kg	☼	03/07/23 13:12	03/10/23 08:20	10
Beryllium	**0.642**		0.518	0.104	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Cadmium	**1.08**		0.518	0.104	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Chromium	**27.1**		1.55	0.363	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Lead	**676**		1.55	0.622	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Nickel	**8.71**		1.04	0.269	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Selenium	ND		5.18	1.55	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Silver	ND	^3+	1.04	0.415	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Thallium	ND		3.11	1.35	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Vanadium	**14.0**		1.04	0.446	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0002'
Lab Sample ID: 620-10117-25
Date Collected: 03/03/23 10:40
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	1970		20.7	8.29	mg/Kg	☼	03/07/23 13:12	03/10/23 08:20	10

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0307	J	0.0680	0.0227	mg/Kg	☼	03/07/23 13:21	03/08/23 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0204'
Date Collected: 03/03/23 10:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-26
Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00586	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Acetone	ND		0.0586	0.0131	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Acrylonitrile	ND		0.00586	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Benzene	ND		0.00586	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromobenzene	ND		0.00586	0.00390	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromochloromethane	ND		0.00586	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromodichloromethane	ND		0.00586	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromoform	ND		0.00586	0.00448	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromomethane	ND		0.0117	0.00731	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2-Butanone (MEK)	ND		0.0117	0.00467	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
n-Butylbenzene	ND		0.0117	0.00629	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
sec-Butylbenzene	ND		0.00586	0.00473	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
tert-Butylbenzene	ND		0.00586	0.00462	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Carbon disulfide	ND		0.0117	0.00412	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Carbon tetrachloride	ND		0.00586	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chlorobenzene	ND		0.00586	0.00429	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chloroethane	ND		0.0117	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chloroform	ND		0.00586	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chloromethane	ND		0.0117	0.00450	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2-Chlorotoluene	ND		0.00586	0.00467	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
4-Chlorotoluene	ND		0.00586	0.00509	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0117	0.00497	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Dibromochloromethane	ND		0.00586	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dibromoethane (EDB)	ND		0.00586	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Dibromomethane	ND		0.00586	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dichlorobenzene	ND		0.00586	0.00544	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3-Dichlorobenzene	ND		0.00586	0.00470	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,4-Dichlorobenzene	ND		0.00586	0.00556	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0117	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1-Dichloroethane	ND		0.00586	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dichloroethane	ND		0.00586	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1-Dichloroethene	ND		0.00586	0.00359	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
cis-1,2-Dichloroethene	ND		0.00586	0.00339	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
trans-1,2-Dichloroethene	ND		0.00586	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dichloropropane	ND		0.00586	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3-Dichloropropane	ND		0.00586	0.00448	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2,2-Dichloropropane	ND		0.00586	0.00405	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1-Dichloropropene	ND		0.00586	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
cis-1,3-Dichloropropene	ND		0.00586	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
trans-1,3-Dichloropropene	ND		0.00586	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethylbenzene	ND		0.00586	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Hexachlorobutadiene	ND		0.0117	0.00590	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2-Hexanone (MBK)	ND		0.0117	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Isopropylbenzene	ND		0.00586	0.00443	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
4-Isopropyltoluene	ND		0.00586	0.00576	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Methyl tert-butyl ether	ND		0.00586	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0117	0.00379	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Methylene Chloride	ND		0.0117	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Naphthalene	ND		0.00586	0.00530	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00586	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Styrene	ND		0.00586	0.00454	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,1,2-Tetrachloroethane	ND		0.00586	0.00440	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,2,2-Tetrachloroethane	ND		0.00586	0.00537	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Tetrachloroethene	ND		0.00586	0.00326	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Toluene	ND		0.00586	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,3-Trichlorobenzene	ND		0.00586	0.00495	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,4-Trichlorobenzene	ND		0.00586	0.00541	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3,5-Trichlorobenzene	ND		0.00586	0.00557	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,1-Trichloroethane	ND		0.00586	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,2-Trichloroethane	ND		0.00586	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Trichloroethene	ND		0.00586	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00586	0.00448	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,3-Trichloropropane	ND		0.00586	0.00521	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,4-Trimethylbenzene	ND		0.00586	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3,5-Trimethylbenzene	ND		0.00586	0.00498	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Vinyl chloride	ND		0.00586	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
m,p-Xylene	ND		0.00586	0.00801	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
o-Xylene	ND		0.00586	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Tetrahydrofuran	ND		0.0117	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethyl ether	ND		0.00586	0.00308	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Tert-amyl methyl ether	ND		0.00586	0.00463	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethyl tert-butyl ether	ND		0.00586	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
di-Isopropyl ether	ND		0.00586	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
tert-Butanol	ND		0.117	0.0314	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,4-Dioxane	ND		0.117	0.0365	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
trans-1,4-Dichloro-2-butene	ND		0.0293	0.00433	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethanol	ND		1.17	0.0727	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3-Dichloropropene, Total	ND		0.00586	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Xylenes, Total	ND		0.0176	0.00586	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.378	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,2,4-Trichlorobenzene	ND		0.378	0.0865	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,2-Dichlorobenzene	ND		0.378	0.0728	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,3-Dichlorobenzene	ND		0.378	0.0914	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,4-Dichlorobenzene	ND		0.378	0.0889	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1-Methylnaphthalene	ND		0.0763	0.0641	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4,5-Trichlorophenol	ND		0.378	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4,6-Trichlorophenol	ND		0.191	0.0467	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4-Dichlorophenol	ND		0.191	0.0761	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4-Dimethylphenol	ND		0.378	0.0554	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4-Dinitrophenol	ND		0.378	0.0993	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0204'
Date Collected: 03/03/23 10:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-26
Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,6-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Chloronaphthalene	ND		0.378	0.0873	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Chlorophenol	ND		0.191	0.0781	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Methylnaphthalene	ND		0.0763	0.0564	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Methylphenol	ND		0.378	0.0552	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Nitroaniline	ND		0.378	0.0359	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Nitrophenol	ND		0.191	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
3 & 4 Methylphenol	ND		0.378	0.0715	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
3,3'-Dichlorobenzidine	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
3-Nitroaniline	ND		0.378	0.0338	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4,6-Dinitro-2-methylphenol	ND		0.378	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Bromophenyl phenyl ether	ND		0.378	0.0427	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Chloro-3-methylphenol	ND		0.378	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Chloroaniline	ND		0.191	0.0289	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Chlorophenyl phenyl ether	ND		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Nitroaniline	ND		0.191	0.0603	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Nitrophenol	ND		0.378	0.132	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Acenaphthene	ND		0.0763	0.0609	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Acenaphthylene	ND		0.0763	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Acetophenone	ND		0.191	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Aniline	ND		0.378	0.0289	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Anthracene	ND		0.0763	0.0442	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Azobenzene/Diphenyldiazene	ND		0.378	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzidine	ND		0.755	0.112	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[a]anthracene	**0.123**		0.0763	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[a]pyrene	**0.125**		0.0763	0.0546	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[b]fluoranthene	**0.145**		0.0763	0.0633	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[g,h,i]perylene	**0.133**		0.0763	0.0596	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[k]fluoranthene	**0.165**		0.0763	0.0594	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzoic acid	ND		0.378	0.260	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzyl alcohol	ND		0.378	0.0684	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Bis(2-chloroethoxy)methane	ND		0.378	0.0657	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Bis(2-chloroethyl)ether	ND		0.191	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0850	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Bis(2-ethylhexyl) phthalate	**0.972**		0.191	0.0486	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Butyl benzyl phthalate	ND		0.378	0.0379	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Carbazole	ND		0.191	0.0500	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Chrysene	**0.219**		0.0763	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Dibenz(a,h)anthracene	ND		0.0763	0.0582	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Dibenzofuran	ND		0.191	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Diethyl phthalate	ND		0.378	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Dimethyl phthalate	ND		0.378	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Di-n-butyl phthalate	**3.19**		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Di-n-octyl phthalate	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Fluoranthene	**0.342**		0.0763	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Fluorene	ND		0.0763	0.0697	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Hexachlorobenzene	ND		0.191	0.0530	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Hexachlorobutadiene	ND		0.191	0.0953	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.191	0.0730	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Hexachloroethane	ND		0.191	0.0751	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Indeno[1,2,3-cd]pyrene	**0.112**		0.0763	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Isophorone	ND		0.191	0.0523	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Naphthalene	ND		0.0763	0.0732	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Nitrobenzene	ND		0.191	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
N-Nitrosodimethylamine	ND		0.191	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0761	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
N-Nitrosodiphenylamine	ND		0.378	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pentachloronitrobenzene	ND		0.378	0.0596	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pentachlorophenol	ND		0.378	0.154	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Phenanthrene	**0.249**		0.0763	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Phenol	ND		0.378	0.0778	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pyrene	**0.387**		0.0763	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pyridine	ND		0.378	0.0894	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
2-Fluorophenol (Surr)	*88*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:34*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.142**	**J**	0.263	0.135	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.263	0.113	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Ethylbenzene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Methyl tert-butyl ether	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Naphthalene	ND		0.0527	0.0358	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
o-Xylene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Toluene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
C5-C8 Aliphatics (unadjusted)	**0.142**	**J**	0.263	0.135	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
C9-C10 Aromatics	ND		0.263	0.0369	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
C9-C12 Aliphatics (unadjusted)	ND		0.263	0.113	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:43*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:43*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0446	0.0322	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1221	ND		0.0446	0.0132	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1232	ND		0.0446	0.0124	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0446	0.00705	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1248	ND		0.0446	0.0139	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1254	**1.08**		0.0446	0.0347	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1262	ND		0.0446	0.0104	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1260	ND		0.0446	0.00959	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1268	ND		0.0446	0.00951	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoroheptanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorononanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorodecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorotridecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorotetradecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorobutanesulfonic acid	ND		2.18	0.436	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorohexanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
10:2 FTS	ND		2.18	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoropentanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoroheptanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorononanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorodecanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctanesulfonamide	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorohexadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorobutanoic acid	ND		2.18	0.872	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoropentanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NMeFOSE	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NMeFOSA	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NEtFOSE	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NEtFOSA	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
DONA	ND		3.27	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
11Cl-PF3OUdS	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorododecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoroundecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
8:2 Fluorotelomer sulfonic acid	ND		3.27	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
M2-8:2 FTS	*103*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
M2-6:2 FTS	*116*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C5 PFHxA	*106*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C9 PFNA	*112*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C3 PFBS	*113*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C3 PFHxS	*113*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d3-NMeFOSAA	*73*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d5-NEtFOSAA	*87*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C4 PFBA	*102*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C5 PFPeA	*101*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C3 HFPO-DA	*87*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.08**	**J**	4.77	1.62	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Arsenic	**6.18**		2.86	1.34	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Barium	**531**		4.77	1.43	mg/Kg	☼	03/07/23 13:12	03/10/23 08:23	10
Beryllium	**0.621**		0.477	0.0954	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Cadmium	**0.216**	**J**	0.477	0.0954	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Chromium	**10.3**		1.43	0.334	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Lead	**76.1**		1.43	0.572	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Nickel	**10.3**		0.954	0.248	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Selenium	ND		4.77	1.43	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Silver	ND	^3+	0.954	0.382	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Thallium	ND		2.86	1.24	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Vanadium	**11.9**		0.954	0.410	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Zinc	**302**	**^5-**	1.91	0.763	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0264**	**J**	0.0687	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:14	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0608'
Date Collected: 03/03/23 10:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-27
Matrix: Solid
Percent Solids: 86.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00458	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Acetone	ND		0.0458	0.0103	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Acrylonitrile	ND		0.00458	0.00275	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Benzene	ND		0.00458	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromobenzene	ND		0.00458	0.00305	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromochloromethane	ND		0.00458	0.00260	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromodichloromethane	ND		0.00458	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromoform	ND		0.00458	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromomethane	ND		0.00916	0.00570	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2-Butanone (MEK)	ND		0.00916	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
n-Butylbenzene	ND		0.00916	0.00491	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
sec-Butylbenzene	ND		0.00458	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
tert-Butylbenzene	ND		0.00458	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Carbon disulfide	ND		0.00916	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Carbon tetrachloride	ND		0.00458	0.00288	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chlorobenzene	ND		0.00458	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chloroethane	ND		0.00916	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chloroform	ND		0.00458	0.00308	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chloromethane	ND		0.00916	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2-Chlorotoluene	ND		0.00458	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
4-Chlorotoluene	ND		0.00458	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dibromo-3-Chloropropane	ND		0.00916	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Dibromochloromethane	ND		0.00458	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dibromoethane (EDB)	ND		0.00458	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Dibromomethane	ND		0.00458	0.00269	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dichlorobenzene	ND		0.00458	0.00425	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3-Dichlorobenzene	ND		0.00458	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,4-Dichlorobenzene	ND		0.00458	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00916	0.00245	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1-Dichloroethane	ND		0.00458	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dichloroethane	ND		0.00458	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1-Dichloroethene	ND		0.00458	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
cis-1,2-Dichloroethene	ND		0.00458	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
trans-1,2-Dichloroethene	ND		0.00458	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dichloropropane	ND		0.00458	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3-Dichloropropane	ND		0.00458	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2,2-Dichloropropane	ND		0.00458	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1-Dichloropropene	ND		0.00458	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
cis-1,3-Dichloropropene	ND		0.00458	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
trans-1,3-Dichloropropene	ND		0.00458	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethylbenzene	ND		0.00458	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Hexachlorobutadiene	ND		0.00916	0.00461	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2-Hexanone (MBK)	ND		0.00916	0.00269	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Isopropylbenzene	ND		0.00458	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
4-Isopropyltoluene	ND		0.00458	0.00450	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Methyl tert-butyl ether	ND		0.00458	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.00916	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Methylene Chloride	ND		0.00916	0.00245	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Naphthalene	ND		0.00458	0.00414	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00458	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Styrene	ND		0.00458	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,1,2-Tetrachloroethane	ND		0.00458	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,2,2-Tetrachloroethane	ND		0.00458	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Tetrachloroethene	ND		0.00458	0.00255	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Toluene	ND		0.00458	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,3-Trichlorobenzene	ND		0.00458	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,4-Trichlorobenzene	ND		0.00458	0.00422	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3,5-Trichlorobenzene	ND		0.00458	0.00435	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,1-Trichloroethane	ND		0.00458	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,2-Trichloroethane	ND		0.00458	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Trichloroethene	ND		0.00458	0.00308	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Trichlorofluoromethane (Freon 11)	ND		0.00458	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,3-Trichloropropane	ND		0.00458	0.00407	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,4-Trimethylbenzene	ND		0.00458	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3,5-Trimethylbenzene	ND		0.00458	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Vinyl chloride	ND		0.00458	0.00279	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
m,p-Xylene	ND		0.00458	0.00625	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
o-Xylene	ND		0.00458	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Tetrahydrofuran	ND		0.00916	0.00232	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethyl ether	ND		0.00458	0.00241	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Tert-amyl methyl ether	ND		0.00458	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethyl tert-butyl ether	ND		0.00458	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
di-Isopropyl ether	ND		0.00458	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
tert-Butanol	ND		0.0916	0.0245	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,4-Dioxane	ND		0.0916	0.0285	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
trans-1,4-Dichloro-2-butene	ND		0.0229	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethanol	ND		0.916	0.0568	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3-Dichloropropene, Total	ND		0.00458	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Xylenes, Total	ND		0.0137	0.00458	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.370	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,2,4-Trichlorobenzene	ND		0.370	0.0849	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,2-Dichlorobenzene	ND		0.370	0.0714	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,3-Dichlorobenzene	ND		0.370	0.0897	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,4-Dichlorobenzene	ND		0.370	0.0872	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1-Methylnaphthalene	ND		0.0749	0.0629	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4,5-Trichlorophenol	ND		0.370	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4,6-Trichlorophenol	ND		0.187	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4-Dichlorophenol	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4-Dimethylphenol	ND		0.370	0.0543	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4-Dinitrophenol	ND		0.370	0.0974	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0608'
Date Collected: 03/03/23 10:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-27
Matrix: Solid
Percent Solids: 86.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,6-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Chloronaphthalene	ND		0.370	0.0856	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Chlorophenol	ND		0.187	0.0767	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Methylnaphthalene	ND		0.0749	0.0553	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Methylphenol	ND		0.370	0.0541	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Nitroaniline	ND		0.370	0.0352	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Nitrophenol	ND		0.187	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
3 & 4 Methylphenol	ND		0.370	0.0702	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
3,3'-Dichlorobenzidine	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
3-Nitroaniline	ND		0.370	0.0331	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4,6-Dinitro-2-methylphenol	ND		0.370	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Bromophenyl phenyl ether	ND		0.370	0.0419	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Chloro-3-methylphenol	ND		0.370	0.0725	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Chloroaniline	ND		0.187	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Chlorophenyl phenyl ether	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Nitroaniline	ND		0.187	0.0592	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Nitrophenol	ND		0.370	0.129	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Acenaphthene	ND		0.0749	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Acenaphthylene	ND		0.0749	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Acetophenone	ND		0.187	0.0457	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Aniline	ND		0.370	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Anthracene	ND		0.0749	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Azobenzene/Diphenyldiazene	ND		0.370	0.0632	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzidine	ND		0.741	0.110	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[a]anthracene	ND		0.0749	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[a]pyrene	ND		0.0749	0.0535	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[b]fluoranthene	ND		0.0749	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[g,h,i]perylene	ND		0.0749	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[k]fluoranthene	ND		0.0749	0.0583	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzoic acid	ND		0.370	0.255	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzyl alcohol	ND		0.370	0.0671	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Bis(2-chloroethoxy)methane	ND		0.370	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Bis(2-chloroethyl)ether	ND		0.187	0.0613	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Bis(2-ethylhexyl) phthalate	ND		0.187	0.0477	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Butyl benzyl phthalate	ND		0.370	0.0372	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Carbazole	ND		0.187	0.0491	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Chrysene	ND		0.0749	0.0423	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Dibenz(a,h)anthracene	ND		0.0749	0.0571	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Dibenzofuran	ND		0.187	0.0649	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Diethyl phthalate	ND		0.370	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Dimethyl phthalate	ND		0.370	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Di-n-butyl phthalate	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Di-n-octyl phthalate	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Fluoranthene	ND		0.0749	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Fluorene	ND		0.0749	0.0684	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Hexachlorobenzene	ND		0.187	0.0520	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Hexachlorobutadiene	ND		0.187	0.0935	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Hexachloroethane	ND		0.187	0.0736	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Indeno[1,2,3-cd]pyrene	ND		0.0749	0.0635	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Isophorone	ND		0.187	0.0513	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Naphthalene	ND		0.0749	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Nitrobenzene	ND		0.187	0.0865	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
N-Nitrosodimethylamine	ND		0.187	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
N-Nitrosodiphenylamine	ND		0.370	0.0473	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pentachloronitrobenzene	ND		0.370	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pentachlorophenol	ND		0.370	0.152	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Phenanthrene	ND		0.0749	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Phenol	ND		0.370	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pyrene	ND		0.0749	0.0413	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pyridine	ND		0.370	0.0877	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
Phenol-d5 (Surr)	*88*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
Terphenyl-d14	*95*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:10*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Ethylbenzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Methyl tert-butyl ether	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
m,p-Xylene	ND		0.0972	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Naphthalene	ND		0.0486	0.0331	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
o-Xylene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Toluene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 19:23*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 19:23*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0221	0.0159	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1221	ND		0.0221	0.00653	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1232	ND		0.0221	0.00612	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0221	0.00349	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1248	ND		0.0221	0.00690	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1254	**0.0338**		0.0221	0.0172	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1262	ND		0.0221	0.00515	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1260	ND		0.0221	0.00475	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1268	ND		0.0221	0.00471	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoroheptanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorononanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorodecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorotridecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorotetradecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorobutanesulfonic acid	ND		2.22	0.443	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorohexanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
10:2 FTS	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoropentanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoroheptanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorononanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorodecanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctanesulfonamide	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorohexadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorobutanoic acid	ND		2.22	0.886	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoropentanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NMeFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NMeFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NEtFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NEtFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
DONA	ND		3.32	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
11Cl-PF3OUdS	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorododecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoroundecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
8:2 Fluorotelomer sulfonic acid	ND		3.32	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
M2-8:2 FTS	*119*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
M2-6:2 FTS	*120*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C4 PFHpA	*124*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C8 PFOA	*125*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C9 PFNA	*115*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C2-PFDoDA	*119*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C2 PFTeDA	*153*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C3 PFHxS	*125*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C8 PFOS	*124*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d3-NMeFOSAA	*94*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d5-NEtFOSAA	*105*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C8 FOSA	*115*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C4 PFBA	*120*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C5 PFPeA	*111*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d7-N-MeFOSE-M	*115*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d3-NMePFOSA	*102*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d9-N-EtFOSE-M	*121*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d5-NEtPFOSA	*110*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C3 HFPO-DA	*100*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.33	1.81	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Arsenic	ND		3.20	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Barium	**13.5**		0.533	0.160	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Beryllium	**0.216**	**J**	0.533	0.107	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Cadmium	ND		0.533	0.107	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Chromium	**3.38**		1.60	0.373	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Lead	**3.86**		1.60	0.640	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Nickel	**1.76**		1.07	0.277	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Selenium	ND		5.33	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Silver	ND	^3+	1.07	0.427	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Thallium	ND		3.20	1.39	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Vanadium	**4.65**		1.07	0.459	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Zinc	**7.78**		2.13	0.853	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0691	0.0230	mg/Kg	☼	03/07/23 13:21	03/08/23 11:32	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.2		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	86.8		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0810'
Date Collected: 03/03/23 10:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-28
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00471	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Acetone	ND		0.0471	0.0105	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Acrylonitrile	ND		0.00471	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Benzene	ND		0.00471	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromobenzene	ND		0.00471	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromochloromethane	ND		0.00471	0.00268	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromodichloromethane	ND		0.00471	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromoform	ND		0.00471	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromomethane	ND		0.00942	0.00587	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2-Butanone (MEK)	ND		0.00942	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
n-Butylbenzene	ND		0.00942	0.00505	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
sec-Butylbenzene	ND		0.00471	0.00380	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
tert-Butylbenzene	ND		0.00471	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Carbon disulfide	ND		0.00942	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Carbon tetrachloride	ND		0.00471	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chlorobenzene	ND		0.00471	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chloroethane	ND		0.00942	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chloroform	ND		0.00471	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chloromethane	ND		0.00942	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2-Chlorotoluene	ND		0.00471	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
4-Chlorotoluene	ND		0.00471	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dibromo-3-Chloropropane	ND		0.00942	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Dibromochloromethane	ND		0.00471	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dibromoethane (EDB)	ND		0.00471	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Dibromomethane	ND		0.00471	0.00277	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dichlorobenzene	ND		0.00471	0.00437	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3-Dichlorobenzene	ND		0.00471	0.00378	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,4-Dichlorobenzene	ND		0.00471	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00942	0.00252	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1-Dichloroethane	ND		0.00471	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dichloroethane	ND		0.00471	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1-Dichloroethene	ND		0.00471	0.00288	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
cis-1,2-Dichloroethene	ND		0.00471	0.00272	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
trans-1,2-Dichloroethene	ND		0.00471	0.00293	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dichloropropane	ND		0.00471	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3-Dichloropropane	ND		0.00471	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2,2-Dichloropropane	ND		0.00471	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1-Dichloropropene	ND		0.00471	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
cis-1,3-Dichloropropene	ND		0.00471	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
trans-1,3-Dichloropropene	ND		0.00471	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethylbenzene	ND		0.00471	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Hexachlorobutadiene	ND		0.00942	0.00474	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2-Hexanone (MBK)	ND		0.00942	0.00277	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Isopropylbenzene	ND		0.00471	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
4-Isopropyltoluene	ND		0.00471	0.00462	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Methyl tert-butyl ether	ND		0.00471	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
4-Methyl-2-pentanone (MIBK)	ND		0.00942	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Methylene Chloride	ND		0.00942	0.00252	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Naphthalene	ND		0.00471	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00471	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Styrene	ND		0.00471	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,1,2-Tetrachloroethane	ND		0.00471	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,2,2-Tetrachloroethane	ND		0.00471	0.00431	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Tetrachloroethene	ND		0.00471	0.00262	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Toluene	ND		0.00471	0.00299	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,3-Trichlorobenzene	ND		0.00471	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,4-Trichlorobenzene	ND		0.00471	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3,5-Trichlorobenzene	ND		0.00471	0.00447	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,1-Trichloroethane	ND		0.00471	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,2-Trichloroethane	ND		0.00471	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Trichloroethene	ND		0.00471	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Trichlorofluoromethane (Freon 11)	ND		0.00471	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,3-Trichloropropane	ND		0.00471	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,4-Trimethylbenzene	ND		0.00471	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3,5-Trimethylbenzene	ND		0.00471	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Vinyl chloride	ND		0.00471	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
m,p-Xylene	ND		0.00471	0.00643	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
o-Xylene	ND		0.00471	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Tetrahydrofuran	ND		0.00942	0.00238	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethyl ether	ND		0.00471	0.00248	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Tert-amyl methyl ether	ND		0.00471	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethyl tert-butyl ether	ND		0.00471	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
di-Isopropyl ether	ND		0.00471	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
tert-Butanol	ND		0.0942	0.0252	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,4-Dioxane	ND		0.0942	0.0293	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
trans-1,4-Dichloro-2-butene	ND		0.0235	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethanol	ND		0.942	0.0584	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3-Dichloropropene, Total	ND		0.00471	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Xylenes, Total	ND		0.0141	0.00471	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.368	0.0655	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,2,4-Trichlorobenzene	ND		0.368	0.0843	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,2-Dichlorobenzene	ND		0.368	0.0709	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,3-Dichlorobenzene	ND		0.368	0.0891	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,4-Dichlorobenzene	ND		0.368	0.0867	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1-Methylnaphthalene	ND		0.0744	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4,5-Trichlorophenol	ND		0.368	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4,6-Trichlorophenol	ND		0.186	0.0455	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4-Dichlorophenol	ND		0.186	0.0742	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4-Dimethylphenol	ND		0.368	0.0540	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4-Dinitrophenol	ND		0.368	0.0968	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0810'
Date Collected: 03/03/23 10:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-28
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,6-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Chloronaphthalene	ND		0.368	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Chlorophenol	ND		0.186	0.0762	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Methylnaphthalene	ND		0.0744	0.0550	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Methylphenol	ND		0.368	0.0538	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Nitroaniline	ND		0.368	0.0350	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Nitrophenol	ND		0.186	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
3 & 4 Methylphenol	ND		0.368	0.0697	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
3,3'-Dichlorobenzidine	ND		0.368	0.0608	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
3-Nitroaniline	ND		0.368	0.0329	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4,6-Dinitro-2-methylphenol	ND		0.368	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Bromophenyl phenyl ether	ND		0.368	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Chloro-3-methylphenol	ND		0.368	0.0721	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Chloroaniline	ND		0.186	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Chlorophenyl phenyl ether	ND		0.368	0.0394	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Nitroaniline	ND		0.186	0.0588	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Nitrophenol	ND		0.368	0.128	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Acenaphthene	ND		0.0744	0.0593	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Acenaphthylene	ND		0.0744	0.0489	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Acetophenone	ND		0.186	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Aniline	ND		0.368	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Anthracene	ND		0.0744	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Azobenzene/Diphenyldiazene	ND		0.368	0.0628	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzidine	ND		0.736	0.109	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[a]anthracene	ND		0.0744	0.0418	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[a]pyrene	ND		0.0744	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[b]fluoranthene	ND		0.0744	0.0617	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[g,h,i]perylene	ND		0.0744	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[k]fluoranthene	ND		0.0744	0.0579	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzoic acid	ND		0.368	0.253	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzyl alcohol	ND		0.368	0.0667	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Bis(2-chloroethoxy)methane	ND		0.368	0.0640	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Bis(2-chloroethyl)ether	ND		0.186	0.0609	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0829	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Bis(2-ethylhexyl) phthalate	ND		0.186	0.0474	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Butyl benzyl phthalate	ND		0.368	0.0369	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Carbazole	ND		0.186	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Chrysene	ND		0.0744	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Dibenz(a,h)anthracene	ND		0.0744	0.0568	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Dibenzofuran	ND		0.186	0.0645	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Diethyl phthalate	ND		0.368	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Dimethyl phthalate	ND		0.368	0.0480	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Di-n-butyl phthalate	ND		0.368	0.0394	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Di-n-octyl phthalate	ND		0.368	0.0608	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Fluoranthene	ND		0.0744	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Fluorene	ND		0.0744	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Hexachlorobenzene	ND		0.186	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Hexachlorobutadiene	ND		0.186	0.0929	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.186	0.0712	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Hexachloroethane	ND		0.186	0.0732	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0744	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Isophorone	ND		0.186	0.0510	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Naphthalene	ND		0.0744	0.0714	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Nitrobenzene	ND		0.186	0.0860	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
N-Nitrosodimethylamine	ND		0.186	0.0489	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0742	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
N-Nitrosodiphenylamine	ND		0.368	0.0470	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pentachloronitrobenzene	ND		0.368	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pentachlorophenol	ND		0.368	0.151	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Phenanthrene	ND		0.0744	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Phenol	ND		0.368	0.0759	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pyrene	ND		0.0744	0.0410	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pyridine	ND		0.368	0.0871	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
Phenol-d5 (Surr)	*87*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
Terphenyl-d14	*101*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Ethylbenzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Methyl tert-butyl ether	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
m,p-Xylene	ND		0.0972	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Naphthalene	ND		0.0486	0.0330	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
o-Xylene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Toluene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:02*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:02*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1221	ND		0.0223	0.00659	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1232	ND		0.0223	0.00617	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1248	ND		0.0223	0.00696	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1254	ND		0.0223	0.0173	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1262	ND		0.0223	0.00519	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1260	ND		0.0223	0.00479	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1268	ND		0.0223	0.00475	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoroheptanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorononanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorodecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorotridecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorotetradecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorobutanesulfonic acid	ND		2.17	0.434	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorohexanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
10:2 FTS	ND		2.17	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoropentanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoroheptanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorononanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorodecanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctanesulfonamide	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorohexadecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctadecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorobutanoic acid	ND		2.17	0.868	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoropentanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NMeFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NMeFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NEtFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NEtFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
HFPODA	ND		2.17	1.08	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
DONA	ND		3.25	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
11Cl-PF3OUdS	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorododecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoroundecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
M2-8:2 FTS	*118*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C5 PFHxA	*115*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C4 PFHpA	*123*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C2-PFDoDA	*118*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C2 PFTeDA	*144*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C3 PFBS	*131*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C3 PFHxS	*122*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d3-NMeFOSAA	*108*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d5-NEtFOSAA	*107*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C8 FOSA	*113*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C4 PFBA	*118*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d3-NMePFOSA	*114*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d9-N-EtFOSE-M	*130*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d5-NEtPFOSA	*119*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C3 HFPO-DA	*100*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.29	1.46	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Arsenic	ND		2.57	1.20	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Barium	**22.1**		0.429	0.129	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Beryllium	**0.208**	**J**	0.429	0.0858	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Cadmium	ND		0.429	0.0858	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Chromium	**5.10**		1.29	0.300	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Lead	**2.54**		1.29	0.515	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Nickel	**2.94**		0.858	0.223	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Selenium	ND		4.29	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Silver	ND	^3+	0.858	0.343	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Thallium	ND		2.57	1.12	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Vanadium	**8.26**		0.858	0.369	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Zinc	**11.8**		1.72	0.686	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0657	0.0219	mg/Kg	☼	03/07/23 13:21	03/08/23 11:28	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-1012'
Date Collected: 03/03/23 11:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-29
Matrix: Solid
Percent Solids: 87.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00434	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Acetone	ND		0.0434	0.00971	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Acrylonitrile	ND		0.00434	0.00260	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Benzene	ND		0.00434	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromobenzene	ND		0.00434	0.00289	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromochloromethane	ND		0.00434	0.00246	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromodichloromethane	ND		0.00434	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromoform	ND		0.00434	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromomethane	ND		0.00867	0.00540	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2-Butanone (MEK)	ND		0.00867	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
n-Butylbenzene	ND		0.00867	0.00465	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
sec-Butylbenzene	ND		0.00434	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
tert-Butylbenzene	ND		0.00434	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Carbon disulfide	**0.00841**	**J**	0.00867	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Carbon tetrachloride	ND		0.00434	0.00273	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chlorobenzene	ND		0.00434	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chloroethane	ND		0.00867	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chloroform	ND		0.00434	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chloromethane	ND		0.00867	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2-Chlorotoluene	ND		0.00434	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
4-Chlorotoluene	ND		0.00434	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dibromo-3-Chloropropane	ND		0.00867	0.00368	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Dibromochloromethane	ND		0.00434	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dibromoethane (EDB)	ND		0.00434	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Dibromomethane	ND		0.00434	0.00255	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dichlorobenzene	ND		0.00434	0.00402	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3-Dichlorobenzene	ND		0.00434	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,4-Dichlorobenzene	ND		0.00434	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00867	0.00232	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1-Dichloroethane	ND		0.00434	0.00294	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dichloroethane	ND		0.00434	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1-Dichloroethene	ND		0.00434	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
cis-1,2-Dichloroethene	ND		0.00434	0.00251	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
trans-1,2-Dichloroethene	ND		0.00434	0.00270	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dichloropropane	ND		0.00434	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3-Dichloropropane	ND		0.00434	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2,2-Dichloropropane	ND		0.00434	0.00299	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1-Dichloropropene	ND		0.00434	0.00295	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
cis-1,3-Dichloropropene	ND		0.00434	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
trans-1,3-Dichloropropene	ND		0.00434	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethylbenzene	ND		0.00434	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Hexachlorobutadiene	ND		0.00867	0.00436	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2-Hexanone (MBK)	ND		0.00867	0.00255	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Isopropylbenzene	ND		0.00434	0.00328	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
4-Isopropyltoluene	ND		0.00434	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Methyl tert-butyl ether	ND		0.00434	0.00250	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		0.00867	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Methylene Chloride	ND		0.00867	0.00232	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Naphthalene	ND		0.00434	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00434	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Styrene	ND		0.00434	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,1,2-Tetrachloroethane	ND		0.00434	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,2,2-Tetrachloroethane	ND		0.00434	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Tetrachloroethene	ND		0.00434	0.00241	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Toluene	ND		0.00434	0.00275	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,3-Trichlorobenzene	ND		0.00434	0.00366	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,4-Trichlorobenzene	ND		0.00434	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3,5-Trichlorobenzene	ND		0.00434	0.00412	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,1-Trichloroethane	ND		0.00434	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,2-Trichloroethane	ND		0.00434	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Trichloroethene	ND		0.00434	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Trichlorofluoromethane (Freon 11)	ND		0.00434	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,3-Trichloropropane	ND		0.00434	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,4-Trimethylbenzene	ND		0.00434	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3,5-Trimethylbenzene	ND		0.00434	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Vinyl chloride	ND		0.00434	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
m,p-Xylene	ND		0.00434	0.00592	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
o-Xylene	ND		0.00434	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Tetrahydrofuran	ND		0.00867	0.00219	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethyl ether	ND		0.00434	0.00228	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Tert-amyl methyl ether	ND		0.00434	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethyl tert-butyl ether	ND		0.00434	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
di-Isopropyl ether	ND		0.00434	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
tert-Butanol	ND		0.0867	0.0232	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,4-Dioxane	ND		0.0867	0.0270	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
trans-1,4-Dichloro-2-butene	ND		0.0217	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethanol	ND		0.867	0.0538	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3-Dichloropropene, Total	ND		0.00434	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Xylenes, Total	ND		0.0130	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.372	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,2,4-Trichlorobenzene	ND		0.372	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,2-Dichlorobenzene	ND		0.372	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,3-Dichlorobenzene	ND		0.372	0.0900	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,4-Dichlorobenzene	ND		0.372	0.0875	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1-Methylnaphthalene	ND		0.0751	0.0630	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4,5-Trichlorophenol	ND		0.372	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4,6-Trichlorophenol	ND		0.188	0.0459	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4-Dichlorophenol	ND		0.188	0.0749	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4-Dimethylphenol	ND		0.372	0.0545	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4-Dinitrophenol	ND		0.372	0.0977	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-1012'
Date Collected: 03/03/23 11:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-29
Matrix: Solid
Percent Solids: 87.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,6-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Chloronaphthalene	ND		0.372	0.0859	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Chlorophenol	ND		0.188	0.0769	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Methylnaphthalene	ND		0.0751	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Methylphenol	ND		0.372	0.0543	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Nitroaniline	ND		0.372	0.0354	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Nitrophenol	ND		0.188	0.0668	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
3 & 4 Methylphenol	ND		0.372	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
3,3'-Dichlorobenzidine	ND		0.372	0.0614	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
3-Nitroaniline	ND		0.372	0.0332	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4,6-Dinitro-2-methylphenol	ND		0.372	0.0668	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Bromophenyl phenyl ether	ND		0.372	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Chloro-3-methylphenol	ND		0.372	0.0727	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Chloroaniline	ND		0.188	0.0285	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Chlorophenyl phenyl ether	ND		0.372	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Nitroaniline	ND		0.188	0.0593	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Nitrophenol	ND		0.372	0.129	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Acenaphthene	ND		0.0751	0.0599	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Acenaphthylene	ND		0.0751	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Acetophenone	ND		0.188	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Aniline	ND		0.372	0.0285	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Anthracene	ND		0.0751	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Azobenzene/Diphenyldiazene	ND		0.372	0.0634	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzidine	ND		0.743	0.110	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[a]anthracene	ND		0.0751	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[a]pyrene	ND		0.0751	0.0537	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[b]fluoranthene	ND		0.0751	0.0623	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[g,h,i]perylene	ND		0.0751	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[k]fluoranthene	ND		0.0751	0.0584	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzoic acid	ND		0.372	0.256	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzyl alcohol	ND		0.372	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Bis(2-chloroethoxy)methane	ND		0.372	0.0646	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Bis(2-chloroethyl)ether	ND		0.188	0.0615	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
bis (2-chloroisopropyl) ether	ND		0.188	0.0836	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Bis(2-ethylhexyl) phthalate	ND		0.188	0.0478	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Butyl benzyl phthalate	ND		0.372	0.0373	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Carbazole	ND		0.188	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Chrysene	ND		0.0751	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Dibenz(a,h)anthracene	ND		0.0751	0.0573	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Dibenzofuran	ND		0.188	0.0651	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Diethyl phthalate	ND		0.372	0.0408	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Dimethyl phthalate	ND		0.372	0.0484	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Di-n-butyl phthalate	ND		0.372	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Di-n-octyl phthalate	ND		0.372	0.0614	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Fluoranthene	ND		0.0751	0.0440	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Fluorene	ND		0.0751	0.0686	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Hexachlorobenzene	ND		0.188	0.0521	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Hexachlorobutadiene	ND		0.188	0.0938	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.188	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Hexachloroethane	ND		0.188	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0751	0.0637	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Isophorone	ND		0.188	0.0515	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Naphthalene	ND		0.0751	0.0721	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Nitrobenzene	ND		0.188	0.0868	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
N-Nitrosodimethylamine	ND		0.188	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
N-Nitrosodi-n-propylamine	ND		0.188	0.0749	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
N-Nitrosodiphenylamine	ND		0.372	0.0474	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pentachloronitrobenzene	ND		0.372	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pentachlorophenol	ND		0.372	0.152	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Phenanthrene	ND		0.0751	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Phenol	ND		0.372	0.0766	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pyrene	ND		0.0751	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pyridine	ND		0.372	0.0879	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
Phenol-d5 (Surr)	*98*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
Terphenyl-d14	*101*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.362	0.185	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.362	0.155	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Ethylbenzene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Methyl tert-butyl ether	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
m,p-Xylene	ND		0.145	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Naphthalene	ND		0.0723	0.0492	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
o-Xylene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Toluene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
C5-C8 Aliphatics (unadjusted)	ND		0.362	0.185	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
C9-C10 Aromatics	ND		0.362	0.0506	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
C9-C12 Aliphatics (unadjusted)	ND		0.362	0.155	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:41*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:41*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0220	0.0158	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1221	ND		0.0220	0.00649	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1232	ND		0.0220	0.00609	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0220	0.00347	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1248	ND		0.0220	0.00687	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1254	ND		0.0220	0.0171	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1262	ND		0.0220	0.00512	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1260	ND		0.0220	0.00472	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1268	ND		0.0220	0.00468	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoroheptanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorononanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorodecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorotridecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorotetradecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorobutanesulfonic acid	ND		2.18	0.437	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorohexanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
10:2 FTS	ND		2.18	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoropentanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoroheptanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorononanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorodecanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctanesulfonamide	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorohexadecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctadecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorobutanoic acid	ND		2.18	0.874	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoropentanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NMeFOSE	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NMeFOSA	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NEtFOSE	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NEtFOSA	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
DONA	ND		3.28	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
11Cl-PF3OUdS	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorododecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoroundecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
8:2 Fluorotelomer sulfonic acid	ND		3.28	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
M2-6:2 FTS	*121*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C4 PFHpA	*109*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C8 PFOA	*126*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C9 PFNA	*123*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C6 PFDA	*117*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C2-PFDoDA	*122*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C2 PFTeDA	*144*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C3 PFBS	*137*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C3 PFHxS	*122*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C8 PFOS	*128*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d3-NMeFOSAA	*106*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d5-NEtFOSAA	*114*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C8 FOSA	*115*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C4 PFBA	*123*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C5 PFPeA	*119*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d3-NMePFOSA	*116*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d9-N-EtFOSE-M	*128*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d5-NEtPFOSA	*122*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C3 HFPO-DA	*95*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:36*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.46	1.86	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Arsenic	ND		3.28	1.53	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Barium	**9.86**		0.546	0.164	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Beryllium	**0.155**	**J**	0.546	0.109	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Cadmium	ND		0.546	0.109	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Chromium	**6.38**		1.64	0.382	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Lead	**2.12**		1.64	0.655	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Nickel	**2.02**		1.09	0.284	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Selenium	ND		5.46	1.64	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Silver	ND	^3+	1.09	0.437	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Thallium	ND		3.28	1.42	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Vanadium	**4.16**		1.09	0.470	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Zinc	**7.25**		2.18	0.874	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0688	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:49	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.8		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.2		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'
Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-30
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00506	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Acetone	**0.0193**	**J B**	0.0506	0.0113	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Acrylonitrile	ND		0.00506	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Benzene	ND		0.00506	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromobenzene	ND	*3	0.00506	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromochloromethane	ND		0.00506	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromodichloromethane	ND		0.00506	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromoform	ND	*3	0.00506	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromomethane	ND		0.0101	0.00630	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
n-Butylbenzene	ND	*3	0.0101	0.00542	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
sec-Butylbenzene	ND	*3	0.00506	0.00408	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
tert-Butylbenzene	ND		0.00506	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Carbon disulfide	ND		0.0101	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Carbon tetrachloride	ND		0.00506	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chlorobenzene	ND	*3	0.00506	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chloroethane	ND		0.0101	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chloroform	ND		0.00506	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chloromethane	ND		0.0101	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2-Chlorotoluene	ND	*3	0.00506	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
4-Chlorotoluene	ND	*3	0.00506	0.00439	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0101	0.00429	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Dibromochloromethane	ND		0.00506	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dibromoethane (EDB)	ND		0.00506	0.00363	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Dibromomethane	ND		0.00506	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dichlorobenzene	ND	*3	0.00506	0.00469	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3-Dichlorobenzene	ND	*3	0.00506	0.00406	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,4-Dichlorobenzene	ND	*3	0.00506	0.00480	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1-Dichloroethane	ND		0.00506	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dichloroethane	ND		0.00506	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1-Dichloroethene	ND		0.00506	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
cis-1,2-Dichloroethene	ND		0.00506	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
trans-1,2-Dichloroethene	ND		0.00506	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dichloropropane	ND		0.00506	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3-Dichloropropane	ND		0.00506	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2,2-Dichloropropane	ND		0.00506	0.00349	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1-Dichloropropene	ND		0.00506	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
cis-1,3-Dichloropropene	ND		0.00506	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
trans-1,3-Dichloropropene	ND		0.00506	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethylbenzene	ND	*3	0.00506	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Hexachlorobutadiene	ND	*3	0.0101	0.00509	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Isopropylbenzene	ND	*3	0.00506	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
4-Isopropyltoluene	ND	*3	0.00506	0.00497	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Methyl tert-butyl ether	ND		0.00506	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Naphthalene	ND	*3	0.00506	0.00457	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'
Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-30
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00506	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Styrene	ND	*3	0.00506	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00506	0.00379	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00506	0.00463	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Tetrachloroethene	ND		0.00506	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Toluene	ND		0.00506	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,3-Trichlorobenzene	ND	*3	0.00506	0.00427	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,4-Trichlorobenzene	ND	*3	0.00506	0.00466	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3,5-Trichlorobenzene	ND	*3	0.00506	0.00481	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,1-Trichloroethane	ND		0.00506	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,2-Trichloroethane	ND		0.00506	0.00381	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Trichloroethene	ND		0.00506	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Trichlorofluoromethane (Freon 11)	ND		0.00506	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,3-Trichloropropane	ND	*3	0.00506	0.00449	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,4-Trimethylbenzene	ND	*3	0.00506	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3,5-Trimethylbenzene	ND	*3	0.00506	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Vinyl chloride	ND		0.00506	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
m,p-Xylene	ND	*3	0.00506	0.00691	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
o-Xylene	ND	*3	0.00506	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethyl ether	ND		0.00506	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Tert-amyl methyl ether	ND		0.00506	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethyl tert-butyl ether	ND		0.00506	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
di-Isopropyl ether	ND		0.00506	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethanol	ND		1.01	0.0627	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3-Dichloropropene, Total	ND		0.00506	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Xylenes, Total	ND		0.0152	0.00506	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*	*3	*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00709	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Acetone	ND		0.0709	0.0159	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Acrylonitrile	ND		0.00709	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Benzene	ND		0.00709	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromobenzene	ND		0.00709	0.00473	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromochloromethane	ND		0.00709	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromodichloromethane	ND		0.00709	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromoform	ND		0.00709	0.00542	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromomethane	ND	*+	0.0142	0.00884	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2-Butanone (MEK)	ND		0.0142	0.00565	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0142	0.00761	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
sec-Butylbenzene	ND		0.00709	0.00572	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
tert-Butylbenzene	ND		0.00709	0.00559	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Carbon disulfide	ND		0.0142	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Carbon tetrachloride	ND		0.00709	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chlorobenzene	ND		0.00709	0.00519	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chloroethane	ND		0.0142	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chloroform	ND		0.00709	0.00477	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chloromethane	ND		0.0142	0.00545	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2-Chlorotoluene	ND		0.00709	0.00565	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
4-Chlorotoluene	ND		0.00709	0.00616	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0142	0.00602	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Dibromochloromethane	ND		0.00709	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dibromoethane (EDB)	ND		0.00709	0.00509	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Dibromomethane	ND		0.00709	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dichlorobenzene	ND	*3	0.00709	0.00658	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3-Dichlorobenzene	ND		0.00709	0.00569	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,4-Dichlorobenzene	ND	*3	0.00709	0.00673	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Dichlorodifluoromethane (Freon 12)	ND		0.0142	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1-Dichloroethane	ND		0.00709	0.00481	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dichloroethane	ND		0.00709	0.00478	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1-Dichloroethene	ND		0.00709	0.00434	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
cis-1,2-Dichloroethene	ND		0.00709	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
trans-1,2-Dichloroethene	ND		0.00709	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dichloropropane	ND		0.00709	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3-Dichloropropane	ND		0.00709	0.00542	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2,2-Dichloropropane	ND		0.00709	0.00490	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1-Dichloropropene	ND		0.00709	0.00482	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
cis-1,3-Dichloropropene	ND		0.00709	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
trans-1,3-Dichloropropene	ND		0.00709	0.00539	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethylbenzene	ND		0.00709	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Hexachlorobutadiene	ND	*3	0.0142	0.00714	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2-Hexanone (MBK)	ND		0.0142	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Isopropylbenzene	ND		0.00709	0.00536	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
4-Isopropyltoluene	ND	*3	0.00709	0.00697	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Methyl tert-butyl ether	ND		0.00709	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.0142	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Methylene Chloride	ND		0.0142	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Naphthalene	ND	*3	0.00709	0.00641	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
N-Propylbenzene	ND		0.00709	0.00600	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Styrene	ND		0.00709	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1,1,2-Tetrachloroethane	ND		0.00709	0.00532	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1,2,2-Tetrachloroethane	ND		0.00709	0.00650	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Tetrachloroethene	ND		0.00709	0.00394	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Toluene	ND		0.00709	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,3-Trichlorobenzene	ND	*3	0.00709	0.00599	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,4-Trichlorobenzene	ND		0.00709	0.00654	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3,5-Trichlorobenzene	ND	*3	0.00709	0.00674	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1,1-Trichloroethane	ND		0.00709	0.00484	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00709	0.00535	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Trichloroethene	ND		0.00709	0.00477	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Trichlorofluoromethane (Freon 11)	ND		0.00709	0.00542	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,3-Trichloropropane	ND		0.00709	0.00630	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,4-Trimethylbenzene	ND		0.00709	0.00600	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3,5-Trimethylbenzene	ND		0.00709	0.00603	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Vinyl chloride	ND		0.00709	0.00433	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
m,p-Xylene	ND		0.00709	0.00969	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
o-Xylene	ND		0.00709	0.00518	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Tetrahydrofuran	ND		0.0142	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethyl ether	ND		0.00709	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Tert-amyl methyl ether	ND		0.00709	0.00560	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethyl tert-butyl ether	ND		0.00709	0.00467	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
di-Isopropyl ether	ND		0.00709	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
tert-Butanol	ND		0.142	0.0380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,4-Dioxane	ND		0.142	0.0441	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
trans-1,4-Dichloro-2-butene	ND		0.0355	0.00524	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethanol	ND		1.42	0.0880	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3-Dichloropropene, Total	ND		0.00709	0.00539	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Xylenes, Total	ND		0.0213	0.00709	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.390	0.0694	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,2,4-Trichlorobenzene	ND		0.390	0.0893	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,2-Dichlorobenzene	ND		0.390	0.0752	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,3-Dichlorobenzene	ND		0.390	0.0944	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,4-Dichlorobenzene	ND		0.390	0.0918	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1-Methylnaphthalene	ND		0.0788	0.0662	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4,5-Trichlorophenol	ND		0.390	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4,6-Trichlorophenol	ND		0.197	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dichlorophenol	ND		0.197	0.0786	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dimethylphenol	ND		0.390	0.0572	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dinitrophenol	ND		0.390	0.103	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dinitrotoluene	ND		0.197	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,6-Dinitrotoluene	ND		0.197	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Chloronaphthalene	ND		0.390	0.0902	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Chlorophenol	ND		0.197	0.0807	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Methylnaphthalene	ND		0.0788	0.0583	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Methylphenol	ND		0.390	0.0570	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Nitroaniline	ND		0.390	0.0371	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Nitrophenol	ND		0.197	0.0701	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
3 & 4 Methylphenol	ND		0.390	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
3,3'-Dichlorobenzidine	ND		0.390	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'
Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-30
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.390	0.0349	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4,6-Dinitro-2-methylphenol	ND		0.390	0.0701	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Bromophenyl phenyl ether	ND		0.390	0.0441	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Chloro-3-methylphenol	ND		0.390	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Chloroaniline	ND		0.197	0.0299	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Chlorophenyl phenyl ether	ND		0.390	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Nitroaniline	ND		0.197	0.0623	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Nitrophenol	ND		0.390	0.136	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Acenaphthene	ND		0.0788	0.0629	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Acenaphthylene	ND		0.0788	0.0518	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Acetophenone	ND		0.197	0.0481	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Aniline	ND		0.390	0.0299	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Anthracene	ND		0.0788	0.0456	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Azobenzene/Diphenyldiazene	ND		0.390	0.0665	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzidine	ND		0.780	0.115	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[a]anthracene	ND		0.0788	0.0443	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[a]pyrene	ND		0.0788	0.0564	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[b]fluoranthene	ND		0.0788	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[g,h,i]perylene	ND		0.0788	0.0616	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[k]fluoranthene	ND		0.0788	0.0613	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzoic acid	ND		0.390	0.268	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzyl alcohol	ND		0.390	0.0707	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Bis(2-chloroethoxy)methane	ND		0.390	0.0678	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Bis(2-chloroethyl)ether	ND		0.197	0.0645	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
bis (2-chloroisopropyl) ether	ND		0.197	0.0878	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Bis(2-ethylhexyl) phthalate	ND		0.197	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Butyl benzyl phthalate	ND		0.390	0.0391	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Carbazole	ND		0.197	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Chrysene	ND		0.0788	0.0446	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Dibenz(a,h)anthracene	ND		0.0788	0.0602	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Dibenzofuran	ND		0.197	0.0683	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Diethyl phthalate	ND		0.390	0.0428	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Dimethyl phthalate	ND		0.390	0.0508	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Di-n-butyl phthalate	ND		0.390	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Di-n-octyl phthalate	ND		0.390	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Fluoranthene	ND		0.0788	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Fluorene	ND		0.0788	0.0720	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachlorobenzene	ND		0.197	0.0547	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachlorobutadiene	ND		0.197	0.0984	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachlorocyclopentadiene	ND		0.197	0.0754	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachloroethane	ND		0.197	0.0775	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0788	0.0669	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Isophorone	ND		0.197	0.0540	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Naphthalene	ND		0.0788	0.0756	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Nitrobenzene	ND		0.197	0.0911	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
N-Nitrosodimethylamine	ND		0.197	0.0518	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
N-Nitrosodi-n-propylamine	ND		0.197	0.0786	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
N-Nitrosodiphenylamine	ND		0.390	0.0498	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Pentachloronitrobenzene	ND		0.390	0.0616	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.390	0.160	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Phenanthrene	ND		0.0788	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Phenol	ND		0.390	0.0804	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Pyrene	ND		0.0788	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Pyridine	ND		0.390	0.0923	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
Nitrobenzene-d5 (Surr)	*72*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
Phenol-d5 (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.344	0.176	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.344	0.147	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Ethylbenzene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Methyl tert-butyl ether	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
m,p-Xylene	ND		0.138	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Naphthalene	ND		0.0688	0.0468	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
o-Xylene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Toluene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
C5-C8 Aliphatics (unadjusted)	ND		0.344	0.176	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
C9-C10 Aromatics	ND		0.344	0.0482	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
C9-C12 Aliphatics (unadjusted)	ND		0.344	0.147	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/08/23 06:56*	*03/08/23 21:21*	*1*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/08/23 06:56*	*03/08/23 21:21*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0246	0.0177	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1221	ND		0.0246	0.00727	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1232	ND		0.0246	0.00682	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1242	ND		0.0246	0.00389	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1248	ND		0.0246	0.00769	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1254	**0.0712**		0.0246	0.0192	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1262	ND		0.0246	0.00574	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1260	ND		0.0246	0.00529	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1268	ND		0.0246	0.00524	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:14*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:14*	*1*

Client Sample ID: 2023-MW-05-0406'
Lab Sample ID: 620-10117-30
Date Collected: 03/03/23 11:05
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 80.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		30 - 150	03/09/23 15:27	03/14/23 04:14	1
DCB Decachlorobiphenyl (Surr)	74		30 - 150	03/09/23 15:27	03/14/23 04:14	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoroheptanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorononanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorodecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorotridecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorotetradecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorobutanesulfonic acid	ND		2.36	0.473	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorohexanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NEtFOSAA	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NMeFOSAA	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
10:2 FTS	ND		2.36	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoropentanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoroheptanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorononanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorodecanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctanesulfonamide	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorohexadecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctadecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorobutanoic acid	ND		2.36	0.945	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoropentanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NMeFOSE	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NMeFOSA	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NEtFOSE	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NEtFOSA	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
HFPODA	ND		2.36	1.18	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
DONA	ND		3.54	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
9Cl-PF3ONS	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
11Cl-PF3OUdS	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorododecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
4:2 Fluorotelomer sulfonic acid	ND		2.36	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoroundecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
6:2 Fluorotelomer sulfonic acid	ND		2.36	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
8:2 Fluorotelomer sulfonic acid	ND		3.54	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	112		10 - 200	03/07/23 18:02	03/16/23 05:58	1
M2-8:2 FTS	128		15 - 200	03/07/23 18:02	03/16/23 05:58	1
M2-6:2 FTS	131		10 - 200	03/07/23 18:02	03/16/23 05:58	1
13C5 PFHxA	124		10 - 174	03/07/23 18:02	03/16/23 05:58	1
13C4 PFHpA	127		10 - 178	03/07/23 18:02	03/16/23 05:58	1
13C8 PFOA	130		26 - 159	03/07/23 18:02	03/16/23 05:58	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	122		26 - 165	03/07/23 18:02	03/16/23 05:58	1
13C6 PFDA	123		26 - 161	03/07/23 18:02	03/16/23 05:58	1
13C7 PFUnA	127		12 - 173	03/07/23 18:02	03/16/23 05:58	1
13C2-PFDoDA	128		11 - 166	03/07/23 18:02	03/16/23 05:58	1
13C2 PFTeDA	154		10 - 169	03/07/23 18:02	03/16/23 05:58	1
13C3 PFBS	136		27 - 179	03/07/23 18:02	03/16/23 05:58	1
13C3 PFHxS	129		24 - 171	03/07/23 18:02	03/16/23 05:58	1
13C8 PFOS	132		41 - 154	03/07/23 18:02	03/16/23 05:58	1
d3-NMeFOSAA	81		10 - 178	03/07/23 18:02	03/16/23 05:58	1
d5-NEtFOSAA	92		10 - 193	03/07/23 18:02	03/16/23 05:58	1
13C8 FOSA	113		14 - 163	03/07/23 18:02	03/16/23 05:58	1
13C4 PFBA	129		28 - 153	03/07/23 18:02	03/16/23 05:58	1
13C5 PFPeA	121		24 - 161	03/07/23 18:02	03/16/23 05:58	1
d7-N-MeFOSE-M	125		10 - 179	03/07/23 18:02	03/16/23 05:58	1
d3-NMePFOSA	97		10 - 175	03/07/23 18:02	03/16/23 05:58	1
d9-N-EtFOSE-M	127		10 - 185	03/07/23 18:02	03/16/23 05:58	1
d5-NEtPFOSA	105		10 - 180	03/07/23 18:02	03/16/23 05:58	1
13C3 HFPO-DA	101		10 - 169	03/07/23 18:02	03/16/23 05:58	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.59	1.90	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Arsenic	ND		3.35	1.56	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Barium	**15.5**		0.559	0.168	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Beryllium	**0.378**	**J**	0.559	0.112	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Cadmium	ND		0.559	0.112	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Chromium	**4.99**		1.68	0.391	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Lead	**5.35**		1.68	0.671	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Nickel	**1.60**		1.12	0.291	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Selenium	ND		5.59	1.68	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Silver	ND	^3+	1.12	0.447	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Thallium	ND		3.35	1.45	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Vanadium	**3.83**		1.12	0.481	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Zinc	**5.43**		2.24	0.894	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0687	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**19.4**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**80.6**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-06
Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-31
Matrix: Solid
Percent Solids: 87.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00469	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Acetone	ND		0.0469	0.0105	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Acrylonitrile	ND		0.00469	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Benzene	ND		0.00469	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromobenzene	ND		0.00469	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromochloromethane	ND		0.00469	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromodichloromethane	ND		0.00469	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromoform	ND		0.00469	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromomethane	ND		0.00938	0.00584	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2-Butanone (MEK)	ND		0.00938	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
n-Butylbenzene	ND		0.00938	0.00503	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
sec-Butylbenzene	ND		0.00469	0.00378	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
tert-Butylbenzene	ND		0.00469	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Carbon disulfide	ND		0.00938	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Carbon tetrachloride	ND		0.00469	0.00295	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chlorobenzene	ND		0.00469	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chloroethane	ND		0.00938	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chloroform	ND		0.00469	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chloromethane	ND		0.00938	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2-Chlorotoluene	ND		0.00469	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
4-Chlorotoluene	ND		0.00469	0.00407	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dibromo-3-Chloropropane	ND		0.00938	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Dibromochloromethane	ND		0.00469	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dibromoethane (EDB)	ND		0.00469	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Dibromomethane	ND		0.00469	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dichlorobenzene	ND		0.00469	0.00435	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3-Dichlorobenzene	ND		0.00469	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,4-Dichlorobenzene	ND		0.00469	0.00445	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00938	0.00251	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1-Dichloroethane	ND		0.00469	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dichloroethane	ND		0.00469	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1-Dichloroethene	ND		0.00469	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
cis-1,2-Dichloroethene	ND		0.00469	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
trans-1,2-Dichloroethene	ND		0.00469	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dichloropropane	ND		0.00469	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3-Dichloropropane	ND		0.00469	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2,2-Dichloropropane	ND		0.00469	0.00324	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1-Dichloropropene	ND		0.00469	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
cis-1,3-Dichloropropene	ND		0.00469	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
trans-1,3-Dichloropropene	ND		0.00469	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethylbenzene	ND		0.00469	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Hexachlorobutadiene	ND		0.00938	0.00472	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2-Hexanone (MBK)	ND		0.00938	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Isopropylbenzene	ND		0.00469	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
4-Isopropyltoluene	ND		0.00469	0.00461	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Methyl tert-butyl ether	ND		0.00469	0.00270	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.00938	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Methylene Chloride	ND		0.00938	0.00251	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Naphthalene	ND		0.00469	0.00424	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00469	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Styrene	ND		0.00469	0.00363	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,1,2-Tetrachloroethane	ND		0.00469	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,2,2-Tetrachloroethane	ND		0.00469	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Tetrachloroethene	ND		0.00469	0.00261	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Toluene	ND		0.00469	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,3-Trichlorobenzene	ND		0.00469	0.00396	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,4-Trichlorobenzene	ND		0.00469	0.00432	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3,5-Trichlorobenzene	ND		0.00469	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,1-Trichloroethane	ND		0.00469	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,2-Trichloroethane	ND		0.00469	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Trichloroethene	ND		0.00469	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Trichlorofluoromethane (Freon 11)	ND		0.00469	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,3-Trichloropropane	ND		0.00469	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,4-Trimethylbenzene	ND		0.00469	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3,5-Trimethylbenzene	ND		0.00469	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Vinyl chloride	ND		0.00469	0.00286	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
m,p-Xylene	ND		0.00469	0.00641	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
o-Xylene	ND		0.00469	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Tetrahydrofuran	ND		0.00938	0.00237	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethyl ether	ND		0.00469	0.00247	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Tert-amyl methyl ether	ND		0.00469	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethyl tert-butyl ether	ND		0.00469	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
di-Isopropyl ether	ND		0.00469	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
tert-Butanol	ND		0.0938	0.0251	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,4-Dioxane	ND		0.0938	0.0292	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
trans-1,4-Dichloro-2-butene	ND		0.0234	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethanol	ND		0.938	0.0582	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3-Dichloropropene, Total	ND		0.00469	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Xylenes, Total	ND		0.0141	0.00469	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.368	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,2,4-Trichlorobenzene	ND		0.368	0.0842	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,2-Dichlorobenzene	ND		0.368	0.0709	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,3-Dichlorobenzene	ND		0.368	0.0890	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,4-Dichlorobenzene	ND		0.368	0.0866	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1-Methylnaphthalene	ND		0.0743	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4,5-Trichlorophenol	ND		0.368	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4,6-Trichlorophenol	ND		0.186	0.0455	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4-Dichlorophenol	ND		0.186	0.0741	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4-Dimethylphenol	ND		0.368	0.0539	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4-Dinitrophenol	ND		0.368	0.0967	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-06
Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-31
Matrix: Solid
Percent Solids: 87.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,6-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Chloronaphthalene	ND		0.368	0.0850	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Chlorophenol	ND		0.186	0.0761	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Methylnaphthalene	ND		0.0743	0.0549	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Methylphenol	ND		0.368	0.0537	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Nitroaniline	ND		0.368	0.0350	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Nitrophenol	ND		0.186	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
3 & 4 Methylphenol	ND		0.368	0.0696	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
3,3'-Dichlorobenzidine	ND		0.368	0.0607	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
3-Nitroaniline	ND		0.368	0.0329	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4,6-Dinitro-2-methylphenol	ND		0.368	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Bromophenyl phenyl ether	ND		0.368	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Chloro-3-methylphenol	ND		0.368	0.0720	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Chloroaniline	ND		0.186	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Chlorophenyl phenyl ether	ND		0.368	0.0393	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Nitroaniline	ND		0.186	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Nitrophenol	ND		0.368	0.128	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Acenaphthene	ND		0.0743	0.0593	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Acenaphthylene	ND		0.0743	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Acetophenone	ND		0.186	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Aniline	ND		0.368	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Anthracene	ND		0.0743	0.0430	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Azobenzene/Diphenyldiazene	ND		0.368	0.0627	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzidine	ND		0.735	0.109	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[a]anthracene	ND		0.0743	0.0418	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[a]pyrene	ND		0.0743	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[b]fluoranthene	ND		0.0743	0.0616	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[g,h,i]perylene	ND		0.0743	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[k]fluoranthene	ND		0.0743	0.0578	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzoic acid	**0.524**		0.368	0.253	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzyl alcohol	ND		0.368	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Bis(2-chloroethoxy)methane	ND		0.368	0.0640	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Bis(2-chloroethyl)ether	ND		0.186	0.0608	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0828	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Bis(2-ethylhexyl) phthalate	**4.31**		0.744	0.189	mg/Kg	☼	03/14/23 10:48	03/16/23 18:28	4
Butyl benzyl phthalate	**2.25**		0.368	0.0369	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Carbazole	ND		0.186	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Chrysene	ND		0.0743	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Dibenz(a,h)anthracene	ND		0.0743	0.0567	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Dibenzofuran	ND		0.186	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Diethyl phthalate	ND		0.368	0.0403	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Dimethyl phthalate	ND		0.368	0.0479	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Di-n-butyl phthalate	ND		0.368	0.0393	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Di-n-octyl phthalate	ND		0.368	0.0607	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Fluoranthene	ND		0.0743	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Fluorene	ND		0.0743	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Hexachlorobenzene	ND		0.186	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Hexachlorobutadiene	ND		0.186	0.0928	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.186	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Hexachloroethane	ND		0.186	0.0731	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Indeno[1,2,3-cd]pyrene	ND		0.0743	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Isophorone	ND		0.186	0.0509	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Naphthalene	ND		0.0743	0.0713	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Nitrobenzene	ND		0.186	0.0859	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
N-Nitrosodimethylamine	ND		0.186	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0741	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
N-Nitrosodiphenylamine	ND		0.368	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pentachloronitrobenzene	ND		0.368	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pentachlorophenol	ND		0.368	0.150	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Phenanthrene	ND		0.0743	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Phenol	ND		0.368	0.0758	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pyrene	ND		0.0743	0.0410	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pyridine	ND		0.368	0.0870	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
2-Fluorophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
Phenol-d5 (Surr)	*94*		*15 - 110*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
Phenol-d5 (Surr)	*59*		*15 - 110*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*15 - 110*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
Terphenyl-d14	*79*		*30 - 130*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/14/23 10:48*	*03/16/23 18:28*	*4*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.331	0.169	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	**0.357**		0.331	0.142	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Ethylbenzene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Methyl tert-butyl ether	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
m,p-Xylene	ND		0.132	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Naphthalene	**0.0980**	**B**	0.0661	0.0450	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
o-Xylene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Toluene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.331	0.169	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
C9-C10 Aromatics	**0.149**	**J**	0.331	0.0463	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
C9-C12 Aliphatics (unadjusted)	**0.506**		0.331	0.142	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/08/23 06:56*	*03/08/23 22:39*	*1*

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/08/23 06:56*	*03/08/23 22:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.455	0.328	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1221	ND		0.455	0.134	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1232	ND		0.455	0.126	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1242	ND		0.455	0.0719	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1248	ND		0.455	0.142	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1254	**14.5**		0.455	0.354	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1262	ND		0.455	0.106	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1260	ND		0.455	0.0978	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1268	ND		0.455	0.0969	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoroheptanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorononanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorodecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorotridecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorotetradecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorobutanesulfonic acid	ND		2.16	0.431	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorohexanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NEtFOSAA	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NMeFOSAA	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
10:2 FTS	ND		2.16	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoropentanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoroheptanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorononanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorodecanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctanesulfonamide	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorohexadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorobutanoic acid	ND		2.16	0.863	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoropentanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NMeFOSE	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NMeFOSA	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NEtFOSE	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NEtFOSA	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.16	1.08	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
DONA	ND		3.23	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
9Cl-PF3ONS	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
11Cl-PF3OUdS	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorododecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
4:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoroundecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
6:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
M2-8:2 FTS	*112*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
M2-6:2 FTS	*126*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C5 PFHxA	*122*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C4 PFHpA	*127*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C8 PFOA	*129*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C9 PFNA	*119*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C6 PFDA	*113*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C7 PFUnA	*125*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C2-PFDoDA	*116*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C2 PFTeDA	*141*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C3 PFBS	*131*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C3 PFHxS	*126*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C8 PFOS	*122*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d3-NMeFOSAA	*97*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d5-NEtFOSAA	*99*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C4 PFBA	*125*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d3-NMePFOSA	*100*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d9-N-EtFOSE-M	*119*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C3 HFPO-DA	*104*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:09*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.97	1.69	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Arsenic	**2.06**	**J**	2.98	1.39	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Barium	**26.7**		0.497	0.149	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Beryllium	**0.256**	**J**	0.497	0.0994	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Cadmium	ND		0.497	0.0994	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Chromium	**10.6**		1.49	0.348	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Lead	**5.21**		1.49	0.596	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Nickel	**4.08**		0.994	0.258	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Selenium	ND		4.97	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Silver	ND	^3+	0.994	0.398	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Thallium	ND		2.98	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Vanadium	**8.49**		0.994	0.427	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-06
Lab Sample ID: 620-10117-31
Date Collected: 03/03/23 08:00
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 87.5

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	18.4		1.99	0.795	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0674	0.0225	mg/Kg	☼	03/07/23 13:21	03/08/23 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.5		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.5		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00476	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Acetone	ND		0.0476	0.0107	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Acrylonitrile	ND		0.00476	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Benzene	ND		0.00476	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromobenzene	ND		0.00476	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromochloromethane	ND		0.00476	0.00271	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromodichloromethane	ND		0.00476	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromoform	ND		0.00476	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromomethane	ND	*+	0.00953	0.00594	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2-Butanone (MEK)	ND		0.00953	0.00379	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
n-Butylbenzene	ND		0.00953	0.00511	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
sec-Butylbenzene	ND		0.00476	0.00384	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
tert-Butylbenzene	ND		0.00476	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Carbon disulfide	ND		0.00953	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Carbon tetrachloride	ND		0.00476	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chlorobenzene	ND		0.00476	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chloroethane	ND		0.00953	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chloroform	ND		0.00476	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chloromethane	ND		0.00953	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2-Chlorotoluene	ND		0.00476	0.00379	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
4-Chlorotoluene	ND		0.00476	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dibromo-3-Chloropropane	ND		0.00953	0.00404	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Dibromochloromethane	ND		0.00476	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dibromoethane (EDB)	ND		0.00476	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Dibromomethane	ND		0.00476	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dichlorobenzene	ND		0.00476	0.00442	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3-Dichlorobenzene	ND		0.00476	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,4-Dichlorobenzene	ND		0.00476	0.00452	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Dichlorodifluoromethane (Freon 12)	ND		0.00953	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1-Dichloroethane	ND		0.00476	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dichloroethane	ND		0.00476	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1-Dichloroethene	ND		0.00476	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
cis-1,2-Dichloroethene	ND		0.00476	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
trans-1,2-Dichloroethene	ND		0.00476	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dichloropropane	ND		0.00476	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3-Dichloropropane	ND		0.00476	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2,2-Dichloropropane	ND		0.00476	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1-Dichloropropene	ND		0.00476	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
cis-1,3-Dichloropropene	ND		0.00476	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
trans-1,3-Dichloropropene	ND		0.00476	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethylbenzene	ND		0.00476	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Hexachlorobutadiene	ND		0.00953	0.00479	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2-Hexanone (MBK)	ND		0.00953	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Isopropylbenzene	ND		0.00476	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
4-Isopropyltoluene	ND		0.00476	0.00468	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Methyl tert-butyl ether	ND		0.00476	0.00274	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.00953	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Methylene Chloride	ND		0.00953	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Naphthalene	ND		0.00476	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1

Client Sample ID: 2023-FD-07 **Lab Sample ID: 620-10117-32**
Date Collected: 03/03/23 08:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00476	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Styrene	ND		0.00476	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,1,2-Tetrachloroethane	ND		0.00476	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,2,2-Tetrachloroethane	ND		0.00476	0.00436	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Tetrachloroethene	ND		0.00476	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Toluene	ND		0.00476	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,3-Trichlorobenzene	ND		0.00476	0.00402	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,4-Trichlorobenzene	ND		0.00476	0.00439	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3,5-Trichlorobenzene	ND		0.00476	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,1-Trichloroethane	ND		0.00476	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,2-Trichloroethane	ND		0.00476	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Trichloroethene	ND		0.00476	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Trichlorofluoromethane (Freon 11)	ND		0.00476	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,3-Trichloropropane	ND		0.00476	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,4-Trimethylbenzene	ND		0.00476	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3,5-Trimethylbenzene	ND		0.00476	0.00405	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Vinyl chloride	ND		0.00476	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
m,p-Xylene	ND		0.00476	0.00651	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
o-Xylene	ND		0.00476	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Tetrahydrofuran	ND		0.00953	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethyl ether	ND		0.00476	0.00251	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Tert-amyl methyl ether	ND		0.00476	0.00376	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethyl tert-butyl ether	ND		0.00476	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
di-Isopropyl ether	ND		0.00476	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
tert-Butanol	ND		0.0953	0.0255	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,4-Dioxane	ND		0.0953	0.0296	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
trans-1,4-Dichloro-2-butene	ND		0.0238	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethanol	ND		0.953	0.0591	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3-Dichloropropene, Total	ND		0.00476	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Xylenes, Total	ND		0.0143	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.370	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,2,4-Trichlorobenzene	ND		0.370	0.0848	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,2-Dichlorobenzene	ND		0.370	0.0714	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,3-Dichlorobenzene	ND		0.370	0.0897	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,4-Dichlorobenzene	ND		0.370	0.0872	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1-Methylnaphthalene	ND		0.0749	0.0628	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4,5-Trichlorophenol	ND		0.370	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4,6-Trichlorophenol	ND		0.187	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4-Dichlorophenol	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4-Dimethylphenol	ND		0.370	0.0543	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4-Dinitrophenol	ND		0.370	0.0974	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,6-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Chloronaphthalene	ND		0.370	0.0856	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Chlorophenol	ND		0.187	0.0767	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Methylnaphthalene	ND		0.0749	0.0553	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Methylphenol	ND		0.370	0.0541	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Nitroaniline	ND		0.370	0.0352	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Nitrophenol	ND		0.187	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
3 & 4 Methylphenol	ND		0.370	0.0701	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
3,3'-Dichlorobenzidine	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
3-Nitroaniline	ND		0.370	0.0331	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4,6-Dinitro-2-methylphenol	ND		0.370	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Bromophenyl phenyl ether	ND		0.370	0.0419	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Chloro-3-methylphenol	ND		0.370	0.0725	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Chloroaniline	ND		0.187	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Chlorophenyl phenyl ether	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Nitroaniline	ND		0.187	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Nitrophenol	ND		0.370	0.129	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Acenaphthene	ND		0.0749	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Acenaphthylene	ND		0.0749	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Acetophenone	ND		0.187	0.0457	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Aniline	ND		0.370	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Anthracene	ND		0.0749	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Azobenzene/Diphenyldiazene	ND		0.370	0.0632	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzidine	ND		0.741	0.110	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[a]anthracene	ND		0.0749	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[a]pyrene	ND		0.0749	0.0535	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[b]fluoranthene	ND		0.0749	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[g,h,i]perylene	ND		0.0749	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[k]fluoranthene	ND		0.0749	0.0582	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzoic acid	ND		0.370	0.255	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzyl alcohol	ND		0.370	0.0671	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Bis(2-chloroethoxy)methane	ND		0.370	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Bis(2-chloroethyl)ether	ND		0.187	0.0613	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Bis(2-ethylhexyl) phthalate	ND		0.187	0.0477	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Butyl benzyl phthalate	ND		0.370	0.0371	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Carbazole	ND		0.187	0.0490	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Chrysene	ND		0.0749	0.0423	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Dibenz(a,h)anthracene	ND		0.0749	0.0571	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Dibenzofuran	ND		0.187	0.0649	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Diethyl phthalate	ND		0.370	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Dimethyl phthalate	ND		0.370	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Di-n-butyl phthalate	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Di-n-octyl phthalate	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Fluoranthene	ND		0.0749	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Fluorene	ND		0.0749	0.0683	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Hexachlorobenzene	ND		0.187	0.0520	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Hexachlorobutadiene	ND		0.187	0.0935	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Hexachloroethane	ND		0.187	0.0736	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0749	0.0635	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Isophorone	ND		0.187	0.0513	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Naphthalene	ND		0.0749	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Nitrobenzene	ND		0.187	0.0865	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
N-Nitrosodimethylamine	ND		0.187	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
N-Nitrosodiphenylamine	ND		0.370	0.0472	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pentachloronitrobenzene	ND		0.370	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pentachlorophenol	ND		0.370	0.152	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Phenanthrene	ND		0.0749	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Phenol	ND		0.370	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pyrene	ND		0.0749	0.0413	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pyridine	ND		0.370	0.0877	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
Phenol-d5 (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
Terphenyl-d14	*100*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.262	0.134	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.262	0.112	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Ethylbenzene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Methyl tert-butyl ether	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Naphthalene	ND		0.0525	0.0357	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
o-Xylene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Toluene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
C5-C8 Aliphatics (unadjusted)	ND		0.262	0.134	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
C9-C10 Aromatics	ND		0.262	0.0367	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
C9-C12 Aliphatics (unadjusted)	ND		0.262	0.112	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:19*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:19*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1221	ND		0.0232	0.00687	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1232	ND		0.0232	0.00644	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1

Client Sample ID: 2023-FD-07 **Lab Sample ID: 620-10117-32**
Date Collected: 03/03/23 08:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0232	0.00367	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1248	ND		0.0232	0.00726	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1254	**0.225**		0.0232	0.0181	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1262	ND		0.0232	0.00541	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1260	ND		0.0232	0.00500	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1268	ND		0.0232	0.00495	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoroheptanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorononanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorodecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorotridecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorotetradecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorobutanesulfonic acid	ND		2.14	0.428	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorohexanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NEtFOSAA	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NMeFOSAA	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
10:2 FTS	ND		2.14	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoropentanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoroheptanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorononanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorodecanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctanesulfonamide	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorohexadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorobutanoic acid	ND		2.14	0.857	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoropentanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NMeFOSE	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NMeFOSA	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NEtFOSE	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NEtFOSA	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
HFPODA	ND		2.14	1.07	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
DONA	ND		3.21	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
9Cl-PF3ONS	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
11Cl-PF3OUdS	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorododecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
4:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoroundecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-07 **Lab Sample ID: 620-10117-32**
Date Collected: 03/03/23 08:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
8:2 Fluorotelomer sulfonic acid	ND		3.21	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*116*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
M2-8:2 FTS	*129*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
M2-6:2 FTS	*132*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C5 PFHxA	*134*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C4 PFHpA	*134*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C8 PFOA	*137*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C9 PFNA	*137*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C6 PFDA	*133*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C7 PFUnA	*140*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C2-PFDoDA	*137*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C2 PFTeDA	*164*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C3 PFBS	*137*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C3 PFHxS	*138*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C8 PFOS	*132*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d3-NMeFOSAA	*98*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d5-NEtFOSAA	*105*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C8 FOSA	*123*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C4 PFBA	*131*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C5 PFPeA	*131*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d7-N-MeFOSE-M	*131*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d3-NMePFOSA	*119*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d9-N-EtFOSE-M	*138*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d5-NEtPFOSA	*122*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:20*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.09	1.39	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Arsenic	**1.66**	**J**	2.45	1.15	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Barium	**20.6**		0.409	0.123	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Beryllium	**0.280**	**J**	0.409	0.0818	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Cadmium	ND		0.409	0.0818	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Chromium	**6.28**		1.23	0.286	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Lead	**2.90**		1.23	0.491	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Nickel	**3.93**		0.818	0.213	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Selenium	ND		4.09	1.23	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Silver	ND	^3+	0.818	0.327	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Thallium	ND		2.45	1.06	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Vanadium	**9.14**		0.818	0.352	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Zinc	**64.0**		1.64	0.654	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0662	0.0221	mg/Kg	☼	03/07/23 13:21	03/08/23 11:30	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.1		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	84.9		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0002'
Date Collected: 03/03/23 11:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-33
Matrix: Solid
Percent Solids: 85.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00541	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Acetone	ND		0.0541	0.0121	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Acrylonitrile	ND		0.00541	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Benzene	ND		0.00541	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromobenzene	ND		0.00541	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromochloromethane	ND		0.00541	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromodichloromethane	ND		0.00541	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromoform	ND		0.00541	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromomethane	ND		0.0108	0.00674	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2-Butanone (MEK)	ND		0.0108	0.00431	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
n-Butylbenzene	ND		0.0108	0.00580	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
sec-Butylbenzene	ND		0.00541	0.00436	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
tert-Butylbenzene	ND		0.00541	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Carbon disulfide	ND		0.0108	0.00380	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Carbon tetrachloride	ND		0.00541	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chlorobenzene	ND		0.00541	0.00396	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chloroethane	ND		0.0108	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chloroform	ND		0.00541	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chloromethane	ND		0.0108	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2-Chlorotoluene	ND		0.00541	0.00431	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
4-Chlorotoluene	ND		0.00541	0.00470	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dibromo-3-Chloropropane	ND		0.0108	0.00459	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Dibromochloromethane	ND		0.00541	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dibromoethane (EDB)	ND		0.00541	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Dibromomethane	ND		0.00541	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dichlorobenzene	ND		0.00541	0.00502	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3-Dichlorobenzene	ND		0.00541	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,4-Dichlorobenzene	ND		0.00541	0.00513	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0108	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1-Dichloroethane	ND		0.00541	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dichloroethane	ND		0.00541	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1-Dichloroethene	ND		0.00541	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
cis-1,2-Dichloroethene	ND		0.00541	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
trans-1,2-Dichloroethene	ND		0.00541	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dichloropropane	ND		0.00541	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3-Dichloropropane	ND		0.00541	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2,2-Dichloropropane	ND		0.00541	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1-Dichloropropene	ND		0.00541	0.00368	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
cis-1,3-Dichloropropene	ND		0.00541	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
trans-1,3-Dichloropropene	ND		0.00541	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethylbenzene	ND		0.00541	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Hexachlorobutadiene	ND		0.0108	0.00544	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2-Hexanone (MBK)	ND		0.0108	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Isopropylbenzene	ND		0.00541	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
4-Isopropyltoluene	ND		0.00541	0.00531	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Methyl tert-butyl ether	ND		0.00541	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.0108	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Methylene Chloride	ND		0.0108	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Naphthalene	ND		0.00541	0.00489	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00541	0.00458	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Styrene	ND		0.00541	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,1,2-Tetrachloroethane	ND		0.00541	0.00406	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,2,2-Tetrachloroethane	ND		0.00541	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Tetrachloroethene	ND		0.00541	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Toluene	ND		0.00541	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,3-Trichlorobenzene	ND		0.00541	0.00457	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,4-Trichlorobenzene	ND		0.00541	0.00499	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3,5-Trichlorobenzene	ND		0.00541	0.00514	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,1-Trichloroethane	ND		0.00541	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,2-Trichloroethane	ND		0.00541	0.00408	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Trichloroethene	ND		0.00541	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Trichlorofluoromethane (Freon 11)	ND		0.00541	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,3-Trichloropropane	ND		0.00541	0.00481	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,4-Trimethylbenzene	ND		0.00541	0.00458	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3,5-Trimethylbenzene	ND		0.00541	0.00460	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Vinyl chloride	ND		0.00541	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
m,p-Xylene	ND		0.00541	0.00739	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
o-Xylene	ND		0.00541	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Tetrahydrofuran	ND		0.0108	0.00274	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethyl ether	ND		0.00541	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Tert-amyl methyl ether	ND		0.00541	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethyl tert-butyl ether	ND		0.00541	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
di-Isopropyl ether	ND		0.00541	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
tert-Butanol	ND		0.108	0.0290	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,4-Dioxane	ND		0.108	0.0337	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
trans-1,4-Dichloro-2-butene	ND		0.0271	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethanol	ND		1.08	0.0671	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3-Dichloropropene, Total	ND		0.00541	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Xylenes, Total	ND		0.0162	0.00541	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.750	0.133	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,2,4-Trichlorobenzene	ND		0.750	0.172	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,2-Dichlorobenzene	ND		0.750	0.145	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,3-Dichlorobenzene	ND		0.750	0.182	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,4-Dichlorobenzene	ND		0.750	0.177	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1-Methylnaphthalene	ND		0.152	0.127	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4,5-Trichlorophenol	ND		0.750	0.0859	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4,6-Trichlorophenol	ND		0.380	0.0927	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4-Dichlorophenol	ND		0.380	0.151	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4-Dimethylphenol	ND		0.750	0.110	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4-Dinitrophenol	ND		0.750	0.197	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0002'
Date Collected: 03/03/23 11:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-33
Matrix: Solid
Percent Solids: 85.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.380	0.0889	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,6-Dinitrotoluene	ND		0.380	0.0889	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Chloronaphthalene	ND		0.750	0.173	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Chlorophenol	ND		0.380	0.155	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Methylnaphthalene	ND		0.152	0.112	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Methylphenol	ND		0.750	0.110	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Nitroaniline	ND		0.750	0.0714	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Nitrophenol	ND		0.380	0.135	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
3 & 4 Methylphenol	ND		0.750	0.142	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
3,3'-Dichlorobenzidine	ND		0.750	0.124	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
3-Nitroaniline	ND		0.750	0.0671	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4,6-Dinitro-2-methylphenol	ND		0.750	0.135	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Bromophenyl phenyl ether	ND		0.750	0.0848	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Chloro-3-methylphenol	ND		0.750	0.147	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Chloroaniline	ND		0.380	0.0575	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Chlorophenyl phenyl ether	ND		0.750	0.0802	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Nitroaniline	ND		0.380	0.120	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Nitrophenol	ND		0.750	0.261	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Acenaphthene	ND		0.152	0.121	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Acenaphthylene	ND		0.152	0.0996	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Acetophenone	ND		0.380	0.0925	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Aniline	ND		0.750	0.0575	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Anthracene	ND		0.152	0.0877	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Azobenzene/Diphenyldiazene	ND		0.750	0.128	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzidine	ND		1.50	0.222	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[a]anthracene	ND		0.152	0.0852	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[a]pyrene	ND		0.152	0.108	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[b]fluoranthene	ND		0.152	0.126	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[g,h,i]perylene	ND		0.152	0.118	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[k]fluoranthene	ND		0.152	0.118	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzoic acid	ND		0.750	0.516	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzyl alcohol	ND		0.750	0.136	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Bis(2-chloroethoxy)methane	ND		0.750	0.130	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Bis(2-chloroethyl)ether	ND		0.380	0.124	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
bis (2-chloroisopropyl) ether	ND		0.380	0.169	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Bis(2-ethylhexyl) phthalate	**5.78**		0.380	0.0966	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Butyl benzyl phthalate	**0.967**		0.750	0.0752	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Carbazole	ND		0.380	0.0993	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Chrysene	ND		0.152	0.0857	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Dibenz(a,h)anthracene	ND		0.152	0.116	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Dibenzofuran	ND		0.380	0.131	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Diethyl phthalate	ND		0.750	0.0823	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Dimethyl phthalate	ND		0.750	0.0977	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Di-n-butyl phthalate	**0.587**	**J**	0.750	0.0802	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Di-n-octyl phthalate	ND		0.750	0.124	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Fluoranthene	ND		0.152	0.0889	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Fluorene	ND		0.152	0.138	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Hexachlorobenzene	ND		0.380	0.105	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Hexachlorobutadiene	ND		0.380	0.189	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.380	0.145	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Hexachloroethane	ND		0.380	0.149	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Indeno[1,2,3-cd]pyrene	ND		0.152	0.129	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Isophorone	ND		0.380	0.104	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Naphthalene	ND		0.152	0.145	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Nitrobenzene	ND		0.380	0.175	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
N-Nitrosodimethylamine	ND		0.380	0.0996	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
N-Nitrosodi-n-propylamine	ND		0.380	0.151	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
N-Nitrosodiphenylamine	ND		0.750	0.0957	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pentachloronitrobenzene	ND		0.750	0.118	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pentachlorophenol	ND		0.750	0.307	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Phenanthrene	ND		0.152	0.0859	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Phenol	ND		0.750	0.155	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pyrene	ND		0.152	0.0836	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pyridine	ND		0.750	0.178	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*30 - 130*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
Terphenyl-d14	*64*		*30 - 130*	*03/14/23 10:48*	*03/17/23 17:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.297	0.152	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.297	0.127	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Ethylbenzene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Methyl tert-butyl ether	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
m,p-Xylene	ND		0.119	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Naphthalene	ND		0.0594	0.0404	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
o-Xylene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Toluene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
C5-C8 Aliphatics (unadjusted)	ND		0.297	0.152	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
C9-C10 Aromatics	**0.0587**	**J**	0.297	0.0416	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
C9-C12 Aliphatics (unadjusted)	**0.176**	**J**	0.297	0.127	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:58*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:58*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.14	0.821	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1221	ND		1.14	0.337	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1232	ND		1.14	0.316	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		1.14	0.180	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1248	ND		1.14	0.356	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1254	**23.5**		1.14	0.886	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1262	ND		1.14	0.265	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1260	ND		1.14	0.245	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1268	ND		1.14	0.243	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoroheptanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorononanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorodecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorotridecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorotetradecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorobutanesulfonic acid	ND		2.27	0.454	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorohexanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NEtFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NMeFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
10:2 FTS	ND		2.27	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoropentanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoroheptanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorononanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorodecanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctanesulfonamide	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorohexadecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctadecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorobutanoic acid	ND		2.27	0.908	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoropentanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NMeFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NMeFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NEtFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NEtFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
HFPODA	ND		2.27	1.13	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
DONA	ND		3.40	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
9Cl-PF3ONS	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
11Cl-PF3OUdS	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorododecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
4:2 Fluorotelomer sulfonic acid	ND		2.27	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoroundecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.27	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
8:2 Fluorotelomer sulfonic acid	ND		3.40	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
M2-8:2 FTS	*127*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
M2-6:2 FTS	*127*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C5 PFHxA	*113*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C4 PFHpA	*120*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C8 PFOA	*126*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C9 PFNA	*119*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C6 PFDA	*121*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C7 PFUnA	*133*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C2-PFDoDA	*121*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C2 PFTeDA	*156*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C3 PFHxS	*123*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C8 PFOS	*122*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d3-NMeFOSAA	*78*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d5-NEtFOSAA	*86*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C4 PFBA	*111*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d7-N-MeFOSE-M	*122*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d3-NMePFOSA	*95*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d9-N-EtFOSE-M	*128*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d5-NEtPFOSA	*105*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C3 HFPO-DA	*91*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.73	1.95	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Arsenic	**1.78**	**J**	3.44	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Barium	**130**		0.573	0.172	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Beryllium	**0.177**	**J**	0.573	0.115	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Cadmium	ND		0.573	0.115	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Chromium	**2.35**		1.72	0.401	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Lead	**13.4**		1.72	0.687	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Nickel	**1.16**		1.15	0.298	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Selenium	ND		5.73	1.72	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Silver	ND	^3+	1.15	0.458	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Thallium	ND		3.44	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Vanadium	**3.76**		1.15	0.493	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Zinc	**85.7**		2.29	0.917	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0690	0.0230	mg/Kg	☼	03/07/23 13:21	03/08/23 11:36	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0002'
Date Collected: 03/03/23 11:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-33
Matrix: Solid
Percent Solids: 85.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	85.6		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0204'
Date Collected: 03/03/23 11:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-34
Matrix: Solid
Percent Solids: 82.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00560	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Acetone	ND		0.0560	0.0125	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Acrylonitrile	ND		0.00560	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Benzene	ND		0.00560	0.00374	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromobenzene	ND		0.00560	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromochloromethane	ND		0.00560	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromodichloromethane	ND		0.00560	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromoform	ND		0.00560	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromomethane	ND		0.0112	0.00698	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2-Butanone (MEK)	ND		0.0112	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
n-Butylbenzene	ND		0.0112	0.00600	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
sec-Butylbenzene	ND		0.00560	0.00451	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
tert-Butylbenzene	ND		0.00560	0.00441	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Carbon disulfide	ND		0.0112	0.00393	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Carbon tetrachloride	ND		0.00560	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chlorobenzene	ND		0.00560	0.00410	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chloroethane	ND		0.0112	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chloroform	ND		0.00560	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chloromethane	ND		0.0112	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2-Chlorotoluene	ND		0.00560	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
4-Chlorotoluene	ND		0.00560	0.00486	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dibromo-3-Chloropropane	ND		0.0112	0.00475	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Dibromochloromethane	ND		0.00560	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dibromoethane (EDB)	ND		0.00560	0.00402	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Dibromomethane	ND		0.00560	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dichlorobenzene	ND		0.00560	0.00520	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3-Dichlorobenzene	ND		0.00560	0.00449	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,4-Dichlorobenzene	ND		0.00560	0.00531	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0112	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1-Dichloroethane	ND		0.00560	0.00380	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dichloroethane	ND		0.00560	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1-Dichloroethene	ND		0.00560	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
cis-1,2-Dichloroethene	ND		0.00560	0.00324	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
trans-1,2-Dichloroethene	ND		0.00560	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dichloropropane	ND		0.00560	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3-Dichloropropane	ND		0.00560	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2,2-Dichloropropane	ND		0.00560	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1-Dichloropropene	ND		0.00560	0.00381	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
cis-1,3-Dichloropropene	ND		0.00560	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
trans-1,3-Dichloropropene	ND		0.00560	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethylbenzene	ND		0.00560	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Hexachlorobutadiene	ND		0.0112	0.00563	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2-Hexanone (MBK)	ND		0.0112	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Isopropylbenzene	ND		0.00560	0.00423	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
4-Isopropyltoluene	ND		0.00560	0.00550	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Methyl tert-butyl ether	ND		0.00560	0.00322	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.0112	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Methylene Chloride	ND		0.0112	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Naphthalene	ND		0.00560	0.00506	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00560	0.00474	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Styrene	ND		0.00560	0.00433	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,1,2-Tetrachloroethane	ND		0.00560	0.00420	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,2,2-Tetrachloroethane	ND		0.00560	0.00513	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Tetrachloroethene	ND		0.00560	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Toluene	ND		0.00560	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,3-Trichlorobenzene	ND		0.00560	0.00473	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,4-Trichlorobenzene	ND		0.00560	0.00516	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3,5-Trichlorobenzene	ND		0.00560	0.00532	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,1-Trichloroethane	ND		0.00560	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,2-Trichloroethane	ND		0.00560	0.00422	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Trichloroethene	ND		0.00560	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Trichlorofluoromethane (Freon 11)	ND		0.00560	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,3-Trichloropropane	ND		0.00560	0.00497	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,4-Trimethylbenzene	ND		0.00560	0.00474	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3,5-Trimethylbenzene	ND		0.00560	0.00476	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Vinyl chloride	ND		0.00560	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
m,p-Xylene	ND		0.00560	0.00765	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
o-Xylene	ND		0.00560	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Tetrahydrofuran	ND		0.0112	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethyl ether	ND		0.00560	0.00294	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Tert-amyl methyl ether	ND		0.00560	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethyl tert-butyl ether	ND		0.00560	0.00368	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
di-Isopropyl ether	ND		0.00560	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
tert-Butanol	ND		0.112	0.0300	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,4-Dioxane	ND		0.112	0.0348	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
trans-1,4-Dichloro-2-butene	ND		0.0280	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethanol	ND		1.12	0.0694	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3-Dichloropropene, Total	ND		0.00560	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Xylenes, Total	ND		0.0168	0.00560	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.387	0.0689	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,2,4-Trichlorobenzene	ND		0.387	0.0887	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,2-Dichlorobenzene	ND		0.387	0.0746	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,3-Dichlorobenzene	ND		0.387	0.0937	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,4-Dichlorobenzene	ND		0.387	0.0912	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1-Methylnaphthalene	ND		0.0782	0.0657	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4,5-Trichlorophenol	ND		0.387	0.0443	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4,6-Trichlorophenol	ND		0.196	0.0479	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4-Dichlorophenol	ND		0.196	0.0780	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4-Dimethylphenol	ND		0.387	0.0568	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4-Dinitrophenol	ND		0.387	0.102	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0204'
Date Collected: 03/03/23 11:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-34
Matrix: Solid
Percent Solids: 82.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.196	0.0459	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,6-Dinitrotoluene	ND		0.196	0.0459	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Chloronaphthalene	ND		0.387	0.0895	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Chlorophenol	ND		0.196	0.0801	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Methylnaphthalene	ND		0.0782	0.0578	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Methylphenol	ND		0.387	0.0565	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Nitroaniline	ND		0.387	0.0368	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Nitrophenol	ND		0.196	0.0696	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
3 & 4 Methylphenol	ND		0.387	0.0733	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
3,3'-Dichlorobenzidine	ND		0.387	0.0639	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
3-Nitroaniline	ND		0.387	0.0346	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4,6-Dinitro-2-methylphenol	ND		0.387	0.0696	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Bromophenyl phenyl ether	ND		0.387	0.0438	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Chloro-3-methylphenol	ND		0.387	0.0758	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Chloroaniline	ND		0.196	0.0297	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Chlorophenyl phenyl ether	ND		0.387	0.0414	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Nitroaniline	ND		0.196	0.0618	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Nitrophenol	ND		0.387	0.135	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Acenaphthene	ND		0.0782	0.0624	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Acenaphthylene	ND		0.0782	0.0514	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Acetophenone	ND		0.196	0.0477	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Aniline	ND		0.387	0.0297	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Anthracene	ND		0.0782	0.0453	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Azobenzene/Diphenyldiazene	ND		0.387	0.0660	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzidine	ND		0.774	0.115	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[a]anthracene	ND		0.0782	0.0440	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[a]pyrene	ND		0.0782	0.0560	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[b]fluoranthene	ND		0.0782	0.0649	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[g,h,i]perylene	ND		0.0782	0.0611	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[k]fluoranthene	ND		0.0782	0.0609	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzoic acid	ND		0.387	0.266	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzyl alcohol	ND		0.387	0.0702	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Bis(2-chloroethoxy)methane	ND		0.387	0.0673	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Bis(2-chloroethyl)ether	ND		0.196	0.0641	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
bis (2-chloroisopropyl) ether	ND		0.196	0.0872	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Bis(2-ethylhexyl) phthalate	**11.6**		1.96	0.499	mg/Kg	☼	03/15/23 09:29	03/17/23 19:01	10
Butyl benzyl phthalate	**1.99**		0.387	0.0388	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Carbazole	ND		0.196	0.0513	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Chrysene	ND		0.0782	0.0442	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Dibenz(a,h)anthracene	ND		0.0782	0.0597	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Dibenzofuran	ND		0.196	0.0678	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Diethyl phthalate	ND		0.387	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Dimethyl phthalate	ND		0.387	0.0504	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Di-n-butyl phthalate	**0.717**		0.387	0.0414	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Di-n-octyl phthalate	ND		0.387	0.0639	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Fluoranthene	ND		0.0782	0.0459	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Fluorene	ND		0.0782	0.0714	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Hexachlorobenzene	ND		0.196	0.0543	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Hexachlorobutadiene	ND		0.196	0.0977	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.196	0.0748	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Hexachloroethane	ND		0.196	0.0770	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0782	0.0664	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Isophorone	ND		0.196	0.0536	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Naphthalene	ND		0.0782	0.0751	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Nitrobenzene	ND		0.196	0.0905	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
N-Nitrosodimethylamine	ND		0.196	0.0514	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
N-Nitrosodi-n-propylamine	ND		0.196	0.0780	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
N-Nitrosodiphenylamine	ND		0.387	0.0494	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pentachloronitrobenzene	ND		0.387	0.0611	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pentachlorophenol	ND		0.387	0.158	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Phenanthrene	ND		0.0782	0.0443	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Phenol	ND		0.387	0.0798	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pyrene	ND		0.0782	0.0432	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pyridine	ND		0.387	0.0916	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*30 - 130*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
2-Fluorobiphenyl (Surr)	*57*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
2-Fluorophenol (Surr)	*65*		*15 - 110*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
2-Fluorophenol (Surr)	*68*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
Phenol-d5 (Surr)	*56*		*15 - 110*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
Phenol-d5 (Surr)	*59*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
Terphenyl-d14	*92*		*30 - 130*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
Terphenyl-d14	*56*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:01*	*10*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.269	0.138	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.269	0.115	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Ethylbenzene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Methyl tert-butyl ether	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
m,p-Xylene	ND		0.108	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Naphthalene	ND		0.0538	0.0366	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
o-Xylene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Toluene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
C5-C8 Aliphatics (unadjusted)	ND		0.269	0.138	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
C9-C10 Aromatics	ND		0.269	0.0377	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
C9-C12 Aliphatics (unadjusted)	ND		0.269	0.115	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/09/23 00:37*	*1*

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/09/23 00:37*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.17	0.844	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1221	ND		1.17	0.346	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1232	ND		1.17	0.325	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1242	ND		1.17	0.185	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1248	ND		1.17	0.366	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1254	**34.8**		1.17	0.912	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1262	ND		1.17	0.273	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1260	ND		1.17	0.252	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1268	ND		1.17	0.250	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoroheptanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorononanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorodecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorotridecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorotetradecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorobutanesulfonic acid	ND		2.32	0.464	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorohexanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NEtFOSAA	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NMeFOSAA	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
10:2 FTS	ND		2.32	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoropentanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoroheptanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorononanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorodecanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctanesulfonamide	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorohexadecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctadecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorobutanoic acid	ND		2.32	0.928	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoropentanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NMeFOSE	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NMeFOSA	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NEtFOSE	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NEtFOSA	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.32	1.16	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
DONA	ND		3.48	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
9Cl-PF3ONS	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
11Cl-PF3OUdS	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorododecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
4:2 Fluorotelomer sulfonic acid	ND		2.32	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoroundecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
6:2 Fluorotelomer sulfonic acid	ND		2.32	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
8:2 Fluorotelomer sulfonic acid	ND		3.48	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
M2-8:2 FTS	*118*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C4 PFHpA	*120*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C8 PFOA	*129*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C9 PFNA	*125*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C6 PFDA	*123*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C7 PFUnA	*134*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C2-PFDoDA	*131*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C2 PFTeDA	*146*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C3 PFBS	*132*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C3 PFHxS	*120*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C8 PFOS	*126*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d3-NMeFOSAA	*44*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d5-NEtFOSAA	*52*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C4 PFBA	*124*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C5 PFPeA	*118*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d3-NMePFOSA	*112*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d9-N-EtFOSE-M	*134*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d5-NEtPFOSA	*119*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C3 HFPO-DA	*97*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.48	1.86	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Arsenic	**1.90**	**J**	3.29	1.54	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Barium	**225**		0.548	0.165	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Beryllium	**0.255**	**J**	0.548	0.110	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Cadmium	ND		0.548	0.110	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Chromium	**4.27**		1.65	0.384	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Lead	**27.8**		1.65	0.658	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Nickel	**1.94**		1.10	0.285	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Selenium	ND		5.48	1.65	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Silver	ND	^3+	1.10	0.439	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Thallium	ND		3.29	1.43	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Vanadium	**6.47**		1.10	0.472	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0204'
Date Collected: 03/03/23 11:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-34
Matrix: Solid
Percent Solids: 82.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	125		2.19	0.878	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0701	0.0234	mg/Kg	☼	03/07/23 13:21	03/08/23 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.1		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	82.9		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0406'
Date Collected: 03/03/23 11:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-35
Matrix: Solid
Percent Solids: 86.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00460	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Acetone	ND		0.0460	0.0103	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Acrylonitrile	ND		0.00460	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Benzene	ND		0.00460	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromobenzene	ND		0.00460	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromochloromethane	ND		0.00460	0.00261	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromodichloromethane	ND		0.00460	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromoform	ND		0.00460	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromomethane	ND		0.00920	0.00573	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2-Butanone (MEK)	ND		0.00920	0.00366	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
n-Butylbenzene	ND		0.00920	0.00493	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
sec-Butylbenzene	ND		0.00460	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
tert-Butylbenzene	ND		0.00460	0.00363	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Carbon disulfide	ND		0.00920	0.00323	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Carbon tetrachloride	ND		0.00460	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chlorobenzene	ND		0.00460	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chloroethane	ND		0.00920	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chloroform	ND		0.00460	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chloromethane	ND		0.00920	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2-Chlorotoluene	ND		0.00460	0.00366	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
4-Chlorotoluene	ND		0.00460	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dibromo-3-Chloropropane	ND		0.00920	0.00390	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Dibromochloromethane	ND		0.00460	0.00305	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dibromoethane (EDB)	ND		0.00460	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Dibromomethane	ND		0.00460	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dichlorobenzene	ND		0.00460	0.00427	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3-Dichlorobenzene	ND		0.00460	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,4-Dichlorobenzene	ND		0.00460	0.00436	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00920	0.00247	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1-Dichloroethane	ND		0.00460	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dichloroethane	ND		0.00460	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1-Dichloroethene	ND		0.00460	0.00282	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
cis-1,2-Dichloroethene	ND		0.00460	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
trans-1,2-Dichloroethene	ND		0.00460	0.00286	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dichloropropane	ND		0.00460	0.00305	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3-Dichloropropane	ND		0.00460	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2,2-Dichloropropane	ND		0.00460	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1-Dichloropropene	ND		0.00460	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
cis-1,3-Dichloropropene	ND		0.00460	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
trans-1,3-Dichloropropene	ND		0.00460	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethylbenzene	ND		0.00460	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Hexachlorobutadiene	ND		0.00920	0.00463	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2-Hexanone (MBK)	ND		0.00920	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Isopropylbenzene	ND		0.00460	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
4-Isopropyltoluene	ND		0.00460	0.00452	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Methyl tert-butyl ether	ND		0.00460	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.00920	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Methylene Chloride	ND		0.00920	0.00247	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Naphthalene	ND		0.00460	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00460	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Styrene	ND		0.00460	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,1,2-Tetrachloroethane	ND		0.00460	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,2,2-Tetrachloroethane	ND		0.00460	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Tetrachloroethene	ND		0.00460	0.00256	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Toluene	ND		0.00460	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,3-Trichlorobenzene	ND		0.00460	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,4-Trichlorobenzene	ND		0.00460	0.00424	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3,5-Trichlorobenzene	ND		0.00460	0.00437	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,1-Trichloroethane	ND		0.00460	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,2-Trichloroethane	ND		0.00460	0.00347	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Trichloroethene	ND		0.00460	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Trichlorofluoromethane (Freon 11)	ND		0.00460	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,3-Trichloropropane	ND		0.00460	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,4-Trimethylbenzene	ND		0.00460	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3,5-Trimethylbenzene	ND		0.00460	0.00391	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Vinyl chloride	ND		0.00460	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
m,p-Xylene	ND		0.00460	0.00629	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
o-Xylene	ND		0.00460	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Tetrahydrofuran	ND		0.00920	0.00233	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethyl ether	ND		0.00460	0.00242	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Tert-amyl methyl ether	ND		0.00460	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethyl tert-butyl ether	ND		0.00460	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
di-Isopropyl ether	ND		0.00460	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
tert-Butanol	ND		0.0920	0.0247	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,4-Dioxane	ND		0.0920	0.0286	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
trans-1,4-Dichloro-2-butene	ND		0.0230	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethanol	ND		0.920	0.0571	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3-Dichloropropene, Total	ND		0.00460	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Xylenes, Total	ND		0.0138	0.00460	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.381	0.0678	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,2,4-Trichlorobenzene	ND		0.381	0.0873	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,2-Dichlorobenzene	ND		0.381	0.0734	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,3-Dichlorobenzene	ND		0.381	0.0922	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,4-Dichlorobenzene	ND		0.381	0.0897	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1-Methylnaphthalene	ND		0.0770	0.0646	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4,5-Trichlorophenol	ND		0.381	0.0436	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4,6-Trichlorophenol	ND		0.193	0.0471	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4-Dichlorophenol	ND		0.193	0.0768	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4-Dimethylphenol	ND		0.381	0.0559	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4-Dinitrophenol	ND		0.381	0.100	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0406'
Date Collected: 03/03/23 11:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-35
Matrix: Solid
Percent Solids: 86.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.193	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,6-Dinitrotoluene	ND		0.193	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Chloronaphthalene	ND		0.381	0.0881	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Chlorophenol	ND		0.193	0.0788	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Methylnaphthalene	ND		0.0770	0.0569	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Methylphenol	ND		0.381	0.0556	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Nitroaniline	ND		0.381	0.0362	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Nitrophenol	ND		0.193	0.0684	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
3 & 4 Methylphenol	ND		0.381	0.0721	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
3,3'-Dichlorobenzidine	ND		0.381	0.0629	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
3-Nitroaniline	ND		0.381	0.0340	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4,6-Dinitro-2-methylphenol	ND		0.381	0.0684	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Bromophenyl phenyl ether	ND		0.381	0.0431	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Chloro-3-methylphenol	ND		0.381	0.0746	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Chloroaniline	ND		0.193	0.0292	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Chlorophenyl phenyl ether	ND		0.381	0.0407	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Nitroaniline	ND		0.193	0.0608	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Nitrophenol	ND		0.381	0.133	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Acenaphthene	ND		0.0770	0.0614	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Acenaphthylene	ND		0.0770	0.0506	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Acetophenone	ND		0.193	0.0470	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Aniline	ND		0.381	0.0292	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Anthracene	ND		0.0770	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Azobenzene/Diphenyldiazene	ND		0.381	0.0650	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzidine	ND		0.762	0.113	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[a]anthracene	ND		0.0770	0.0433	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[a]pyrene	ND		0.0770	0.0551	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[b]fluoranthene	ND		0.0770	0.0638	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[g,h,i]perylene	ND		0.0770	0.0601	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[k]fluoranthene	ND		0.0770	0.0599	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzoic acid	ND		0.381	0.262	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzyl alcohol	ND		0.381	0.0690	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Bis(2-chloroethoxy)methane	ND		0.381	0.0663	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Bis(2-chloroethyl)ether	ND		0.193	0.0630	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
bis (2-chloroisopropyl) ether	ND		0.193	0.0858	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Bis(2-ethylhexyl) phthalate	ND		0.193	0.0491	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Butyl benzyl phthalate	ND		0.381	0.0382	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Carbazole	ND		0.193	0.0504	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Chrysene	ND		0.0770	0.0435	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Dibenz(a,h)anthracene	ND		0.0770	0.0587	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Dibenzofuran	ND		0.193	0.0667	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Diethyl phthalate	ND		0.381	0.0418	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Dimethyl phthalate	ND		0.381	0.0496	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Di-n-butyl phthalate	ND		0.381	0.0407	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Di-n-octyl phthalate	ND		0.381	0.0629	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Fluoranthene	ND		0.0770	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Fluorene	ND		0.0770	0.0703	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Hexachlorobenzene	ND		0.193	0.0534	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Hexachlorobutadiene	ND		0.193	0.0961	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.193	0.0736	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Hexachloroethane	ND		0.193	0.0757	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0770	0.0653	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Isophorone	ND		0.193	0.0527	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Naphthalene	ND		0.0770	0.0739	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Nitrobenzene	ND		0.193	0.0890	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
N-Nitrosodimethylamine	ND		0.193	0.0506	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
N-Nitrosodi-n-propylamine	ND		0.193	0.0768	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
N-Nitrosodiphenylamine	ND		0.381	0.0486	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pentachloronitrobenzene	ND		0.381	0.0601	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pentachlorophenol	ND		0.381	0.156	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Phenanthrene	ND		0.0770	0.0436	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Phenol	ND		0.381	0.0785	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pyrene	ND		0.0770	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pyridine	ND		0.381	0.0901	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
2-Fluorophenol (Surr)	*98*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
Phenol-d5 (Surr)	*71*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:24*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.247	0.126	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.247	0.106	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Ethylbenzene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Methyl tert-butyl ether	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
m,p-Xylene	ND		0.0988	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Naphthalene	ND		0.0494	0.0336	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
o-Xylene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Toluene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.247	0.126	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
C9-C10 Aromatics	ND		0.247	0.0346	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.247	0.106	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/09/23 01:16*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/09/23 01:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1232	ND		0.0230	0.00637	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1254	**0.115**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*
Tetrachloro-m-xylene	*88*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoroheptanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorononanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorodecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorotridecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorotetradecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorobutanesulfonic acid	ND		2.10	0.421	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorohexanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NEtFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NMeFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
10:2 FTS	ND		2.10	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoropentanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoroheptanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorononanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorodecanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctanesulfonamide	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorohexadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorobutanoic acid	ND		2.10	0.841	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoropentanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NMeFOSE	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NMeFOSA	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NEtFOSE	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NEtFOSA	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
HFPODA	ND		2.10	1.05	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
DONA	ND		3.15	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
9Cl-PF3ONS	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
11Cl-PF3OUdS	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorododecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
4:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoroundecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
8:2 Fluorotelomer sulfonic acid	ND		3.15	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
M2-8:2 FTS	*106*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
M2-6:2 FTS	*112*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C5 PFHxA	*112*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C6 PFDA	*113*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C7 PFUnA	*125*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C3 PFBS	*123*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d3-NMeFOSAA	*77*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d5-NEtFOSAA	*85*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C8 FOSA	*105*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C4 PFBA	*117*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d7-N-MeFOSE-M	*113*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d5-NEtPFOSA	*110*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:54*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.93	1.34	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Arsenic	**1.60**	**J**	2.36	1.10	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Barium	**23.5**		0.393	0.118	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Beryllium	**0.325**	**J**	0.393	0.0787	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Cadmium	ND		0.393	0.0787	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Chromium	**6.63**		1.18	0.275	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Lead	**2.90**		1.18	0.472	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Nickel	**3.33**		0.787	0.205	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Selenium	ND		3.93	1.18	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Silver	ND	^3+	0.787	0.315	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Thallium	ND		2.36	1.02	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Vanadium	**10.2**		0.787	0.338	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Zinc	**58.8**		1.57	0.629	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0661	0.0220	mg/Kg	☼	03/07/23 13:21	03/08/23 11:16	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0406'
Date Collected: 03/03/23 11:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-35
Matrix: Solid
Percent Solids: 86.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.5		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	86.5		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'
Date Collected: 03/03/23 11:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-36
Matrix: Solid
Percent Solids: 85.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Acetone	ND		0.0485	0.0109	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Acrylonitrile	ND		0.00485	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Benzene	ND		0.00485	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromobenzene	ND		0.00485	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromochloromethane	ND		0.00485	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromodichloromethane	ND		0.00485	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromoform	ND		0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromomethane	ND	*+	0.00970	0.00604	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2-Butanone (MEK)	ND		0.00970	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
n-Butylbenzene	ND		0.00970	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
sec-Butylbenzene	ND		0.00485	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
tert-Butylbenzene	ND		0.00485	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Carbon disulfide	ND		0.00970	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Carbon tetrachloride	ND		0.00485	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chlorobenzene	ND		0.00485	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chloroethane	ND		0.00970	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chloroform	ND		0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chloromethane	ND		0.00970	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2-Chlorotoluene	ND		0.00485	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
4-Chlorotoluene	ND		0.00485	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dibromo-3-Chloropropane	ND		0.00970	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Dibromochloromethane	ND		0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dibromoethane (EDB)	ND		0.00485	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Dibromomethane	ND		0.00485	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dichlorobenzene	ND		0.00485	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3-Dichlorobenzene	ND		0.00485	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,4-Dichlorobenzene	ND		0.00485	0.00460	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Dichlorodifluoromethane (Freon 12)	ND		0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1-Dichloroethane	ND		0.00485	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dichloroethane	ND		0.00485	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1-Dichloroethene	ND		0.00485	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
cis-1,2-Dichloroethene	ND		0.00485	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
trans-1,2-Dichloroethene	ND		0.00485	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dichloropropane	ND		0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3-Dichloropropane	ND		0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2,2-Dichloropropane	ND		0.00485	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1-Dichloropropene	ND		0.00485	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
cis-1,3-Dichloropropene	ND		0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
trans-1,3-Dichloropropene	ND		0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethylbenzene	ND		0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Hexachlorobutadiene	ND		0.00970	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2-Hexanone (MBK)	ND		0.00970	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Isopropylbenzene	ND		0.00485	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
4-Isopropyltoluene	ND		0.00485	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Methyl tert-butyl ether	ND		0.00485	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.00970	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Methylene Chloride	ND		0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Naphthalene	ND		0.00485	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Styrene	ND		0.00485	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,1,2-Tetrachloroethane	ND		0.00485	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,2,2-Tetrachloroethane	ND		0.00485	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Tetrachloroethene	ND		0.00485	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Toluene	ND		0.00485	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,3-Trichlorobenzene	ND		0.00485	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,4-Trichlorobenzene	ND		0.00485	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3,5-Trichlorobenzene	ND		0.00485	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,1-Trichloroethane	ND		0.00485	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,2-Trichloroethane	ND		0.00485	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Trichloroethene	ND		0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Trichlorofluoromethane (Freon 11)	ND		0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,3-Trichloropropane	ND		0.00485	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,4-Trimethylbenzene	ND		0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3,5-Trimethylbenzene	ND		0.00485	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Vinyl chloride	ND		0.00485	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
m,p-Xylene	ND		0.00485	0.00662	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
o-Xylene	ND		0.00485	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Tetrahydrofuran	ND		0.00970	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethyl ether	ND		0.00485	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Tert-amyl methyl ether	ND		0.00485	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethyl tert-butyl ether	ND		0.00485	0.00319	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
di-Isopropyl ether	ND		0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
tert-Butanol	ND		0.0970	0.0260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,4-Dioxane	ND		0.0970	0.0302	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethanol	ND		0.970	0.0601	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3-Dichloropropene, Total	ND		0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Xylenes, Total	ND		0.0145	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.379	0.0674	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,2,4-Trichlorobenzene	ND		0.379	0.0868	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,2-Dichlorobenzene	ND		0.379	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,3-Dichlorobenzene	ND		0.379	0.0917	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,4-Dichlorobenzene	ND		0.379	0.0892	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1-Methylnaphthalene	ND		0.0765	0.0643	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4,5-Trichlorophenol	ND		0.379	0.0434	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4,6-Trichlorophenol	ND		0.192	0.0468	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4-Dichlorophenol	ND		0.192	0.0763	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4-Dimethylphenol	ND		0.379	0.0555	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4-Dinitrophenol	ND		0.379	0.0996	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'
Date Collected: 03/03/23 11:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-36
Matrix: Solid
Percent Solids: 85.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.192	0.0449	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,6-Dinitrotoluene	ND		0.192	0.0449	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Chloronaphthalene	ND		0.379	0.0876	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Chlorophenol	ND		0.192	0.0784	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Methylnaphthalene	ND		0.0765	0.0566	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Methylphenol	ND		0.379	0.0553	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Nitroaniline	ND		0.379	0.0360	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Nitrophenol	ND		0.192	0.0681	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
3 & 4 Methylphenol	ND		0.379	0.0717	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
3,3'-Dichlorobenzidine	ND		0.379	0.0625	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
3-Nitroaniline	ND		0.379	0.0339	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4,6-Dinitro-2-methylphenol	ND		0.379	0.0681	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Bromophenyl phenyl ether	ND		0.379	0.0428	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Chloro-3-methylphenol	ND		0.379	0.0741	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Chloroaniline	ND		0.192	0.0290	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Chlorophenyl phenyl ether	ND		0.379	0.0405	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Nitroaniline	ND		0.192	0.0605	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Nitrophenol	ND		0.379	0.132	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Acenaphthene	ND		0.0765	0.0611	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Acenaphthylene	ND		0.0765	0.0503	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Acetophenone	ND		0.192	0.0467	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Aniline	ND		0.379	0.0290	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Anthracene	ND		0.0765	0.0443	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Azobenzene/Diphenyldiazene	ND		0.379	0.0646	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzidine	ND		0.757	0.112	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[a]anthracene	ND		0.0765	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[a]pyrene	ND		0.0765	0.0547	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[b]fluoranthene	ND		0.0765	0.0635	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[g,h,i]perylene	ND		0.0765	0.0598	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[k]fluoranthene	ND		0.0765	0.0596	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzoic acid	ND		0.379	0.261	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzyl alcohol	ND		0.379	0.0686	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Bis(2-chloroethoxy)methane	ND		0.379	0.0659	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Bis(2-chloroethyl)ether	ND		0.192	0.0627	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
bis (2-chloroisopropyl) ether	ND		0.192	0.0853	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Bis(2-ethylhexyl) phthalate	ND		0.192	0.0488	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Butyl benzyl phthalate	ND		0.379	0.0380	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Carbazole	ND		0.192	0.0501	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Chrysene	ND		0.0765	0.0433	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Dibenz(a,h)anthracene	ND		0.0765	0.0584	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Dibenzofuran	ND		0.192	0.0663	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Diethyl phthalate	ND		0.379	0.0415	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Dimethyl phthalate	ND		0.379	0.0493	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Di-n-butyl phthalate	ND		0.379	0.0405	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Di-n-octyl phthalate	ND		0.379	0.0625	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Fluoranthene	ND		0.0765	0.0449	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Fluorene	ND		0.0765	0.0699	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Hexachlorobenzene	ND		0.192	0.0531	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Hexachlorobutadiene	ND		0.192	0.0956	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.192	0.0732	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Hexachloroethane	ND		0.192	0.0753	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Indeno[1,2,3-cd]pyrene	ND		0.0765	0.0650	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Isophorone	ND		0.192	0.0524	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Naphthalene	ND		0.0765	0.0734	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Nitrobenzene	ND		0.192	0.0885	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
N-Nitrosodimethylamine	ND		0.192	0.0503	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
N-Nitrosodi-n-propylamine	ND		0.192	0.0763	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
N-Nitrosodiphenylamine	ND		0.379	0.0483	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pentachloronitrobenzene	ND		0.379	0.0598	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pentachlorophenol	ND		0.379	0.155	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Phenanthrene	ND		0.0765	0.0434	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Phenol	ND		0.379	0.0780	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pyrene	ND		0.0765	0.0422	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pyridine	ND		0.379	0.0896	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
Nitrobenzene-d5 (Surr)	*90*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:52*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Ethylbenzene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Methyl tert-butyl ether	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Naphthalene	**0.0373**	**J B**	0.0519	0.0353	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
o-Xylene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Toluene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
C9-C10 Aromatics	ND		0.260	0.0363	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:19*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:19*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1221	ND		0.0225	0.00666	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1232	ND		0.0225	0.00624	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0225	0.00356	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1248	ND		0.0225	0.00704	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1254	**0.296**		0.0225	0.0175	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1262	ND		0.0225	0.00525	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1260	ND		0.0225	0.00484	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1268	ND		0.0225	0.00480	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoroheptanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorononanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorodecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorotridecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorotetradecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorobutanesulfonic acid	ND		2.29	0.458	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorohexanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
10:2 FTS	ND		2.29	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoropentanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoroheptanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorononanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorodecanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctanesulfonamide	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorohexadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorobutanoic acid	ND		2.29	0.917	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoropentanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NMeFOSE	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NMeFOSA	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NEtFOSE	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NEtFOSA	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
HFPODA	ND		2.29	1.15	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
DONA	ND		3.44	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
11Cl-PF3OUdS	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorododecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoroundecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*130*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
M2-8:2 FTS	*164*		*15 - 200*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
M2-6:2 FTS	*128*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C5 PFHxA	*141*		*10 - 174*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C4 PFHpA	*149*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C8 PFOA	*139*		*26 - 159*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C9 PFNA	*137*		*26 - 165*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C6 PFDA	*150*		*26 - 161*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C7 PFUnA	*142*		*12 - 173*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C2-PFDoDA	*139*		*11 - 166*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C2 PFTeDA	*149*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C3 PFHxS	*148*		*24 - 171*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C8 PFOS	*142*		*41 - 154*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d3-NMeFOSAA	*134*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d5-NEtFOSAA	*135*		*10 - 193*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C8 FOSA	*132*		*14 - 163*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C4 PFBA	*141*		*28 - 153*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C5 PFPeA	*137*		*24 - 161*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d3-NMePFOSA	*111*		*10 - 175*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d9-N-EtFOSE-M	*129*		*10 - 185*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d5-NEtPFOSA	*117*		*10 - 180*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C3 HFPO-DA	*128*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:54*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.68	1.59	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Arsenic	**1.80**	**J**	2.81	1.31	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Barium	**24.6**		0.468	0.140	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Beryllium	**0.253**	**J**	0.468	0.0935	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Cadmium	ND		0.468	0.0935	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Chromium	**6.12**		1.40	0.327	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Lead	**2.87**		1.40	0.561	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Nickel	**2.85**		0.935	0.243	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Selenium	ND		4.68	1.40	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Silver	ND	^3+	0.935	0.374	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Thallium	ND		2.81	1.22	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Vanadium	**7.94**		0.935	0.402	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Zinc	**61.5**		1.87	0.748	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0690	0.0230	mg/Kg	☼	03/07/23 13:21	03/08/23 11:39	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'
Date Collected: 03/03/23 11:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-36
Matrix: Solid
Percent Solids: 85.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.5		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	85.5		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0810'
Date Collected: 03/03/23 11:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-37
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00458	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Acetone	ND		0.0458	0.0103	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Acrylonitrile	ND		0.00458	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Benzene	ND		0.00458	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromobenzene	ND		0.00458	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromochloromethane	ND		0.00458	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromodichloromethane	ND		0.00458	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromoform	ND		0.00458	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromomethane	ND	*+	0.00917	0.00571	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2-Butanone (MEK)	ND		0.00917	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
n-Butylbenzene	ND		0.00917	0.00491	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
sec-Butylbenzene	ND		0.00458	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
tert-Butylbenzene	ND		0.00458	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Carbon disulfide	ND		0.00917	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Carbon tetrachloride	ND		0.00458	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chlorobenzene	ND		0.00458	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chloroethane	ND		0.00917	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chloroform	ND		0.00458	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chloromethane	ND		0.00917	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2-Chlorotoluene	ND		0.00458	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
4-Chlorotoluene	ND		0.00458	0.00398	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dibromo-3-Chloropropane	ND		0.00917	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Dibromochloromethane	ND		0.00458	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dibromoethane (EDB)	ND		0.00458	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Dibromomethane	ND		0.00458	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dichlorobenzene	ND		0.00458	0.00425	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3-Dichlorobenzene	ND		0.00458	0.00368	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,4-Dichlorobenzene	ND		0.00458	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Dichlorodifluoromethane (Freon 12)	ND		0.00917	0.00246	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1-Dichloroethane	ND		0.00458	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dichloroethane	ND		0.00458	0.00309	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1-Dichloroethene	ND		0.00458	0.00281	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
cis-1,2-Dichloroethene	ND		0.00458	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
trans-1,2-Dichloroethene	ND		0.00458	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dichloropropane	ND		0.00458	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3-Dichloropropane	ND		0.00458	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2,2-Dichloropropane	ND		0.00458	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1-Dichloropropene	ND		0.00458	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
cis-1,3-Dichloropropene	ND		0.00458	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
trans-1,3-Dichloropropene	ND		0.00458	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethylbenzene	ND		0.00458	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Hexachlorobutadiene	ND		0.00917	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2-Hexanone (MBK)	ND		0.00917	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Isopropylbenzene	ND		0.00458	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
4-Isopropyltoluene	ND		0.00458	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Methyl tert-butyl ether	ND		0.00458	0.00264	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
4-Methyl-2-pentanone (MIBK)	ND		0.00917	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Methylene Chloride	ND		0.00917	0.00246	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Naphthalene	ND		0.00458	0.00414	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0810'
Date Collected: 03/03/23 11:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-37
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00458	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Styrene	ND		0.00458	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,1,2-Tetrachloroethane	ND		0.00458	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,2,2-Tetrachloroethane	ND		0.00458	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Tetrachloroethene	ND		0.00458	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Toluene	ND		0.00458	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,3-Trichlorobenzene	ND		0.00458	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,4-Trichlorobenzene	ND		0.00458	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3,5-Trichlorobenzene	ND		0.00458	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,1-Trichloroethane	ND		0.00458	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,2-Trichloroethane	ND		0.00458	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Trichloroethene	ND		0.00458	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Trichlorofluoromethane (Freon 11)	ND		0.00458	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,3-Trichloropropane	ND		0.00458	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,4-Trimethylbenzene	ND		0.00458	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3,5-Trimethylbenzene	ND		0.00458	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Vinyl chloride	ND		0.00458	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
m,p-Xylene	ND		0.00458	0.00626	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
o-Xylene	ND		0.00458	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Tetrahydrofuran	ND		0.00917	0.00232	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethyl ether	ND		0.00458	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Tert-amyl methyl ether	ND		0.00458	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethyl tert-butyl ether	ND		0.00458	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
di-Isopropyl ether	ND		0.00458	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
tert-Butanol	ND		0.0917	0.0246	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,4-Dioxane	ND		0.0917	0.0285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
trans-1,4-Dichloro-2-butene	ND		0.0229	0.00338	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethanol	ND		0.917	0.0568	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3-Dichloropropene, Total	ND		0.00458	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Xylenes, Total	ND		0.0138	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0669	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,2,4-Trichlorobenzene	ND		0.376	0.0862	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,2-Dichlorobenzene	ND		0.376	0.0725	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,3-Dichlorobenzene	ND		0.376	0.0911	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,4-Dichlorobenzene	ND		0.376	0.0886	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1-Methylnaphthalene	ND		0.0760	0.0638	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4,6-Trichlorophenol	ND		0.190	0.0465	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4-Dichlorophenol	ND		0.190	0.0758	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4-Dimethylphenol	ND		0.376	0.0552	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4-Dinitrophenol	ND		0.376	0.0989	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0810'
Date Collected: 03/03/23 11:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-37
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,6-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Chloronaphthalene	ND		0.376	0.0870	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Chlorophenol	ND		0.190	0.0779	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Methylnaphthalene	ND		0.0760	0.0562	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Nitrophenol	ND		0.190	0.0676	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
3,3'-Dichlorobenzidine	ND		0.376	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0676	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Chloro-3-methylphenol	ND		0.376	0.0736	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Nitroaniline	ND		0.190	0.0601	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Acenaphthene	ND		0.0760	0.0606	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Acenaphthylene	ND		0.0760	0.0499	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Acetophenone	ND		0.190	0.0464	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Anthracene	ND		0.0760	0.0440	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0642	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzidine	ND		0.752	0.111	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[a]anthracene	ND		0.0760	0.0427	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[a]pyrene	ND		0.0760	0.0544	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[b]fluoranthene	ND		0.0760	0.0630	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[g,h,i]perylene	ND		0.0760	0.0594	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[k]fluoranthene	ND		0.0760	0.0592	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzyl alcohol	ND		0.376	0.0682	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0654	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0847	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Butyl benzyl phthalate	ND		0.376	0.0377	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Carbazole	ND		0.190	0.0498	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Chrysene	ND		0.0760	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Dibenz(a,h)anthracene	ND		0.0760	0.0580	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Dibenzofuran	ND		0.190	0.0659	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Diethyl phthalate	ND		0.376	0.0413	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Di-n-octyl phthalate	ND		0.376	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Fluoranthene	ND		0.0760	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Fluorene	ND		0.0760	0.0694	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Hexachlorobenzene	ND		0.190	0.0528	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Hexachlorobutadiene	ND		0.190	0.0950	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0727	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Hexachloroethane	ND		0.190	0.0748	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0760	0.0645	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Isophorone	ND		0.190	0.0521	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Naphthalene	ND		0.0760	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Nitrobenzene	ND		0.190	0.0879	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0758	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
N-Nitrosodiphenylamine	ND		0.376	0.0480	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pentachloronitrobenzene	ND		0.376	0.0594	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Phenanthrene	ND		0.0760	0.0431	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Phenol	ND		0.376	0.0775	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pyrene	ND		0.0760	0.0419	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pyridine	ND		0.376	0.0890	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
2-Fluorophenol (Surr)	*81*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
Phenol-d5 (Surr)	*58*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:20*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.234	0.120	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.234	0.100	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Ethylbenzene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Methyl tert-butyl ether	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
m,p-Xylene	ND		0.0936	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Naphthalene	ND		0.0468	0.0318	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
o-Xylene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Toluene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
C5-C8 Aliphatics (unadjusted)	ND		0.234	0.120	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
C9-C10 Aromatics	ND		0.234	0.0327	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
C9-C12 Aliphatics (unadjusted)	ND		0.234	0.100	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:59*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:59*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1221	ND		0.0225	0.00666	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1232	ND		0.0225	0.00624	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0225	0.00356	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1248	ND		0.0225	0.00704	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1254	ND		0.0225	0.0175	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1262	ND		0.0225	0.00525	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1260	ND		0.0225	0.00485	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1268	ND		0.0225	0.00480	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.422**	**J**	0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoroheptanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorononanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorodecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorotridecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorotetradecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorobutanesulfonic acid	ND		2.23	0.446	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorohexanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NEtFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NMeFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
10:2 FTS	ND		2.23	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoropentanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoroheptanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorononanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorodecanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctanesulfonamide	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorohexadecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctadecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorobutanoic acid	ND		2.23	0.893	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoropentanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NMeFOSE	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NMeFOSA	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NEtFOSE	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NEtFOSA	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
HFPODA	ND		2.23	1.12	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
DONA	ND		3.35	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
9Cl-PF3ONS	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
11Cl-PF3OUdS	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorododecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
4:2 Fluorotelomer sulfonic acid	ND		2.23	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoroundecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.23	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
8:2 Fluorotelomer sulfonic acid	ND		3.35	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*138*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
M2-8:2 FTS	*126*		*15 - 200*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
M2-6:2 FTS	*142*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C5 PFHxA	*154*		*10 - 174*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C4 PFHpA	*157*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C8 PFOA	*146*		*26 - 159*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C9 PFNA	*135*		*26 - 165*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C6 PFDA	*149*		*26 - 161*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C7 PFUnA	*146*		*12 - 173*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C2-PFDoDA	*144*		*11 - 166*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C2 PFTeDA	*146*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C3 PFBS	*141*		*27 - 179*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C3 PFHxS	*155*		*24 - 171*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C8 PFOS	*137*		*41 - 154*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d3-NMeFOSAA	*138*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d5-NEtFOSAA	*138*		*10 - 193*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C8 FOSA	*137*		*14 - 163*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C4 PFBA	*146*		*28 - 153*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C5 PFPeA	*135*		*24 - 161*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d7-N-MeFOSE-M	*138*		*10 - 179*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d3-NMePFOSA	*120*		*10 - 175*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d9-N-EtFOSE-M	*134*		*10 - 185*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d5-NEtPFOSA	*124*		*10 - 180*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C3 HFPO-DA	*128*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:27*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.32	1.81	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Arsenic	**2.29**	**J**	3.19	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Barium	**21.9**		0.532	0.160	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Beryllium	**0.285**	**J**	0.532	0.106	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Cadmium	ND		0.532	0.106	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Chromium	**5.90**		1.60	0.373	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Lead	**3.46**		1.60	0.639	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Nickel	**3.16**		1.06	0.277	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Selenium	ND		5.32	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Silver	ND	^3+	1.06	0.426	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Thallium	ND		3.19	1.38	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Vanadium	**9.08**		1.06	0.458	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Zinc	**14.6**		2.13	0.852	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0668	0.0223	mg/Kg	☼	03/07/23 13:21	03/08/23 11:47	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.0		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	87.0		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-1012'
Date Collected: 03/03/23 12:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-38
Matrix: Solid
Percent Solids: 88.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00428	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Acetone	ND		0.0428	0.00959	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Acrylonitrile	ND		0.00428	0.00257	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Benzene	ND		0.00428	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromobenzene	ND		0.00428	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromochloromethane	ND		0.00428	0.00243	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromodichloromethane	ND		0.00428	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromoform	ND		0.00428	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromomethane	ND	*+	0.00856	0.00534	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2-Butanone (MEK)	ND		0.00856	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
n-Butylbenzene	ND		0.00856	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
sec-Butylbenzene	ND		0.00428	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
tert-Butylbenzene	ND		0.00428	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Carbon disulfide	ND		0.00856	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Carbon tetrachloride	ND		0.00428	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chlorobenzene	ND		0.00428	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chloroethane	ND		0.00856	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chloroform	ND		0.00428	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chloromethane	ND		0.00856	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2-Chlorotoluene	ND		0.00428	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
4-Chlorotoluene	ND		0.00428	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dibromo-3-Chloropropane	ND		0.00856	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Dibromochloromethane	ND		0.00428	0.00283	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dibromoethane (EDB)	ND		0.00428	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Dibromomethane	ND		0.00428	0.00252	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dichlorobenzene	ND		0.00428	0.00397	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3-Dichlorobenzene	ND		0.00428	0.00343	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,4-Dichlorobenzene	ND		0.00428	0.00406	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.00856	0.00230	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1-Dichloroethane	ND		0.00428	0.00290	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dichloroethane	ND		0.00428	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1-Dichloroethene	ND		0.00428	0.00262	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
cis-1,2-Dichloroethene	ND		0.00428	0.00248	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
trans-1,2-Dichloroethene	ND		0.00428	0.00266	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dichloropropane	ND		0.00428	0.00283	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3-Dichloropropane	ND		0.00428	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2,2-Dichloropropane	ND		0.00428	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1-Dichloropropene	ND		0.00428	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
cis-1,3-Dichloropropene	ND		0.00428	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
trans-1,3-Dichloropropene	ND		0.00428	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethylbenzene	ND		0.00428	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Hexachlorobutadiene	ND		0.00856	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2-Hexanone (MBK)	ND		0.00856	0.00252	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Isopropylbenzene	ND		0.00428	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
4-Isopropyltoluene	ND		0.00428	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Methyl tert-butyl ether	ND		0.00428	0.00247	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.00856	0.00277	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Methylene Chloride	ND		0.00856	0.00230	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Naphthalene	ND		0.00428	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00428	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Styrene	ND		0.00428	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,1,2-Tetrachloroethane	ND		0.00428	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,2,2-Tetrachloroethane	ND		0.00428	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Tetrachloroethene	ND		0.00428	0.00238	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Toluene	ND		0.00428	0.00272	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,3-Trichlorobenzene	ND		0.00428	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,4-Trichlorobenzene	ND		0.00428	0.00395	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3,5-Trichlorobenzene	ND		0.00428	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,1-Trichloroethane	ND		0.00428	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,2-Trichloroethane	ND		0.00428	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Trichloroethene	ND		0.00428	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00428	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,3-Trichloropropane	ND		0.00428	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,4-Trimethylbenzene	ND		0.00428	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3,5-Trimethylbenzene	ND		0.00428	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Vinyl chloride	ND		0.00428	0.00261	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
m,p-Xylene	ND		0.00428	0.00585	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
o-Xylene	ND		0.00428	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Tetrahydrofuran	ND		0.00856	0.00217	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethyl ether	ND		0.00428	0.00225	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Tert-amyl methyl ether	ND		0.00428	0.00338	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethyl tert-butyl ether	ND		0.00428	0.00282	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
di-Isopropyl ether	ND		0.00428	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
tert-Butanol	ND		0.0856	0.0230	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,4-Dioxane	ND		0.0856	0.0266	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
trans-1,4-Dichloro-2-butene	ND		0.0214	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethanol	ND		0.856	0.0531	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3-Dichloropropene, Total	ND		0.00428	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Xylenes, Total	ND		0.0128	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.374	0.0666	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,2,4-Trichlorobenzene	ND		0.374	0.0858	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,2-Dichlorobenzene	ND		0.374	0.0722	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,3-Dichlorobenzene	ND		0.374	0.0907	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,4-Dichlorobenzene	ND		0.374	0.0882	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1-Methylnaphthalene	ND		0.0757	0.0635	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4,5-Trichlorophenol	ND		0.374	0.0429	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4,6-Trichlorophenol	ND		0.189	0.0463	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4-Dichlorophenol	ND		0.189	0.0755	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4-Dimethylphenol	ND		0.374	0.0549	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4-Dinitrophenol	ND		0.374	0.0985	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-1012'
Date Collected: 03/03/23 12:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-38
Matrix: Solid
Percent Solids: 88.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.189	0.0444	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,6-Dinitrotoluene	ND		0.189	0.0444	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Chloronaphthalene	ND		0.374	0.0866	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Chlorophenol	ND		0.189	0.0775	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Methylnaphthalene	ND		0.0757	0.0559	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Methylphenol	ND		0.374	0.0547	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Nitroaniline	ND		0.374	0.0356	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Nitrophenol	ND		0.189	0.0673	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
3 & 4 Methylphenol	ND		0.374	0.0709	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
3,3'-Dichlorobenzidine	ND		0.374	0.0618	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
3-Nitroaniline	ND		0.374	0.0335	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4,6-Dinitro-2-methylphenol	ND		0.374	0.0673	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Bromophenyl phenyl ether	ND		0.374	0.0423	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Chloro-3-methylphenol	ND		0.374	0.0733	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Chloroaniline	ND		0.189	0.0287	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Chlorophenyl phenyl ether	ND		0.374	0.0401	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Nitroaniline	ND		0.189	0.0598	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Nitrophenol	ND		0.374	0.130	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Acenaphthene	ND		0.0757	0.0604	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Acenaphthylene	ND		0.0757	0.0497	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Acetophenone	ND		0.189	0.0462	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Aniline	ND		0.374	0.0287	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Anthracene	ND		0.0757	0.0438	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Azobenzene/Diphenyldiazene	ND		0.374	0.0639	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzidine	ND		0.749	0.111	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[a]anthracene	ND		0.0757	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[a]pyrene	ND		0.0757	0.0541	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[b]fluoranthene	ND		0.0757	0.0627	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[g,h,i]perylene	ND		0.0757	0.0591	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[k]fluoranthene	ND		0.0757	0.0589	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzoic acid	ND		0.374	0.258	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzyl alcohol	ND		0.374	0.0679	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Bis(2-chloroethoxy)methane	ND		0.374	0.0651	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Bis(2-chloroethyl)ether	ND		0.189	0.0620	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
bis (2-chloroisopropyl) ether	ND		0.189	0.0843	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Bis(2-ethylhexyl) phthalate	ND		0.189	0.0482	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Butyl benzyl phthalate	ND		0.374	0.0376	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Carbazole	ND		0.189	0.0496	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Chrysene	ND		0.0757	0.0428	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Dibenz(a,h)anthracene	ND		0.0757	0.0578	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Dibenzofuran	ND		0.189	0.0656	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Diethyl phthalate	ND		0.374	0.0411	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Dimethyl phthalate	ND		0.374	0.0488	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Di-n-butyl phthalate	ND		0.374	0.0401	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Di-n-octyl phthalate	ND		0.374	0.0618	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Fluoranthene	ND		0.0757	0.0444	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Fluorene	ND		0.0757	0.0691	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Hexachlorobenzene	ND		0.189	0.0525	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Hexachlorobutadiene	ND		0.189	0.0945	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.189	0.0724	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Hexachloroethane	ND		0.189	0.0744	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Indeno[1,2,3-cd]pyrene	ND		0.0757	0.0642	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Isophorone	ND		0.189	0.0519	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Naphthalene	ND		0.0757	0.0726	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Nitrobenzene	ND		0.189	0.0875	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
N-Nitrosodimethylamine	ND		0.189	0.0497	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
N-Nitrosodi-n-propylamine	ND		0.189	0.0755	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
N-Nitrosodiphenylamine	ND		0.374	0.0478	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pentachloronitrobenzene	ND		0.374	0.0591	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pentachlorophenol	ND		0.374	0.153	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Phenanthrene	ND		0.0757	0.0429	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Phenol	ND		0.374	0.0772	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pyrene	ND		0.0757	0.0418	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pyridine	ND		0.374	0.0886	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
Terphenyl-d14	*66*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:49*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.218	0.112	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.218	0.0934	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Ethylbenzene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Methyl tert-butyl ether	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
m,p-Xylene	ND		0.0873	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Naphthalene	ND		0.0437	0.0297	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
o-Xylene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Toluene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
C5-C8 Aliphatics (unadjusted)	ND		0.218	0.112	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
C9-C10 Aromatics	ND		0.218	0.0306	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
C9-C12 Aliphatics (unadjusted)	ND		0.218	0.0934	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 13:38*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 13:38*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1254	**0.0202**	**J**	0.0218	0.0170	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*
Tetrachloro-m-xylene	*51*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*
DCB Decachlorobiphenyl (Surr)	*37*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.491**	**J**	0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoroheptanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorononanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorodecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorotridecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorotetradecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorobutanesulfonic acid	ND		2.21	0.441	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorohexanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NEtFOSAA	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NMeFOSAA	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
10:2 FTS	ND		2.21	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoropentanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoroheptanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorononanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorodecanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctanesulfonamide	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorohexadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorobutanoic acid	ND		2.21	0.882	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoropentanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NMeFOSE	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NMeFOSA	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NEtFOSE	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NEtFOSA	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
HFPODA	ND		2.21	1.10	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
DONA	ND		3.31	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
9Cl-PF3ONS	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
11Cl-PF3OUdS	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorododecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
4:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoroundecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
8:2 Fluorotelomer sulfonic acid	ND		3.31	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*139*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
M2-8:2 FTS	*144*		*15 - 200*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
M2-6:2 FTS	*141*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C5 PFHxA	*151*		*10 - 174*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C4 PFHpA	*157*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C8 PFOA	*149*		*26 - 159*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C9 PFNA	*142*		*26 - 165*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C6 PFDA	*147*		*26 - 161*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C7 PFUnA	*146*		*12 - 173*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C2-PFDoDA	*147*		*11 - 166*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C2 PFTeDA	*149*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C3 PFBS	*146*		*27 - 179*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C3 PFHxS	*163*		*24 - 171*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C8 PFOS	*146*		*41 - 154*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d3-NMeFOSAA	*113*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d5-NEtFOSAA	*118*		*10 - 193*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C8 FOSA	*133*		*14 - 163*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C4 PFBA	*146*		*28 - 153*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C5 PFPeA	*141*		*24 - 161*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d7-N-MeFOSE-M	*125*		*10 - 179*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d3-NMePFOSA	*116*		*10 - 175*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d9-N-EtFOSE-M	*131*		*10 - 185*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d5-NEtPFOSA	*125*		*10 - 180*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C3 HFPO-DA	*141*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:38*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.30	1.46	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Arsenic	**1.99**	**J**	2.58	1.20	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Barium	**18.2**		0.430	0.129	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Beryllium	**0.229**	**J**	0.430	0.0860	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Cadmium	ND		0.430	0.0860	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Chromium	**5.14**		1.29	0.301	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Lead	**2.69**		1.29	0.516	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Nickel	**2.33**		0.860	0.224	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Selenium	ND		4.30	1.29	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Silver	ND	^3+	0.860	0.344	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Thallium	ND		2.58	1.12	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Vanadium	**8.56**		0.860	0.370	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Zinc	**38.9**	**^5-**	1.72	0.688	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0629	0.0210	mg/Kg	☼	03/08/23 00:46	03/09/23 07:50	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.9		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	88.1		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -05

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromomethane	ND	*+	0.0100	0.00623	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/10/23 09:34	03/10/23 13:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -05

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/10/23 09:34	03/10/23 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -06

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-40

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromomethane	ND	*+	0.0100	0.00623	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/10/23 09:34	03/10/23 13:40	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -06

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-40

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/10/23 09:34	03/10/23 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0002'
Date Collected: 03/03/23 13:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-41
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00618	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Acetone	ND		0.0618	0.0138	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Acrylonitrile	ND		0.00618	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Benzene	ND		0.00618	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromobenzene	ND		0.00618	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromochloromethane	ND		0.00618	0.00351	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromodichloromethane	ND		0.00618	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromoform	ND		0.00618	0.00472	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromomethane	ND	*+	0.0124	0.00770	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2-Butanone (MEK)	ND		0.0124	0.00492	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
n-Butylbenzene	ND	*3	0.0124	0.00662	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
sec-Butylbenzene	ND		0.00618	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
tert-Butylbenzene	ND		0.00618	0.00487	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Carbon disulfide	ND		0.0124	0.00434	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Carbon tetrachloride	ND		0.00618	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chlorobenzene	ND		0.00618	0.00452	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chloroethane	ND		0.0124	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chloroform	ND		0.00618	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chloromethane	ND		0.0124	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2-Chlorotoluene	ND		0.00618	0.00492	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
4-Chlorotoluene	ND		0.00618	0.00536	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0124	0.00524	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Dibromochloromethane	ND		0.00618	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dibromoethane (EDB)	ND		0.00618	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Dibromomethane	ND		0.00618	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dichlorobenzene	ND	*3	0.00618	0.00573	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3-Dichlorobenzene	ND		0.00618	0.00496	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,4-Dichlorobenzene	ND	*3	0.00618	0.00586	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Dichlorodifluoromethane (Freon 12)	ND		0.0124	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1-Dichloroethane	ND		0.00618	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dichloroethane	ND		0.00618	0.00416	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1-Dichloroethene	ND		0.00618	0.00378	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
cis-1,2-Dichloroethene	ND		0.00618	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
trans-1,2-Dichloroethene	ND		0.00618	0.00384	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dichloropropane	ND		0.00618	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3-Dichloropropane	ND		0.00618	0.00472	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2,2-Dichloropropane	ND		0.00618	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1-Dichloropropene	ND		0.00618	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
cis-1,3-Dichloropropene	ND		0.00618	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
trans-1,3-Dichloropropene	ND		0.00618	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethylbenzene	ND		0.00618	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Hexachlorobutadiene	ND	*3	0.0124	0.00622	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2-Hexanone (MBK)	ND		0.0124	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Isopropylbenzene	ND		0.00618	0.00467	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
4-Isopropyltoluene	ND	*3	0.00618	0.00607	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Methyl tert-butyl ether	ND		0.00618	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
4-Methyl-2-pentanone (MIBK)	ND		0.0124	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Methylene Chloride	ND		0.0124	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Naphthalene	ND	*3	0.00618	0.00559	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1

Client Sample ID: 2023-SB-05-0002' **Lab Sample ID: 620-10117-41**
Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00618	0.00523	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Styrene	ND		0.00618	0.00478	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,1,2-Tetrachloroethane	ND		0.00618	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,2,2-Tetrachloroethane	ND		0.00618	0.00566	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Tetrachloroethene	ND		0.00618	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Toluene	ND		0.00618	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,3-Trichlorobenzene	ND	*3	0.00618	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,4-Trichlorobenzene	ND		0.00618	0.00570	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3,5-Trichlorobenzene	ND	*3	0.00618	0.00587	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,1-Trichloroethane	ND		0.00618	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,2-Trichloroethane	ND		0.00618	0.00466	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Trichloroethene	ND		0.00618	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Trichlorofluoromethane (Freon 11)	ND		0.00618	0.00472	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,3-Trichloropropane	ND		0.00618	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,4-Trimethylbenzene	ND		0.00618	0.00523	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3,5-Trimethylbenzene	ND		0.00618	0.00525	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Vinyl chloride	ND		0.00618	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
m,p-Xylene	ND		0.00618	0.00844	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
o-Xylene	ND		0.00618	0.00451	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Tetrahydrofuran	ND		0.0124	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethyl ether	ND		0.00618	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Tert-amyl methyl ether	ND		0.00618	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethyl tert-butyl ether	ND		0.00618	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
di-Isopropyl ether	ND		0.00618	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
tert-Butanol	ND		0.124	0.0331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,4-Dioxane	ND		0.124	0.0384	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
trans-1,4-Dichloro-2-butene	ND		0.0309	0.00456	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethanol	ND		1.24	0.0766	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3-Dichloropropene, Total	ND		0.00618	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Xylenes, Total	ND		0.0185	0.00618	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00501	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Acetone	ND		0.0501	0.0112	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Acrylonitrile	ND		0.00501	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Benzene	ND		0.00501	0.00335	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromobenzene	ND		0.00501	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromochloromethane	ND		0.00501	0.00285	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromodichloromethane	ND		0.00501	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromoform	ND		0.00501	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromomethane	ND	*+	0.0100	0.00625	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2-Butanone (MEK)	ND		0.0100	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0002'
Date Collected: 03/03/23 13:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-41
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0100	0.00537	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
sec-Butylbenzene	ND		0.00501	0.00404	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
tert-Butylbenzene	ND		0.00501	0.00395	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Carbon disulfide	ND		0.0100	0.00352	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Carbon tetrachloride	ND		0.00501	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chlorobenzene	ND		0.00501	0.00367	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chloroethane	ND	*+	0.0100	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chloroform	ND		0.00501	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chloromethane	ND		0.0100	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2-Chlorotoluene	ND		0.00501	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
4-Chlorotoluene	ND		0.00501	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0100	0.00425	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Dibromochloromethane	ND		0.00501	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dibromoethane (EDB)	ND		0.00501	0.00360	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Dibromomethane	ND		0.00501	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dichlorobenzene	ND	*3	0.00501	0.00465	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3-Dichlorobenzene	ND		0.00501	0.00402	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,4-Dichlorobenzene	ND	*3	0.00501	0.00475	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00269	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1-Dichloroethane	ND		0.00501	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dichloroethane	ND		0.00501	0.00338	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1-Dichloroethene	ND		0.00501	0.00307	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
cis-1,2-Dichloroethene	ND		0.00501	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
trans-1,2-Dichloroethene	ND		0.00501	0.00312	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dichloropropane	ND		0.00501	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3-Dichloropropane	ND		0.00501	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2,2-Dichloropropane	ND		0.00501	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1-Dichloropropene	ND		0.00501	0.00341	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
cis-1,3-Dichloropropene	ND		0.00501	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
trans-1,3-Dichloropropene	ND		0.00501	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethylbenzene	ND		0.00501	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Hexachlorobutadiene	ND	*3	0.0100	0.00504	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2-Hexanone (MBK)	ND		0.0100	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Isopropylbenzene	ND		0.00501	0.00379	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
4-Isopropyltoluene	ND	*3	0.00501	0.00492	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Methyl tert-butyl ether	ND		0.00501	0.00289	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00324	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Methylene Chloride	ND		0.0100	0.00269	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Naphthalene	ND	*3	0.00501	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
N-Propylbenzene	ND		0.00501	0.00424	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Styrene	ND		0.00501	0.00388	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1,1,2-Tetrachloroethane	ND		0.00501	0.00376	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1,2,2-Tetrachloroethane	ND		0.00501	0.00459	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Tetrachloroethene	ND		0.00501	0.00279	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Toluene	ND		0.00501	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,3-Trichlorobenzene	ND	*3	0.00501	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,4-Trichlorobenzene	ND		0.00501	0.00462	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3,5-Trichlorobenzene	ND	*3	0.00501	0.00476	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1,1-Trichloroethane	ND		0.00501	0.00342	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1

Client Sample ID: 2023-SB-05-0002' **Lab Sample ID: 620-10117-41**
Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00501	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Trichloroethene	ND		0.00501	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Trichlorofluoromethane (Freon 11)	ND		0.00501	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,3-Trichloropropane	ND		0.00501	0.00445	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,4-Trimethylbenzene	ND		0.00501	0.00424	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3,5-Trimethylbenzene	ND		0.00501	0.00426	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Vinyl chloride	ND		0.00501	0.00306	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
m,p-Xylene	ND		0.00501	0.00685	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
o-Xylene	ND		0.00501	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Tetrahydrofuran	ND		0.0100	0.00254	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethyl ether	ND		0.00501	0.00264	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Tert-amyl methyl ether	ND		0.00501	0.00396	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethyl tert-butyl ether	ND		0.00501	0.00330	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
di-Isopropyl ether	ND		0.00501	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
tert-Butanol	ND		0.100	0.0269	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,4-Dioxane	ND		0.100	0.0312	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
trans-1,4-Dichloro-2-butene	ND		0.0251	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethanol	ND		1.00	0.0622	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3-Dichloropropene, Total	ND		0.00501	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Xylenes, Total	ND		0.0150	0.00501	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.365	0.0649	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,2,4-Trichlorobenzene	ND		0.365	0.0836	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,2-Dichlorobenzene	ND		0.365	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,3-Dichlorobenzene	ND		0.365	0.0884	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,4-Dichlorobenzene	ND		0.365	0.0859	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1-Methylnaphthalene	ND		0.0738	0.0619	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4,5-Trichlorophenol	ND		0.365	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4,6-Trichlorophenol	ND		0.185	0.0451	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dichlorophenol	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dimethylphenol	ND		0.365	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dinitrophenol	ND		0.365	0.0960	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,6-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Chloronaphthalene	ND		0.365	0.0844	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Chlorophenol	ND		0.185	0.0755	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Methylnaphthalene	ND		0.0738	0.0545	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Methylphenol	ND		0.365	0.0533	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Nitroaniline	ND		0.365	0.0347	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Nitrophenol	ND		0.185	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
3 & 4 Methylphenol	ND		0.365	0.0691	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
3,3'-Dichlorobenzidine	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0002'
Date Collected: 03/03/23 13:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-41
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.365	0.0326	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4,6-Dinitro-2-methylphenol	ND		0.365	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Bromophenyl phenyl ether	ND		0.365	0.0412	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Chloro-3-methylphenol	ND		0.365	0.0714	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Chloroaniline	ND		0.185	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Chlorophenyl phenyl ether	ND		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Nitroaniline	ND		0.185	0.0583	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Nitrophenol	ND		0.365	0.127	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Acenaphthene	ND		0.0738	0.0588	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Acenaphthylene	**0.0579**	**J**	0.0738	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Acetophenone	ND		0.185	0.0450	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Aniline	ND		0.365	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Anthracene	**0.0468**	**J**	0.0738	0.0427	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Azobenzene/Diphenyldiazene	ND		0.365	0.0623	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzidine	ND		0.730	0.108	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[a]anthracene	**0.122**		0.0738	0.0415	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[a]pyrene	**0.157**		0.0738	0.0527	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[b]fluoranthene	**0.185**		0.0738	0.0611	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[g,h,i]perylene	**0.152**		0.0738	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[k]fluoranthene	**0.159**		0.0738	0.0574	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzoic acid	ND		0.365	0.251	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzyl alcohol	ND		0.365	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Bis(2-chloroethoxy)methane	ND		0.365	0.0635	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Bis(2-chloroethyl)ether	ND		0.185	0.0604	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
bis (2-chloroisopropyl) ether	ND		0.185	0.0822	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Bis(2-ethylhexyl) phthalate	**0.418**		0.185	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Butyl benzyl phthalate	ND		0.365	0.0366	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Carbazole	ND		0.185	0.0483	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Chrysene	**0.184**		0.0738	0.0417	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Dibenz(a,h)anthracene	**0.0575**	**J**	0.0738	0.0563	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Dibenzofuran	ND		0.185	0.0639	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Diethyl phthalate	ND		0.365	0.0400	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Dimethyl phthalate	ND		0.365	0.0475	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Di-n-butyl phthalate	**3.07**		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Di-n-octyl phthalate	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Fluoranthene	**0.263**		0.0738	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Fluorene	ND		0.0738	0.0673	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachlorobenzene	ND		0.185	0.0512	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachlorobutadiene	ND		0.185	0.0921	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachlorocyclopentadiene	ND		0.185	0.0705	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachloroethane	ND		0.185	0.0725	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Indeno[1,2,3-cd]pyrene	**0.135**		0.0738	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Isophorone	ND		0.185	0.0505	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Naphthalene	ND		0.0738	0.0708	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Nitrobenzene	ND		0.185	0.0853	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
N-Nitrosodimethylamine	ND		0.185	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
N-Nitrosodi-n-propylamine	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
N-Nitrosodiphenylamine	ND		0.365	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Pentachloronitrobenzene	ND		0.365	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1

Client Sample ID: 2023-SB-05-0002' Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.365	0.149	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Phenanthrene	**0.124**		0.0738	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Phenol	ND		0.365	0.0752	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Pyrene	**0.299**		0.0738	0.0407	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Pyridine	ND		0.365	0.0864	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
2-Fluorophenol (Surr)	*73*		*15 - 110*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
Terphenyl-d14	*64*		*30 - 130*	*03/15/23 09:29*	*03/17/23 17:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.217**	**J**	0.256	0.131	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	**0.418**		0.256	0.110	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Ethylbenzene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Methyl tert-butyl ether	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Naphthalene	ND		0.0512	0.0348	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
o-Xylene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Toluene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
C5-C8 Aliphatics (unadjusted)	**0.217**	**J**	0.256	0.131	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
C9-C10 Aromatics	**0.180**	**J**	0.256	0.0358	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
C9-C12 Aliphatics (unadjusted)	**0.598**		0.256	0.110	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/09/23 07:17*	*03/09/23 14:17*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 14:17*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.110	0.0795	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1221	ND		0.110	0.0326	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1232	ND		0.110	0.0306	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1242	ND		0.110	0.0174	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1248	ND		0.110	0.0345	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1254	**1.99**		0.110	0.0858	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1262	ND		0.110	0.0257	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1260	ND		0.110	0.0237	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1268	ND		0.110	0.0235	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:58*	*5*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:58*	*5*

Client Sample ID: 2023-SB-05-0002' **Lab Sample ID: 620-10117-41**
Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		30 - 150	03/09/23 15:27	03/14/23 12:58	5
DCB Decachlorobiphenyl (Surr)	94		30 - 150	03/09/23 15:27	03/14/23 12:58	5

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoroheptanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorononanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorodecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorotridecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorotetradecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorobutanesulfonic acid	ND		2.23	0.445	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorohexanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NEtFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NMeFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
10:2 FTS	ND		2.23	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoropentanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoroheptanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorononanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorodecanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctanesulfonamide	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorohexadecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctadecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorobutanoic acid	ND		2.23	0.891	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoropentanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NMeFOSE	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NMeFOSA	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NEtFOSE	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NEtFOSA	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
HFPODA	ND		2.23	1.11	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
DONA	ND		3.34	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
9Cl-PF3ONS	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
11Cl-PF3OUdS	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorododecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.23	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoroundecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
6:2 Fluorotelomer sulfonic acid	ND		2.23	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.34	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	144		10 - 200	03/20/23 00:33	03/21/23 07:50	1
M2-8:2 FTS	207	*5+	15 - 200	03/20/23 00:33	03/21/23 07:50	1
M2-6:2 FTS	171		10 - 200	03/20/23 00:33	03/21/23 07:50	1
13C5 PFHxA	113		10 - 174	03/20/23 00:33	03/21/23 07:50	1
13C4 PFHpA	120		10 - 178	03/20/23 00:33	03/21/23 07:50	1
13C8 PFOA	118		26 - 159	03/20/23 00:33	03/21/23 07:50	1

Client Sample ID: 2023-SB-05-0002' Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	142		26 - 165	03/20/23 00:33	03/21/23 07:50	1
13C6 PFDA	131		26 - 161	03/20/23 00:33	03/21/23 07:50	1
13C7 PFUnA	84		12 - 173	03/20/23 00:33	03/21/23 07:50	1
13C2-PFDoDA	136		11 - 166	03/20/23 00:33	03/21/23 07:50	1
13C2 PFTeDA	144		10 - 169	03/20/23 00:33	03/21/23 07:50	1
13C3 PFBS	137		27 - 179	03/20/23 00:33	03/21/23 07:50	1
13C3 PFHxS	138		24 - 171	03/20/23 00:33	03/21/23 07:50	1
13C8 PFOS	138		41 - 154	03/20/23 00:33	03/21/23 07:50	1
d3-NMeFOSAA	122		10 - 178	03/20/23 00:33	03/21/23 07:50	1
d5-NEtFOSAA	96		10 - 193	03/20/23 00:33	03/21/23 07:50	1
13C8 FOSA	95		14 - 163	03/20/23 00:33	03/21/23 07:50	1
13C4 PFBA	111		28 - 153	03/20/23 00:33	03/21/23 07:50	1
13C5 PFPeA	109		24 - 161	03/20/23 00:33	03/21/23 07:50	1
d7-N-MeFOSE-M	93		10 - 179	03/20/23 00:33	03/21/23 07:50	1
d3-NMePFOSA	72		10 - 175	03/20/23 00:33	03/21/23 07:50	1
d9-N-EtFOSE-M	101		10 - 185	03/20/23 00:33	03/21/23 07:50	1
d5-NEtPFOSA	77		10 - 180	03/20/23 00:33	03/21/23 07:50	1
13C3 HFPO-DA	83		10 - 169	03/20/23 00:33	03/21/23 07:50	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.16	1.75	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Arsenic	**2.32**	**J**	3.10	1.44	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Barium	**57.0**		0.516	0.155	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Beryllium	**0.267**	**J**	0.516	0.103	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Cadmium	ND		0.516	0.103	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Chromium	**4.50**		1.55	0.361	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Lead	**26.8**		1.55	0.619	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Nickel	**3.30**		1.03	0.268	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Selenium	ND		5.16	1.55	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Silver	ND		1.03	0.413	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Thallium	ND		3.10	1.34	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Vanadium	**5.90**		1.03	0.444	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Zinc	**81.0**		2.06	0.825	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0411**	**J**	0.0633	0.0211	mg/Kg	☼	03/15/23 14:55	03/16/23 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.1**		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	**88.9**		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'
Date Collected: 03/03/23 13:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-42
Matrix: Solid
Percent Solids: 65.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00729	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Acetone	ND		0.0729	0.0163	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Acrylonitrile	ND		0.00729	0.00437	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Benzene	ND		0.00729	0.00487	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromobenzene	ND		0.00729	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromochloromethane	ND		0.00729	0.00414	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromodichloromethane	ND		0.00729	0.00535	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromoform	ND		0.00729	0.00557	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromomethane	ND	*+	0.0146	0.00908	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2-Butanone (MEK)	ND		0.0146	0.00580	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
n-Butylbenzene	ND		0.0146	0.00781	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
sec-Butylbenzene	ND		0.00729	0.00587	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
tert-Butylbenzene	ND		0.00729	0.00574	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Carbon disulfide	ND		0.0146	0.00512	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Carbon tetrachloride	ND		0.00729	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chlorobenzene	ND		0.00729	0.00533	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chloroethane	ND		0.0146	0.00535	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chloroform	ND		0.00729	0.00490	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chloromethane	ND		0.0146	0.00560	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2-Chlorotoluene	ND		0.00729	0.00580	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
4-Chlorotoluene	ND		0.00729	0.00633	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dibromo-3-Chloropropane	ND		0.0146	0.00618	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Dibromochloromethane	ND		0.00729	0.00482	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dibromoethane (EDB)	ND		0.00729	0.00523	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Dibromomethane	ND		0.00729	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dichlorobenzene	ND		0.00729	0.00676	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3-Dichlorobenzene	ND		0.00729	0.00584	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,4-Dichlorobenzene	ND		0.00729	0.00691	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.0146	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1-Dichloroethane	ND		0.00729	0.00494	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dichloroethane	ND		0.00729	0.00491	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1-Dichloroethene	ND		0.00729	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
cis-1,2-Dichloroethene	ND		0.00729	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
trans-1,2-Dichloroethene	ND		0.00729	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dichloropropane	ND		0.00729	0.00482	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3-Dichloropropane	ND		0.00729	0.00557	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2,2-Dichloropropane	ND		0.00729	0.00503	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1-Dichloropropene	ND		0.00729	0.00496	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
cis-1,3-Dichloropropene	ND		0.00729	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
trans-1,3-Dichloropropene	ND		0.00729	0.00554	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethylbenzene	ND		0.00729	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Hexachlorobutadiene	ND		0.0146	0.00733	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2-Hexanone (MBK)	ND		0.0146	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Isopropylbenzene	ND		0.00729	0.00551	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
4-Isopropyltoluene	ND		0.00729	0.00716	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Methyl tert-butyl ether	ND		0.00729	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.0146	0.00471	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Methylene Chloride	ND		0.0146	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Naphthalene	ND		0.00729	0.00659	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00729	0.00617	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Styrene	ND		0.00729	0.00564	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,1,2-Tetrachloroethane	ND		0.00729	0.00547	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,2,2-Tetrachloroethane	ND		0.00729	0.00668	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Tetrachloroethene	ND		0.00729	0.00405	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Toluene	ND		0.00729	0.00462	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,3-Trichlorobenzene	ND		0.00729	0.00615	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,4-Trichlorobenzene	ND		0.00729	0.00672	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3,5-Trichlorobenzene	ND		0.00729	0.00692	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,1-Trichloroethane	ND		0.00729	0.00497	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,2-Trichloroethane	ND		0.00729	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Trichloroethene	ND		0.00729	0.00490	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00729	0.00557	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,3-Trichloropropane	ND		0.00729	0.00647	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,4-Trimethylbenzene	ND		0.00729	0.00617	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3,5-Trimethylbenzene	ND		0.00729	0.00619	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Vinyl chloride	ND		0.00729	0.00445	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
m,p-Xylene	ND		0.00729	0.00995	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
o-Xylene	ND		0.00729	0.00532	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Tetrahydrofuran	ND		0.0146	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethyl ether	ND		0.00729	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Tert-amyl methyl ether	ND		0.00729	0.00576	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethyl tert-butyl ether	ND		0.00729	0.00480	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
di-Isopropyl ether	ND		0.00729	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
tert-Butanol	ND		0.146	0.0391	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,4-Dioxane	ND		0.146	0.0453	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
trans-1,4-Dichloro-2-butene	ND		0.0364	0.00538	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethanol	ND		1.46	0.0904	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3-Dichloropropene, Total	ND		0.00729	0.00554	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Xylenes, Total	ND		0.0219	0.00729	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.498	0.0886	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,2,4-Trichlorobenzene	ND		0.498	0.114	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,2-Dichlorobenzene	ND		0.498	0.0960	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,3-Dichlorobenzene	ND		0.498	0.121	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,4-Dichlorobenzene	ND		0.498	0.117	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1-Methylnaphthalene	ND		0.101	0.0845	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4,5-Trichlorophenol	ND		0.498	0.0570	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4,6-Trichlorophenol	ND		0.252	0.0616	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4-Dichlorophenol	ND		0.252	0.100	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4-Dimethylphenol	ND		0.498	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4-Dinitrophenol	ND		0.498	0.131	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'
Date Collected: 03/03/23 13:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-42
Matrix: Solid
Percent Solids: 65.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.252	0.0590	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,6-Dinitrotoluene	ND		0.252	0.0590	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Chloronaphthalene	ND		0.498	0.115	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Chlorophenol	ND		0.252	0.103	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Methylnaphthalene	ND		0.101	0.0744	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Methylphenol	ND		0.498	0.0727	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Nitroaniline	ND		0.498	0.0474	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Nitrophenol	ND		0.252	0.0895	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
3 & 4 Methylphenol	ND		0.498	0.0943	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
3,3'-Dichlorobenzidine	ND		0.498	0.0822	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
3-Nitroaniline	ND		0.498	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4,6-Dinitro-2-methylphenol	ND		0.498	0.0895	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Bromophenyl phenyl ether	ND		0.498	0.0563	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Chloro-3-methylphenol	ND		0.498	0.0975	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Chloroaniline	ND		0.252	0.0382	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Chlorophenyl phenyl ether	ND		0.498	0.0533	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Nitroaniline	ND		0.252	0.0795	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Nitrophenol	ND		0.498	0.174	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Acenaphthene	ND		0.101	0.0803	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Acenaphthylene	ND		0.101	0.0661	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Acetophenone	ND		0.252	0.0614	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Aniline	ND		0.498	0.0382	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Anthracene	ND		0.101	0.0583	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Azobenzene/Diphenyldiazene	ND		0.498	0.0850	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzidine	ND		0.996	0.147	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[a]anthracene	ND		0.101	0.0566	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[a]pyrene	ND		0.101	0.0720	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[b]fluoranthene	ND		0.101	0.0835	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[g,h,i]perylene	ND		0.101	0.0786	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[k]fluoranthene	ND		0.101	0.0783	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzoic acid	ND		0.498	0.343	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzyl alcohol	ND		0.498	0.0902	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Bis(2-chloroethoxy)methane	ND		0.498	0.0866	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Bis(2-chloroethyl)ether	ND		0.252	0.0824	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
bis (2-chloroisopropyl) ether	ND		0.252	0.112	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Bis(2-ethylhexyl) phthalate	ND		0.252	0.0641	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Butyl benzyl phthalate	ND		0.498	0.0500	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Carbazole	ND		0.252	0.0659	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Chrysene	ND		0.101	0.0569	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Dibenz(a,h)anthracene	ND		0.101	0.0768	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Dibenzofuran	ND		0.252	0.0872	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Diethyl phthalate	ND		0.498	0.0546	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Dimethyl phthalate	ND		0.498	0.0649	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Di-n-butyl phthalate	ND		0.498	0.0533	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Di-n-octyl phthalate	ND		0.498	0.0822	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Fluoranthene	**0.0778**	**J**	0.101	0.0590	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Fluorene	ND		0.101	0.0919	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Hexachlorobenzene	ND		0.252	0.0699	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Hexachlorobutadiene	ND		0.252	0.126	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.252	0.0963	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Hexachloroethane	ND		0.252	0.0990	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Indeno[1,2,3-cd]pyrene	ND		0.101	0.0854	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Isophorone	ND		0.252	0.0690	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Naphthalene	ND		0.101	0.0966	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Nitrobenzene	ND		0.252	0.116	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
N-Nitrosodimethylamine	ND		0.252	0.0661	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
N-Nitrosodi-n-propylamine	ND		0.252	0.100	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
N-Nitrosodiphenylamine	ND		0.498	0.0635	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pentachloronitrobenzene	ND		0.498	0.0786	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pentachlorophenol	ND		0.498	0.204	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Phenanthrene	ND		0.101	0.0570	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Phenol	ND		0.498	0.103	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pyrene	**0.0678**	**J**	0.101	0.0555	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pyridine	ND		0.498	0.118	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
2-Fluorophenol (Surr)	*73*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
Phenol-d5 (Surr)	*55*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.380	0.194	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.380	0.162	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Ethylbenzene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Methyl tert-butyl ether	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
m,p-Xylene	ND		0.152	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Naphthalene	**0.0572**	**J B**	0.0759	0.0516	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
o-Xylene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Toluene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
C5-C8 Aliphatics (unadjusted)	ND		0.380	0.194	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
C9-C10 Aromatics	ND		0.380	0.0531	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
C9-C12 Aliphatics (unadjusted)	ND		0.380	0.162	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/09/23 07:17*	*03/09/23 15:36*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 15:36*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0288	0.0208	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1221	ND		0.0288	0.00852	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1232	ND		0.0288	0.00799	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0288	0.00456	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1248	ND		0.0288	0.00901	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1254	ND		0.0288	0.0224	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1262	ND		0.0288	0.00672	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1260	ND		0.0288	0.00620	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1268	ND		0.0288	0.00614	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoroheptanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorononanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorodecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorotridecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorotetradecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorobutanesulfonic acid	ND		2.87	0.574	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorohexanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NEtFOSAA	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NMeFOSAA	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
10:2 FTS	ND		2.87	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoropentanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoroheptanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorononanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorodecanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctanesulfonamide	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorohexadecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctadecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorobutanoic acid	ND		2.87	1.15	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoropentanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NMeFOSE	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NMeFOSA	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NEtFOSE	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NEtFOSA	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
HFPODA	ND		2.87	1.43	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
DONA	ND		4.30	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
9Cl-PF3ONS	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
11Cl-PF3OUdS	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorododecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.87	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoroundecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.87	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
8:2 Fluorotelomer sulfonic acid	ND		4.30	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*134*		*10 - 200*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
M2-8:2 FTS	*178*		*15 - 200*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
M2-6:2 FTS	*164*		*10 - 200*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C4 PFHpA	*129*		*10 - 178*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C8 PFOA	*126*		*26 - 159*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C9 PFNA	*129*		*26 - 165*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C6 PFDA	*128*		*26 - 161*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C7 PFUnA	*87*		*12 - 173*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C2-PFDoDA	*146*		*11 - 166*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C2 PFTeDA	*157*		*10 - 169*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C3 PFHxS	*143*		*24 - 171*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C8 PFOS	*130*		*41 - 154*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d3-NMeFOSAA	*140*		*10 - 178*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d5-NEtFOSAA	*104*		*10 - 193*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C4 PFBA	*119*		*28 - 153*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C5 PFPeA	*116*		*24 - 161*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d9-N-EtFOSE-M	*107*		*10 - 185*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C3 HFPO-DA	*103*		*10 - 169*	*03/20/23 00:33*	*03/21/23 08:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		7.38	2.51	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Arsenic	**3.22**	**J**	4.43	2.07	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Barium	**45.7**		0.738	0.221	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Beryllium	**0.691**	**J**	0.738	0.148	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Cadmium	ND		0.738	0.148	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Chromium	**6.85**		2.21	0.517	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Lead	**23.3**		2.21	0.886	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Nickel	**4.20**		1.48	0.384	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Selenium	ND		7.38	2.21	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Silver	ND	^3+	1.48	0.590	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Thallium	ND		4.43	1.92	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Vanadium	**10.5**		1.48	0.635	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Zinc	**140**		2.95	1.18	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0464**	**J**	0.0850	0.0283	mg/Kg	☼	03/07/23 13:21	03/08/23 11:53	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'
Date Collected: 03/03/23 13:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-42
Matrix: Solid
Percent Solids: 65.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	34.9		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	65.1		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0406'
Date Collected: 03/03/23 13:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-43
Matrix: Solid
Percent Solids: 84.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.00484	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Acetone	ND		0.0484	0.0108	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Acrylonitrile	ND		0.00484	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Benzene	ND		0.00484	0.00323	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromobenzene	ND		0.00484	0.00322	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromochloromethane	ND	F1	0.00484	0.00275	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromodichloromethane	ND	F1	0.00484	0.00355	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromoform	ND		0.00484	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromomethane	ND	*+	0.00968	0.00603	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2-Butanone (MEK)	ND		0.00968	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
n-Butylbenzene	ND		0.00968	0.00519	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
sec-Butylbenzene	ND		0.00484	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
tert-Butylbenzene	ND		0.00484	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Carbon disulfide	ND		0.00968	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Carbon tetrachloride	ND		0.00484	0.00305	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chlorobenzene	ND		0.00484	0.00354	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chloroethane	ND	*+ F1	0.00968	0.00355	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chloroform	ND		0.00484	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chloromethane	ND		0.00968	0.00372	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2-Chlorotoluene	ND		0.00484	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
4-Chlorotoluene	ND		0.00484	0.00420	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dibromo-3-Chloropropane	ND		0.00968	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Dibromochloromethane	ND	F1	0.00484	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dibromoethane (EDB)	ND		0.00484	0.00348	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Dibromomethane	ND		0.00484	0.00285	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dichlorobenzene	ND		0.00484	0.00449	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3-Dichlorobenzene	ND		0.00484	0.00388	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,4-Dichlorobenzene	ND		0.00484	0.00459	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Dichlorodifluoromethane (Freon 12)	ND		0.00968	0.00259	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1-Dichloroethane	ND	F1	0.00484	0.00328	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dichloroethane	ND		0.00484	0.00326	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1-Dichloroethene	ND	F1	0.00484	0.00296	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
cis-1,2-Dichloroethene	ND		0.00484	0.00280	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
trans-1,2-Dichloroethene	ND	F1	0.00484	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dichloropropane	ND	F1	0.00484	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3-Dichloropropane	ND		0.00484	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2,2-Dichloropropane	ND		0.00484	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1-Dichloropropene	ND		0.00484	0.00329	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
cis-1,3-Dichloropropene	ND		0.00484	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
trans-1,3-Dichloropropene	ND		0.00484	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethylbenzene	ND		0.00484	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Hexachlorobutadiene	ND		0.00968	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2-Hexanone (MBK)	ND	F1	0.00968	0.00285	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Isopropylbenzene	ND		0.00484	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
4-Isopropyltoluene	ND		0.00484	0.00475	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Methyl tert-butyl ether	ND		0.00484	0.00279	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.00968	0.00313	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Methylene Chloride	ND		0.00968	0.00259	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Naphthalene	ND	F1	0.00484	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00484	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Styrene	ND		0.00484	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,1,2-Tetrachloroethane	ND		0.00484	0.00363	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,2,2-Tetrachloroethane	ND	F1	0.00484	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Tetrachloroethene	ND		0.00484	0.00269	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Toluene	ND	F1	0.00484	0.00307	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,3-Trichlorobenzene	ND		0.00484	0.00409	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,4-Trichlorobenzene	ND		0.00484	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3,5-Trichlorobenzene	ND		0.00484	0.00460	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,1-Trichloroethane	ND		0.00484	0.00330	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,2-Trichloroethane	ND	F1	0.00484	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Trichloroethene	ND		0.00484	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Trichlorofluoromethane (Freon 11)	ND	F1	0.00484	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,3-Trichloropropane	ND		0.00484	0.00430	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,4-Trimethylbenzene	ND		0.00484	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3,5-Trimethylbenzene	ND		0.00484	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Vinyl chloride	ND		0.00484	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
m,p-Xylene	ND		0.00484	0.00661	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
o-Xylene	ND		0.00484	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Tetrahydrofuran	ND		0.00968	0.00245	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethyl ether	ND		0.00484	0.00255	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Tert-amyl methyl ether	ND		0.00484	0.00382	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethyl tert-butyl ether	ND		0.00484	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
di-Isopropyl ether	ND		0.00484	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
tert-Butanol	ND		0.0968	0.0259	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,4-Dioxane	ND		0.0968	0.0301	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethanol	ND		0.968	0.0600	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3-Dichloropropene, Total	ND		0.00484	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Xylenes, Total	ND		0.0145	0.00484	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.389	0.0692	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,2,4-Trichlorobenzene	ND		0.389	0.0891	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,2-Dichlorobenzene	ND		0.389	0.0749	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,3-Dichlorobenzene	ND		0.389	0.0941	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,4-Dichlorobenzene	ND		0.389	0.0915	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1-Methylnaphthalene	ND		0.0786	0.0660	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4,5-Trichlorophenol	ND		0.389	0.0445	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4,6-Trichlorophenol	ND		0.197	0.0481	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4-Dichlorophenol	ND		0.197	0.0783	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4-Dimethylphenol	ND		0.389	0.0570	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4-Dinitrophenol	ND		0.389	0.102	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0406'
Date Collected: 03/03/23 13:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-43
Matrix: Solid
Percent Solids: 84.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.197	0.0461	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,6-Dinitrotoluene	ND		0.197	0.0461	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Chloronaphthalene	ND		0.389	0.0899	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Chlorophenol	ND		0.197	0.0805	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Methylnaphthalene	ND		0.0786	0.0581	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Methylphenol	ND		0.389	0.0568	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Nitroaniline	ND		0.389	0.0370	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Nitrophenol	ND		0.197	0.0699	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
3 & 4 Methylphenol	ND		0.389	0.0736	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
3,3'-Dichlorobenzidine	ND		0.389	0.0642	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
3-Nitroaniline	ND		0.389	0.0348	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4,6-Dinitro-2-methylphenol	ND		0.389	0.0699	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Bromophenyl phenyl ether	ND		0.389	0.0439	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Chloro-3-methylphenol	ND		0.389	0.0761	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Chloroaniline	ND		0.197	0.0298	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Chlorophenyl phenyl ether	ND		0.389	0.0416	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Nitroaniline	ND		0.197	0.0621	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Nitrophenol	ND		0.389	0.135	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Acenaphthene	ND		0.0786	0.0627	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Acenaphthylene	ND		0.0786	0.0516	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Acetophenone	ND		0.197	0.0480	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Aniline	ND		0.389	0.0298	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Anthracene	ND		0.0786	0.0455	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Azobenzene/Diphenyldiazene	ND		0.389	0.0663	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzidine	ND	F1 F2	0.778	0.115	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[a]anthracene	ND		0.0786	0.0442	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[a]pyrene	ND		0.0786	0.0562	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[b]fluoranthene	ND		0.0786	0.0652	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[g,h,i]perylene	ND		0.0786	0.0614	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[k]fluoranthene	ND		0.0786	0.0611	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzoic acid	**1.35**	**F1**	0.389	0.267	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzyl alcohol	ND		0.389	0.0705	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Bis(2-chloroethoxy)methane	ND		0.389	0.0676	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Bis(2-chloroethyl)ether	ND		0.197	0.0643	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
bis (2-chloroisopropyl) ether	ND		0.197	0.0875	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Bis(2-ethylhexyl) phthalate	ND		0.197	0.0501	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Butyl benzyl phthalate	ND		0.389	0.0390	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Carbazole	ND		0.197	0.0515	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Chrysene	ND		0.0786	0.0444	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Dibenz(a,h)anthracene	ND		0.0786	0.0600	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Dibenzofuran	ND		0.197	0.0681	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Diethyl phthalate	ND		0.389	0.0426	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Dimethyl phthalate	ND		0.389	0.0507	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Di-n-butyl phthalate	ND		0.389	0.0416	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Di-n-octyl phthalate	ND		0.389	0.0642	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Fluoranthene	ND		0.0786	0.0461	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Fluorene	ND		0.0786	0.0717	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Hexachlorobenzene	ND		0.197	0.0545	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Hexachlorobutadiene	ND		0.197	0.0981	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.197	0.0752	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Hexachloroethane	ND		0.197	0.0773	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0786	0.0667	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Isophorone	ND		0.197	0.0538	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Naphthalene	ND		0.0786	0.0754	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Nitrobenzene	ND		0.197	0.0908	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
N-Nitrosodimethylamine	ND		0.197	0.0516	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
N-Nitrosodi-n-propylamine	ND		0.197	0.0783	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
N-Nitrosodiphenylamine	ND		0.389	0.0496	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pentachloronitrobenzene	ND		0.389	0.0614	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pentachlorophenol	**0.327**	**J B**	0.389	0.159	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Phenanthrene	ND		0.0786	0.0445	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Phenol	ND		0.389	0.0801	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pyrene	ND		0.0786	0.0434	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pyridine	ND		0.389	0.0920	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
2-Fluorophenol (Surr)	*101*		*15 - 110*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
Phenol-d5 (Surr)	*90*		*15 - 110*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/15/23 09:29*	*03/15/23 19:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.263	0.135	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.263	0.113	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Ethylbenzene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Methyl tert-butyl ether	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Naphthalene	**0.0380**	**J B**	0.0526	0.0357	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
o-Xylene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Toluene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
C5-C8 Aliphatics (unadjusted)	ND		0.263	0.135	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
C9-C10 Aromatics	ND		0.263	0.0368	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
C9-C12 Aliphatics (unadjusted)	ND		0.263	0.113	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/09/23 07:17*	*03/09/23 10:21*	*1*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*	*03/09/23 07:17*	*03/09/23 10:21*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1221	ND		0.0232	0.00685	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1232	ND		0.0232	0.00643	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0232	0.00367	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1248	ND		0.0232	0.00725	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1254	**0.0557**		0.0232	0.0180	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1262	ND		0.0232	0.00540	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1260	ND		0.0232	0.00499	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1268	ND		0.0232	0.00494	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoroheptanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorononanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorodecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorotridecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorotetradecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorobutanesulfonic acid	ND		2.33	0.467	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorohexanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NEtFOSAA	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NMeFOSAA	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
10:2 FTS	ND		2.33	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoropentanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoroheptanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorononanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorodecanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctanesulfonamide	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorohexadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorobutanoic acid	ND		2.33	0.933	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoropentanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NMeFOSE	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NMeFOSA	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NEtFOSE	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NEtFOSA	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
HFPODA	ND		2.33	1.17	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
DONA	ND		3.50	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
9Cl-PF3ONS	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
11Cl-PF3OUdS	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorododecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoroundecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.50	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
M2-8:2 FTS	*110*		*15 - 200*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
M2-6:2 FTS	*138*		*10 - 200*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C5 PFHxA	*126*		*10 - 174*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C8 PFOA	*124*		*26 - 159*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C6 PFDA	*111*		*26 - 161*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C7 PFUnA	*126*		*12 - 173*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C2 PFTeDA	*110*		*10 - 169*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C3 PFBS	*112*		*27 - 179*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C3 PFHxS	*118*		*24 - 171*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C8 PFOS	*115*		*41 - 154*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d3-NMeFOSAA	*74*		*10 - 178*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d5-NEtFOSAA	*110*		*10 - 193*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C8 FOSA	*101*		*14 - 163*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C4 PFBA	*121*		*28 - 153*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C5 PFPeA	*115*		*24 - 161*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d7-N-MeFOSE-M	*95*		*10 - 179*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d3-NMePFOSA	*75*		*10 - 175*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d5-NEtPFOSA	*73*		*10 - 180*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C3 HFPO-DA	*118*		*10 - 169*	*03/07/23 22:50*	*03/22/23 11:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.99	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Arsenic	**1.43**	**J**	2.40	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Barium	**26.3**	**F2**	0.399	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Beryllium	**0.285**	**J**	0.399	0.0799	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Cadmium	ND		0.399	0.0799	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Chromium	**5.42**		1.20	0.280	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Lead	**4.16**		1.20	0.479	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Nickel	**2.81**		0.799	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Selenium	ND	F2	3.99	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Silver	ND	^3+	0.799	0.319	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Vanadium	**6.68**		0.799	0.343	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Zinc	**44.1**		1.60	0.639	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0659	0.0220	mg/Kg	☼	03/07/23 20:58	03/08/23 12:03	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0406'
Date Collected: 03/03/23 13:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-43
Matrix: Solid
Percent Solids: 84.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.0		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	84.0		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0608'
Date Collected: 03/03/23 13:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-44
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00540	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Acetone	**0.0179**	**J B**	0.0540	0.0121	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Acrylonitrile	ND		0.00540	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Benzene	ND		0.00540	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromobenzene	ND		0.00540	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromochloromethane	ND		0.00540	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromodichloromethane	ND		0.00540	0.00396	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromoform	ND		0.00540	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromomethane	ND	*+	0.0108	0.00673	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2-Butanone (MEK)	ND		0.0108	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
n-Butylbenzene	ND		0.0108	0.00579	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
sec-Butylbenzene	ND		0.00540	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
tert-Butylbenzene	ND		0.00540	0.00425	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Carbon disulfide	ND		0.0108	0.00379	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Carbon tetrachloride	ND		0.00540	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chlorobenzene	ND		0.00540	0.00395	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chloroethane	ND		0.0108	0.00396	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chloroform	ND		0.00540	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chloromethane	ND		0.0108	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2-Chlorotoluene	ND		0.00540	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
4-Chlorotoluene	ND		0.00540	0.00469	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dibromo-3-Chloropropane	ND		0.0108	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Dibromochloromethane	ND		0.00540	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dibromoethane (EDB)	ND		0.00540	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Dibromomethane	ND		0.00540	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dichlorobenzene	ND		0.00540	0.00501	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3-Dichlorobenzene	ND		0.00540	0.00433	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,4-Dichlorobenzene	ND		0.00540	0.00512	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Dichlorodifluoromethane (Freon 12)	ND		0.0108	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1-Dichloroethane	ND		0.00540	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dichloroethane	ND		0.00540	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1-Dichloroethene	ND		0.00540	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
cis-1,2-Dichloroethene	ND		0.00540	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
trans-1,2-Dichloroethene	ND		0.00540	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dichloropropane	ND		0.00540	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3-Dichloropropane	ND		0.00540	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2,2-Dichloropropane	ND		0.00540	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1-Dichloropropene	ND		0.00540	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
cis-1,3-Dichloropropene	ND		0.00540	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
trans-1,3-Dichloropropene	ND		0.00540	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethylbenzene	ND		0.00540	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Hexachlorobutadiene	ND		0.0108	0.00543	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2-Hexanone (MBK)	ND		0.0108	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Isopropylbenzene	ND		0.00540	0.00408	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
4-Isopropyltoluene	ND		0.00540	0.00530	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Methyl tert-butyl ether	ND		0.00540	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.0108	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Methylene Chloride	**0.00665**	**J B**	0.0108	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Naphthalene	ND		0.00540	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00540	0.00457	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Styrene	ND		0.00540	0.00418	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,1,2-Tetrachloroethane	ND		0.00540	0.00405	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,2,2-Tetrachloroethane	ND		0.00540	0.00494	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Tetrachloroethene	ND		0.00540	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Toluene	ND		0.00540	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,3-Trichlorobenzene	ND		0.00540	0.00456	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,4-Trichlorobenzene	ND		0.00540	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3,5-Trichlorobenzene	ND		0.00540	0.00513	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,1-Trichloroethane	ND		0.00540	0.00368	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,2-Trichloroethane	ND		0.00540	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Trichloroethene	ND		0.00540	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Trichlorofluoromethane (Freon 11)	ND		0.00540	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,3-Trichloropropane	ND		0.00540	0.00479	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,4-Trimethylbenzene	ND		0.00540	0.00457	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3,5-Trimethylbenzene	ND		0.00540	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Vinyl chloride	ND		0.00540	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
m,p-Xylene	ND		0.00540	0.00737	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
o-Xylene	ND		0.00540	0.00394	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Tetrahydrofuran	ND		0.0108	0.00273	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethyl ether	ND		0.00540	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Tert-amyl methyl ether	ND		0.00540	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethyl tert-butyl ether	ND		0.00540	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
di-Isopropyl ether	ND		0.00540	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
tert-Butanol	ND		0.108	0.0289	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,4-Dioxane	ND		0.108	0.0336	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
trans-1,4-Dichloro-2-butene	ND		0.0270	0.00398	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethanol	ND		1.08	0.0669	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3-Dichloropropene, Total	ND		0.00540	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Xylenes, Total	ND		0.0162	0.00540	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.385	0.0686	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,2,4-Trichlorobenzene	ND		0.385	0.0883	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,2-Dichlorobenzene	ND		0.385	0.0743	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,3-Dichlorobenzene	ND		0.385	0.0933	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,4-Dichlorobenzene	ND		0.385	0.0907	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1-Methylnaphthalene	ND		0.0779	0.0654	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4,5-Trichlorophenol	ND		0.385	0.0441	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4,6-Trichlorophenol	ND		0.195	0.0477	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4-Dichlorophenol	ND		0.195	0.0777	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4-Dimethylphenol	ND		0.385	0.0565	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4-Dinitrophenol	ND		0.385	0.101	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0608'
Date Collected: 03/03/23 13:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-44
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,6-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Chloronaphthalene	ND		0.385	0.0891	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Chlorophenol	ND		0.195	0.0798	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Methylnaphthalene	ND		0.0779	0.0576	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Methylphenol	ND		0.385	0.0563	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Nitroaniline	ND		0.385	0.0367	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Nitrophenol	ND		0.195	0.0693	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
3 & 4 Methylphenol	ND		0.385	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
3,3'-Dichlorobenzidine	ND		0.385	0.0637	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
3-Nitroaniline	ND		0.385	0.0345	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4,6-Dinitro-2-methylphenol	ND		0.385	0.0693	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Bromophenyl phenyl ether	ND		0.385	0.0436	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Chloro-3-methylphenol	ND		0.385	0.0754	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Chloroaniline	ND		0.195	0.0295	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Chlorophenyl phenyl ether	ND		0.385	0.0412	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Nitroaniline	ND		0.195	0.0615	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Nitrophenol	ND		0.385	0.134	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Acenaphthene	ND		0.0779	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Acenaphthylene	ND		0.0779	0.0512	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Acetophenone	ND		0.195	0.0475	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Aniline	ND		0.385	0.0295	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Anthracene	ND		0.0779	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Azobenzene/Diphenyldiazene	ND		0.385	0.0658	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzidine	ND		0.771	0.114	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[a]anthracene	ND		0.0779	0.0438	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[a]pyrene	ND		0.0779	0.0557	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[b]fluoranthene	ND		0.0779	0.0646	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[g,h,i]perylene	ND		0.0779	0.0608	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[k]fluoranthene	ND		0.0779	0.0606	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzoic acid	ND		0.385	0.265	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzyl alcohol	ND		0.385	0.0698	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Bis(2-chloroethoxy)methane	ND		0.385	0.0670	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Bis(2-chloroethyl)ether	ND		0.195	0.0638	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
bis (2-chloroisopropyl) ether	ND		0.195	0.0868	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Bis(2-ethylhexyl) phthalate	ND		0.195	0.0496	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Butyl benzyl phthalate	ND		0.385	0.0387	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Carbazole	ND		0.195	0.0510	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Chrysene	ND		0.0779	0.0440	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Dibenz(a,h)anthracene	ND		0.0779	0.0594	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Dibenzofuran	ND		0.195	0.0675	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Diethyl phthalate	ND		0.385	0.0423	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Dimethyl phthalate	ND		0.385	0.0502	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Di-n-butyl phthalate	ND		0.385	0.0412	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Di-n-octyl phthalate	ND		0.385	0.0637	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Fluoranthene	ND		0.0779	0.0457	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Fluorene	ND		0.0779	0.0711	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Hexachlorobenzene	ND		0.195	0.0541	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Hexachlorobutadiene	ND		0.195	0.0973	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.195	0.0745	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Hexachloroethane	ND		0.195	0.0766	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0779	0.0661	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Isophorone	ND		0.195	0.0534	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Naphthalene	ND		0.0779	0.0747	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Nitrobenzene	ND		0.195	0.0900	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
N-Nitrosodimethylamine	ND		0.195	0.0512	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
N-Nitrosodi-n-propylamine	ND		0.195	0.0777	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
N-Nitrosodiphenylamine	ND		0.385	0.0492	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pentachloronitrobenzene	ND		0.385	0.0608	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pentachlorophenol	ND		0.385	0.158	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Phenanthrene	ND		0.0779	0.0441	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Phenol	ND		0.385	0.0794	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pyrene	ND		0.0779	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pyridine	ND		0.385	0.0912	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
Nitrobenzene-d5 (Surr)	*89*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:45*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Ethylbenzene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Methyl tert-butyl ether	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
m,p-Xylene	ND		0.0972	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Naphthalene	ND		0.0486	0.0330	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
o-Xylene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Toluene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:16*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1221	ND		0.0223	0.00659	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1232	ND		0.0223	0.00618	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1248	ND		0.0223	0.00697	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1254	ND		0.0223	0.0173	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1262	ND		0.0223	0.00520	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1260	ND		0.0223	0.00479	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1268	ND		0.0223	0.00475	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoroheptanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorononanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorodecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorotridecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorotetradecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorobutanesulfonic acid	ND		2.30	0.459	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorohexanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NEtFOSAA	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NMeFOSAA	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
10:2 FTS	ND		2.30	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoropentanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoroheptanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorononanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorodecanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctanesulfonamide	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorohexadecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctadecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorobutanoic acid	ND		2.30	0.918	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoropentanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NMeFOSE	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NMeFOSA	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NEtFOSE	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NEtFOSA	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
HFPODA	ND		2.30	1.15	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
DONA	ND		3.44	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
9Cl-PF3ONS	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
11Cl-PF3OUdS	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorododecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
4:2 Fluorotelomer sulfonic acid	ND		2.30	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoroundecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.30	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
M2-8:2 FTS	*130*		*15 - 200*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C5 PFHxA	*133*		*10 - 174*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C4 PFHpA	*132*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C8 PFOA	*142*		*26 - 159*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C9 PFNA	*127*		*26 - 165*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C6 PFDA	*126*		*26 - 161*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C2-PFDoDA	*128*		*11 - 166*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C2 PFTeDA	*150*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C3 PFBS	*132*		*27 - 179*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C3 PFHxS	*136*		*24 - 171*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C8 PFOS	*132*		*41 - 154*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d3-NMeFOSAA	*120*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d5-NEtFOSAA	*112*		*10 - 193*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C8 FOSA	*136*		*14 - 163*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C4 PFBA	*141*		*28 - 153*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C5 PFPeA	*129*		*24 - 161*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d5-NEtPFOSA	*79*		*10 - 180*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C3 HFPO-DA	*160*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:18*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.09	1.73	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Arsenic	ND		3.05	1.43	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Barium	**27.4**		0.509	0.153	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Beryllium	**0.243**	**J**	0.509	0.102	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Cadmium	ND		0.509	0.102	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Chromium	**4.65**		1.53	0.356	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Lead	**2.90**		1.53	0.611	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Nickel	**3.58**		1.02	0.265	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Selenium	ND		5.09	1.53	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Silver	ND	^3+	1.02	0.407	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Thallium	ND		3.05	1.32	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Vanadium	**6.57**		1.02	0.438	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Zinc	**19.2**		2.04	0.815	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0703	0.0234	mg/Kg	☼	03/07/23 13:21	03/08/23 11:10	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0608'
Date Collected: 03/03/23 13:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-44
Matrix: Solid
Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00435	0.00284	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Acetone	ND		0.0435	0.00975	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Acrylonitrile	ND		0.00435	0.00261	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Benzene	ND		0.00435	0.00291	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromobenzene	ND		0.00435	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromochloromethane	ND		0.00435	0.00247	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromodichloromethane	ND		0.00435	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromoform	ND		0.00435	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromomethane	ND	*+	0.00871	0.00543	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2-Butanone (MEK)	ND		0.00871	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
n-Butylbenzene	ND		0.00871	0.00467	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
sec-Butylbenzene	ND		0.00435	0.00351	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
tert-Butylbenzene	ND		0.00435	0.00343	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Carbon disulfide	ND		0.00871	0.00306	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Carbon tetrachloride	ND		0.00435	0.00274	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chlorobenzene	ND		0.00435	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chloroethane	ND	*+	0.00871	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chloroform	ND		0.00435	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chloromethane	ND		0.00871	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2-Chlorotoluene	ND		0.00435	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
4-Chlorotoluene	ND		0.00435	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00871	0.00369	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Dibromochloromethane	ND		0.00435	0.00288	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dibromoethane (EDB)	ND		0.00435	0.00313	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Dibromomethane	ND		0.00435	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dichlorobenzene	ND		0.00435	0.00404	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3-Dichlorobenzene	ND		0.00435	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,4-Dichlorobenzene	ND		0.00435	0.00413	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.00871	0.00233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1-Dichloroethane	ND		0.00435	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dichloroethane	ND		0.00435	0.00294	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1-Dichloroethene	ND		0.00435	0.00267	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
cis-1,2-Dichloroethene	ND		0.00435	0.00252	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
trans-1,2-Dichloroethene	ND		0.00435	0.00271	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dichloropropane	ND		0.00435	0.00288	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3-Dichloropropane	ND		0.00435	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2,2-Dichloropropane	ND		0.00435	0.00300	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1-Dichloropropene	ND		0.00435	0.00296	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
cis-1,3-Dichloropropene	ND		0.00435	0.00284	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
trans-1,3-Dichloropropene	ND		0.00435	0.00331	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethylbenzene	ND		0.00435	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Hexachlorobutadiene	ND		0.00871	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2-Hexanone (MBK)	ND		0.00871	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Isopropylbenzene	ND		0.00435	0.00329	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
4-Isopropyltoluene	ND		0.00435	0.00428	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Methyl tert-butyl ether	ND		0.00435	0.00251	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00871	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Methylene Chloride	ND		0.00871	0.00233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Naphthalene	ND		0.00435	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00435	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Styrene	ND		0.00435	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,1,2-Tetrachloroethane	ND		0.00435	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,2,2-Tetrachloroethane	ND		0.00435	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Tetrachloroethene	ND		0.00435	0.00242	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Toluene	ND		0.00435	0.00276	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,3-Trichlorobenzene	ND		0.00435	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,4-Trichlorobenzene	ND		0.00435	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3,5-Trichlorobenzene	ND		0.00435	0.00414	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,1-Trichloroethane	ND		0.00435	0.00297	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,2-Trichloroethane	ND		0.00435	0.00328	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Trichloroethene	ND		0.00435	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00435	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,3-Trichloropropane	ND		0.00435	0.00387	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,4-Trimethylbenzene	ND		0.00435	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3,5-Trimethylbenzene	ND		0.00435	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Vinyl chloride	ND		0.00435	0.00266	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
m,p-Xylene	ND		0.00435	0.00595	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
o-Xylene	ND		0.00435	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Tetrahydrofuran	ND		0.00871	0.00220	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethyl ether	ND		0.00435	0.00229	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Tert-amyl methyl ether	ND		0.00435	0.00344	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethyl tert-butyl ether	ND		0.00435	0.00287	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
di-Isopropyl ether	ND		0.00435	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
tert-Butanol	ND		0.0871	0.0233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,4-Dioxane	ND		0.0871	0.0271	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
trans-1,4-Dichloro-2-butene	ND		0.0218	0.00321	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethanol	ND		0.871	0.0540	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3-Dichloropropene, Total	ND		0.00435	0.00331	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Xylenes, Total	ND		0.0131	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0668	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,2,4-Trichlorobenzene	ND		0.375	0.0860	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,2-Dichlorobenzene	ND		0.375	0.0724	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,3-Dichlorobenzene	ND		0.375	0.0909	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,4-Dichlorobenzene	ND		0.375	0.0884	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1-Methylnaphthalene	ND		0.0759	0.0637	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4,5-Trichlorophenol	ND		0.375	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4-Dichlorophenol	ND		0.190	0.0757	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4-Dimethylphenol	ND		0.375	0.0551	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4-Dinitrophenol	ND		0.375	0.0988	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Chloronaphthalene	ND		0.375	0.0868	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Chlorophenol	ND		0.190	0.0777	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Methylnaphthalene	ND		0.0759	0.0561	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Methylphenol	ND		0.375	0.0548	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Nitroaniline	ND		0.375	0.0357	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Nitrophenol	ND		0.190	0.0675	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
3 & 4 Methylphenol	ND		0.375	0.0711	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
3,3'-Dichlorobenzidine	ND		0.375	0.0620	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
3-Nitroaniline	ND		0.375	0.0336	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0675	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Bromophenyl phenyl ether	ND		0.375	0.0424	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Chloro-3-methylphenol	ND		0.375	0.0735	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Nitroaniline	ND		0.190	0.0600	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Acenaphthene	ND		0.0759	0.0605	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Acenaphthylene	ND		0.0759	0.0498	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Aniline	ND		0.375	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Anthracene	ND		0.0759	0.0439	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0641	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzidine	ND		0.751	0.111	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[a]anthracene	ND		0.0759	0.0427	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[a]pyrene	ND		0.0759	0.0543	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[b]fluoranthene	ND		0.0759	0.0629	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[g,h,i]perylene	ND		0.0759	0.0593	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[k]fluoranthene	ND		0.0759	0.0591	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzoic acid	ND		0.375	0.258	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzyl alcohol	ND		0.375	0.0680	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0653	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Bis(2-chloroethyl)ether	ND		0.190	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0845	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Butyl benzyl phthalate	ND		0.375	0.0377	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Chrysene	ND		0.0759	0.0429	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Dibenz(a,h)anthracene	ND		0.0759	0.0579	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Dibenzofuran	ND		0.190	0.0658	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Diethyl phthalate	ND		0.375	0.0412	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Dimethyl phthalate	ND		0.375	0.0489	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Di-n-butyl phthalate	ND		0.375	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Di-n-octyl phthalate	ND		0.375	0.0620	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Fluoranthene	ND		0.0759	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Fluorene	ND		0.0759	0.0693	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Hexachlorobenzene	ND		0.190	0.0527	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Hexachlorobutadiene	ND		0.190	0.0948	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1

Client Sample ID: 2023-SB-05-0810' **Lab Sample ID: 620-10117-45**
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0726	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Hexachloroethane	ND		0.190	0.0746	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0759	0.0644	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Isophorone	ND		0.190	0.0520	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Naphthalene	ND		0.0759	0.0728	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Nitrobenzene	ND		0.190	0.0877	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
N-Nitrosodimethylamine	ND		0.190	0.0498	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0757	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
N-Nitrosodiphenylamine	ND		0.375	0.0479	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pentachloronitrobenzene	ND		0.375	0.0593	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pentachlorophenol	ND		0.375	0.154	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Phenanthrene	ND		0.0759	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Phenol	ND		0.375	0.0774	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pyrene	ND		0.0759	0.0419	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pyridine	ND		0.375	0.0889	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*15 - 110*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/15/23 09:29*	*03/16/23 22:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.247	0.126	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.247	0.106	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Ethylbenzene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Methyl tert-butyl ether	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
m,p-Xylene	ND		0.0987	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Naphthalene	ND		0.0493	0.0336	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
o-Xylene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Toluene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
C5-C8 Aliphatics (unadjusted)	ND		0.247	0.126	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
C9-C10 Aromatics	ND		0.247	0.0345	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
C9-C12 Aliphatics (unadjusted)	ND		0.247	0.106	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:55*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:55*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1221	ND		0.0223	0.00660	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1232	ND		0.0223	0.00618	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1

Client Sample ID: 2023-SB-05-0810' **Lab Sample ID: 620-10117-45**
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00353	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1248	ND		0.0223	0.00698	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1254	ND		0.0223	0.0174	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1262	ND		0.0223	0.00520	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1260	ND		0.0223	0.00480	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1268	ND		0.0223	0.00476	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*
Tetrachloro-m-xylene	*47*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*
DCB Decachlorobiphenyl (Surr)	*43*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*
DCB Decachlorobiphenyl (Surr)	*35*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoroheptanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorononanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorodecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorotridecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorotetradecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorobutanesulfonic acid	ND		2.22	0.444	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorohexanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
10:2 FTS	ND		2.22	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoropentanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoroheptanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorononanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorodecanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctanesulfonamide	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorohexadecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctadecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorobutanoic acid	ND		2.22	0.888	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoropentanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NMeFOSE	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NMeFOSA	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NEtFOSE	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NEtFOSA	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
DONA	ND		3.33	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
11Cl-PF3OUdS	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorododecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoroundecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1

Client Sample ID: 2023-SB-05-0810' **Lab Sample ID: 620-10117-45**
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
8:2 Fluorotelomer sulfonic acid	ND		3.33	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
M2-8:2 FTS	*140*		*15 - 200*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
M2-6:2 FTS	*123*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C5 PFHxA	*140*		*10 - 174*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C4 PFHpA	*147*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C8 PFOA	*148*		*26 - 159*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C9 PFNA	*151*		*26 - 165*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C6 PFDA	*137*		*26 - 161*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C2-PFDoDA	*127*		*11 - 166*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C2 PFTeDA	*142*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C3 PFBS	*147*		*27 - 179*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C3 PFHxS	*147*		*24 - 171*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C8 PFOS	*149*		*41 - 154*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d3-NMeFOSAA	*122*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d5-NEtFOSAA	*119*		*10 - 193*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C8 FOSA	*137*		*14 - 163*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C4 PFBA	*153*		*28 - 153*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C5 PFPeA	*149*		*24 - 161*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d7-N-MeFOSE-M	*120*		*10 - 179*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d9-N-EtFOSE-M	*121*		*10 - 185*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d5-NEtPFOSA	*111*		*10 - 180*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C3 HFPO-DA	*151*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.96	1.35	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Arsenic	**1.54**	**J**	2.38	1.11	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Barium	**33.6**		0.396	0.119	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Beryllium	**0.276**	**J**	0.396	0.0793	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Cadmium	ND		0.396	0.0793	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Chromium	**5.74**		1.19	0.277	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Lead	**2.77**		1.19	0.476	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Nickel	**4.37**		0.793	0.206	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Selenium	ND		3.96	1.19	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Silver	ND	^3+	0.793	0.317	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Thallium	ND		2.38	1.03	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Vanadium	**8.82**		0.793	0.341	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Zinc	**17.1**		1.59	0.634	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0666	0.0222	mg/Kg	☼	03/07/23 13:21	03/08/23 11:26	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.2		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	85.8		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-1012'
Date Collected: 03/03/23 13:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-46
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00483	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Acetone	ND		0.0483	0.0108	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Acrylonitrile	ND		0.00483	0.00290	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Benzene	ND		0.00483	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromobenzene	ND		0.00483	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromochloromethane	ND		0.00483	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromodichloromethane	ND		0.00483	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromoform	ND		0.00483	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromomethane	ND	*+	0.00967	0.00602	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2-Butanone (MEK)	ND		0.00967	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
n-Butylbenzene	ND		0.00967	0.00518	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
sec-Butylbenzene	ND		0.00483	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
tert-Butylbenzene	ND		0.00483	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Carbon disulfide	ND		0.00967	0.00339	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Carbon tetrachloride	ND		0.00483	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chlorobenzene	ND		0.00483	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chloroethane	ND		0.00967	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chloroform	ND		0.00483	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chloromethane	ND		0.00967	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2-Chlorotoluene	ND		0.00483	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
4-Chlorotoluene	ND		0.00483	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dibromo-3-Chloropropane	ND		0.00967	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Dibromochloromethane	ND		0.00483	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dibromoethane (EDB)	ND		0.00483	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Dibromomethane	ND		0.00483	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dichlorobenzene	ND		0.00483	0.00449	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3-Dichlorobenzene	ND		0.00483	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,4-Dichlorobenzene	ND		0.00483	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Dichlorodifluoromethane (Freon 12)	ND		0.00967	0.00259	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1-Dichloroethane	ND		0.00483	0.00328	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dichloroethane	ND		0.00483	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1-Dichloroethene	ND		0.00483	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
cis-1,2-Dichloroethene	ND		0.00483	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
trans-1,2-Dichloroethene	ND		0.00483	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dichloropropane	ND		0.00483	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3-Dichloropropane	ND		0.00483	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2,2-Dichloropropane	ND		0.00483	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1-Dichloropropene	ND		0.00483	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
cis-1,3-Dichloropropene	ND		0.00483	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
trans-1,3-Dichloropropene	ND		0.00483	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethylbenzene	ND		0.00483	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Hexachlorobutadiene	ND		0.00967	0.00486	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2-Hexanone (MBK)	ND		0.00967	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Isopropylbenzene	ND		0.00483	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
4-Isopropyltoluene	ND		0.00483	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Methyl tert-butyl ether	ND		0.00483	0.00278	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.00967	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Methylene Chloride	ND		0.00967	0.00259	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Naphthalene	ND		0.00483	0.00437	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Styrene	ND		0.00483	0.00374	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,1,2-Tetrachloroethane	ND		0.00483	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,2,2-Tetrachloroethane	ND		0.00483	0.00443	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Tetrachloroethene	ND		0.00483	0.00269	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Toluene	ND		0.00483	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,3-Trichlorobenzene	ND		0.00483	0.00408	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,4-Trichlorobenzene	ND		0.00483	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3,5-Trichlorobenzene	ND		0.00483	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,1-Trichloroethane	ND		0.00483	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,2-Trichloroethane	ND		0.00483	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Trichloroethene	ND		0.00483	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Trichlorofluoromethane (Freon 11)	ND		0.00483	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,3-Trichloropropane	ND		0.00483	0.00429	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,4-Trimethylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3,5-Trimethylbenzene	ND		0.00483	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Vinyl chloride	ND		0.00483	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
m,p-Xylene	ND		0.00483	0.00660	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
o-Xylene	ND		0.00483	0.00353	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Tetrahydrofuran	ND		0.00967	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethyl ether	ND		0.00483	0.00254	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Tert-amyl methyl ether	ND		0.00483	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethyl tert-butyl ether	ND		0.00483	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
di-Isopropyl ether	ND		0.00483	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
tert-Butanol	ND		0.0967	0.0259	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,4-Dioxane	ND		0.0967	0.0301	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethanol	ND		0.967	0.0599	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3-Dichloropropene, Total	ND		0.00483	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Xylenes, Total	ND		0.0145	0.00483	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.391	0.0695	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,2,4-Trichlorobenzene	ND		0.391	0.0895	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,2-Dichlorobenzene	ND		0.391	0.0753	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,3-Dichlorobenzene	ND		0.391	0.0946	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,4-Dichlorobenzene	ND		0.391	0.0920	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1-Methylnaphthalene	ND		0.0790	0.0663	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4,5-Trichlorophenol	ND		0.391	0.0448	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4,6-Trichlorophenol	ND		0.198	0.0483	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4-Dichlorophenol	ND		0.198	0.0788	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4-Dimethylphenol	ND		0.391	0.0573	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4-Dinitrophenol	ND		0.391	0.103	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-1012'
Date Collected: 03/03/23 13:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-46
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,6-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Chloronaphthalene	ND		0.391	0.0904	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Chlorophenol	ND		0.198	0.0809	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Methylnaphthalene	ND		0.0790	0.0584	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Methylphenol	ND		0.391	0.0571	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Nitroaniline	ND		0.391	0.0372	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Nitrophenol	ND		0.198	0.0702	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
3 & 4 Methylphenol	ND		0.391	0.0740	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
3,3'-Dichlorobenzidine	ND		0.391	0.0646	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
3-Nitroaniline	ND		0.391	0.0349	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4,6-Dinitro-2-methylphenol	ND		0.391	0.0702	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Bromophenyl phenyl ether	ND		0.391	0.0442	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Chloro-3-methylphenol	ND		0.391	0.0765	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Chloroaniline	ND		0.198	0.0300	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Chlorophenyl phenyl ether	ND		0.391	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Nitroaniline	ND		0.198	0.0624	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Nitrophenol	ND		0.391	0.136	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Acenaphthene	ND		0.0790	0.0630	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Acenaphthylene	ND		0.0790	0.0519	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Acetophenone	ND		0.198	0.0482	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Aniline	ND		0.391	0.0300	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Anthracene	ND		0.0790	0.0457	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Azobenzene/Diphenyldiazene	ND		0.391	0.0667	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzidine	ND		0.782	0.116	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[a]anthracene	ND		0.0790	0.0444	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[a]pyrene	ND		0.0790	0.0565	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[b]fluoranthene	ND		0.0790	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[g,h,i]perylene	ND		0.0790	0.0617	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[k]fluoranthene	ND		0.0790	0.0615	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzoic acid	ND		0.391	0.269	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzyl alcohol	ND		0.391	0.0708	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Bis(2-chloroethoxy)methane	ND		0.391	0.0680	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Bis(2-chloroethyl)ether	ND		0.198	0.0647	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
bis (2-chloroisopropyl) ether	ND		0.198	0.0880	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Bis(2-ethylhexyl) phthalate	**0.111**	**J**	0.198	0.0503	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Butyl benzyl phthalate	ND		0.391	0.0392	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Carbazole	ND		0.198	0.0518	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Chrysene	ND		0.0790	0.0447	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Dibenz(a,h)anthracene	ND		0.0790	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Dibenzofuran	ND		0.198	0.0685	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Diethyl phthalate	ND		0.391	0.0429	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Dimethyl phthalate	ND		0.391	0.0509	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Di-n-butyl phthalate	ND		0.391	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Di-n-octyl phthalate	ND		0.391	0.0646	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Fluoranthene	ND		0.0790	0.0463	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Fluorene	ND		0.0790	0.0721	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Hexachlorobenzene	ND		0.198	0.0548	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Hexachlorobutadiene	ND		0.198	0.0987	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.198	0.0756	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Hexachloroethane	ND		0.198	0.0777	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0790	0.0670	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Isophorone	ND		0.198	0.0541	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Naphthalene	ND		0.0790	0.0758	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Nitrobenzene	ND		0.198	0.0913	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
N-Nitrosodimethylamine	ND		0.198	0.0519	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
N-Nitrosodi-n-propylamine	ND		0.198	0.0788	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
N-Nitrosodiphenylamine	ND		0.391	0.0499	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pentachloronitrobenzene	ND		0.391	0.0617	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pentachlorophenol	ND		0.391	0.160	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Phenanthrene	ND		0.0790	0.0448	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Phenol	ND		0.391	0.0805	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pyrene	ND		0.0790	0.0436	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pyridine	ND		0.391	0.0925	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*30 - 130*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
Phenol-d5 (Surr)	*88*		*15 - 110*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
Terphenyl-d14	*97*		*30 - 130*	*03/15/23 09:29*	*03/17/23 16:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.226	0.116	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.226	0.0966	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Ethylbenzene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Methyl tert-butyl ether	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
m,p-Xylene	ND		0.0903	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Naphthalene	ND		0.0451	0.0307	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
o-Xylene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Toluene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.226	0.116	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
C9-C10 Aromatics	ND		0.226	0.0316	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.226	0.0966	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 17:34*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 17:34*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0165	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1221	ND		0.0230	0.00679	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1232	ND		0.0230	0.00636	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00363	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1248	ND		0.0230	0.00718	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1254	**0.0354**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1262	ND		0.0230	0.00535	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1260	ND		0.0230	0.00494	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1268	ND		0.0230	0.00489	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoroheptanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorononanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorodecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorotridecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorotetradecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorobutanesulfonic acid	ND		2.20	0.439	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorohexanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NEtFOSAA	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NMeFOSAA	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
10:2 FTS	ND		2.20	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoropentanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoroheptanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorononanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorodecanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctanesulfonamide	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorohexadecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctadecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorobutanoic acid	ND		2.20	0.879	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoropentanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NMeFOSE	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NMeFOSA	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NEtFOSE	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NEtFOSA	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
HFPODA	ND		2.20	1.10	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
DONA	ND		3.30	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
9Cl-PF3ONS	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
11Cl-PF3OUdS	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorododecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
4:2 Fluorotelomer sulfonic acid	ND		2.20	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoroundecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.20	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
8:2 Fluorotelomer sulfonic acid	ND		3.30	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
M2-8:2 FTS	*134*		*15 - 200*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
M2-6:2 FTS	*132*		*10 - 200*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C5 PFHxA	*147*		*10 - 174*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C4 PFHpA	*140*		*10 - 178*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C8 PFOA	*142*		*26 - 159*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C9 PFNA	*146*		*26 - 165*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C6 PFDA	*148*		*26 - 161*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C2-PFDoDA	*135*		*11 - 166*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C2 PFTeDA	*156*		*10 - 169*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C3 PFBS	*135*		*27 - 179*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C3 PFHxS	*142*		*24 - 171*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C8 PFOS	*145*		*41 - 154*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d3-NMeFOSAA	*123*		*10 - 178*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d5-NEtFOSAA	*145*		*10 - 193*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C8 FOSA	*125*		*14 - 163*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C4 PFBA	*146*		*28 - 153*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C5 PFPeA	*138*		*24 - 161*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d7-N-MeFOSE-M	*121*		*10 - 179*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d3-NMePFOSA	*87*		*10 - 175*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d9-N-EtFOSE-M	*126*		*10 - 185*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d5-NEtPFOSA	*88*		*10 - 180*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C3 HFPO-DA	*160*		*10 - 169*	*03/19/23 19:30*	*03/21/23 11:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.60	1.56	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Arsenic	**1.85**	**J**	2.76	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Barium	**19.4**		0.460	0.138	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Beryllium	**0.235**	**J**	0.460	0.0920	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Cadmium	ND		0.460	0.0920	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Chromium	**4.84**		1.38	0.322	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Lead	**2.97**		1.38	0.552	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Nickel	**2.84**		0.920	0.239	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Selenium	ND		4.60	1.38	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Silver	ND	^3+	0.920	0.368	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Thallium	ND		2.76	1.20	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Vanadium	**5.78**		0.920	0.395	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Zinc	**15.0**		1.84	0.736	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0667	0.0222	mg/Kg	☼	03/07/23 13:21	03/08/23 11:24	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-1012'
Date Collected: 03/03/23 13:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-46
Matrix: Solid
Percent Solids: 84.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.7		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	84.3		0.1	0.1	%			03/06/23 11:52	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10117-1	2023-MW-06-0002'	95	103	95	100
620-10117-2	2023-MW-06-0204'	97	103	96	103
620-10117-3	2023-MW-06-0406'	98	102	93	101
620-10117-4	2023-MW-06-0608'	97	102	92	99
620-10117-5	2023-MW-06-0810'	96	103	94	102
620-10117-6	2023-MW-06-1012'	98	103	92	101
620-10117-7	2023-SB-08-0002'	89	102	93	106
620-10117-8	2023-SB-08-0204'	95	103	94	103
620-10117-9	2023-SB-08-0406'	98	102	94	103
620-10117-10	2023-SB-08-0608'	95	103	94	104
620-10117-11	2023-SB-08-0810'	95 *3	103 *3	116 *3	115 *3
620-10117-11 - RA	2023-SB-08-0810'	91 *3	101 *3	115 *3	120 *3
620-10117-12	2023-SB-08-1012'	78 *3	102 *3	150 S1+ *3	147 S1+ *3
620-10117-12 - RA	2023-SB-08-1012'	77 *3	99 *3	152 *3 S1+	153 *3 S1+
620-10117-13	2023-SB-12-0002'	95	102	93	103
620-10117-14	2023-SB-12-0204'	94	103	90	101
620-10117-15	2023-SB-12-0406'	94	102	90	100
620-10117-16	2023-SB-12-0608'	95	102	90	104
620-10117-17	2023-SB-12-0810'	97	103	96	103
620-10117-18	2023-SB-12-1012'	77 *3	96 *3	165 S1+ *3	154 S1+ *3
620-10117-18 - RA	2023-SB-12-1012'	70 *3	89 *3	158 *3 S1+	137 *3 S1+
620-10117-18 MS	2023-SB-12-1012'	102	105	85	104
620-10117-18 MSD	2023-SB-12-1012'	102	105	92	106
620-10117-19	2023-SB-07-0002'	96	103	93	98
620-10117-20	2023-SB-07-0204'	94	103	92	102
620-10117-21	2023-SB-07-0406'	84 *3	102 *3	131 S1+ *3	133 S1+ *3
620-10117-21 - RA	2023-SB-07-0406'	85 *3	105 *3	121 *3	125 *3
620-10117-22	2023-SB-07-0608'	100	101	96	103
620-10117-23	2023-SB-07-0810'	98	101	96	103
620-10117-24	2023-SB-07-1012'	98	102	93	101
620-10117-25	2023-MW-05-0002'	90	99	94	102
620-10117-26	2023-MW-05-0204'	89	100	95	104
620-10117-27	2023-MW-05-0608'	97	103	92	102
620-10117-28	2023-MW-05-0810'	95	102	93	104
620-10117-29	2023-MW-05-1012'	95	103	92	103
620-10117-30	2023-MW-05-0406'	77 *3	97	100	109
620-10117-30 - RA	2023-MW-05-0406'	83	101	99	108
620-10117-31	2023-FD-06	94	103	92	103
620-10117-32	2023-FD-07	95	104	92	104
620-10117-33	2023-SB-06-0002'	93	104	92	102
620-10117-34	2023-SB-06-0204'	96	103	95	104
620-10117-35	2023-SB-06-0406'	95	104	92	105
620-10117-36	2023-SB-06-0608'	96	103	91	104
620-10117-37	2023-SB-06-0810'	97	103	93	103
620-10117-38	2023-SB-06-1012'	95	104	91	105
620-10117-39	Trip Blank -05	96	102	91	103

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10117-40	Trip Blank -06	97	100	91	103
620-10117-41	2023-SB-05-0002'	68 S1-	95	95	107
620-10117-41 - RA	2023-SB-05-0002'	80	98	91	109
620-10117-42	2023-SB-05-0204'	94	104	94	104
620-10117-43	2023-SB-05-0406'	97	105	94	106
620-10117-43 MS	2023-SB-05-0406'	98	103	92	106
620-10117-43 MSD	2023-SB-05-0406'	101	104	92	106
620-10117-44	2023-SB-05-0608'	97	104	92	105
620-10117-45	2023-SB-05-0810'	98	102	90	104
620-10117-46	2023-SB-05-1012'	96	105	93	104
LCS 620-20327/1-A	Lab Control Sample	102	102	94	100
LCS 620-20360/1-A	Lab Control Sample	101	103	92	102
LCS 620-20408/1-A	Lab Control Sample	102	103	93	103
LCS 620-20432/1-A	Lab Control Sample	101	103	90	103
LCS 620-20472/1-A	Lab Control Sample	103	103	92	103
LCS 620-20516/1-A	Lab Control Sample	96	96	92	99
LCSD 620-20327/2-A	Lab Control Sample Dup	101	101	94	99
LCSD 620-20360/2-A	Lab Control Sample Dup	103	102	94	101
LCSD 620-20408/2-A	Lab Control Sample Dup	102	103	93	101
LCSD 620-20432/2-A	Lab Control Sample Dup	101	102	90	102
LCSD 620-20472/2-A	Lab Control Sample Dup	103	103	93	103
LCSD 620-20516/2-A	Lab Control Sample Dup	96	95	92	98
MB 620-20327/3-A	Method Blank	100	101	94	99
MB 620-20360/3-A	Method Blank	100	103	94	102
MB 620-20408/3-A	Method Blank	98	103	94	101
MB 620-20432/3-A	Method Blank	100	101	92	102
MB 620-20472/3-A	Method Blank	100	102	94	106
MB 620-20516/3-A	Method Blank	93	95	95	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10117-1	2023-MW-06-0002'	71	89	78	82	82	78
620-10117-2	2023-MW-06-0204'	77	98	82	85	74	82
620-10117-3	2023-MW-06-0406'	77	100	78	85	74	83
620-10117-4	2023-MW-06-0608'	81	105	86	91	76	84
620-10117-5	2023-MW-06-0810'	91	115 S1+	96	101	85	88
620-10117-6	2023-MW-06-1012'	87	109	79	97	83	88
620-10117-7	2023-SB-08-0002'	79	87	85	57	71	85
620-10117-8	2023-SB-08-0204'	88	108	94	97	82	93
620-10117-9	2023-SB-08-0406'	74	95	81	83	77	80
620-10117-10	2023-SB-08-0608'	86	99	80	90	79	94

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10117-11	2023-SB-08-0810'	82	99	83	89	68	87
620-10117-12	2023-SB-08-1012'	84	102	86	93	78	94
620-10117-13	2023-SB-12-0002'	70	20	76	21	37	74
620-10117-13	2023-SB-12-0002'	52	66	59	37	101	50
620-10117-14	2023-SB-12-0204'	77	87	85	61	59	85
620-10117-15	2023-SB-12-0406'	78	93	81	63	67	88
620-10117-16	2023-SB-12-0608'	77	92	89	62	69	89
620-10117-17	2023-SB-12-0810'	83	108	105	72	80	99
620-10117-18	2023-SB-12-1012'	62	74	52	50	70	92
620-10117-18 MS	2023-SB-12-1012'	86	86	86	83	92	88
620-10117-18 MSD	2023-SB-12-1012'	79	81	79	75	85	84
620-10117-19	2023-SB-07-0002'	84	77	83	63	51	99
620-10117-19	2023-SB-07-0002'	70	73	73	57	57	77
620-10117-20	2023-SB-07-0204'	82	101	87	69	72	83
620-10117-21	2023-SB-07-0406'	81	89	83	78	80	79
620-10117-21	2023-SB-07-0406'	55	60	58	62	80	48
620-10117-22	2023-SB-07-0608'	89	106	86	94	90	94
620-10117-23	2023-SB-07-0810'	84	106	94	93	82	98
620-10117-24	2023-SB-07-1012'	92	110	80	97	89	102
620-10117-25	2023-MW-05-0002'	75	76	75	65	71	66
620-10117-25	2023-MW-05-0002'	65	71	67	67	68	67
620-10117-26	2023-MW-05-0204'	78	88	79	73	70	83
620-10117-27	2023-MW-05-0608'	84	106	88	88	82	95
620-10117-28	2023-MW-05-0810'	80	102	85	87	86	101
620-10117-29	2023-MW-05-1012'	94	106	86	98	86	101
620-10117-30	2023-MW-05-0406'	73	90	72	76	76	77
620-10117-31	2023-FD-06	62	80	68	59	66	62
620-10117-31	2023-FD-06	82	108	85	94	86	79
620-10117-32	2023-FD-07	84	108	80	86	77	100
620-10117-33	2023-SB-06-0002'	60	76	68	69	75	64
620-10117-34	2023-SB-06-0204'	87	65	75	56	70	92
620-10117-34	2023-SB-06-0204'	57	68	62	59	84	56
620-10117-35	2023-SB-06-0406'	75	98	73	71	83	86
620-10117-36	2023-SB-06-0608'	84	87	90	62	70	94
620-10117-37	2023-SB-06-0810'	76	81	74	58	66	88
620-10117-38	2023-SB-06-1012'	83	95	83	66	75	66
620-10117-41	2023-SB-05-0002'	66	73	71	69	63	64
620-10117-42	2023-SB-05-0204'	78	73	67	55	67	81
620-10117-43	2023-SB-05-0406'	80	101	81	90	83	88
620-10117-43 MS	2023-SB-05-0406'	79	91	80	89	91	78
620-10117-43 MSD	2023-SB-05-0406'	75	82	71	80	97	84
620-10117-44	2023-SB-05-0608'	81	95	89	67	80	93
620-10117-45	2023-SB-05-0810'	70	86	88	62	73	89
620-10117-46	2023-SB-05-1012'	92	90	82	88	68	97
LCS 620-20475/2-A	Lab Control Sample	76	93	79	83	79	76
LCS 620-20520/2-A	Lab Control Sample	71	79	72	77	79	82
LCS 620-20546/2-A	Lab Control Sample	79	93	84	88	85	82
LCSD 620-20475/3-A	Lab Control Sample Dup	76	91	79	82	76	75
LCSD 620-20520/3-A	Lab Control Sample Dup	80	91	82	88	85	82
LCSD 620-20546/3-A	Lab Control Sample Dup	77	93	84	85	79	76

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
MB 620-20475/1-A	Method Blank	66	81	68	69	46	70
MB 620-20520/1-A	Method Blank	58	71	64	62	50	76
MB 620-20546/1-A	Method Blank	69	86	75	78	60	79

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT-F1	TFT-P2
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10117-1	2023-MW-06-0002'	102	100
620-10117-2	2023-MW-06-0204'	98	96
620-10117-3	2023-MW-06-0406'	97	96
620-10117-4	2023-MW-06-0608'	96	94
620-10117-5	2023-MW-06-0810'	97	95
620-10117-6	2023-MW-06-1012'	97	96
620-10117-7	2023-SB-08-0002'	95	93
620-10117-8	2023-SB-08-0204'	96	96
620-10117-9	2023-SB-08-0406'	95	94
620-10117-10	2023-SB-08-0608'	97	97
620-10117-11	2023-SB-08-0810'	96	95
620-10117-12	2023-SB-08-1012'	94	94
620-10117-13	2023-SB-12-0002'	90	107
620-10117-14	2023-SB-12-0204'	96	96
620-10117-15	2023-SB-12-0406'	95	95
620-10117-16	2023-SB-12-0608'	96	95
620-10117-17	2023-SB-12-0810'	97	96
620-10117-18	2023-SB-12-1012'	97	98
620-10117-18 MS	2023-SB-12-1012'	98	99
620-10117-18 MSD	2023-SB-12-1012'	97	98
620-10117-19	2023-SB-07-0002'	98	98
620-10117-20	2023-SB-07-0204'	96	96
620-10117-21	2023-SB-07-0406'	96	95
620-10117-22	2023-SB-07-0608'	96	95
620-10117-23	2023-SB-07-0810'	94	93
620-10117-24	2023-SB-07-1012'	96	95
620-10117-25	2023-MW-05-0002'	95	94
620-10117-26	2023-MW-05-0204'	94	92
620-10117-27	2023-MW-05-0608'	92	92
620-10117-28	2023-MW-05-0810'	92	92
620-10117-29	2023-MW-05-1012'	99	99
620-10117-30	2023-MW-05-0406'	101	100
620-10117-31	2023-FD-06	100	100

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT-F1 (70-130)	TFT-P2 (70-130)
620-10117-32	2023-FD-07	97	96
620-10117-33	2023-SB-06-0002'	99	99
620-10117-34	2023-SB-06-0204'	99	99
620-10117-35	2023-SB-06-0406'	96	96
620-10117-36	2023-SB-06-0608'	100	99
620-10117-37	2023-SB-06-0810'	99	98
620-10117-38	2023-SB-06-1012'	99	98
620-10117-41	2023-SB-05-0002'	102	99
620-10117-42	2023-SB-05-0204'	100	98
620-10117-43	2023-SB-05-0406'	101	101
620-10117-43 MS	2023-SB-05-0406'	102	102
620-10117-43 MSD	2023-SB-05-0406'	102	102
620-10117-44	2023-SB-05-0608'	98	96
620-10117-45	2023-SB-05-0810'	97	96
620-10117-46	2023-SB-05-1012'	98	96
LCS 480-660655/2-A	Lab Control Sample	98	99
LCS 480-660799/2-A	Lab Control Sample	96	97
LCS 480-660942/2-A	Lab Control Sample	98	99
LCSD 480-660655/3-A	Lab Control Sample Dup	98	97
LCSD 480-660799/3-A	Lab Control Sample Dup	95	96
LCSD 480-660942/3-A	Lab Control Sample Dup	98	98
MB 480-660655/1-A	Method Blank	118	116
MB 480-660799/1-A	Method Blank	99	99
MB 480-660942/1-A	Method Blank	115	114

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)
TFT-P = a,a,a-Trifluorotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)
620-10117-1	2023-MW-06-0002'	101	101	113	117
620-10117-2	2023-MW-06-0204'	101	103	112	117
620-10117-3	2023-MW-06-0406'	99	102	110	114
620-10117-4	2023-MW-06-0608'	94	97	103	107
620-10117-5	2023-MW-06-0810'	81	68	96	80
620-10117-6	2023-MW-06-1012'	92	93	99	99
620-10117-7	2023-SB-08-0002'	98	102	115	117
620-10117-8	2023-SB-08-0204'	109	111	121	124
620-10117-9	2023-SB-08-0406'	94	97	110	116
620-10117-10	2023-SB-08-0608'	69	71	81	84
620-10117-11	2023-SB-08-0810'	99	106	117	123
620-10117-12	2023-SB-08-1012'	96	99	104	109
620-10117-13	2023-SB-12-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-14	2023-SB-12-0204'	94	96	95	103
620-10117-15	2023-SB-12-0406'	87	89	94	102
620-10117-16	2023-SB-12-0608'	96	98	102	105

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10117-17	2023-SB-12-0810'	60	62	67	70
620-10117-18	2023-SB-12-1012'	88	92	101	107
620-10117-18 MS	2023-SB-12-1012'	57	59	68	73
620-10117-18 MSD	2023-SB-12-1012'	102	106	116	123
620-10117-19	2023-SB-07-0002'	104	107	137	150
620-10117-20	2023-SB-07-0204'	105	91	96	73
620-10117-21	2023-SB-07-0406'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-22	2023-SB-07-0608'	45	44	42	43
620-10117-23	2023-SB-07-0810'	107	101	101	95
620-10117-24	2023-SB-07-1012'	144	134	142	136
620-10117-25	2023-MW-05-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-26	2023-MW-05-0204'	90	85	102	96
620-10117-27	2023-MW-05-0608'	91	85	97	88
620-10117-28	2023-MW-05-0810'	98	95	97	92
620-10117-29	2023-MW-05-1012'	96	89	94	93
620-10117-30	2023-MW-05-0406'	94	90	91	74
620-10117-31	2023-FD-06	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-32	2023-FD-07	95	69	97	70
620-10117-33	2023-SB-06-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-34	2023-SB-06-0204'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-35	2023-SB-06-0406'	90	88	91	77
620-10117-36	2023-SB-06-0608'	105	99	116	82
620-10117-37	2023-SB-06-0810'	97	89	90	75
620-10117-38	2023-SB-06-1012'	55	51	42	37
620-10117-41	2023-SB-05-0002'	82	78	96	94
620-10117-42	2023-SB-05-0204'	62	60	61	62
620-10117-43	2023-SB-05-0406'	86	78	89	64
620-10117-43 MS	2023-SB-05-0406'	99	100	107	108
620-10117-43 MSD	2023-SB-05-0406'	90	90	95	92
620-10117-44	2023-SB-05-0608'	99	92	95	96
620-10117-45	2023-SB-05-0810'	48	47	43	35
620-10117-46	2023-SB-05-1012'	101	94	101	100
LCS 620-20414/2-A	Lab Control Sample	76	79	106	114
LCS 620-20415/2-A	Lab Control Sample	72	67	84	72
LCS 620-20416/2-A	Lab Control Sample	81	77	95	88
LCS 620-20535/2-A	Lab Control Sample	107	105	112	102
LCSD 620-20414/3-A	Lab Control Sample Dup	91	94	116	123
LCSD 620-20415/3-A	Lab Control Sample Dup	86	81	103	94
LCSD 620-20416/3-A	Lab Control Sample Dup	90	82	101	92
LCSD 620-20535/3-A	Lab Control Sample Dup	111	106	120	111
MB 620-20414/1-A	Method Blank	92	95	120	125
MB 620-20415/1-A	Method Blank	70	65	77	67
MB 620-20416/1-A	Method Blank	62	59	60	58
MB 620-20535/1-A	Method Blank	107	109	132	122

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10117-1	2023-MW-06-0002'	80	91	94	76	84	95	95	95
620-10117-2	2023-MW-06-0204'	72	80	95	88	92	94	97	95
620-10117-3	2023-MW-06-0406'	92	92	108	100	102	111	110	104
620-10117-4	2023-MW-06-0608'	93	104	102	108	111	109	114	110
620-10117-5	2023-MW-06-0810'	86	97	99	107	111	117	109	108
620-10117-6	2023-MW-06-1012'	88	87	105	103	106	114	106	100
620-10117-7	2023-SB-08-0002'	80	98	98	94	99	107	103	104
620-10117-8	2023-SB-08-0204'	80	94	100	97	98	107	97	104
620-10117-9	2023-SB-08-0406'	74	80	88	92	96	103	102	98
620-10117-10	2023-SB-08-0608'	78	84	88	105	110	112	104	102
620-10117-11	2023-SB-08-0810'	78	82	101	98	105	111	103	91
620-10117-12	2023-SB-08-1012'	93	99	105	100	113	116	108	107
620-10117-13	2023-SB-12-0002'	21	25	26	27	29	31	30	30
620-10117-14	2023-SB-12-0204'	67	59	76	80	82	83	75	71
620-10117-15	2023-SB-12-0406'	85	94	98	96	106	105	104	103
620-10117-16	2023-SB-12-0608'	90	103	111	109	110	112	107	107
620-10117-17	2023-SB-12-0810'	88	102	102	107	106	116	109	108
620-10117-18	2023-SB-12-1012'	103	111	124	119	130	129	117	122
620-10117-18 MS	2023-SB-12-1012'	91	96	103	107	111	119	113	113
620-10117-18 MSD	2023-SB-12-1012'	92	105	105	110	107	113	115	119
620-10117-19	2023-SB-07-0002'	106	120	120	115	118	123	119	122
620-10117-20	2023-SB-07-0204'	100	109	121	124	121	129	118	120
620-10117-21	2023-SB-07-0406'	102	120	120	120	127	127	128	121
620-10117-22	2023-SB-07-0608'	103	111	119	123	128	127	129	121
620-10117-23	2023-SB-07-0810'	104	107	123	127	126	131	127	120
620-10117-24	2023-SB-07-1012'	100	117	123	117	116	125	118	126
620-10117-25	2023-MW-05-0002'	83	95	101	92	98	96	94	96
620-10117-26	2023-MW-05-0204'	95	103	116	106	110	105	112	104
620-10117-27	2023-MW-05-0608'	102	119	120	120	124	125	115	115
620-10117-28	2023-MW-05-0810'	103	118	118	115	123	127	109	120
620-10117-29	2023-MW-05-1012'	103	109	121	120	109	126	123	117
620-10117-30	2023-MW-05-0406'	112	128	131	124	127	130	122	123
620-10117-31	2023-FD-06	107	112	126	122	127	129	119	113
620-10117-32	2023-FD-07	116	129	132	134	134	137	137	133
620-10117-33	2023-SB-06-0002'	106	127	127	113	120	126	119	121
620-10117-34	2023-SB-06-0204'	100	118	118	120	120	129	125	123
620-10117-35	2023-SB-06-0406'	94	106	112	112	115	117	118	113
620-10117-36	2023-SB-06-0608'	130	164	128	141	149	139	137	150
620-10117-36 MS	2023-SB-06-0608'	131	133	135	142	144	138	132	136
620-10117-36 MSD	2023-SB-06-0608'	133	118	127	144	143	143	138	145
620-10117-37	2023-SB-06-0810'	138	126	142	154	157	146	135	149
620-10117-38	2023-SB-06-1012'	139	144	141	151	157	149	142	147
620-10117-41	2023-SB-05-0002'	144	207 *5+	171	113	120	118	142	131
620-10117-42	2023-SB-05-0204'	134	178	164	120	129	126	129	128
620-10117-43	2023-SB-05-0406'	117	110	138	126	128	124	114	111
620-10117-43 MS	2023-SB-05-0406'	97	111	105	112	105	109	108	108
620-10117-43 MSD	2023-SB-05-0406'	99	96	108	109	109	108	108	104
620-10117-44	2023-SB-05-0608'	109	130	124	133	132	142	127	126
620-10117-44 MS	2023-SB-05-0608'	105	128	119	127	129	128	127	126

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10117-44 MSD	2023-SB-05-0608'	99	130	120	133	128	128	125	137
620-10117-45	2023-SB-05-0810'	115	140	123	140	147	148	151	137
620-10117-46	2023-SB-05-1012'	117	134	132	147	140	142	146	148
LCS 410-351126/2-B	Lab Control Sample	97	99	111	109	112	113	111	112
LCS 410-351204/2-B	Lab Control Sample	105	110	110	115	109	114	107	118
LCS 410-351205/2-B	Lab Control Sample	101	101	108	110	111	112	116	107
LCS 410-355124/2-B	Lab Control Sample	108	135	113	139	130	130	133	140
LCS 410-355125/2-B	Lab Control Sample	115	126	117	129	129	130	126	131
MB 410-351126/1-B	Method Blank	90	100	109	106	108	113	111	106
MB 410-351204/1-B	Method Blank	110	114	127	120	115	114	111	114
MB 410-351205/1-B	Method Blank	88	99	113	107	113	114	114	105
MB 410-355124/1-B	Method Blank	117	129	118	129	127	138	138	133
MB 410-355125/1-B	Method Blank	127	130	139	136	146	144	131	136

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10117-1	2023-MW-06-0002'	97	95	114	113	110	112	20	25
620-10117-2	2023-MW-06-0204'	102	90	115	111	92	113	20	27
620-10117-3	2023-MW-06-0406'	121	112	130	117	111	119	44	54
620-10117-4	2023-MW-06-0608'	117	107	128	117	112	115	69	73
620-10117-5	2023-MW-06-0810'	115	110	125	124	115	116	41	42
620-10117-6	2023-MW-06-1012'	117	100	124	109	107	110	59	74
620-10117-7	2023-SB-08-0002'	112	99	131	116	113	120	36	47
620-10117-8	2023-SB-08-0204'	115	107	131	112	111	112	38	53
620-10117-9	2023-SB-08-0406'	113	99	119	110	110	113	17	27
620-10117-10	2023-SB-08-0608'	114	108	126	115	112	114	23	30
620-10117-11	2023-SB-08-0810'	100	87	105	118	115	108	19	25
620-10117-12	2023-SB-08-1012'	112	105	125	112	112	110	63	71
620-10117-13	2023-SB-12-0002'	32	30	37	45	43	43	7 *5-	11
620-10117-14	2023-SB-12-0204'	76	65	84	96	98	88	25	31
620-10117-15	2023-SB-12-0406'	114	102	124	105	107	107	62	69
620-10117-16	2023-SB-12-0608'	107	109	132	107	96	110	87	94
620-10117-17	2023-SB-12-0810'	124	114	135	114	112	113	21	25
620-10117-18	2023-SB-12-1012'	136	126	151	129	120	122	71	81
620-10117-18 MS	2023-SB-12-1012'	127	110	143	123	119	122	54	64
620-10117-18 MSD	2023-SB-12-1012'	121	115	149	121	111	120	66	72
620-10117-19	2023-SB-07-0002'	124	114	143	125	120	121	83	91
620-10117-20	2023-SB-07-0204'	134	121	143	124	125	119	77	90
620-10117-21	2023-SB-07-0406'	148	126	157	135	123	130	102	115
620-10117-22	2023-SB-07-0608'	137	122	155	126	117	126	105	111
620-10117-23	2023-SB-07-0810'	135	128	158	129	123	128	120	124
620-10117-24	2023-SB-07-1012'	129	127	146	131	117	120	114	121
620-10117-25	2023-MW-05-0002'	117	105	127	116	114	111	16	24
620-10117-26	2023-MW-05-0204'	122	108	131	113	113	110	73	87
620-10117-27	2023-MW-05-0608'	137	119	153	125	125	124	94	105
620-10117-28	2023-MW-05-0810'	137	118	144	131	122	119	108	107
620-10117-29	2023-MW-05-1012'	135	122	144	137	122	128	106	114
620-10117-30	2023-MW-05-0406'	127	128	154	136	129	132	81	92
620-10117-31	2023-FD-06	125	116	141	131	126	122	97	99
620-10117-32	2023-FD-07	140	137	164	137	138	132	98	105

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10117-33	2023-SB-06-0002'	133	121	156	125	123	122	78	86
620-10117-34	2023-SB-06-0204'	134	131	146	132	120	126	44	52
620-10117-35	2023-SB-06-0406'	125	107	131	123	112	119	77	85
620-10117-36	2023-SB-06-0608'	142	139	149	134	148	142	134	135
620-10117-36 MS	2023-SB-06-0608'	140	136	148	141	152	136	139	133
620-10117-36 MSD	2023-SB-06-0608'	147	140	154	136	149	142	137	144
620-10117-37	2023-SB-06-0810'	146	144	146	141	155	137	138	138
620-10117-38	2023-SB-06-1012'	146	147	149	146	163	146	113	118
620-10117-41	2023-SB-05-0002'	84	136	144	137	138	138	122	96
620-10117-42	2023-SB-05-0204'	87	146	157	134	143	130	140	104
620-10117-43	2023-SB-05-0406'	126	114	110	112	118	115	74	110
620-10117-43 MS	2023-SB-05-0406'	110	105	112	110	106	106	66	101
620-10117-43 MSD	2023-SB-05-0406'	113	103	101	102	104	110	67	88
620-10117-44	2023-SB-05-0608'	128	128	150	132	136	132	120	112
620-10117-44 MS	2023-SB-05-0608'	121	121	139	129	138	131	117	113
620-10117-44 MSD	2023-SB-05-0608'	143	135	156	136	141	129	134	133
620-10117-45	2023-SB-05-0810'	135	127	142	147	147	149	122	119
620-10117-46	2023-SB-05-1012'	137	135	156	135	142	145	123	145
LCS 410-351126/2-B	Lab Control Sample	118	111	142	123	116	116	96	102
LCS 410-351204/2-B	Lab Control Sample	119	116	117	114	112	111	98	103
LCS 410-351205/2-B	Lab Control Sample	120	118	139	118	113	115	97	104
LCS 410-355124/2-B	Lab Control Sample	136	139	164	132	141	130	147	130
LCS 410-355125/2-B	Lab Control Sample	138	130	139	136	139	133	123	126
MB 410-351126/1-B	Method Blank	114	103	126	112	111	109	88	98
MB 410-351204/1-B	Method Blank	116	114	109	109	116	114	90	97
MB 410-351205/1-B	Method Blank	115	112	126	115	114	114	87	95
MB 410-355124/1-B	Method Blank	138	134	139	133	138	143	127	129
MB 410-355125/1-B	Method Blank	139	138	139	134	150	136	114	114

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10117-1	2023-MW-06-0002'	74	73	69	79	62	80	67	67
620-10117-2	2023-MW-06-0204'	100	89	83	106	78	109	83	88
620-10117-3	2023-MW-06-0406'	76	89	86	77	65	86	67	82
620-10117-4	2023-MW-06-0608'	109	108	112	114	112	123	114	95
620-10117-5	2023-MW-06-0810'	111	114	106	115	113	120	114	93
620-10117-6	2023-MW-06-1012'	102	103	97	104	85	115	90	96
620-10117-7	2023-SB-08-0002'	90	88	81	94	85	98	90	79
620-10117-8	2023-SB-08-0204'	82	89	83	83	79	89	86	77
620-10117-9	2023-SB-08-0406'	94	87	87	97	93	100	94	79
620-10117-10	2023-SB-08-0608'	109	108	104	117	99	115	108	106
620-10117-11	2023-SB-08-0810'	88	93	91	82	77	89	80	88
620-10117-12	2023-SB-08-1012'	88	105	101	97	74	102	77	88
620-10117-13	2023-SB-12-0002'	76	27 *5-	25	80	63	87	66	29
620-10117-14	2023-SB-12-0204'	93	76	70	93	74	102	80	74
620-10117-15	2023-SB-12-0406'	96	100	94	101	68	108	73	88
620-10117-16	2023-SB-12-0608'	109	104	99	112	101	114	111	94
620-10117-17	2023-SB-12-0810'	117	104	95	123	111	130	118	83
620-10117-18	2023-SB-12-1012'	122	121	110	136	120	138	129	102
620-10117-18 MS	2023-SB-12-1012'	114	112	102	125	114	136	122	88

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10117-18 MSD	2023-SB-12-1012'	115	116	109	125	114	132	123	100
620-10117-19	2023-SB-07-0002'	104	119	108	110	96	115	102	96
620-10117-20	2023-SB-07-0204'	105	120	109	117	104	120	108	96
620-10117-21	2023-SB-07-0406'	114	131	116	125	106	135	114	112
620-10117-22	2023-SB-07-0608'	111	127	114	119	102	125	112	103
620-10117-23	2023-SB-07-0810'	120	129	120	124	114	135	126	98
620-10117-24	2023-SB-07-1012'	120	126	114	126	121	127	123	107
620-10117-25	2023-MW-05-0002'	114	93	92	119	102	129	113	78
620-10117-26	2023-MW-05-0204'	93	102	101	103	83	108	89	87
620-10117-27	2023-MW-05-0608'	115	120	111	115	102	121	110	100
620-10117-28	2023-MW-05-0810'	113	118	112	119	114	130	119	100
620-10117-29	2023-MW-05-1012'	115	123	119	119	116	128	122	95
620-10117-30	2023-MW-05-0406'	113	129	121	125	97	127	105	101
620-10117-31	2023-FD-06	108	125	112	117	100	119	102	104
620-10117-32	2023-FD-07	123	131	131	131	119	138	122	107
620-10117-33	2023-SB-06-0002'	108	111	108	122	95	128	105	91
620-10117-34	2023-SB-06-0204'	114	124	118	126	112	134	119	97
620-10117-35	2023-SB-06-0406'	105	117	108	113	101	117	110	88
620-10117-36	2023-SB-06-0608'	132	141	137	126	111	129	117	128
620-10117-36 MS	2023-SB-06-0608'	134	140	135	121	114	130	117	138
620-10117-36 MSD	2023-SB-06-0608'	135	141	138	130	113	136	110	120
620-10117-37	2023-SB-06-0810'	137	146	135	138	120	134	124	128
620-10117-38	2023-SB-06-1012'	133	146	141	125	116	131	125	141
620-10117-41	2023-SB-05-0002'	95	111	109	93	72	101	77	83
620-10117-42	2023-SB-05-0204'	104	119	116	103	85	107	89	103
620-10117-43	2023-SB-05-0406'	101	121	115	95	75	96	73	118
620-10117-43 MS	2023-SB-05-0406'	94	111	107	99	68	91	73	94
620-10117-43 MSD	2023-SB-05-0406'	93	108	104	92	72	86	71	100
620-10117-44	2023-SB-05-0608'	136	141	129	119	74	117	79	160
620-10117-44 MS	2023-SB-05-0608'	130	132	127	117	71	115	73	148
620-10117-44 MSD	2023-SB-05-0608'	146	138	132	137	122	132	125	135
620-10117-45	2023-SB-05-0810'	137	153	149	120	104	121	111	151
620-10117-46	2023-SB-05-1012'	125	146	138	121	87	126	88	160
LCS 410-351126/2-B	Lab Control Sample	100	113	104	108	97	113	100	95
LCS 410-351204/2-B	Lab Control Sample	99	110	109	99	81	96	85	97
LCS 410-351205/2-B	Lab Control Sample	91	107	113	95	69	97	68	94
LCS 410-355124/2-B	Lab Control Sample	129	132	131	126	103	122	101	144
LCS 410-355125/2-B	Lab Control Sample	76	118	120	69	53	79	50	112
MB 410-351126/1-B	Method Blank	93	106	97	99	88	103	90	94
MB 410-351204/1-B	Method Blank	83	103	102	83	57	80	54	106
MB 410-351205/1-B	Method Blank	76	97	92	82	74	88	76	93
MB 410-355124/1-B	Method Blank	87	110	114	89	64	91	66	135
MB 410-355125/1-B	Method Blank	77	114	118	68	25	73	26	124

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acetone	0.02699	J	0.0500	0.0112	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01999		mg/Kg		100	70 - 130
Acetone	0.0200	0.01764	J	mg/Kg		88	70 - 130
Acrylonitrile	0.0200	0.01974		mg/Kg		99	70 - 130
Benzene	0.0200	0.02049		mg/Kg		102	70 - 130
Bromobenzene	0.0200	0.01990		mg/Kg		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.02008		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.01974		mg/Kg		99	70 - 130
Bromoform	0.0200	0.02004		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02232		mg/Kg		112	70 - 130
2-Butanone (MEK)	0.0200	0.01883		mg/Kg		94	70 - 130
n-Butylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
sec-Butylbenzene	0.0200	0.02100		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0200	0.01988		mg/Kg		99	70 - 130
Carbon disulfide	0.0200	0.02084		mg/Kg		104	70 - 130
Carbon tetrachloride	0.0200	0.01948		mg/Kg		97	70 - 130
Chlorobenzene	0.0200	0.02049		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.02218		mg/Kg		111	70 - 130
Chloroform	0.0200	0.02035		mg/Kg		102	70 - 130
Chloromethane	0.0200	0.01937		mg/Kg		97	70 - 130
2-Chlorotoluene	0.0200	0.02091		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02002		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.01989		mg/Kg		99	70 - 130
1,2-Dichlorobenzene	0.0200	0.02019		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02098		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02058		mg/Kg		103	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01662		mg/Kg		83	70 - 130
1,1-Dichloroethane	0.0200	0.01992		mg/Kg		100	70 - 130
1,2-Dichloroethane	0.0200	0.01955		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01916		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01938		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.01916		mg/Kg		96	70 - 130
1,3-Dichloropropane	0.0200	0.02057		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01874		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01903		mg/Kg		95	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01846		mg/Kg		92	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01971		mg/Kg		99	70 - 130
Ethylbenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Hexachlorobutadiene	0.0200	0.01850		mg/Kg		93	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
4-Isopropyltoluene	0.0200	0.01938		mg/Kg		97	70 - 130
Methyl tert-butyl ether	0.0200	0.01825		mg/Kg		91	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01719		mg/Kg		86	70 - 130
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130
Naphthalene	0.0200	0.02003		mg/Kg		100	70 - 130
N-Propylbenzene	0.0200	0.02091		mg/Kg		105	70 - 130
Styrene	0.0200	0.02054		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02172		mg/Kg		109	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.01869		mg/Kg		93	70 - 130
Toluene	0.0200	0.02058		mg/Kg		103	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01954		mg/Kg		98	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01966		mg/Kg		98	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01991		mg/Kg		100	70 - 130
1,1,1-Trichloroethane	0.0200	0.01933		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0200	0.02138		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02068		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01910		mg/Kg		95	70 - 130
1,2,3-Trichloropropane	0.0200	0.02101		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02072		mg/Kg		104	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02044		mg/Kg		102	70 - 130
Vinyl chloride	0.0200	0.01947		mg/Kg		97	70 - 130
m,p-Xylene	0.0200	0.01982		mg/Kg		99	70 - 130
o-Xylene	0.0200	0.01928		mg/Kg		96	70 - 130
Tetrahydrofuran	0.0200	0.01673		mg/Kg		84	70 - 130
Ethyl ether	0.0200	0.01904		mg/Kg		95	70 - 130
Tert-amyl methyl ether	0.0200	0.01763		mg/Kg		88	70 - 130
Ethyl tert-butyl ether	0.0200	0.01748		mg/Kg		87	70 - 130
di-Isopropyl ether	0.0200	0.01755		mg/Kg		88	70 - 130
tert-Butanol	0.200	0.1754		mg/Kg		88	70 - 130
1,4-Dioxane	0.200	0.1699		mg/Kg		85	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02037	J	mg/Kg		102	70 - 130
Ethanol	0.400	0.4083	J	mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
Acetone	0.0200	0.02125	J	mg/Kg		106	70 - 130	19	30
Acrylonitrile	0.0200	0.02073		mg/Kg		104	70 - 130	5	30
Benzene	0.0200	0.02034		mg/Kg		102	70 - 130	1	30
Bromobenzene	0.0200	0.01934		mg/Kg		97	70 - 130	3	30
Bromochloromethane	0.0200	0.02001		mg/Kg		100	70 - 130	0	30
Bromodichloromethane	0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Bromoform	0.0200	0.01998		mg/Kg		100	70 - 130	0	30
Bromomethane	0.0200	0.02216		mg/Kg		111	70 - 130	1	30
2-Butanone (MEK)	0.0200	0.02057		mg/Kg		103	70 - 130	9	30
n-Butylbenzene	0.0200	0.01974		mg/Kg		99	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	0.0200	0.02023		mg/Kg		101	70 - 130	4	30
tert-Butylbenzene	0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Carbon disulfide	0.0200	0.02062		mg/Kg		103	70 - 130	1	30
Carbon tetrachloride	0.0200	0.01930		mg/Kg		96	70 - 130	1	30
Chlorobenzene	0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Chloroethane	0.0200	0.02316		mg/Kg		116	70 - 130	4	30
Chloroform	0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloromethane	0.0200	0.01938		mg/Kg		97	70 - 130	0	30
2-Chlorotoluene	0.0200	0.01922		mg/Kg		96	70 - 130	8	30
4-Chlorotoluene	0.0200	0.02018		mg/Kg		101	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Dibromochloromethane	0.0200	0.02003		mg/Kg		100	70 - 130	0	30
1,2-Dibromoethane (EDB)	0.0200	0.02050		mg/Kg		103	70 - 130	2	30
Dibromomethane	0.0200	0.02024		mg/Kg		101	70 - 130	2	30
1,2-Dichlorobenzene	0.0200	0.02011		mg/Kg		101	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.02043		mg/Kg		102	70 - 130	3	30
1,4-Dichlorobenzene	0.0200	0.01993		mg/Kg		100	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01643		mg/Kg		82	70 - 130	1	30
1,1-Dichloroethane	0.0200	0.01996		mg/Kg		100	70 - 130	0	30
1,2-Dichloroethane	0.0200	0.01943		mg/Kg		97	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.01925		mg/Kg		96	70 - 130	0	30
cis-1,2-Dichloroethene	0.0200	0.01915		mg/Kg		96	70 - 130	1	30
trans-1,2-Dichloroethene	0.0200	0.01933		mg/Kg		97	70 - 130	0	30
1,2-Dichloropropane	0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3-Dichloropropane	0.0200	0.02026		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane	0.0200	0.01859		mg/Kg		93	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.01904		mg/Kg		95	70 - 130	0	30
cis-1,3-Dichloropropene	0.0200	0.01863		mg/Kg		93	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02004		mg/Kg		100	70 - 130	2	30
Ethylbenzene	0.0200	0.01993		mg/Kg		100	70 - 130	4	30
Hexachlorobutadiene	0.0200	0.01892		mg/Kg		95	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01777		mg/Kg		89	70 - 130	8	30
Isopropylbenzene	0.0200	0.01954		mg/Kg		98	70 - 130	1	30
4-Isopropyltoluene	0.0200	0.01909		mg/Kg		95	70 - 130	2	30
Methyl tert-butyl ether	0.0200	0.01870		mg/Kg		93	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01816		mg/Kg		91	70 - 130	6	30
Methylene Chloride	0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Naphthalene	0.0200	0.02173		mg/Kg		109	70 - 130	8	30
N-Propylbenzene	0.0200	0.02026		mg/Kg		101	70 - 130	3	30
Styrene	0.0200	0.02016		mg/Kg		101	70 - 130	2	30
1,1,1,2-Tetrachloroethane	0.0200	0.01989		mg/Kg		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02216		mg/Kg		111	70 - 130	2	30
Tetrachloroethene	0.0200	0.01808		mg/Kg		90	70 - 130	3	30
Toluene	0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,2,3-Trichlorobenzene	0.0200	0.02039		mg/Kg		102	70 - 130	4	30
1,2,4-Trichlorobenzene	0.0200	0.02030		mg/Kg		101	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.02008		mg/Kg		100	70 - 130	1	30
1,1,1-Trichloroethane	0.0200	0.01923		mg/Kg		96	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02106		mg/Kg		105	70 - 130	1	30
Trichloroethene			0.0200	0.01959		mg/Kg		98	70 - 130	5	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01868		mg/Kg		93	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02133		mg/Kg		107	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02025		mg/Kg		101	70 - 130	2	30
1,3,5-Trimethylbenzene			0.0200	0.01990		mg/Kg		99	70 - 130	3	30
Vinyl chloride			0.0200	0.01934		mg/Kg		97	70 - 130	1	30
m,p-Xylene			0.0200	0.01933		mg/Kg		97	70 - 130	2	30
o-Xylene			0.0200	0.01913		mg/Kg		96	70 - 130	1	30
Tetrahydrofuran			0.0200	0.01835		mg/Kg		92	70 - 130	9	30
Ethyl ether			0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Tert-amyl methyl ether			0.0200	0.01803		mg/Kg		90	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01797		mg/Kg		90	70 - 130	3	30
di-Isopropyl ether			0.0200	0.01826		mg/Kg		91	70 - 130	4	30
tert-Butanol			0.200	0.1724		mg/Kg		86	70 - 130	2	30
1,4-Dioxane			0.200	0.1765		mg/Kg		88	70 - 130	4	30
trans-1,4-Dichloro-2-butene			0.0200	0.02041	J	mg/Kg		102	70 - 130	0	30
Ethanol			0.400	0.3934	J	mg/Kg		98	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Acetone	0.02060	J	0.0500	0.0112	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Methylene Chloride	0.003636	J	0.0100	0.00268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02199		mg/Kg		110	70 - 130
Acetone	0.0200	0.01937	J	mg/Kg		97	70 - 130
Acrylonitrile	0.0200	0.01972		mg/Kg		99	70 - 130
Benzene	0.0200	0.02156		mg/Kg		108	70 - 130
Bromobenzene	0.0200	0.01982		mg/Kg		99	70 - 130
Bromochloromethane	0.0200	0.02105		mg/Kg		105	70 - 130
Bromodichloromethane	0.0200	0.02053		mg/Kg		103	70 - 130
Bromoform	0.0200	0.02002		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02461		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.01737		mg/Kg		87	70 - 130
n-Butylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0200	0.02140		mg/Kg		107	70 - 130
tert-Butylbenzene	0.0200	0.02108		mg/Kg		105	70 - 130
Carbon disulfide	0.0200	0.02248		mg/Kg		112	70 - 130
Carbon tetrachloride	0.0200	0.02046		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02054		mg/Kg		103	70 - 130
Chloroethane	0.0200	0.02482		mg/Kg		124	70 - 130
Chloroform	0.0200	0.02120		mg/Kg		106	70 - 130
Chloromethane	0.0200	0.02004		mg/Kg		100	70 - 130
2-Chlorotoluene	0.0200	0.02108		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02085		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01960		mg/Kg		98	70 - 130
Dibromochloromethane	0.0200	0.02081		mg/Kg		104	70 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0200	0.02028		mg/Kg		101	70 - 130
Dibromomethane	0.0200	0.02089		mg/Kg		104	70 - 130
1,2-Dichlorobenzene	0.0200	0.02012		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02080		mg/Kg		104	70 - 130
1,4-Dichlorobenzene	0.0200	0.02095		mg/Kg		105	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01749		mg/Kg		87	70 - 130
1,1-Dichloroethane	0.0200	0.02097		mg/Kg		105	70 - 130
1,2-Dichloroethane	0.0200	0.02016		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0200	0.02167		mg/Kg		108	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02037		mg/Kg		102	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dichloropropane	0.0200	0.02060		mg/Kg		103	70 - 130
1,3-Dichloropropane	0.0200	0.02066		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01960		mg/Kg		98	70 - 130
1,1-Dichloropropene	0.0200	0.02003		mg/Kg		100	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01875		mg/Kg		94	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02041		mg/Kg		102	70 - 130
Ethylbenzene	0.0200	0.02094		mg/Kg		105	70 - 130
Hexachlorobutadiene	0.0200	0.02010		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01661		mg/Kg		83	70 - 130
Isopropylbenzene	0.0200	0.02009		mg/Kg		100	70 - 130
4-Isopropyltoluene	0.0200	0.02017		mg/Kg		101	70 - 130
Methyl tert-butyl ether	0.0200	0.01870		mg/Kg		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01744		mg/Kg		87	70 - 130
Methylene Chloride	0.0200	0.02164		mg/Kg		108	70 - 130
Naphthalene	0.0200	0.02025		mg/Kg		101	70 - 130
N-Propylbenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Styrene	0.0200	0.02065		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02070		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02177		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01956		mg/Kg		98	70 - 130
Toluene	0.0200	0.02141		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02066		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02041		mg/Kg		102	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02050		mg/Kg		102	70 - 130
1,1,1-Trichloroethane	0.0200	0.02041		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02206		mg/Kg		110	70 - 130
Trichloroethene	0.0200	0.02132		mg/Kg		107	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02027		mg/Kg		101	70 - 130
1,2,3-Trichloropropane	0.0200	0.02128		mg/Kg		106	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02076		mg/Kg		104	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02097		mg/Kg		105	70 - 130
Vinyl chloride	0.0200	0.02063		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02006		mg/Kg		100	70 - 130
o-Xylene	0.0200	0.01932		mg/Kg		97	70 - 130
Tetrahydrofuran	0.0200	0.01772		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.02043		mg/Kg		102	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0200	0.01794		mg/Kg		90	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01770		mg/Kg		88	70 - 130		
di-Isopropyl ether			0.0200	0.01848		mg/Kg		92	70 - 130		
tert-Butanol			0.200	0.1648		mg/Kg		82	70 - 130		
1,4-Dioxane			0.200	0.1786		mg/Kg		89	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02076	J	mg/Kg		104	70 - 130		
Ethanol			0.400	0.3842	J	mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02089		mg/Kg		104	70 - 130	5	30
Acetone			0.0200	0.01744	J	mg/Kg		87	70 - 130	10	30
Acrylonitrile			0.0200	0.02036		mg/Kg		102	70 - 130	3	30
Benzene			0.0200	0.02117		mg/Kg		106	70 - 130	2	30
Bromobenzene			0.0200	0.01956		mg/Kg		98	70 - 130	1	30
Bromochloromethane			0.0200	0.02030		mg/Kg		102	70 - 130	4	30
Bromodichloromethane			0.0200	0.02077		mg/Kg		104	70 - 130	1	30
Bromoform			0.0200	0.02029		mg/Kg		101	70 - 130	1	30
Bromomethane			0.0200	0.02301		mg/Kg		115	70 - 130	7	30
2-Butanone (MEK)			0.0200	0.01880		mg/Kg		94	70 - 130	8	30
n-Butylbenzene			0.0200	0.02062		mg/Kg		103	70 - 130	1	30
sec-Butylbenzene			0.0200	0.02134		mg/Kg		107	70 - 130	0	30
tert-Butylbenzene			0.0200	0.02097		mg/Kg		105	70 - 130	1	30
Carbon disulfide			0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Carbon tetrachloride			0.0200	0.02055		mg/Kg		103	70 - 130	0	30
Chlorobenzene			0.0200	0.02064		mg/Kg		103	70 - 130	1	30
Chloroethane			0.0200	0.02387		mg/Kg		119	70 - 130	4	30
Chloroform			0.0200	0.02073		mg/Kg		104	70 - 130	2	30
Chloromethane			0.0200	0.01938		mg/Kg		97	70 - 130	3	30
2-Chlorotoluene			0.0200	0.02125		mg/Kg		106	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02081		mg/Kg		104	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02086		mg/Kg		104	70 - 130	6	30
Dibromochloromethane			0.0200	0.02025		mg/Kg		101	70 - 130	3	30
1,2-Dibromoethane (EDB)			0.0200	0.02073		mg/Kg		104	70 - 130	2	30
Dibromomethane			0.0200	0.02136		mg/Kg		107	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02042		mg/Kg		102	70 - 130	2	30
1,3-Dichlorobenzene			0.0200	0.02087		mg/Kg		104	70 - 130	0	30
1,4-Dichlorobenzene			0.0200	0.02038		mg/Kg		102	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0200	0.01708		mg/Kg		85	70 - 130	2	30
1,1-Dichloroethane	0.0200	0.02091		mg/Kg		105	70 - 130	0	30
1,2-Dichloroethane	0.0200	0.01993		mg/Kg		100	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.02078		mg/Kg		104	70 - 130	4	30
cis-1,2-Dichloroethene	0.0200	0.01995		mg/Kg		100	70 - 130	2	30
trans-1,2-Dichloroethene	0.0200	0.02028		mg/Kg		101	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02011		mg/Kg		101	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02080		mg/Kg		104	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01971		mg/Kg		99	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.02002		mg/Kg		100	70 - 130	0	30
cis-1,3-Dichloropropene	0.0200	0.01908		mg/Kg		95	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Ethylbenzene	0.0200	0.02088		mg/Kg		104	70 - 130	0	30
Hexachlorobutadiene	0.0200	0.01975		mg/Kg		99	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01748		mg/Kg		87	70 - 130	5	30
Isopropylbenzene	0.0200	0.02016		mg/Kg		101	70 - 130	0	30
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130	1	30
Methyl tert-butyl ether	0.0200	0.01852		mg/Kg		93	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01787		mg/Kg		89	70 - 130	2	30
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130	1	30
Naphthalene	0.0200	0.02120		mg/Kg		106	70 - 130	5	30
N-Propylbenzene	0.0200	0.02113		mg/Kg		106	70 - 130	1	30
Styrene	0.0200	0.02076		mg/Kg		104	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02045		mg/Kg		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02231		mg/Kg		112	70 - 130	2	30
Tetrachloroethene	0.0200	0.01951		mg/Kg		98	70 - 130	0	30
Toluene	0.0200	0.02118		mg/Kg		106	70 - 130	1	30
1,2,3-Trichlorobenzene	0.0200	0.02163		mg/Kg		108	70 - 130	5	30
1,2,4-Trichlorobenzene	0.0200	0.02076		mg/Kg		104	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0200	0.02063		mg/Kg		103	70 - 130	1	30
1,1,1-Trichloroethane	0.0200	0.02031		mg/Kg		102	70 - 130	0	30
1,1,2-Trichloroethane	0.0200	0.02130		mg/Kg		106	70 - 130	4	30
Trichloroethene	0.0200	0.02140		mg/Kg		107	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	0.0200	0.01972		mg/Kg		99	70 - 130	3	30
1,2,3-Trichloropropane	0.0200	0.02125		mg/Kg		106	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02079		mg/Kg		104	70 - 130	0	30
1,3,5-Trimethylbenzene	0.0200	0.02083		mg/Kg		104	70 - 130	1	30
Vinyl chloride	0.0200	0.02017		mg/Kg		101	70 - 130	2	30
m,p-Xylene	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
o-Xylene	0.0200	0.01955		mg/Kg		98	70 - 130	1	30
Tetrahydrofuran	0.0200	0.01674		mg/Kg		84	70 - 130	6	30
Ethyl ether	0.0200	0.02038		mg/Kg		102	70 - 130	0	30
Tert-amyl methyl ether	0.0200	0.01849		mg/Kg		92	70 - 130	3	30
Ethyl tert-butyl ether	0.0200	0.01797		mg/Kg		90	70 - 130	2	30
di-Isopropyl ether	0.0200	0.01870		mg/Kg		94	70 - 130	1	30
tert-Butanol	0.200	0.1734		mg/Kg		87	70 - 130	5	30
1,4-Dioxane	0.200	0.1667		mg/Kg		83	70 - 130	7	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0200	0.02109	J	mg/Kg		105	70 - 130	2	30
Ethanol			0.400	0.3939	J	mg/Kg		98	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 620-20408/3-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Acetone	0.02825	J	0.0500	0.0112	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/09/23 11:00	03/09/23 13:10	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20408/3-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Methylene Chloride	0.006374	J	0.0100	0.00268	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/09/23 11:00	03/09/23 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20408/3-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20408

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*

Lab Sample ID: LCS 620-20408/1-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01769		mg/Kg		88	70 - 130
Acetone	0.0200	0.01620	J	mg/Kg		81	70 - 130
Acrylonitrile	0.0200	0.01861		mg/Kg		93	70 - 130
Benzene	0.0200	0.01786		mg/Kg		89	70 - 130
Bromobenzene	0.0200	0.01716		mg/Kg		86	70 - 130
Bromochloromethane	0.0200	0.01859		mg/Kg		93	70 - 130
Bromodichloromethane	0.0200	0.01828		mg/Kg		91	70 - 130
Bromoform	0.0200	0.01854		mg/Kg		93	70 - 130
Bromomethane	0.0200	0.02028		mg/Kg		101	70 - 130
2-Butanone (MEK)	0.0200	0.01826		mg/Kg		91	70 - 130
n-Butylbenzene	0.0200	0.01660		mg/Kg		83	70 - 130
sec-Butylbenzene	0.0200	0.01762		mg/Kg		88	70 - 130
tert-Butylbenzene	0.0200	0.01742		mg/Kg		87	70 - 130
Carbon disulfide	0.0200	0.01793		mg/Kg		90	70 - 130
Carbon tetrachloride	0.0200	0.01675		mg/Kg		84	70 - 130
Chlorobenzene	0.0200	0.01759		mg/Kg		88	70 - 130
Chloroethane	0.0200	0.01953		mg/Kg		98	70 - 130
Chloroform	0.0200	0.01795		mg/Kg		90	70 - 130
Chloromethane	0.0200	0.01599		mg/Kg		80	70 - 130
2-Chlorotoluene	0.0200	0.01732		mg/Kg		87	70 - 130
4-Chlorotoluene	0.0200	0.01735		mg/Kg		87	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01873		mg/Kg		94	70 - 130
Dibromochloromethane	0.0200	0.01842		mg/Kg		92	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.01860		mg/Kg		93	70 - 130
Dibromomethane	0.0200	0.01875		mg/Kg		94	70 - 130
1,2-Dichlorobenzene	0.0200	0.01730		mg/Kg		87	70 - 130
1,3-Dichlorobenzene	0.0200	0.01810		mg/Kg		91	70 - 130
1,4-Dichlorobenzene	0.0200	0.01755		mg/Kg		88	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01304	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0200	0.01744		mg/Kg		87	70 - 130
1,2-Dichloroethane	0.0200	0.01765		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0200	0.01679		mg/Kg		84	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01630		mg/Kg		81	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01616		mg/Kg		81	70 - 130
1,2-Dichloropropane	0.0200	0.01741		mg/Kg		87	70 - 130
1,3-Dichloropropane	0.0200	0.01871		mg/Kg		94	70 - 130
2,2-Dichloropropane	0.0200	0.01563		mg/Kg		78	70 - 130
1,1-Dichloropropene	0.0200	0.01523		mg/Kg		76	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20408/1-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0200	0.01582		mg/Kg		79	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01814		mg/Kg		91	70 - 130
Ethylbenzene	0.0200	0.01720		mg/Kg		86	70 - 130
Hexachlorobutadiene	0.0200	0.01610		mg/Kg		80	70 - 130
2-Hexanone (MBK)	0.0200	0.01478		mg/Kg		74	70 - 130
Isopropylbenzene	0.0200	0.01631		mg/Kg		82	70 - 130
4-Isopropyltoluene	0.0200	0.01599		mg/Kg		80	70 - 130
Methyl tert-butyl ether	0.0200	0.01658		mg/Kg		83	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01587		mg/Kg		79	70 - 130
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130
Naphthalene	0.0200	0.01806		mg/Kg		90	70 - 130
N-Propylbenzene	0.0200	0.01745		mg/Kg		87	70 - 130
Styrene	0.0200	0.01734		mg/Kg		87	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01754		mg/Kg		88	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02119		mg/Kg		106	70 - 130
Tetrachloroethene	0.0200	0.01560		mg/Kg		78	70 - 130
Toluene	0.0200	0.01804		mg/Kg		90	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01720		mg/Kg		86	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01693		mg/Kg		85	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01677		mg/Kg		84	70 - 130
1,1,1-Trichloroethane	0.0200	0.01659		mg/Kg		83	70 - 130
1,1,2-Trichloroethane	0.0200	0.02001		mg/Kg		100	70 - 130
Trichloroethene	0.0200	0.01762		mg/Kg		88	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01668		mg/Kg		83	70 - 130
1,2,3-Trichloropropane	0.0200	0.02047		mg/Kg		102	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01750		mg/Kg		87	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01740		mg/Kg		87	70 - 130
Vinyl chloride	0.0200	0.01590		mg/Kg		80	70 - 130
m,p-Xylene	0.0200	0.01600		mg/Kg		80	70 - 130
o-Xylene	0.0200	0.01552		mg/Kg		78	70 - 130
Tetrahydrofuran	0.0200	0.01561		mg/Kg		78	70 - 130
Ethyl ether	0.0200	0.01781		mg/Kg		89	70 - 130
Tert-amyl methyl ether	0.0200	0.01542		mg/Kg		77	70 - 130
Ethyl tert-butyl ether	0.0200	0.01486		mg/Kg		74	70 - 130
di-Isopropyl ether	0.0200	0.01479		mg/Kg		74	70 - 130
tert-Butanol	0.200	0.1609		mg/Kg		80	70 - 130
1,4-Dioxane	0.200	0.1483		mg/Kg		74	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.01927	J	mg/Kg		96	70 - 130
Ethanol	0.400	0.3720	J	mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20408/2-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20408

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01837		mg/Kg		92	70 - 130	4	30
Acetone	0.0200	0.01809	J	mg/Kg		90	70 - 130	11	30
Acrylonitrile	0.0200	0.01742		mg/Kg		87	70 - 130	7	30
Benzene	0.0200	0.01815		mg/Kg		91	70 - 130	2	30
Bromobenzene	0.0200	0.01727		mg/Kg		86	70 - 130	1	30
Bromochloromethane	0.0200	0.01918		mg/Kg		96	70 - 130	3	30
Bromodichloromethane	0.0200	0.01879		mg/Kg		94	70 - 130	3	30
Bromoform	0.0200	0.01861		mg/Kg		93	70 - 130	0	30
Bromomethane	0.0200	0.02080		mg/Kg		104	70 - 130	3	30
2-Butanone (MEK)	0.0200	0.01699		mg/Kg		85	70 - 130	7	30
n-Butylbenzene	0.0200	0.01664		mg/Kg		83	70 - 130	0	30
sec-Butylbenzene	0.0200	0.01794		mg/Kg		90	70 - 130	2	30
tert-Butylbenzene	0.0200	0.01762		mg/Kg		88	70 - 130	1	30
Carbon disulfide	0.0200	0.01849		mg/Kg		92	70 - 130	3	30
Carbon tetrachloride	0.0200	0.01730		mg/Kg		86	70 - 130	3	30
Chlorobenzene	0.0200	0.01797		mg/Kg		90	70 - 130	2	30
Chloroethane	0.0200	0.02055		mg/Kg		103	70 - 130	5	30
Chloroform	0.0200	0.01836		mg/Kg		92	70 - 130	2	30
Chloromethane	0.0200	0.01635		mg/Kg		82	70 - 130	2	30
2-Chlorotoluene	0.0200	0.01799		mg/Kg		90	70 - 130	4	30
4-Chlorotoluene	0.0200	0.01766		mg/Kg		88	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.01900		mg/Kg		95	70 - 130	1	30
Dibromochloromethane	0.0200	0.01878		mg/Kg		94	70 - 130	2	30
1,2-Dibromoethane (EDB)	0.0200	0.01887		mg/Kg		94	70 - 130	1	30
Dibromomethane	0.0200	0.01923		mg/Kg		96	70 - 130	3	30
1,2-Dichlorobenzene	0.0200	0.01809		mg/Kg		90	70 - 130	4	30
1,3-Dichlorobenzene	0.0200	0.01807		mg/Kg		90	70 - 130	0	30
1,4-Dichlorobenzene	0.0200	0.01793		mg/Kg		90	70 - 130	2	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01351	*-	mg/Kg		68	70 - 130	4	30
1,1-Dichloroethane	0.0200	0.01783		mg/Kg		89	70 - 130	2	30
1,2-Dichloroethane	0.0200	0.01834		mg/Kg		92	70 - 130	4	30
1,1-Dichloroethene	0.0200	0.01711		mg/Kg		86	70 - 130	2	30
cis-1,2-Dichloroethene	0.0200	0.01684		mg/Kg		84	70 - 130	3	30
trans-1,2-Dichloroethene	0.0200	0.01697		mg/Kg		85	70 - 130	5	30
1,2-Dichloropropane	0.0200	0.01748		mg/Kg		87	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.01873		mg/Kg		94	70 - 130	0	30
2,2-Dichloropropane	0.0200	0.01622		mg/Kg		81	70 - 130	4	30
1,1-Dichloropropene	0.0200	0.01607		mg/Kg		80	70 - 130	5	30
cis-1,3-Dichloropropene	0.0200	0.01622		mg/Kg		81	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.01825		mg/Kg		91	70 - 130	1	30
Ethylbenzene	0.0200	0.01773		mg/Kg		89	70 - 130	3	30
Hexachlorobutadiene	0.0200	0.01583		mg/Kg		79	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01462		mg/Kg		73	70 - 130	1	30
Isopropylbenzene	0.0200	0.01673		mg/Kg		84	70 - 130	3	30
4-Isopropyltoluene	0.0200	0.01646		mg/Kg		82	70 - 130	3	30
Methyl tert-butyl ether	0.0200	0.01726		mg/Kg		86	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01601		mg/Kg		80	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20408/2-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20408

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			0.0200	0.02281		mg/Kg		114	70 - 130	6	30
Naphthalene			0.0200	0.01887		mg/Kg		94	70 - 130	4	30
N-Propylbenzene			0.0200	0.01783		mg/Kg		89	70 - 130	2	30
Styrene			0.0200	0.01746		mg/Kg		87	70 - 130	1	30
1,1,1,2-Tetrachloroethane			0.0200	0.01807		mg/Kg		90	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.02101		mg/Kg		105	70 - 130	1	30
Tetrachloroethene			0.0200	0.01618		mg/Kg		81	70 - 130	4	30
Toluene			0.0200	0.01864		mg/Kg		93	70 - 130	3	30
1,2,3-Trichlorobenzene			0.0200	0.01840		mg/Kg		92	70 - 130	7	30
1,2,4-Trichlorobenzene			0.0200	0.01712		mg/Kg		86	70 - 130	1	30
1,3,5-Trichlorobenzene			0.0200	0.01720		mg/Kg		86	70 - 130	3	30
1,1,1-Trichloroethane			0.0200	0.01745		mg/Kg		87	70 - 130	5	30
1,1,2-Trichloroethane			0.0200	0.02030		mg/Kg		101	70 - 130	1	30
Trichloroethene			0.0200	0.01800		mg/Kg		90	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01707		mg/Kg		85	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02051		mg/Kg		103	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0200	0.01759		mg/Kg		88	70 - 130	1	30
1,3,5-Trimethylbenzene			0.0200	0.01766		mg/Kg		88	70 - 130	1	30
Vinyl chloride			0.0200	0.01651		mg/Kg		83	70 - 130	4	30
m,p-Xylene			0.0200	0.01650		mg/Kg		83	70 - 130	3	30
o-Xylene			0.0200	0.01612		mg/Kg		81	70 - 130	4	30
Tetrahydrofuran			0.0200	0.01650		mg/Kg		83	70 - 130	6	30
Ethyl ether			0.0200	0.01828		mg/Kg		91	70 - 130	3	30
Tert-amyl methyl ether			0.0200	0.01617		mg/Kg		81	70 - 130	5	30
Ethyl tert-butyl ether			0.0200	0.01560		mg/Kg		78	70 - 130	5	30
di-Isopropyl ether			0.0200	0.01541		mg/Kg		77	70 - 130	4	30
tert-Butanol			0.200	0.1628		mg/Kg		81	70 - 130	1	30
1,4-Dioxane			0.200	0.1670		mg/Kg		83	70 - 130	12	30
trans-1,4-Dichloro-2-butene			0.0200	0.01947	J	mg/Kg		97	70 - 130	1	30
Ethanol			0.400	0.3599	J	mg/Kg		90	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 620-20432/3-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Acetone	0.01284	J	0.0500	0.0112	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/10/23 09:34	03/10/23 12:23	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20432/3-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Methylene Chloride	0.004929	J	0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/10/23 09:34	03/10/23 12:23	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20432/3-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.00500	0.00317	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/10/23 09:34	03/10/23 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*

Lab Sample ID: LCS 620-20432/1-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02340		mg/Kg		117	70 - 130
Acetone	0.0200	0.02079	J	mg/Kg		104	70 - 130
Acrylonitrile	0.0200	0.02117		mg/Kg		106	70 - 130
Benzene	0.0200	0.02295		mg/Kg		115	70 - 130
Bromobenzene	0.0200	0.02128		mg/Kg		106	70 - 130
Bromochloromethane	0.0200	0.02400		mg/Kg		120	70 - 130
Bromodichloromethane	0.0200	0.02274		mg/Kg		114	70 - 130
Bromoform	0.0200	0.02237		mg/Kg		112	70 - 130
Bromomethane	0.0200	0.02683	*+	mg/Kg		134	70 - 130
2-Butanone (MEK)	0.0200	0.02265		mg/Kg		113	70 - 130
n-Butylbenzene	0.0200	0.02109		mg/Kg		105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20432/1-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	0.0200	0.02205		mg/Kg		110	70 - 130
tert-Butylbenzene	0.0200	0.02205		mg/Kg		110	70 - 130
Carbon disulfide	0.0200	0.02411		mg/Kg		121	70 - 130
Carbon tetrachloride	0.0200	0.02177		mg/Kg		109	70 - 130
Chlorobenzene	0.0200	0.02233		mg/Kg		112	70 - 130
Chloroethane	0.0200	0.02512		mg/Kg		126	70 - 130
Chloroform	0.0200	0.02278		mg/Kg		114	70 - 130
Chloromethane	0.0200	0.02062		mg/Kg		103	70 - 130
2-Chlorotoluene	0.0200	0.02195		mg/Kg		110	70 - 130
4-Chlorotoluene	0.0200	0.02219		mg/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02116		mg/Kg		106	70 - 130
Dibromochloromethane	0.0200	0.02239		mg/Kg		112	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02268		mg/Kg		113	70 - 130
Dibromomethane	0.0200	0.02251		mg/Kg		113	70 - 130
1,2-Dichlorobenzene	0.0200	0.02158		mg/Kg		108	70 - 130
1,3-Dichlorobenzene	0.0200	0.02246		mg/Kg		112	70 - 130
1,4-Dichlorobenzene	0.0200	0.02170		mg/Kg		109	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01735		mg/Kg		87	70 - 130
1,1-Dichloroethane	0.0200	0.02179		mg/Kg		109	70 - 130
1,2-Dichloroethane	0.0200	0.02126		mg/Kg		106	70 - 130
1,1-Dichloroethene	0.0200	0.02267		mg/Kg		113	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02137		mg/Kg		107	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02218		mg/Kg		111	70 - 130
1,2-Dichloropropane	0.0200	0.02141		mg/Kg		107	70 - 130
1,3-Dichloropropane	0.0200	0.02223		mg/Kg		111	70 - 130
2,2-Dichloropropane	0.0200	0.02036		mg/Kg		102	70 - 130
1,1-Dichloropropene	0.0200	0.02052		mg/Kg		103	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01969		mg/Kg		98	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02185		mg/Kg		109	70 - 130
Ethylbenzene	0.0200	0.02176		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.01929		mg/Kg		96	70 - 130
2-Hexanone (MBK)	0.0200	0.01794		mg/Kg		90	70 - 130
Isopropylbenzene	0.0200	0.02085		mg/Kg		104	70 - 130
4-Isopropyltoluene	0.0200	0.02014		mg/Kg		101	70 - 130
Methyl tert-butyl ether	0.0200	0.01919		mg/Kg		96	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01867		mg/Kg		93	70 - 130
Methylene Chloride	0.0200	0.02503		mg/Kg		125	70 - 130
Naphthalene	0.0200	0.02118		mg/Kg		106	70 - 130
N-Propylbenzene	0.0200	0.02192		mg/Kg		110	70 - 130
Styrene	0.0200	0.02167		mg/Kg		108	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02174		mg/Kg		109	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02417		mg/Kg		121	70 - 130
Tetrachloroethene	0.0200	0.02109		mg/Kg		105	70 - 130
Toluene	0.0200	0.02313		mg/Kg		116	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02079		mg/Kg		104	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02086		mg/Kg		104	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02113		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02135		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20432/1-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichloroethane			0.0200	0.02378		mg/Kg		119	70 - 130		
Trichloroethene			0.0200	0.02299		mg/Kg		115	70 - 130		
Trichlorofluoromethane (Freon 11)			0.0200	0.02208		mg/Kg		110	70 - 130		
1,2,3-Trichloropropane			0.0200	0.02286		mg/Kg		114	70 - 130		
1,2,4-Trimethylbenzene			0.0200	0.02176		mg/Kg		109	70 - 130		
1,3,5-Trimethylbenzene			0.0200	0.02167		mg/Kg		108	70 - 130		
Vinyl chloride			0.0200	0.02151		mg/Kg		108	70 - 130		
m,p-Xylene			0.0200	0.02045		mg/Kg		102	70 - 130		
o-Xylene			0.0200	0.01975		mg/Kg		99	70 - 130		
Tetrahydrofuran			0.0200	0.01684		mg/Kg		84	70 - 130		
Ethyl ether			0.0200	0.02140		mg/Kg		107	70 - 130		
Tert-amyl methyl ether			0.0200	0.01837		mg/Kg		92	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01788		mg/Kg		89	70 - 130		
di-Isopropyl ether			0.0200	0.01823		mg/Kg		91	70 - 130		
tert-Butanol			0.200	0.1774		mg/Kg		89	70 - 130		
1,4-Dioxane			0.200	0.1574		mg/Kg		79	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02142	J	mg/Kg		107	70 - 130		
Ethanol			0.400	0.4752	J	mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-20432/2-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02373		mg/Kg		119	70 - 130	1	30
Acetone			0.0200	0.01780	J	mg/Kg		89	70 - 130	15	30
Acrylonitrile			0.0200	0.02077		mg/Kg		104	70 - 130	2	30
Benzene			0.0200	0.02367		mg/Kg		118	70 - 130	3	30
Bromobenzene			0.0200	0.02204		mg/Kg		110	70 - 130	4	30
Bromochloromethane			0.0200	0.02419		mg/Kg		121	70 - 130	1	30
Bromodichloromethane			0.0200	0.02351		mg/Kg		118	70 - 130	3	30
Bromoform			0.0200	0.02256		mg/Kg		113	70 - 130	1	30
Bromomethane			0.0200	0.02740	*+	mg/Kg		137	70 - 130	2	30
2-Butanone (MEK)			0.0200	0.02028		mg/Kg		101	70 - 130	11	30
n-Butylbenzene			0.0200	0.02173		mg/Kg		109	70 - 130	3	30
sec-Butylbenzene			0.0200	0.02305		mg/Kg		115	70 - 130	4	30
tert-Butylbenzene			0.0200	0.02277		mg/Kg		114	70 - 130	3	30
Carbon disulfide			0.0200	0.02400		mg/Kg		120	70 - 130	0	30
Carbon tetrachloride			0.0200	0.02259		mg/Kg		113	70 - 130	4	30
Chlorobenzene			0.0200	0.02299		mg/Kg		115	70 - 130	3	30
Chloroethane			0.0200	0.02580		mg/Kg		129	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20432/2-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform			0.0200	0.02321		mg/Kg		116	70 - 130	2	30
Chloromethane			0.0200	0.02081		mg/Kg		104	70 - 130	1	30
2-Chlorotoluene			0.0200	0.02307		mg/Kg		115	70 - 130	5	30
4-Chlorotoluene			0.0200	0.02273		mg/Kg		114	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02153		mg/Kg		108	70 - 130	2	30
Dibromochloromethane			0.0200	0.02300		mg/Kg		115	70 - 130	3	30
1,2-Dibromoethane (EDB)			0.0200	0.02267		mg/Kg		113	70 - 130	0	30
Dibromomethane			0.0200	0.02320		mg/Kg		116	70 - 130	3	30
1,2-Dichlorobenzene			0.0200	0.02210		mg/Kg		111	70 - 130	2	30
1,3-Dichlorobenzene			0.0200	0.02306		mg/Kg		115	70 - 130	3	30
1,4-Dichlorobenzene			0.0200	0.02256		mg/Kg		113	70 - 130	4	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01770		mg/Kg		89	70 - 130	2	30
1,1-Dichloroethane			0.0200	0.02254		mg/Kg		113	70 - 130	3	30
1,2-Dichloroethane			0.0200	0.02157		mg/Kg		108	70 - 130	1	30
1,1-Dichloroethene			0.0200	0.02369		mg/Kg		118	70 - 130	4	30
cis-1,2-Dichloroethene			0.0200	0.02250		mg/Kg		113	70 - 130	5	30
trans-1,2-Dichloroethene			0.0200	0.02273		mg/Kg		114	70 - 130	2	30
1,2-Dichloropropane			0.0200	0.02240		mg/Kg		112	70 - 130	5	30
1,3-Dichloropropane			0.0200	0.02293		mg/Kg		115	70 - 130	3	30
2,2-Dichloropropane			0.0200	0.02089		mg/Kg		104	70 - 130	3	30
1,1-Dichloropropene			0.0200	0.02124		mg/Kg		106	70 - 130	3	30
cis-1,3-Dichloropropene			0.0200	0.02069		mg/Kg		103	70 - 130	5	30
trans-1,3-Dichloropropene			0.0200	0.02208		mg/Kg		110	70 - 130	1	30
Ethylbenzene			0.0200	0.02284		mg/Kg		114	70 - 130	5	30
Hexachlorobutadiene			0.0200	0.02091		mg/Kg		105	70 - 130	8	30
2-Hexanone (MBK)			0.0200	0.01731		mg/Kg		87	70 - 130	4	30
Isopropylbenzene			0.0200	0.02189		mg/Kg		109	70 - 130	5	30
4-Isopropyltoluene			0.0200	0.02116		mg/Kg		106	70 - 130	5	30
Methyl tert-butyl ether			0.0200	0.02041		mg/Kg		102	70 - 130	6	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.01857		mg/Kg		93	70 - 130	0	30
Methylene Chloride			0.0200	0.02582		mg/Kg		129	70 - 130	3	30
Naphthalene			0.0200	0.02187		mg/Kg		109	70 - 130	3	30
N-Propylbenzene			0.0200	0.02302		mg/Kg		115	70 - 130	5	30
Styrene			0.0200	0.02256		mg/Kg		113	70 - 130	4	30
1,1,1,2-Tetrachloroethane			0.0200	0.02253		mg/Kg		113	70 - 130	4	30
1,1,2,2-Tetrachloroethane			0.0200	0.02425		mg/Kg		121	70 - 130	0	30
Tetrachloroethene			0.0200	0.02173		mg/Kg		109	70 - 130	3	30
Toluene			0.0200	0.02349		mg/Kg		117	70 - 130	2	30
1,2,3-Trichlorobenzene			0.0200	0.02223		mg/Kg		111	70 - 130	7	30
1,2,4-Trichlorobenzene			0.0200	0.02172		mg/Kg		109	70 - 130	4	30
1,3,5-Trichlorobenzene			0.0200	0.02208		mg/Kg		110	70 - 130	4	30
1,1,1-Trichloroethane			0.0200	0.02243		mg/Kg		112	70 - 130	5	30
1,1,2-Trichloroethane			0.0200	0.02415		mg/Kg		121	70 - 130	2	30
Trichloroethene			0.0200	0.02356		mg/Kg		118	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02227		mg/Kg		111	70 - 130	1	30
1,2,3-Trichloropropane			0.0200	0.02322		mg/Kg		116	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02275		mg/Kg		114	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20432/2-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0200	0.02275		mg/Kg		114	70 - 130	5	30
Vinyl chloride			0.0200	0.02206		mg/Kg		110	70 - 130	3	30
m,p-Xylene			0.0200	0.02184		mg/Kg		109	70 - 130	7	30
o-Xylene			0.0200	0.02114		mg/Kg		106	70 - 130	7	30
Tetrahydrofuran			0.0200	0.01701		mg/Kg		85	70 - 130	1	30
Ethyl ether			0.0200	0.02247		mg/Kg		112	70 - 130	5	30
Tert-amyl methyl ether			0.0200	0.01947		mg/Kg		97	70 - 130	6	30
Ethyl tert-butyl ether			0.0200	0.01889		mg/Kg		94	70 - 130	5	30
di-Isopropyl ether			0.0200	0.01973		mg/Kg		99	70 - 130	8	30
tert-Butanol			0.200	0.1785		mg/Kg		89	70 - 130	1	30
1,4-Dioxane			0.200	0.1724		mg/Kg		86	70 - 130	9	30
trans-1,4-Dichloro-2-butene			0.0200	0.02221	J	mg/Kg		111	70 - 130	4	30
Ethanol			0.400	0.4259	J	mg/Kg		106	70 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02433		mg/Kg		122	70 - 130
Acetone	0.0200	0.02159	J	mg/Kg		108	70 - 130
Acrylonitrile	0.0200	0.02263		mg/Kg		113	70 - 130
Benzene	0.0200	0.02352		mg/Kg		118	70 - 130
Bromobenzene	0.0200	0.02206		mg/Kg		110	70 - 130
Bromochloromethane	0.0200	0.02398		mg/Kg		120	70 - 130
Bromodichloromethane	0.0200	0.02331		mg/Kg		117	70 - 130
Bromoform	0.0200	0.02313		mg/Kg		116	70 - 130
Bromomethane	0.0200	0.02468		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.02143		mg/Kg		107	70 - 130
n-Butylbenzene	0.0200	0.02023		mg/Kg		101	70 - 130
sec-Butylbenzene	0.0200	0.02254		mg/Kg		113	70 - 130
tert-Butylbenzene	0.0200	0.02329		mg/Kg		116	70 - 130
Carbon disulfide	0.0200	0.02434		mg/Kg		122	70 - 130
Carbon tetrachloride	0.0200	0.02243		mg/Kg		112	70 - 130
Chlorobenzene	0.0200	0.02244		mg/Kg		112	70 - 130
Chloroethane	0.0200	0.02485		mg/Kg		124	70 - 130
Chloroform	0.0200	0.02362		mg/Kg		118	70 - 130
Chloromethane	0.0200	0.02105		mg/Kg		105	70 - 130
2-Chlorotoluene	0.0200	0.02252		mg/Kg		113	70 - 130
4-Chlorotoluene	0.0200	0.02216		mg/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02175		mg/Kg		109	70 - 130
Dibromochloromethane	0.0200	0.02329		mg/Kg		116	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02330		mg/Kg		116	70 - 130
Dibromomethane	0.0200	0.02376		mg/Kg		119	70 - 130
1,2-Dichlorobenzene	0.0200	0.02130		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02323		mg/Kg		116	70 - 130
1,4-Dichlorobenzene	0.0200	0.02149		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane (Freon 12)	0.0200	0.01553		mg/Kg		78	70 - 130
1,1-Dichloroethane	0.0200	0.02258		mg/Kg		113	70 - 130
1,2-Dichloroethane	0.0200	0.02210		mg/Kg		111	70 - 130
1,1-Dichloroethene	0.0200	0.02395		mg/Kg		120	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02220		mg/Kg		111	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02265		mg/Kg		113	70 - 130
1,2-Dichloropropane	0.0200	0.02190		mg/Kg		110	70 - 130
1,3-Dichloropropane	0.0200	0.02291		mg/Kg		115	70 - 130
2,2-Dichloropropane	0.0200	0.02134		mg/Kg		107	70 - 130
1,1-Dichloropropene	0.0200	0.02125		mg/Kg		106	70 - 130
cis-1,3-Dichloropropene	0.0200	0.02017		mg/Kg		101	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02237		mg/Kg		112	70 - 130
Ethylbenzene	0.0200	0.02182		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.02030		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01935		mg/Kg		97	70 - 130
Isopropylbenzene	0.0200	0.02134		mg/Kg		107	70 - 130
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130
Methyl tert-butyl ether	0.0200	0.02011		mg/Kg		101	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02012		mg/Kg		101	70 - 130
Methylene Chloride	0.0200	0.02358		mg/Kg		118	70 - 130
Naphthalene	0.0200	0.02169		mg/Kg		108	70 - 130
N-Propylbenzene	0.0200	0.02260		mg/Kg		113	70 - 130
Styrene	0.0200	0.02232		mg/Kg		112	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02220		mg/Kg		111	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02480		mg/Kg		124	70 - 130
Tetrachloroethene	0.0200	0.02262		mg/Kg		113	70 - 130
Toluene	0.0200	0.02380		mg/Kg		119	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02095		mg/Kg		105	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02193		mg/Kg		110	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02112		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02266		mg/Kg		113	70 - 130
1,1,2-Trichloroethane	0.0200	0.02455		mg/Kg		123	70 - 130
Trichloroethene	0.0200	0.02382		mg/Kg		119	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02290		mg/Kg		115	70 - 130
1,2,3-Trichloropropane	0.0200	0.02297		mg/Kg		115	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02258		mg/Kg		113	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02228		mg/Kg		111	70 - 130
Vinyl chloride	0.0200	0.02059		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02099		mg/Kg		105	70 - 130
o-Xylene	0.0200	0.02037		mg/Kg		102	70 - 130
Tetrahydrofuran	0.0200	0.01986		mg/Kg		99	70 - 130
Ethyl ether	0.0200	0.02235		mg/Kg		112	70 - 130
Tert-amyl methyl ether	0.0200	0.01939		mg/Kg		97	70 - 130
Ethyl tert-butyl ether	0.0200	0.01880		mg/Kg		94	70 - 130
di-Isopropyl ether	0.0200	0.01936		mg/Kg		97	70 - 130
tert-Butanol	0.200	0.1977		mg/Kg		99	70 - 130
1,4-Dioxane	0.200	0.1927		mg/Kg		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
trans-1,4-Dichloro-2-butene			0.0200	0.02300	J	mg/Kg		115	70 - 130		
Ethanol			0.400	0.4909	J	mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02484		mg/Kg		124	70 - 130	2	30
Acetone			0.0200	0.01999	J	mg/Kg		100	70 - 130	8	30
Acrylonitrile			0.0200	0.02333		mg/Kg		117	70 - 130	3	30
Benzene			0.0200	0.02444		mg/Kg		122	70 - 130	4	30
Bromobenzene			0.0200	0.02254		mg/Kg		113	70 - 130	2	30
Bromochloromethane			0.0200	0.02501		mg/Kg		125	70 - 130	4	30
Bromodichloromethane			0.0200	0.02411		mg/Kg		121	70 - 130	3	30
Bromoform			0.0200	0.02327		mg/Kg		116	70 - 130	1	30
Bromomethane			0.0200	0.02625	*+	mg/Kg		131	70 - 130	6	30
2-Butanone (MEK)			0.0200	0.02068		mg/Kg		103	70 - 130	4	30
n-Butylbenzene			0.0200	0.02082		mg/Kg		104	70 - 130	3	30
sec-Butylbenzene			0.0200	0.02269		mg/Kg		113	70 - 130	1	30
tert-Butylbenzene			0.0200	0.02365		mg/Kg		118	70 - 130	2	30
Carbon disulfide			0.0200	0.02478		mg/Kg		124	70 - 130	2	30
Carbon tetrachloride			0.0200	0.02356		mg/Kg		118	70 - 130	5	30
Chlorobenzene			0.0200	0.02280		mg/Kg		114	70 - 130	2	30
Chloroethane			0.0200	0.02645	*+	mg/Kg		132	70 - 130	6	30
Chloroform			0.0200	0.02414		mg/Kg		121	70 - 130	2	30
Chloromethane			0.0200	0.02155		mg/Kg		108	70 - 130	2	30
2-Chlorotoluene			0.0200	0.02279		mg/Kg		114	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02197		mg/Kg		110	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02282		mg/Kg		114	70 - 130	5	30
Dibromochloromethane			0.0200	0.02444		mg/Kg		122	70 - 130	5	30
1,2-Dibromoethane (EDB)			0.0200	0.02420		mg/Kg		121	70 - 130	4	30
Dibromomethane			0.0200	0.02413		mg/Kg		121	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02210		mg/Kg		110	70 - 130	4	30
1,3-Dichlorobenzene			0.0200	0.02325		mg/Kg		116	70 - 130	0	30
1,4-Dichlorobenzene			0.0200	0.02204		mg/Kg		110	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01619		mg/Kg		81	70 - 130	4	30
1,1-Dichloroethane			0.0200	0.02378		mg/Kg		119	70 - 130	5	30
1,2-Dichloroethane			0.0200	0.02275		mg/Kg		114	70 - 130	3	30
1,1-Dichloroethene			0.0200	0.02463		mg/Kg		123	70 - 130	3	30
cis-1,2-Dichloroethene			0.0200	0.02325		mg/Kg		116	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0200	0.02361		mg/Kg		118	70 - 130	4	30
1,2-Dichloropropane	0.0200	0.02283		mg/Kg		114	70 - 130	4	30
1,3-Dichloropropane	0.0200	0.02395		mg/Kg		120	70 - 130	4	30
2,2-Dichloropropane	0.0200	0.02210		mg/Kg		111	70 - 130	3	30
1,1-Dichloropropene	0.0200	0.02249		mg/Kg		112	70 - 130	6	30
cis-1,3-Dichloropropene	0.0200	0.02132		mg/Kg		107	70 - 130	6	30
trans-1,3-Dichloropropene	0.0200	0.02325		mg/Kg		116	70 - 130	4	30
Ethylbenzene	0.0200	0.02225		mg/Kg		111	70 - 130	2	30
Hexachlorobutadiene	0.0200	0.02149		mg/Kg		107	70 - 130	6	30
2-Hexanone (MBK)	0.0200	0.01925		mg/Kg		96	70 - 130	0	30
Isopropylbenzene	0.0200	0.02175		mg/Kg		109	70 - 130	2	30
4-Isopropyltoluene	0.0200	0.02060		mg/Kg		103	70 - 130	3	30
Methyl tert-butyl ether	0.0200	0.02119		mg/Kg		106	70 - 130	5	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Methylene Chloride	0.0200	0.02439		mg/Kg		122	70 - 130	3	30
Naphthalene	0.0200	0.02322		mg/Kg		116	70 - 130	7	30
N-Propylbenzene	0.0200	0.02262		mg/Kg		113	70 - 130	0	30
Styrene	0.0200	0.02260		mg/Kg		113	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02274		mg/Kg		114	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02427		mg/Kg		121	70 - 130	2	30
Tetrachloroethene	0.0200	0.02304		mg/Kg		115	70 - 130	2	30
Toluene	0.0200	0.02472		mg/Kg		124	70 - 130	4	30
1,2,3-Trichlorobenzene	0.0200	0.02266		mg/Kg		113	70 - 130	8	30
1,2,4-Trichlorobenzene	0.0200	0.02237		mg/Kg		112	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0200	0.02244		mg/Kg		112	70 - 130	6	30
1,1,1-Trichloroethane	0.0200	0.02338		mg/Kg		117	70 - 130	3	30
1,1,2-Trichloroethane	0.0200	0.02524		mg/Kg		126	70 - 130	3	30
Trichloroethene	0.0200	0.02439		mg/Kg		122	70 - 130	2	30
Trichlorofluoromethane (Freon 11)	0.0200	0.02363		mg/Kg		118	70 - 130	3	30
1,2,3-Trichloropropane	0.0200	0.02342		mg/Kg		117	70 - 130	2	30
1,2,4-Trimethylbenzene	0.0200	0.02270		mg/Kg		113	70 - 130	1	30
1,3,5-Trimethylbenzene	0.0200	0.02255		mg/Kg		113	70 - 130	1	30
Vinyl chloride	0.0200	0.02145		mg/Kg		107	70 - 130	4	30
m,p-Xylene	0.0200	0.02123		mg/Kg		106	70 - 130	1	30
o-Xylene	0.0200	0.02094		mg/Kg		105	70 - 130	3	30
Tetrahydrofuran	0.0200	0.01813		mg/Kg		91	70 - 130	9	30
Ethyl ether	0.0200	0.02268		mg/Kg		113	70 - 130	1	30
Tert-amyl methyl ether	0.0200	0.02009		mg/Kg		100	70 - 130	4	30
Ethyl tert-butyl ether	0.0200	0.01990		mg/Kg		100	70 - 130	6	30
di-Isopropyl ether	0.0200	0.02076		mg/Kg		104	70 - 130	7	30
tert-Butanol	0.200	0.1985		mg/Kg		99	70 - 130	0	30
1,4-Dioxane	0.200	0.1734		mg/Kg		87	70 - 130	11	30
trans-1,4-Dichloro-2-butene	0.0200	0.02306	J	mg/Kg		115	70 - 130	0	30
Ethanol	0.400	0.4703	J	mg/Kg		118	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.0189	0.02412		mg/Kg	☼	127	70 - 130
Acetone	ND	*3 F1 F2	0.0189	0.01305	J F1	mg/Kg	☼	69	70 - 130
Acrylonitrile	ND	*3 F1 F2	0.0189	0.01307	F1	mg/Kg	☼	69	70 - 130
Benzene	ND	*3	0.0189	0.02277		mg/Kg	☼	120	70 - 130
Bromobenzene	ND	*3	0.0189	0.01965		mg/Kg	☼	104	70 - 130
Bromochloromethane	ND	*3	0.0189	0.02102		mg/Kg	☼	111	70 - 130
Bromodichloromethane	ND	*3	0.0189	0.02360		mg/Kg	☼	125	70 - 130
Bromoform	ND	*3	0.0189	0.01833		mg/Kg	☼	97	70 - 130
Bromomethane	ND	*3 *+	0.0189	0.02374		mg/Kg	☼	125	70 - 130
2-Butanone (MEK)	ND	*3	0.0189	0.01344		mg/Kg	☼	71	70 - 130
n-Butylbenzene	ND	*3	0.0189	0.02162		mg/Kg	☼	114	70 - 130
sec-Butylbenzene	ND	*3	0.0189	0.02293		mg/Kg	☼	121	70 - 130
tert-Butylbenzene	ND	*3	0.0189	0.02261		mg/Kg	☼	119	70 - 130
Carbon disulfide	ND	*3	0.0189	0.02311		mg/Kg	☼	122	70 - 130
Carbon tetrachloride	ND	*3 F1	0.0189	0.02249		mg/Kg	☼	119	70 - 130
Chlorobenzene	ND	*3	0.0189	0.02359		mg/Kg	☼	125	70 - 130
Chloroethane	ND	*3 F1 *+	0.0189	0.02651	F1	mg/Kg	☼	140	70 - 130
Chloroform	ND	*3	0.0189	0.02208		mg/Kg	☼	117	70 - 130
Chloromethane	ND	*3	0.0189	0.02200		mg/Kg	☼	116	70 - 130
2-Chlorotoluene	ND	*3	0.0189	0.02189		mg/Kg	☼	116	70 - 130
4-Chlorotoluene	ND	*3	0.0189	0.02175		mg/Kg	☼	115	70 - 130
1,2-Dibromo-3-Chloropropane	ND	*3 F1 F2	0.0189	0.01049	F1	mg/Kg	☼	55	70 - 130
Dibromochloromethane	ND	*3	0.0189	0.02123		mg/Kg	☼	112	70 - 130
1,2-Dibromoethane (EDB)	ND	*3	0.0189	0.01775		mg/Kg	☼	94	70 - 130
Dibromomethane	ND	*3	0.0189	0.01889		mg/Kg	☼	100	70 - 130
1,2-Dichlorobenzene	ND	*3	0.0189	0.01944		mg/Kg	☼	103	70 - 130
1,3-Dichlorobenzene	ND	*3	0.0189	0.02224		mg/Kg	☼	118	70 - 130
1,4-Dichlorobenzene	ND	*3	0.0189	0.02127		mg/Kg	☼	112	70 - 130
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0189	0.01592		mg/Kg	☼	84	70 - 130
1,1-Dichloroethane	ND	*3	0.0189	0.02287		mg/Kg	☼	121	70 - 130
1,2-Dichloroethane	ND	*3	0.0189	0.01846		mg/Kg	☼	98	70 - 130
1,1-Dichloroethene	ND	*3	0.0189	0.02238		mg/Kg	☼	118	70 - 130
cis-1,2-Dichloroethene	ND	*3	0.0189	0.02088		mg/Kg	☼	110	70 - 130
trans-1,2-Dichloroethene	ND	*3	0.0189	0.02327		mg/Kg	☼	123	70 - 130
1,2-Dichloropropane	ND	*3	0.0189	0.02225		mg/Kg	☼	118	70 - 130
1,3-Dichloropropane	ND	*3	0.0189	0.01786		mg/Kg	☼	94	70 - 130
2,2-Dichloropropane	ND	*3	0.0189	0.02011		mg/Kg	☼	106	70 - 130
1,1-Dichloropropene	ND	*3	0.0189	0.01868		mg/Kg	☼	99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	ND	*3	0.0189	0.01657		mg/Kg	☼	88	70 - 130
trans-1,3-Dichloropropene	ND	*3	0.0189	0.01837		mg/Kg	☼	97	70 - 130
Ethylbenzene	ND	*3	0.0189	0.02266		mg/Kg	☼	120	70 - 130
Hexachlorobutadiene	ND	*3	0.0189	0.01810		mg/Kg	☼	96	70 - 130
2-Hexanone (MBK)	ND	*3 F1 F2	0.0189	0.009520	F1	mg/Kg	☼	50	70 - 130
Isopropylbenzene	ND	*3	0.0189	0.02045		mg/Kg	☼	108	70 - 130
4-Isopropyltoluene	ND	*3	0.0189	0.01955		mg/Kg	☼	103	70 - 130
Methyl tert-butyl ether	ND	*3	0.0189	0.01324		mg/Kg	☼	70	70 - 130
4-Methyl-2-pentanone (MIBK)	ND	*3 F1	0.0189	0.01138	F1	mg/Kg	☼	60	70 - 130
Methylene Chloride	ND	*3	0.0189	0.02163		mg/Kg	☼	114	70 - 130
Naphthalene	ND	*3 F1 F2	0.0189	0.008346	F1	mg/Kg	☼	44	70 - 130
N-Propylbenzene	ND	*3	0.0189	0.02336		mg/Kg	☼	123	70 - 130
Styrene	ND	*3	0.0189	0.02113		mg/Kg	☼	112	70 - 130
1,1,1,2-Tetrachloroethane	ND	*3	0.0189	0.02066		mg/Kg	☼	109	70 - 130
1,1,2,2-Tetrachloroethane	ND	*3	0.0189	0.01874		mg/Kg	☼	99	70 - 130
Tetrachloroethene	ND	*3	0.0189	0.02231		mg/Kg	☼	118	70 - 130
Toluene	ND	*3	0.0189	0.02378		mg/Kg	☼	126	70 - 130
1,2,3-Trichlorobenzene	ND	*3	0.0189	0.01373		mg/Kg	☼	73	70 - 130
1,2,4-Trichlorobenzene	ND	*3	0.0189	0.01560		mg/Kg	☼	82	70 - 130
1,3,5-Trichlorobenzene	ND	*3	0.0189	0.01771		mg/Kg	☼	94	70 - 130
1,1,1-Trichloroethane	ND	*3	0.0189	0.02211		mg/Kg	☼	117	70 - 130
1,1,2-Trichloroethane	ND	*3	0.0189	0.02210		mg/Kg	☼	117	70 - 130
Trichloroethene	ND	*3	0.0189	0.02141		mg/Kg	☼	113	70 - 130
Trichlorofluoromethane (Freon 11)	ND	*3	0.0189	0.02282		mg/Kg	☼	121	70 - 130
1,2,3-Trichloropropane	ND	*3	0.0189	0.01570		mg/Kg	☼	83	70 - 130
1,2,4-Trimethylbenzene	ND	*3	0.0189	0.02185		mg/Kg	☼	115	70 - 130
1,3,5-Trimethylbenzene	ND	*3	0.0189	0.02223		mg/Kg	☼	117	70 - 130
Vinyl chloride	ND	*3	0.0189	0.02161		mg/Kg	☼	114	70 - 130
m,p-Xylene	ND	*3	0.0378	0.04633		mg/Kg	☼	122	70 - 130
o-Xylene	ND	*3	0.0189	0.01974		mg/Kg	☼	104	70 - 130
Tetrahydrofuran	ND	*3 F1 F2	0.0189	0.01093	F1	mg/Kg	☼	58	70 - 130
Ethyl ether	ND	*3	0.0189	0.01549		mg/Kg	☼	82	70 - 130
Tert-amyl methyl ether	ND	*3	0.0189	0.01446		mg/Kg	☼	76	70 - 130
Ethyl tert-butyl ether	ND	*3	0.0189	0.01353		mg/Kg	☼	72	70 - 130
di-Isopropyl ether	ND	*3	0.0189	0.01468		mg/Kg	☼	78	70 - 130
tert-Butanol	ND	*3 F1 F2	0.189	0.1010	F1	mg/Kg	☼	53	70 - 130
1,4-Dioxane	ND	*3 F1 F2	0.189	0.09031	J F1	mg/Kg	☼	48	70 - 130
trans-1,4-Dichloro-2-butene	ND	*3	0.0189	0.01610	J	mg/Kg	☼	85	70 - 130
Ethanol	ND	*3 F1 F2	0.378	0.2413	J F1	mg/Kg	☼	64	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.0190	0.02347		mg/Kg	☼	123	70 - 130	3	30
Acetone	ND	*3 F1 F2	0.0190	0.01966	J F2	mg/Kg	☼	103	70 - 130	40	30
Acrylonitrile	ND	*3 F1 F2	0.0190	0.01855	F2	mg/Kg	☼	97	70 - 130	35	30
Benzene	ND	*3	0.0190	0.02240		mg/Kg	☼	118	70 - 130	2	30
Bromobenzene	ND	*3	0.0190	0.01939		mg/Kg	☼	102	70 - 130	1	30
Bromochloromethane	ND	*3	0.0190	0.02166		mg/Kg	☼	114	70 - 130	3	30
Bromodichloromethane	ND	*3	0.0190	0.02374		mg/Kg	☼	125	70 - 130	1	30
Bromoform	ND	*3	0.0190	0.02158		mg/Kg	☼	113	70 - 130	16	30
Bromomethane	ND	*3 *+	0.0190	0.02238		mg/Kg	☼	118	70 - 130	6	30
2-Butanone (MEK)	ND	*3	0.0190	0.01559		mg/Kg	☼	82	70 - 130	15	30
n-Butylbenzene	ND	*3	0.0190	0.02100		mg/Kg	☼	110	70 - 130	3	30
sec-Butylbenzene	ND	*3	0.0190	0.02165		mg/Kg	☼	114	70 - 130	6	30
tert-Butylbenzene	ND	*3	0.0190	0.02191		mg/Kg	☼	115	70 - 130	3	30
Carbon disulfide	ND	*3	0.0190	0.02243		mg/Kg	☼	118	70 - 130	3	30
Carbon tetrachloride	ND	*3 F1	0.0190	ND	F1	mg/Kg	☼	0	70 - 130	NC	30
Chlorobenzene	ND	*3	0.0190	0.02271		mg/Kg	☼	119	70 - 130	4	30
Chloroethane	ND	*3 F1 *+	0.0190	0.02321		mg/Kg	☼	122	70 - 130	13	30
Chloroform	ND	*3	0.0190	0.02170		mg/Kg	☼	114	70 - 130	2	30
Chloromethane	ND	*3	0.0190	0.02178		mg/Kg	☼	114	70 - 130	1	30
2-Chlorotoluene	ND	*3	0.0190	0.02111		mg/Kg	☼	111	70 - 130	4	30
4-Chlorotoluene	ND	*3	0.0190	0.02070		mg/Kg	☼	109	70 - 130	5	30
1,2-Dibromo-3-Chloropropane	ND	*3 F1 F2	0.0190	0.01600	F2	mg/Kg	☼	84	70 - 130	42	30
Dibromochloromethane	ND	*3	0.0190	0.02251		mg/Kg	☼	118	70 - 130	6	30
1,2-Dibromoethane (EDB)	ND	*3	0.0190	0.02076		mg/Kg	☼	109	70 - 130	16	30
Dibromomethane	ND	*3	0.0190	0.02120		mg/Kg	☼	111	70 - 130	12	30
1,2-Dichlorobenzene	ND	*3	0.0190	0.02026		mg/Kg	☼	106	70 - 130	4	30
1,3-Dichlorobenzene	ND	*3	0.0190	0.02179		mg/Kg	☼	114	70 - 130	2	30
1,4-Dichlorobenzene	ND	*3	0.0190	0.02098		mg/Kg	☼	110	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0190	0.01466		mg/Kg	☼	77	70 - 130	8	30
1,1-Dichloroethane	ND	*3	0.0190	0.02260		mg/Kg	☼	119	70 - 130	1	30
1,2-Dichloroethane	ND	*3	0.0190	0.01952		mg/Kg	☼	103	70 - 130	6	30
1,1-Dichloroethene	ND	*3	0.0190	0.02325		mg/Kg	☼	122	70 - 130	4	30
cis-1,2-Dichloroethene	ND	*3	0.0190	0.02140		mg/Kg	☼	112	70 - 130	2	30
trans-1,2-Dichloroethene	ND	*3	0.0190	0.02284		mg/Kg	☼	120	70 - 130	2	30
1,2-Dichloropropane	ND	*3	0.0190	0.02253		mg/Kg	☼	118	70 - 130	1	30
1,3-Dichloropropane	ND	*3	0.0190	0.01950		mg/Kg	☼	102	70 - 130	9	30
2,2-Dichloropropane	ND	*3	0.0190	0.01968		mg/Kg	☼	103	70 - 130	2	30
1,1-Dichloropropene	ND	*3	0.0190	0.01887		mg/Kg	☼	99	70 - 130	1	30
cis-1,3-Dichloropropene	ND	*3	0.0190	0.01736		mg/Kg	☼	91	70 - 130	5	30
trans-1,3-Dichloropropene	ND	*3	0.0190	0.01978		mg/Kg	☼	104	70 - 130	7	30
Ethylbenzene	ND	*3	0.0190	0.02167		mg/Kg	☼	114	70 - 130	4	30
Hexachlorobutadiene	ND	*3	0.0190	0.01841		mg/Kg	☼	97	70 - 130	2	30
2-Hexanone (MBK)	ND	*3 F1 F2	0.0190	0.01388	F2	mg/Kg	☼	73	70 - 130	37	30
Isopropylbenzene	ND	*3	0.0190	0.01979		mg/Kg	☼	104	70 - 130	3	30
4-Isopropyltoluene	ND	*3	0.0190	0.01916		mg/Kg	☼	101	70 - 130	2	30
Methyl tert-butyl ether	ND	*3	0.0190	0.01532		mg/Kg	☼	80	70 - 130	15	30
4-Methyl-2-pentanone (MIBK)	ND	*3 F1	0.0190	0.01517		mg/Kg	☼	80	70 - 130	29	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	ND	*3	0.0190	0.02395		mg/Kg	☼	126	70 - 130	10	30
Naphthalene	ND	*3 F1 F2	0.0190	0.01294	F1 F2	mg/Kg	☼	68	70 - 130	43	30
N-Propylbenzene	ND	*3	0.0190	0.02224		mg/Kg	☼	117	70 - 130	5	30
Styrene	ND	*3	0.0190	0.02059		mg/Kg	☼	108	70 - 130	3	30
1,1,1,2-Tetrachloroethane	ND	*3	0.0190	0.02032		mg/Kg	☼	107	70 - 130	2	30
1,1,2,2-Tetrachloroethane	ND	*3	0.0190	0.02300		mg/Kg	☼	121	70 - 130	20	30
Tetrachloroethene	ND	*3	0.0190	0.02233		mg/Kg	☼	117	70 - 130	0	30
Toluene	ND	*3	0.0190	0.02324		mg/Kg	☼	122	70 - 130	2	30
1,2,3-Trichlorobenzene	ND	*3	0.0190	0.01650		mg/Kg	☼	87	70 - 130	18	30
1,2,4-Trichlorobenzene	ND	*3	0.0190	0.01737		mg/Kg	☼	91	70 - 130	11	30
1,3,5-Trichlorobenzene	ND	*3	0.0190	0.01845		mg/Kg	☼	97	70 - 130	4	30
1,1,1-Trichloroethane	ND	*3	0.0190	0.02179		mg/Kg	☼	114	70 - 130	1	30
1,1,2-Trichloroethane	ND	*3	0.0190	0.02410		mg/Kg	☼	127	70 - 130	9	30
Trichloroethene	ND	*3	0.0190	0.02121		mg/Kg	☼	111	70 - 130	1	30
Trichlorofluoromethane (Freon 11)	ND	*3	0.0190	0.02319		mg/Kg	☼	122	70 - 130	2	30
1,2,3-Trichloropropane	ND	*3	0.0190	0.01957		mg/Kg	☼	103	70 - 130	22	30
1,2,4-Trimethylbenzene	ND	*3	0.0190	0.02081		mg/Kg	☼	109	70 - 130	5	30
1,3,5-Trimethylbenzene	ND	*3	0.0190	0.02128		mg/Kg	☼	112	70 - 130	4	30
Vinyl chloride	ND	*3	0.0190	0.02040		mg/Kg	☼	107	70 - 130	6	30
m,p-Xylene	ND	*3	0.0381	0.04404		mg/Kg	☼	116	70 - 130	5	30
o-Xylene	ND	*3	0.0190	0.01916		mg/Kg	☼	101	70 - 130	3	30
Tetrahydrofuran	ND	*3 F1 F2	0.0190	0.01544	F2	mg/Kg	☼	81	70 - 130	34	30
Ethyl ether	ND	*3	0.0190	0.01728		mg/Kg	☼	91	70 - 130	11	30
Tert-amyl methyl ether	ND	*3	0.0190	0.01613		mg/Kg	☼	85	70 - 130	11	30
Ethyl tert-butyl ether	ND	*3	0.0190	0.01494		mg/Kg	☼	78	70 - 130	10	30
di-Isopropyl ether	ND	*3	0.0190	0.01554		mg/Kg	☼	82	70 - 130	6	30
tert-Butanol	ND	*3 F1 F2	0.190	0.1691	F2	mg/Kg	☼	89	70 - 130	50	30
1,4-Dioxane	ND	*3 F1 F2	0.190	0.1446	F2	mg/Kg	☼	76	70 - 130	46	30
trans-1,4-Dichloro-2-butene	ND	*3	0.0190	0.02075	J	mg/Kg	☼	109	70 - 130	25	30
Ethanol	ND	*3 F1 F2	0.381	0.4028	J F2	mg/Kg	☼	106	70 - 130	50	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.0212	0.02924	F1	mg/Kg	☼	138	70 - 130
Acetone	ND		0.0212	0.02148	J	mg/Kg	☼	101	70 - 130
Acrylonitrile	ND		0.0212	0.02288		mg/Kg	☼	108	70 - 130
Benzene	ND		0.0212	0.02737		mg/Kg	☼	129	70 - 130
Bromobenzene	ND		0.0212	0.02235		mg/Kg	☼	105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	ND	F1	0.0212	0.02774	F1	mg/Kg	☼	131	70 - 130
Bromodichloromethane	ND	F1	0.0212	0.02925	F1	mg/Kg	☼	138	70 - 130
Bromoform	ND		0.0212	0.02571		mg/Kg	☼	121	70 - 130
Bromomethane	ND	*+	0.0212	0.02645		mg/Kg	☼	124	70 - 130
2-Butanone (MEK)	ND		0.0212	0.02105		mg/Kg	☼	99	70 - 130
n-Butylbenzene	ND		0.0212	0.02465		mg/Kg	☼	116	70 - 130
sec-Butylbenzene	ND		0.0212	0.02467		mg/Kg	☼	116	70 - 130
tert-Butylbenzene	ND		0.0212	0.02491		mg/Kg	☼	117	70 - 130
Carbon disulfide	ND		0.0212	0.02757		mg/Kg	☼	130	70 - 130
Carbon tetrachloride	ND		0.0212	0.02702		mg/Kg	☼	127	70 - 130
Chlorobenzene	ND		0.0212	0.02713		mg/Kg	☼	128	70 - 130
Chloroethane	ND	*+ F1	0.0212	0.02827	F1	mg/Kg	☼	133	70 - 130
Chloroform	ND		0.0212	0.02662		mg/Kg	☼	125	70 - 130
Chloromethane	ND		0.0212	0.02568		mg/Kg	☼	121	70 - 130
2-Chlorotoluene	ND		0.0212	0.02430		mg/Kg	☼	114	70 - 130
4-Chlorotoluene	ND		0.0212	0.02329		mg/Kg	☼	110	70 - 130
1,2-Dibromo-3-Chloropropane	ND		0.0212	0.02137		mg/Kg	☼	101	70 - 130
Dibromochloromethane	ND	F1	0.0212	0.02775	F1	mg/Kg	☼	131	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0212	0.02550		mg/Kg	☼	120	70 - 130
Dibromomethane	ND		0.0212	0.02618		mg/Kg	☼	123	70 - 130
1,2-Dichlorobenzene	ND		0.0212	0.02327		mg/Kg	☼	110	70 - 130
1,3-Dichlorobenzene	ND		0.0212	0.02287		mg/Kg	☼	108	70 - 130
1,4-Dichlorobenzene	ND		0.0212	0.02471		mg/Kg	☼	116	70 - 130
Dichlorodifluoromethane (Freon 12)	ND		0.0212	0.01773		mg/Kg	☼	83	70 - 130
1,1-Dichloroethane	ND	F1	0.0212	0.02831	F1	mg/Kg	☼	133	70 - 130
1,2-Dichloroethane	ND		0.0212	0.02434		mg/Kg	☼	115	70 - 130
1,1-Dichloroethene	ND	F1	0.0212	0.02853	F1	mg/Kg	☼	134	70 - 130
cis-1,2-Dichloroethene	ND		0.0212	0.02605		mg/Kg	☼	123	70 - 130
trans-1,2-Dichloroethene	ND	F1	0.0212	0.02843	F1	mg/Kg	☼	134	70 - 130
1,2-Dichloropropane	ND	F1	0.0212	0.02835	F1	mg/Kg	☼	133	70 - 130
1,3-Dichloropropane	ND		0.0212	0.02406		mg/Kg	☼	113	70 - 130
2,2-Dichloropropane	ND		0.0212	0.02439		mg/Kg	☼	115	70 - 130
1,1-Dichloropropene	ND		0.0212	0.02320		mg/Kg	☼	109	70 - 130
cis-1,3-Dichloropropene	ND		0.0212	0.02122		mg/Kg	☼	100	70 - 130
trans-1,3-Dichloropropene	ND		0.0212	0.02396		mg/Kg	☼	113	70 - 130
Ethylbenzene	ND		0.0212	0.02608		mg/Kg	☼	123	70 - 130
Hexachlorobutadiene	ND		0.0212	0.01928		mg/Kg	☼	91	70 - 130
2-Hexanone (MBK)	ND	F1	0.0212	0.01616		mg/Kg	☼	76	70 - 130
Isopropylbenzene	ND		0.0212	0.02382		mg/Kg	☼	112	70 - 130
4-Isopropyltoluene	ND		0.0212	0.02333		mg/Kg	☼	110	70 - 130
Methyl tert-butyl ether	ND		0.0212	0.02025		mg/Kg	☼	95	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		0.0212	0.01917		mg/Kg	☼	90	70 - 130
Methylene Chloride	ND		0.0212	0.02619		mg/Kg	☼	123	70 - 130
Naphthalene	ND	F1	0.0212	0.01221	F1	mg/Kg	☼	57	70 - 130
N-Propylbenzene	ND		0.0212	0.02599		mg/Kg	☼	122	70 - 130
Styrene	ND		0.0212	0.02317		mg/Kg	☼	109	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0212	0.02537		mg/Kg	☼	119	70 - 130
1,1,2,2-Tetrachloroethane	ND	F1	0.0212	0.02775	F1	mg/Kg	☼	131	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	ND		0.0212	0.02665		mg/Kg	☼	125	70 - 130
Toluene	ND	F1	0.0212	0.02796	F1	mg/Kg	☼	132	70 - 130
1,2,3-Trichlorobenzene	ND		0.0212	0.01577		mg/Kg	☼	74	70 - 130
1,2,4-Trichlorobenzene	ND		0.0212	0.01570		mg/Kg	☼	74	70 - 130
1,3,5-Trichlorobenzene	ND		0.0212	0.01979		mg/Kg	☼	93	70 - 130
1,1,1-Trichloroethane	ND		0.0212	0.02654		mg/Kg	☼	125	70 - 130
1,1,2-Trichloroethane	ND	F1	0.0212	0.02895	F1	mg/Kg	☼	136	70 - 130
Trichloroethene	ND		0.0212	0.02574		mg/Kg	☼	121	70 - 130
Trichlorofluoromethane (Freon 11)	ND	F1	0.0212	0.02786	F1	mg/Kg	☼	131	70 - 130
1,2,3-Trichloropropane	ND		0.0212	0.02365		mg/Kg	☼	111	70 - 130
1,2,4-Trimethylbenzene	ND		0.0212	0.02400		mg/Kg	☼	113	70 - 130
1,3,5-Trimethylbenzene	ND		0.0212	0.02452		mg/Kg	☼	115	70 - 130
Vinyl chloride	ND		0.0212	0.02470		mg/Kg	☼	116	70 - 130
m,p-Xylene	ND		0.0425	0.05268		mg/Kg	☼	124	70 - 130
o-Xylene	ND		0.0212	0.02313		mg/Kg	☼	109	70 - 130
Tetrahydrofuran	ND		0.0212	0.01936		mg/Kg	☼	91	70 - 130
Ethyl ether	ND		0.0212	0.02211		mg/Kg	☼	104	70 - 130
Tert-amyl methyl ether	ND		0.0212	0.02078		mg/Kg	☼	98	70 - 130
Ethyl tert-butyl ether	ND		0.0212	0.01954		mg/Kg	☼	92	70 - 130
di-Isopropyl ether	ND		0.0212	0.02020		mg/Kg	☼	95	70 - 130
tert-Butanol	ND		0.212	0.2140		mg/Kg	☼	101	70 - 130
1,4-Dioxane	ND		0.212	0.2235		mg/Kg	☼	105	70 - 130
trans-1,4-Dichloro-2-butene	ND		0.0212	0.02264	J	mg/Kg	☼	107	70 - 130
Ethanol	ND		0.425	0.5172	J	mg/Kg	☼	122	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.0195	0.02464		mg/Kg	☼	126	70 - 130	17	30
Acetone	ND		0.0195	0.01891	J	mg/Kg	☼	97	70 - 130	13	30
Acrylonitrile	ND		0.0195	0.02017		mg/Kg	☼	103	70 - 130	13	30
Benzene	ND		0.0195	0.02302		mg/Kg	☼	118	70 - 130	17	30
Bromobenzene	ND		0.0195	0.01964		mg/Kg	☼	101	70 - 130	13	30
Bromochloromethane	ND	F1	0.0195	0.02247		mg/Kg	☼	115	70 - 130	21	30
Bromodichloromethane	ND	F1	0.0195	0.02425		mg/Kg	☼	124	70 - 130	19	30
Bromoform	ND		0.0195	0.02203		mg/Kg	☼	113	70 - 130	15	30
Bromomethane	ND	*+	0.0195	0.02159		mg/Kg	☼	111	70 - 130	20	30
2-Butanone (MEK)	ND		0.0195	0.01668		mg/Kg	☼	85	70 - 130	23	30
n-Butylbenzene	ND		0.0195	0.02080		mg/Kg	☼	107	70 - 130	17	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	ND		0.0195	0.02134		mg/Kg	☼	109	70 - 130	14	30
tert-Butylbenzene	ND		0.0195	0.02196		mg/Kg	☼	112	70 - 130	13	30
Carbon disulfide	ND		0.0195	0.02276		mg/Kg	☼	117	70 - 130	19	30
Carbon tetrachloride	ND		0.0195	0.02256		mg/Kg	☼	116	70 - 130	18	30
Chlorobenzene	ND		0.0195	0.02352		mg/Kg	☼	120	70 - 130	14	30
Chloroethane	ND	*+ F1	0.0195	0.02422		mg/Kg	☼	124	70 - 130	15	30
Chloroform	ND		0.0195	0.02230		mg/Kg	☼	114	70 - 130	18	30
Chloromethane	ND		0.0195	0.02114		mg/Kg	☼	108	70 - 130	19	30
2-Chlorotoluene	ND		0.0195	0.02120		mg/Kg	☼	109	70 - 130	14	30
4-Chlorotoluene	ND		0.0195	0.02045		mg/Kg	☼	105	70 - 130	13	30
1,2-Dibromo-3-Chloropropane	ND		0.0195	0.01758		mg/Kg	☼	90	70 - 130	19	30
Dibromochloromethane	ND	F1	0.0195	0.02385		mg/Kg	☼	122	70 - 130	15	30
1,2-Dibromoethane (EDB)	ND		0.0195	0.02158		mg/Kg	☼	111	70 - 130	17	30
Dibromomethane	ND		0.0195	0.02239		mg/Kg	☼	115	70 - 130	16	30
1,2-Dichlorobenzene	ND		0.0195	0.02039		mg/Kg	☼	104	70 - 130	13	30
1,3-Dichlorobenzene	ND		0.0195	0.02086		mg/Kg	☼	107	70 - 130	9	30
1,4-Dichlorobenzene	ND		0.0195	0.02119		mg/Kg	☼	108	70 - 130	15	30
Dichlorodifluoromethane (Freon 12)	ND		0.0195	0.01407		mg/Kg	☼	72	70 - 130	23	30
1,1-Dichloroethane	ND	F1	0.0195	0.02309		mg/Kg	☼	118	70 - 130	20	30
1,2-Dichloroethane	ND		0.0195	0.02029		mg/Kg	☼	104	70 - 130	18	30
1,1-Dichloroethene	ND	F1	0.0195	0.02413		mg/Kg	☼	124	70 - 130	17	30
cis-1,2-Dichloroethene	ND		0.0195	0.02210		mg/Kg	☼	113	70 - 130	16	30
trans-1,2-Dichloroethene	ND	F1	0.0195	0.02381		mg/Kg	☼	122	70 - 130	18	30
1,2-Dichloropropane	ND	F1	0.0195	0.02293		mg/Kg	☼	117	70 - 130	21	30
1,3-Dichloropropane	ND		0.0195	0.02052		mg/Kg	☼	105	70 - 130	16	30
2,2-Dichloropropane	ND		0.0195	0.02043		mg/Kg	☼	105	70 - 130	18	30
1,1-Dichloropropene	ND		0.0195	0.01973		mg/Kg	☼	101	70 - 130	16	30
cis-1,3-Dichloropropene	ND		0.0195	0.01838		mg/Kg	☼	94	70 - 130	14	30
trans-1,3-Dichloropropene	ND		0.0195	0.02054		mg/Kg	☼	105	70 - 130	15	30
Ethylbenzene	ND		0.0195	0.02229		mg/Kg	☼	114	70 - 130	16	30
Hexachlorobutadiene	ND		0.0195	0.01552		mg/Kg	☼	79	70 - 130	22	30
2-Hexanone (MBK)	ND	F1	0.0195	0.01275	F1	mg/Kg	☼	65	70 - 130	24	30
Isopropylbenzene	ND		0.0195	0.02048		mg/Kg	☼	105	70 - 130	15	30
4-Isopropyltoluene	ND		0.0195	0.01938		mg/Kg	☼	99	70 - 130	18	30
Methyl tert-butyl ether	ND		0.0195	0.01696		mg/Kg	☼	87	70 - 130	18	30
4-Methyl-2-pentanone (MIBK)	ND		0.0195	0.01580		mg/Kg	☼	81	70 - 130	19	30
Methylene Chloride	ND		0.0195	0.02239		mg/Kg	☼	115	70 - 130	16	30
Naphthalene	ND	F1	0.0195	0.01133	F1	mg/Kg	☼	58	70 - 130	7	30
N-Propylbenzene	ND		0.0195	0.02228		mg/Kg	☼	114	70 - 130	15	30
Styrene	ND		0.0195	0.02039		mg/Kg	☼	104	70 - 130	13	30
1,1,1,2-Tetrachloroethane	ND		0.0195	0.02157		mg/Kg	☼	110	70 - 130	16	30
1,1,2,2-Tetrachloroethane	ND	F1	0.0195	0.02373		mg/Kg	☼	122	70 - 130	16	30
Tetrachloroethene	ND		0.0195	0.02254		mg/Kg	☼	115	70 - 130	17	30
Toluene	ND	F1	0.0195	0.02346		mg/Kg	☼	120	70 - 130	17	30
1,2,3-Trichlorobenzene	ND		0.0195	0.01369		mg/Kg	☼	70	70 - 130	14	30
1,2,4-Trichlorobenzene	ND		0.0195	0.01438		mg/Kg	☼	74	70 - 130	9	30
1,3,5-Trichlorobenzene	ND		0.0195	0.01691		mg/Kg	☼	87	70 - 130	16	30
1,1,1-Trichloroethane	ND		0.0195	0.02270		mg/Kg	☼	116	70 - 130	16	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND	F1	0.0195	0.02533		mg/Kg	☼	130	70 - 130	13	30
Trichloroethene	ND		0.0195	0.02176		mg/Kg	☼	111	70 - 130	17	30
Trichlorofluoromethane (Freon 11)	ND	F1	0.0195	0.02305		mg/Kg	☼	118	70 - 130	19	30
1,2,3-Trichloropropane	ND		0.0195	0.02003		mg/Kg	☼	103	70 - 130	17	30
1,2,4-Trimethylbenzene	ND		0.0195	0.02066		mg/Kg	☼	106	70 - 130	15	30
1,3,5-Trimethylbenzene	ND		0.0195	0.02130		mg/Kg	☼	109	70 - 130	14	30
Vinyl chloride	ND		0.0195	0.02060		mg/Kg	☼	105	70 - 130	18	30
m,p-Xylene	ND		0.0391	0.04538		mg/Kg	☼	116	70 - 130	15	30
o-Xylene	ND		0.0195	0.02038		mg/Kg	☼	104	70 - 130	13	30
Tetrahydrofuran	ND		0.0195	0.01607		mg/Kg	☼	82	70 - 130	19	30
Ethyl ether	ND		0.0195	0.01843		mg/Kg	☼	94	70 - 130	18	30
Tert-amyl methyl ether	ND		0.0195	0.01730		mg/Kg	☼	89	70 - 130	18	30
Ethyl tert-butyl ether	ND		0.0195	0.01634		mg/Kg	☼	84	70 - 130	18	30
di-Isopropyl ether	ND		0.0195	0.01663		mg/Kg	☼	85	70 - 130	19	30
tert-Butanol	ND		0.195	0.1824		mg/Kg	☼	93	70 - 130	16	30
1,4-Dioxane	ND		0.195	0.1745		mg/Kg	☼	89	70 - 130	25	30
trans-1,4-Dichloro-2-butene	ND		0.0195	0.02120	J	mg/Kg	☼	109	70 - 130	7	30
Ethanol	ND		0.391	0.4422	J	mg/Kg	☼	113	70 - 130	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Acetone	0.03405	J	0.0500	0.0112	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0160	0.01715		mg/Kg		107	70 - 130
Acetone	0.0160	0.01632	J	mg/Kg		102	70 - 130
Acrylonitrile	0.0160	0.01596		mg/Kg		100	70 - 130
Benzene	0.0160	0.01683		mg/Kg		105	70 - 130
Bromobenzene	0.0160	0.01937		mg/Kg		121	70 - 130
Bromochloromethane	0.0160	0.01781		mg/Kg		111	70 - 130
Bromodichloromethane	0.0160	0.01660		mg/Kg		104	70 - 130
Bromoform	0.0160	0.02043		mg/Kg		128	70 - 130
Bromomethane	0.0160	0.01949		mg/Kg		122	70 - 130
2-Butanone (MEK)	0.0160	0.01668		mg/Kg		104	70 - 130
n-Butylbenzene	0.0160	0.01893		mg/Kg		118	70 - 130
sec-Butylbenzene	0.0160	0.01948		mg/Kg		122	70 - 130
tert-Butylbenzene	0.0160	0.01646		mg/Kg		103	70 - 130
Carbon disulfide	0.0160	0.01708		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0160	0.01610		mg/Kg		101	70 - 130
Chlorobenzene	0.0160	0.02004		mg/Kg		125	70 - 130
Chloroethane	0.0160	0.01791		mg/Kg		112	70 - 130
Chloroform	0.0160	0.01671		mg/Kg		104	70 - 130
Chloromethane	0.0160	0.01352		mg/Kg		84	70 - 130
2-Chlorotoluene	0.0160	0.01939		mg/Kg		121	70 - 130
4-Chlorotoluene	0.0160	0.01906		mg/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	0.0160	0.02222	*+	mg/Kg		139	70 - 130
Dibromochloromethane	0.0160	0.01716		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0160	0.01737		mg/Kg		109	70 - 130
Dibromomethane	0.0160	0.01698		mg/Kg		106	70 - 130
1,2-Dichlorobenzene	0.0160	0.02056		mg/Kg		128	70 - 130
1,3-Dichlorobenzene	0.0160	0.02015		mg/Kg		126	70 - 130
1,4-Dichlorobenzene	0.0160	0.02080		mg/Kg		130	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0160	0.01044	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0160	0.01612		mg/Kg		101	70 - 130
1,2-Dichloroethane	0.0160	0.01594		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0160	0.01637		mg/Kg		102	70 - 130
cis-1,2-Dichloroethene	0.0160	0.01557		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0160	0.01632		mg/Kg		102	70 - 130
1,2-Dichloropropane	0.0160	0.01585		mg/Kg		99	70 - 130
1,3-Dichloropropane	0.0160	0.01650		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0160	0.01484		mg/Kg		93	70 - 130
1,1-Dichloropropene	0.0160	0.01492		mg/Kg		93	70 - 130
cis-1,3-Dichloropropene	0.0160	0.01418		mg/Kg		89	70 - 130
trans-1,3-Dichloropropene	0.0160	0.01617		mg/Kg		101	70 - 130
Ethylbenzene	0.0160	0.01900		mg/Kg		119	70 - 130
Hexachlorobutadiene	0.0160	0.01870		mg/Kg		117	70 - 130
2-Hexanone (MBK)	0.0160	0.01280		mg/Kg		80	70 - 130
Isopropylbenzene	0.0160	0.01835		mg/Kg		115	70 - 130
4-Isopropyltoluene	0.0160	0.01851		mg/Kg		116	70 - 130
Methyl tert-butyl ether	0.0160	0.01422		mg/Kg		89	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0160	0.01422		mg/Kg		89	70 - 130
Methylene Chloride	0.0160	0.01650		mg/Kg		103	70 - 130
Naphthalene	0.0160	0.01950		mg/Kg		122	70 - 130
N-Propylbenzene	0.0160	0.01959		mg/Kg		122	70 - 130
Styrene	0.0160	0.01935		mg/Kg		121	70 - 130
1,1,1,2-Tetrachloroethane	0.0160	0.01982		mg/Kg		124	70 - 130
1,1,2,2-Tetrachloroethane	0.0160	0.02161	*+	mg/Kg		135	70 - 130
Tetrachloroethene	0.0160	0.01598		mg/Kg		100	70 - 130
Toluene	0.0160	0.01722		mg/Kg		108	70 - 130
1,2,3-Trichlorobenzene	0.0160	0.02006		mg/Kg		125	70 - 130
1,2,4-Trichlorobenzene	0.0160	0.01833		mg/Kg		115	70 - 130
1,3,5-Trichlorobenzene	0.0160	0.02037		mg/Kg		127	70 - 130
1,1,1-Trichloroethane	0.0160	0.01610		mg/Kg		101	70 - 130
1,1,2-Trichloroethane	0.0160	0.01792		mg/Kg		112	70 - 130
Trichloroethene	0.0160	0.01724		mg/Kg		108	70 - 130
Trichlorofluoromethane (Freon 11)	0.0160	0.01590		mg/Kg		99	70 - 130
1,2,3-Trichloropropane	0.0160	0.02047		mg/Kg		128	70 - 130
1,2,4-Trimethylbenzene	0.0160	0.01932		mg/Kg		121	70 - 130
1,3,5-Trimethylbenzene	0.0160	0.01929		mg/Kg		121	70 - 130
Vinyl chloride	0.0160	0.01462		mg/Kg		91	70 - 130
m,p-Xylene	0.0160	0.01789		mg/Kg		112	70 - 130
o-Xylene	0.0160	0.01724		mg/Kg		108	70 - 130
Tetrahydrofuran	0.0160	0.01358		mg/Kg		85	70 - 130
Ethyl ether	0.0160	0.01581		mg/Kg		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0160	0.01394		mg/Kg		87	70 - 130		
Ethyl tert-butyl ether			0.0160	0.01296		mg/Kg		81	70 - 130		
di-Isopropyl ether			0.0160	0.01332		mg/Kg		83	70 - 130		
tert-Butanol			0.160	0.1420		mg/Kg		89	70 - 130		
1,4-Dioxane			0.160	0.1189		mg/Kg		74	70 - 130		
trans-1,4-Dichloro-2-butene			0.0160	0.01631	J	mg/Kg		102	70 - 130		
Ethanol			0.320	0.3117	J	mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0160	0.01667		mg/Kg		104	70 - 130	3	30
Acetone			0.0160	0.01605	J	mg/Kg		100	70 - 130	2	30
Acrylonitrile			0.0160	0.01566		mg/Kg		98	70 - 130	2	30
Benzene			0.0160	0.01629		mg/Kg		102	70 - 130	3	30
Bromobenzene			0.0160	0.01889		mg/Kg		118	70 - 130	3	30
Bromochloromethane			0.0160	0.01722		mg/Kg		108	70 - 130	3	30
Bromodichloromethane			0.0160	0.01610		mg/Kg		101	70 - 130	3	30
Bromoform			0.0160	0.02043		mg/Kg		128	70 - 130	0	30
Bromomethane			0.0160	0.01893		mg/Kg		118	70 - 130	3	30
2-Butanone (MEK)			0.0160	0.01654		mg/Kg		103	70 - 130	1	30
n-Butylbenzene			0.0160	0.01794		mg/Kg		112	70 - 130	5	30
sec-Butylbenzene			0.0160	0.01889		mg/Kg		118	70 - 130	3	30
tert-Butylbenzene			0.0160	0.01608		mg/Kg		101	70 - 130	2	30
Carbon disulfide			0.0160	0.01653		mg/Kg		103	70 - 130	3	30
Carbon tetrachloride			0.0160	0.01571		mg/Kg		98	70 - 130	2	30
Chlorobenzene			0.0160	0.01940		mg/Kg		121	70 - 130	3	30
Chloroethane			0.0160	0.01767		mg/Kg		110	70 - 130	1	30
Chloroform			0.0160	0.01646		mg/Kg		103	70 - 130	2	30
Chloromethane			0.0160	0.01304		mg/Kg		82	70 - 130	4	30
2-Chlorotoluene			0.0160	0.01870		mg/Kg		117	70 - 130	4	30
4-Chlorotoluene			0.0160	0.01838		mg/Kg		115	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			0.0160	0.02251	*+	mg/Kg		141	70 - 130	1	30
Dibromochloromethane			0.0160	0.01721		mg/Kg		108	70 - 130	0	30
1,2-Dibromoethane (EDB)			0.0160	0.01651		mg/Kg		103	70 - 130	5	30
Dibromomethane			0.0160	0.01656		mg/Kg		104	70 - 130	2	30
1,2-Dichlorobenzene			0.0160	0.02022		mg/Kg		126	70 - 130	2	30
1,3-Dichlorobenzene			0.0160	0.01964		mg/Kg		123	70 - 130	3	30
1,4-Dichlorobenzene			0.0160	0.01997		mg/Kg		125	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0160	0.009832	J *-	mg/Kg		61	70 - 130	6	30
1,1-Dichloroethane	0.0160	0.01578		mg/Kg		99	70 - 130	2	30
1,2-Dichloroethane	0.0160	0.01544		mg/Kg		97	70 - 130	3	30
1,1-Dichloroethene	0.0160	0.01598		mg/Kg		100	70 - 130	2	30
cis-1,2-Dichloroethene	0.0160	0.01552		mg/Kg		97	70 - 130	0	30
trans-1,2-Dichloroethene	0.0160	0.01570		mg/Kg		98	70 - 130	4	30
1,2-Dichloropropane	0.0160	0.01531		mg/Kg		96	70 - 130	3	30
1,3-Dichloropropane	0.0160	0.01620		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane	0.0160	0.01469		mg/Kg		92	70 - 130	1	30
1,1-Dichloropropene	0.0160	0.01487		mg/Kg		93	70 - 130	0	30
cis-1,3-Dichloropropene	0.0160	0.01434		mg/Kg		90	70 - 130	1	30
trans-1,3-Dichloropropene	0.0160	0.01554		mg/Kg		97	70 - 130	4	30
Ethylbenzene	0.0160	0.01884		mg/Kg		118	70 - 130	1	30
Hexachlorobutadiene	0.0160	0.01868		mg/Kg		117	70 - 130	0	30
2-Hexanone (MBK)	0.0160	0.01305		mg/Kg		82	70 - 130	2	30
Isopropylbenzene	0.0160	0.01806		mg/Kg		113	70 - 130	2	30
4-Isopropyltoluene	0.0160	0.01822		mg/Kg		114	70 - 130	2	30
Methyl tert-butyl ether	0.0160	0.01431		mg/Kg		89	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0160	0.01368		mg/Kg		85	70 - 130	4	30
Methylene Chloride	0.0160	0.01616		mg/Kg		101	70 - 130	2	30
Naphthalene	0.0160	0.02025		mg/Kg		127	70 - 130	4	30
N-Propylbenzene	0.0160	0.01875		mg/Kg		117	70 - 130	4	30
Styrene	0.0160	0.01881		mg/Kg		118	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0160	0.01947		mg/Kg		122	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0160	0.02100	*+	mg/Kg		131	70 - 130	3	30
Tetrachloroethene	0.0160	0.01583		mg/Kg		99	70 - 130	1	30
Toluene	0.0160	0.01689		mg/Kg		106	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0160	0.01961		mg/Kg		123	70 - 130	2	30
1,2,4-Trichlorobenzene	0.0160	0.01800		mg/Kg		113	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0160	0.01945		mg/Kg		122	70 - 130	5	30
1,1,1-Trichloroethane	0.0160	0.01583		mg/Kg		99	70 - 130	2	30
1,1,2-Trichloroethane	0.0160	0.01757		mg/Kg		110	70 - 130	2	30
Trichloroethene	0.0160	0.01656		mg/Kg		104	70 - 130	4	30
Trichlorofluoromethane (Freon 11)	0.0160	0.01549		mg/Kg		97	70 - 130	3	30
1,2,3-Trichloropropane	0.0160	0.02035		mg/Kg		127	70 - 130	1	30
1,2,4-Trimethylbenzene	0.0160	0.01861		mg/Kg		116	70 - 130	4	30
1,3,5-Trimethylbenzene	0.0160	0.01886		mg/Kg		118	70 - 130	2	30
Vinyl chloride	0.0160	0.01406		mg/Kg		88	70 - 130	4	30
m,p-Xylene	0.0160	0.01762		mg/Kg		110	70 - 130	2	30
o-Xylene	0.0160	0.01700		mg/Kg		106	70 - 130	1	30
Tetrahydrofuran	0.0160	0.01385		mg/Kg		87	70 - 130	2	30
Ethyl ether	0.0160	0.01566		mg/Kg		98	70 - 130	1	30
Tert-amyl methyl ether	0.0160	0.01370		mg/Kg		86	70 - 130	2	30
Ethyl tert-butyl ether	0.0160	0.01300		mg/Kg		81	70 - 130	0	30
di-Isopropyl ether	0.0160	0.01372		mg/Kg		86	70 - 130	3	30
tert-Butanol	0.160	0.1448		mg/Kg		91	70 - 130	2	30
1,4-Dioxane	0.160	0.1136		mg/Kg		71	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0160	0.01563	J	mg/Kg		98	70 - 130	4	30
Ethanol			0.320	0.3615	J	mg/Kg		113	70 - 130	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Aniline	ND		0.330	0.0253	mg/Kg		03/13/23 11:00	03/13/23 20:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.0667	0.0386	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Phenol	ND		0.330	0.0680	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/13/23 11:00	03/13/23 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
2-Fluorophenol (Surr)	*81*		*15 - 110*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/13/23 11:00*	*03/13/23 20:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	46		15 - 110	03/13/23 11:00	03/13/23 20:30	1
Terphenyl-d14	70		30 - 130	03/13/23 11:00	03/13/23 20:30	1

Lab Sample ID: LCS 620-20475/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.038		mg/Kg		62	40 - 140
1,2,4-Trichlorobenzene	1.67	1.338		mg/Kg		80	40 - 140
1,2-Dichlorobenzene	1.67	1.248		mg/Kg		75	40 - 140
1,3-Dichlorobenzene	1.67	1.271		mg/Kg		76	40 - 140
1,4-Dichlorobenzene	1.67	1.235		mg/Kg		74	40 - 140
1-Methylnaphthalene	1.67	1.376		mg/Kg		83	40 - 140
2,4,5-Trichlorophenol	1.67	1.319		mg/Kg		79	30 - 130
2,4,6-Trichlorophenol	1.67	1.424		mg/Kg		85	30 - 130
2,4-Dichlorophenol	1.67	1.294		mg/Kg		78	30 - 130
2,4-Dimethylphenol	1.67	1.256		mg/Kg		75	30 - 130
2,4-Dinitrophenol	1.67	1.737		mg/Kg		104	30 - 130
2,4-Dinitrotoluene	1.67	1.424		mg/Kg		85	40 - 140
2,6-Dinitrotoluene	1.67	1.385		mg/Kg		83	40 - 140
2-Chloronaphthalene	1.67	1.343		mg/Kg		81	40 - 140
2-Chlorophenol	1.67	1.309		mg/Kg		79	30 - 130
2-Methylnaphthalene	1.67	1.387		mg/Kg		83	40 - 140
2-Methylphenol	1.67	1.410		mg/Kg		85	30 - 130
2-Nitroaniline	1.67	1.402		mg/Kg		84	40 - 140
2-Nitrophenol	1.67	1.368		mg/Kg		82	30 - 130
3 & 4 Methylphenol	1.67	1.396		mg/Kg		84	30 - 130
3,3'-Dichlorobenzidine	1.67	1.894		mg/Kg		114	40 - 140
3-Nitroaniline	1.67	0.9997		mg/Kg		60	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.156		mg/Kg		69	30 - 130
4-Bromophenyl phenyl ether	1.67	1.419		mg/Kg		85	40 - 140
4-Chloro-3-methylphenol	1.67	1.421		mg/Kg		85	30 - 130
4-Chloroaniline	1.67	0.8748		mg/Kg		52	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.334		mg/Kg		80	40 - 140
4-Nitroaniline	1.67	1.313		mg/Kg		79	40 - 140
4-Nitrophenol	1.67	1.187		mg/Kg		71	30 - 130
Acenaphthene	1.67	1.304		mg/Kg		78	40 - 140
Acenaphthylene	1.67	1.322		mg/Kg		79	40 - 140
Acetophenone	1.67	1.366		mg/Kg		82	40 - 140
Aniline	1.67	1.065		mg/Kg		64	40 - 140
Anthracene	1.67	1.588		mg/Kg		95	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.396		mg/Kg		84	40 - 140
Benzidine	1.67	1.022		mg/Kg		61	40 - 140
Benzo[a]anthracene	1.67	1.533		mg/Kg		92	40 - 140
Benzo[a]pyrene	1.67	1.383		mg/Kg		83	40 - 140
Benzo[b]fluoranthene	1.67	1.523		mg/Kg		91	40 - 140
Benzo[g,h,i]perylene	1.67	1.427		mg/Kg		86	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20475/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[k]fluoranthene	1.67	1.254		mg/Kg		75	40 - 140
Benzoic acid	1.67	0.5241		mg/Kg		31	30 - 130
Benzyl alcohol	1.67	1.195		mg/Kg		72	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.226		mg/Kg		74	40 - 140
Bis(2-chloroethyl)ether	1.67	1.255		mg/Kg		75	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.129		mg/Kg		68	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.577		mg/Kg		95	40 - 140
Butyl benzyl phthalate	1.67	1.492		mg/Kg		90	40 - 140
Carbazole	1.67	1.451		mg/Kg		87	40 - 140
Chrysene	1.67	1.530		mg/Kg		92	40 - 140
Dibenz(a,h)anthracene	1.67	1.317		mg/Kg		79	40 - 140
Dibenzofuran	1.67	1.432		mg/Kg		86	40 - 140
Diethyl phthalate	1.67	1.337		mg/Kg		80	40 - 140
Dimethyl phthalate	1.67	1.408		mg/Kg		84	40 - 140
Di-n-butyl phthalate	1.67	1.587		mg/Kg		95	40 - 140
Di-n-octyl phthalate	1.67	1.546		mg/Kg		93	40 - 140
Fluoranthene	1.67	1.524		mg/Kg		91	40 - 140
Fluorene	1.67	1.284		mg/Kg		77	40 - 140
Hexachlorobenzene	1.67	1.412		mg/Kg		85	40 - 140
Hexachlorobutadiene	1.67	1.134		mg/Kg		68	40 - 140
Hexachlorocyclopentadiene	1.67	1.436		mg/Kg		86	40 - 140
Hexachloroethane	1.67	1.262		mg/Kg		76	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.284		mg/Kg		77	40 - 140
Isophorone	1.67	1.051		mg/Kg		63	40 - 140
Naphthalene	1.67	1.323		mg/Kg		79	40 - 140
Nitrobenzene	1.67	1.361		mg/Kg		82	40 - 140
N-Nitrosodimethylamine	1.67	1.148		mg/Kg		69	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.300		mg/Kg		78	40 - 140
N-Nitrosodiphenylamine	1.67	1.484		mg/Kg		89	40 - 140
Pentachloronitrobenzene	1.67	1.034		mg/Kg		62	40 - 140
Pentachlorophenol	1.67	1.122		mg/Kg		67	30 - 130
Phenanthrene	1.67	1.427		mg/Kg		86	40 - 140
Phenol	1.67	1.380		mg/Kg		83	40 - 140
Pyrene	1.67	1.568		mg/Kg		94	40 - 140
Pyridine	1.67	0.9719		mg/Kg		58	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*83*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*76*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20475/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.034		mg/Kg		62	40 - 140	0	30
1,2,4-Trichlorobenzene			1.67	1.327		mg/Kg		80	40 - 140	1	30
1,2-Dichlorobenzene			1.67	1.233		mg/Kg		74	40 - 140	1	30
1,3-Dichlorobenzene			1.67	1.261		mg/Kg		76	40 - 140	1	30
1,4-Dichlorobenzene			1.67	1.217		mg/Kg		73	40 - 140	1	30
1-Methylnaphthalene			1.67	1.364		mg/Kg		82	40 - 140	1	30
2,4,5-Trichlorophenol			1.67	1.271		mg/Kg		76	30 - 130	4	30
2,4,6-Trichlorophenol			1.67	1.395		mg/Kg		84	30 - 130	2	30
2,4-Dichlorophenol			1.67	1.264		mg/Kg		76	30 - 130	2	30
2,4-Dimethylphenol			1.67	1.252		mg/Kg		75	30 - 130	0	30
2,4-Dinitrophenol			1.67	1.679		mg/Kg		101	30 - 130	3	30
2,4-Dinitrotoluene			1.67	1.352		mg/Kg		81	40 - 140	5	30
2,6-Dinitrotoluene			1.67	1.349		mg/Kg		81	40 - 140	3	30
2-Chloronaphthalene			1.67	1.313		mg/Kg		79	40 - 140	2	30
2-Chlorophenol			1.67	1.306		mg/Kg		78	30 - 130	0	30
2-Methylnaphthalene			1.67	1.353		mg/Kg		81	40 - 140	2	30
2-Methylphenol			1.67	1.392		mg/Kg		84	30 - 130	1	30
2-Nitroaniline			1.67	1.345		mg/Kg		81	40 - 140	4	30
2-Nitrophenol			1.67	1.342		mg/Kg		81	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.408		mg/Kg		85	30 - 130	1	30
3,3'-Dichlorobenzidine			1.67	1.965		mg/Kg		118	40 - 140	4	30
3-Nitroaniline			1.67	1.078		mg/Kg		65	40 - 140	8	30
4,6-Dinitro-2-methylphenol			1.67	1.155		mg/Kg		69	30 - 130	0	30
4-Bromophenyl phenyl ether			1.67	1.385		mg/Kg		83	40 - 140	2	30
4-Chloro-3-methylphenol			1.67	1.372		mg/Kg		82	30 - 130	3	30
4-Chloroaniline			1.67	1.014		mg/Kg		61	40 - 140	15	30
4-Chlorophenyl phenyl ether			1.67	1.312		mg/Kg		79	40 - 140	2	30
4-Nitroaniline			1.67	1.286		mg/Kg		77	40 - 140	2	30
4-Nitrophenol			1.67	1.147		mg/Kg		69	30 - 130	3	30
Acenaphthene			1.67	1.276		mg/Kg		77	40 - 140	2	30
Acenaphthylene			1.67	1.301		mg/Kg		78	40 - 140	2	30
Acetophenone			1.67	1.345		mg/Kg		81	40 - 140	1	30
Aniline			1.67	1.174		mg/Kg		70	40 - 140	10	30
Anthracene			1.67	1.579		mg/Kg		95	40 - 140	1	30
Azobenzene/Diphenyldiazene			1.67	1.359		mg/Kg		82	40 - 140	3	30
Benzidine			1.67	1.063		mg/Kg		64	40 - 140	4	30
Benzo[a]anthracene			1.67	1.521		mg/Kg		91	40 - 140	1	30
Benzo[a]pyrene			1.67	1.375		mg/Kg		82	40 - 140	1	30
Benzo[b]fluoranthene			1.67	1.503		mg/Kg		90	40 - 140	1	30
Benzo[g,h,i]perylene			1.67	1.434		mg/Kg		86	40 - 140	0	30
Benzo[k]fluoranthene			1.67	1.257		mg/Kg		75	40 - 140	0	30
Benzoic acid			1.67	0.3648	*- *1	mg/Kg		22	30 - 130	36	30
Benzyl alcohol			1.67	1.203		mg/Kg		72	40 - 140	1	30
Bis(2-chloroethoxy)methane			1.67	1.240		mg/Kg		74	40 - 140	1	30
Bis(2-chloroethyl)ether			1.67	1.268		mg/Kg		76	40 - 140	1	30
bis (2-chloroisopropyl) ether			1.67	0.9673		mg/Kg		58	40 - 140	15	30
Bis(2-ethylhexyl) phthalate			1.67	1.589		mg/Kg		95	40 - 140	1	30
Butyl benzyl phthalate			1.67	1.480		mg/Kg		89	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20475/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbazole			1.67	1.443		mg/Kg		87	40 - 140	1	30
Chrysene			1.67	1.519		mg/Kg		91	40 - 140	1	30
Dibenz(a,h)anthracene			1.67	1.331		mg/Kg		80	40 - 140	1	30
Dibenzofuran			1.67	1.388		mg/Kg		83	40 - 140	3	30
Diethyl phthalate			1.67	1.306		mg/Kg		78	40 - 140	2	30
Dimethyl phthalate			1.67	1.377		mg/Kg		83	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.558		mg/Kg		93	40 - 140	2	30
Di-n-octyl phthalate			1.67	1.543		mg/Kg		93	40 - 140	0	30
Fluoranthene			1.67	1.507		mg/Kg		90	40 - 140	1	30
Fluorene			1.67	1.262		mg/Kg		76	40 - 140	2	30
Hexachlorobenzene			1.67	1.405		mg/Kg		84	40 - 140	0	30
Hexachlorobutadiene			1.67	1.164		mg/Kg		70	40 - 140	3	30
Hexachlorocyclopentadiene			1.67	1.399		mg/Kg		84	40 - 140	3	30
Hexachloroethane			1.67	1.255		mg/Kg		75	40 - 140	1	30
Indeno[1,2,3-cd]pyrene			1.67	1.302		mg/Kg		78	40 - 140	1	30
Isophorone			1.67	1.052		mg/Kg		63	40 - 140	0	30
Naphthalene			1.67	1.323		mg/Kg		79	40 - 140	0	30
Nitrobenzene			1.67	1.355		mg/Kg		81	40 - 140	0	30
N-Nitrosodimethylamine			1.67	1.106		mg/Kg		66	40 - 140	4	30
N-Nitrosodi-n-propylamine			1.67	1.296		mg/Kg		78	40 - 140	0	30
N-Nitrosodiphenylamine			1.67	1.449		mg/Kg		87	40 - 140	2	30
Pentachloronitrobenzene			1.67	1.008		mg/Kg		60	40 - 140	3	30
Pentachlorophenol			1.67	1.117		mg/Kg		67	30 - 130	0	30
Phenanthrene			1.67	1.380		mg/Kg		83	40 - 140	3	30
Phenol			1.67	1.379		mg/Kg		83	40 - 140	0	30
Pyrene			1.67	1.557		mg/Kg		93	40 - 140	1	30
Pyridine			1.67	0.9389		mg/Kg		56	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*82*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*
Terphenyl-d14	*75*		*30 - 130*

Lab Sample ID: MB 620-20520/1-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/14/23 10:48	03/14/23 13:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20520/1-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Aniline	ND		0.330	0.0253	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/14/23 10:48	03/14/23 13:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20520/1-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pentachlorophenol	0.1521	J	0.330	0.135	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Phenol	ND		0.330	0.0680	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/14/23 10:48	03/14/23 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*30 - 130*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
2-Fluorophenol (Surr)	*71*		*15 - 110*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
2,4,6-Tribromophenol (Surr)	*50*		*15 - 110*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/14/23 10:48*	*03/14/23 13:42*	*1*

Lab Sample ID: LCS 620-20520/2-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9177		mg/Kg		55	40 - 140
1,2,4-Trichlorobenzene	1.67	1.126		mg/Kg		68	40 - 140
1,2-Dichlorobenzene	1.67	1.073		mg/Kg		64	40 - 140
1,3-Dichlorobenzene	1.67	1.094		mg/Kg		66	40 - 140
1,4-Dichlorobenzene	1.67	1.089		mg/Kg		65	40 - 140
1-Methylnaphthalene	1.67	1.242		mg/Kg		75	40 - 140
2,4,5-Trichlorophenol	1.67	1.237		mg/Kg		74	30 - 130
2,4,6-Trichlorophenol	1.67	1.314		mg/Kg		79	30 - 130
2,4-Dichlorophenol	1.67	1.130		mg/Kg		68	30 - 130
2,4-Dimethylphenol	1.67	1.148		mg/Kg		69	30 - 130
2,4-Dinitrophenol	1.67	1.523		mg/Kg		91	30 - 130
2,4-Dinitrotoluene	1.67	1.433		mg/Kg		86	40 - 140
2,6-Dinitrotoluene	1.67	1.309		mg/Kg		79	40 - 140
2-Chloronaphthalene	1.67	1.221		mg/Kg		73	40 - 140
2-Chlorophenol	1.67	1.170		mg/Kg		70	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20520/2-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.67	1.209		mg/Kg		73	40 - 140
2-Methylphenol	1.67	1.322		mg/Kg		79	30 - 130
2-Nitroaniline	1.67	1.321		mg/Kg		79	40 - 140
2-Nitrophenol	1.67	1.202		mg/Kg		72	30 - 130
3 & 4 Methylphenol	1.67	1.312		mg/Kg		79	30 - 130
3,3'-Dichlorobenzidine	1.67	1.962		mg/Kg		118	40 - 140
3-Nitroaniline	1.67	1.062		mg/Kg		64	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.7863		mg/Kg		47	30 - 130
4-Bromophenyl phenyl ether	1.67	1.327		mg/Kg		80	40 - 140
4-Chloro-3-methylphenol	1.67	1.275		mg/Kg		76	30 - 130
4-Chloroaniline	1.67	0.8223		mg/Kg		49	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.229		mg/Kg		74	40 - 140
4-Nitroaniline	1.67	1.423		mg/Kg		85	40 - 140
4-Nitrophenol	1.67	1.304		mg/Kg		78	30 - 130
Acenaphthene	1.67	1.186		mg/Kg		71	40 - 140
Acenaphthylene	1.67	1.187		mg/Kg		71	40 - 140
Acetophenone	1.67	1.297		mg/Kg		78	40 - 140
Aniline	1.67	1.035		mg/Kg		62	40 - 140
Anthracene	1.67	1.601		mg/Kg		96	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.292		mg/Kg		77	40 - 140
Benzidine	1.67	0.7759		mg/Kg		47	40 - 140
Benzo[a]anthracene	1.67	1.646		mg/Kg		99	40 - 140
Benzo[a]pyrene	1.67	1.458		mg/Kg		87	40 - 140
Benzo[b]fluoranthene	1.67	1.573		mg/Kg		94	40 - 140
Benzo[g,h,i]perylene	1.67	1.495		mg/Kg		90	40 - 140
Benzo[k]fluoranthene	1.67	1.452		mg/Kg		87	40 - 140
Benzoic acid	1.67	0.4950		mg/Kg		30	30 - 130
Benzyl alcohol	1.67	1.125		mg/Kg		68	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.108		mg/Kg		66	40 - 140
Bis(2-chloroethyl)ether	1.67	1.173		mg/Kg		70	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.114		mg/Kg		67	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.688		mg/Kg		101	40 - 140
Butyl benzyl phthalate	1.67	1.622		mg/Kg		97	40 - 140
Carbazole	1.67	1.539		mg/Kg		92	40 - 140
Chrysene	1.67	1.630		mg/Kg		98	40 - 140
Dibenz(a,h)anthracene	1.67	1.435		mg/Kg		86	40 - 140
Dibenzofuran	1.67	1.262		mg/Kg		76	40 - 140
Diethyl phthalate	1.67	1.328		mg/Kg		80	40 - 140
Dimethyl phthalate	1.67	1.274		mg/Kg		76	40 - 140
Di-n-butyl phthalate	1.67	1.736		mg/Kg		104	40 - 140
Di-n-octyl phthalate	1.67	1.702		mg/Kg		102	40 - 140
Fluoranthene	1.67	1.599		mg/Kg		96	40 - 140
Fluorene	1.67	1.180		mg/Kg		71	40 - 140
Hexachlorobenzene	1.67	1.358		mg/Kg		81	40 - 140
Hexachlorobutadiene	1.67	0.9607		mg/Kg		58	40 - 140
Hexachlorocyclopentadiene	1.67	1.148		mg/Kg		69	40 - 140
Hexachloroethane	1.67	1.108		mg/Kg		67	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.390		mg/Kg		83	40 - 140
Isophorone	1.67	0.9765		mg/Kg		59	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20520/2-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			1.67	1.147		mg/Kg		69	40 - 140		
Nitrobenzene			1.67	1.223		mg/Kg		73	40 - 140		
N-Nitrosodimethylamine			1.67	1.153		mg/Kg		69	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.268		mg/Kg		76	40 - 140		
N-Nitrosodiphenylamine			1.67	1.463		mg/Kg		88	40 - 140		
Pentachloronitrobenzene			1.67	1.079		mg/Kg		65	40 - 140		
Pentachlorophenol			1.67	0.9527		mg/Kg		57	30 - 130		
Phenanthrene			1.67	1.423		mg/Kg		85	40 - 140		
Phenol			1.67	1.287		mg/Kg		77	40 - 140		
Pyrene			1.67	1.658		mg/Kg		99	40 - 140		
Pyridine			1.67	0.9719		mg/Kg		58	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*
2-Fluorophenol (Surr)	*79*		*15 - 110*
Nitrobenzene-d5 (Surr)	*72*		*30 - 130*
Phenol-d5 (Surr)	*77*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: LCSD 620-20520/3-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.073		mg/Kg		64	40 - 140	16	30
1,2,4-Trichlorobenzene			1.67	1.343		mg/Kg		81	40 - 140	18	30
1,2-Dichlorobenzene			1.67	1.282		mg/Kg		77	40 - 140	18	30
1,3-Dichlorobenzene			1.67	1.278		mg/Kg		77	40 - 140	16	30
1,4-Dichlorobenzene			1.67	1.281		mg/Kg		77	40 - 140	16	30
1-Methylnaphthalene			1.67	1.430		mg/Kg		86	40 - 140	14	30
2,4,5-Trichlorophenol			1.67	1.402		mg/Kg		84	30 - 130	12	30
2,4,6-Trichlorophenol			1.67	1.479		mg/Kg		89	30 - 130	12	30
2,4-Dichlorophenol			1.67	1.273		mg/Kg		76	30 - 130	12	30
2,4-Dimethylphenol			1.67	1.333		mg/Kg		80	30 - 130	15	30
2,4-Dinitrophenol			1.67	1.672		mg/Kg		100	30 - 130	9	30
2,4-Dinitrotoluene			1.67	1.537		mg/Kg		92	40 - 140	7	30
2,6-Dinitrotoluene			1.67	1.462		mg/Kg		88	40 - 140	11	30
2-Chloronaphthalene			1.67	1.406		mg/Kg		84	40 - 140	14	30
2-Chlorophenol			1.67	1.370		mg/Kg		82	30 - 130	16	30
2-Methylnaphthalene			1.67	1.446		mg/Kg		87	40 - 140	18	30
2-Methylphenol			1.67	1.486		mg/Kg		89	30 - 130	12	30
2-Nitroaniline			1.67	1.517		mg/Kg		91	40 - 140	14	30
2-Nitrophenol			1.67	1.405		mg/Kg		84	30 - 130	16	30
3 & 4 Methylphenol			1.67	1.478		mg/Kg		89	30 - 130	12	30
3,3'-Dichlorobenzidine			1.67	1.983		mg/Kg		119	40 - 140	1	30
3-Nitroaniline			1.67	1.127		mg/Kg		68	40 - 140	6	30
4,6-Dinitro-2-methylphenol			1.67	0.7785		mg/Kg		47	30 - 130	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20520/3-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	1.67	1.482		mg/Kg		89	40 - 140	11	30
4-Chloro-3-methylphenol	1.67	1.454		mg/Kg		87	30 - 130	13	30
4-Chloroaniline	1.67	0.9679		mg/Kg		58	40 - 140	16	30
4-Chlorophenyl phenyl ether	1.67	1.380		mg/Kg		83	40 - 140	12	30
4-Nitroaniline	1.67	1.510		mg/Kg		91	40 - 140	6	30
4-Nitrophenol	1.67	1.387		mg/Kg		83	30 - 130	6	30
Acenaphthene	1.67	1.348		mg/Kg		81	40 - 140	13	30
Acenaphthylene	1.67	1.373		mg/Kg		82	40 - 140	15	30
Acetophenone	1.67	1.466		mg/Kg		88	40 - 140	12	30
Aniline	1.67	1.199		mg/Kg		72	40 - 140	15	30
Anthracene	1.67	1.768		mg/Kg		106	40 - 140	10	30
Azobenzene/Diphenyldiazene	1.67	1.465		mg/Kg		88	40 - 140	13	30
Benzidine	1.67	0.8631		mg/Kg		52	40 - 140	11	30
Benzo[a]anthracene	1.67	1.702		mg/Kg		102	40 - 140	3	30
Benzo[a]pyrene	1.67	1.544		mg/Kg		93	40 - 140	6	30
Benzo[b]fluoranthene	1.67	1.800		mg/Kg		108	40 - 140	13	30
Benzo[g,h,i]perylene	1.67	1.565		mg/Kg		94	40 - 140	5	30
Benzo[k]fluoranthene	1.67	1.399		mg/Kg		84	40 - 140	4	30
Benzoic acid	1.67	0.5512		mg/Kg		33	30 - 130	11	30
Benzyl alcohol	1.67	1.317		mg/Kg		79	40 - 140	16	30
Bis(2-chloroethoxy)methane	1.67	1.332		mg/Kg		80	40 - 140	18	30
Bis(2-chloroethyl)ether	1.67	1.349		mg/Kg		81	40 - 140	14	30
bis (2-chloroisopropyl) ether	1.67	1.268		mg/Kg		76	40 - 140	13	30
Bis(2-ethylhexyl) phthalate	1.67	1.775		mg/Kg		107	40 - 140	5	30
Butyl benzyl phthalate	1.67	1.685		mg/Kg		101	40 - 140	4	30
Carbazole	1.67	1.667		mg/Kg		100	40 - 140	8	30
Chrysene	1.67	1.708		mg/Kg		102	40 - 140	5	30
Dibenz(a,h)anthracene	1.67	1.479		mg/Kg		89	40 - 140	3	30
Dibenzofuran	1.67	1.480		mg/Kg		89	40 - 140	16	30
Diethyl phthalate	1.67	1.489		mg/Kg		89	40 - 140	11	30
Dimethyl phthalate	1.67	1.454		mg/Kg		87	40 - 140	13	30
Di-n-butyl phthalate	1.67	1.867		mg/Kg		112	40 - 140	7	30
Di-n-octyl phthalate	1.67	1.779		mg/Kg		107	40 - 140	4	30
Fluoranthene	1.67	1.721		mg/Kg		103	40 - 140	7	30
Fluorene	1.67	1.327		mg/Kg		80	40 - 140	12	30
Hexachlorobenzene	1.67	1.479		mg/Kg		89	40 - 140	9	30
Hexachlorobutadiene	1.67	1.127		mg/Kg		68	40 - 140	16	30
Hexachlorocyclopentadiene	1.67	1.303		mg/Kg		78	40 - 140	13	30
Hexachloroethane	1.67	1.289		mg/Kg		77	40 - 140	15	30
Indeno[1,2,3-cd]pyrene	1.67	1.439		mg/Kg		86	40 - 140	4	30
Isophorone	1.67	1.152		mg/Kg		69	40 - 140	16	30
Naphthalene	1.67	1.368		mg/Kg		82	40 - 140	18	30
Nitrobenzene	1.67	1.453		mg/Kg		87	40 - 140	17	30
N-Nitrosodimethylamine	1.67	1.172		mg/Kg		70	40 - 140	2	30
N-Nitrosodi-n-propylamine	1.67	1.462		mg/Kg		88	40 - 140	14	30
N-Nitrosodiphenylamine	1.67	1.598		mg/Kg		96	40 - 140	9	30
Pentachloronitrobenzene	1.67	1.185		mg/Kg		71	40 - 140	9	30
Pentachlorophenol	1.67	1.078		mg/Kg		65	30 - 130	12	30
Phenanthrene	1.67	1.578		mg/Kg		95	40 - 140	10	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20520/3-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol			1.67	1.496		mg/Kg		90	40 - 140	15	30
Pyrene			1.67	1.727		mg/Kg		104	40 - 140	4	30
Pyridine			1.67	0.9556		mg/Kg		57	40 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*
Phenol-d5 (Surr)	*88*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.86	1.228		mg/Kg	☼	66	40 - 140
1,2,4-Trichlorobenzene	ND		1.86	1.546		mg/Kg	☼	83	40 - 140
1,2-Dichlorobenzene	ND		1.86	1.422		mg/Kg	☼	76	40 - 140
1,3-Dichlorobenzene	ND		1.86	1.456		mg/Kg	☼	78	40 - 140
1,4-Dichlorobenzene	ND		1.86	1.428		mg/Kg	☼	77	40 - 140
1-Methylnaphthalene	ND		1.86	1.754		mg/Kg	☼	94	40 - 140
2,4,5-Trichlorophenol	ND		1.86	1.632		mg/Kg	☼	88	30 - 130
2,4,6-Trichlorophenol	ND		1.86	1.669		mg/Kg	☼	90	30 - 130
2,4-Dichlorophenol	ND		1.86	1.424		mg/Kg	☼	76	30 - 130
2,4-Dimethylphenol	ND		1.86	1.453		mg/Kg	☼	78	30 - 130
2,4-Dinitrophenol	ND		1.86	1.837		mg/Kg	☼	99	30 - 130
2,4-Dinitrotoluene	ND		1.86	1.717		mg/Kg	☼	92	40 - 140
2,6-Dinitrotoluene	ND		1.86	1.597		mg/Kg	☼	86	40 - 140
2-Chloronaphthalene	ND		1.86	1.648		mg/Kg	☼	89	40 - 140
2-Chlorophenol	ND		1.86	1.486		mg/Kg	☼	80	30 - 130
2-Methylnaphthalene	ND		1.86	1.764		mg/Kg	☼	95	40 - 140
2-Methylphenol	ND		1.86	1.483		mg/Kg	☼	80	30 - 130
2-Nitroaniline	ND		1.86	1.740		mg/Kg	☼	93	40 - 140
2-Nitrophenol	ND		1.86	1.516		mg/Kg	☼	81	30 - 130
3 & 4 Methylphenol	ND		1.86	1.396		mg/Kg	☼	75	30 - 130
3,3'-Dichlorobenzidine	ND		1.86	1.893		mg/Kg	☼	102	40 - 140
3-Nitroaniline	ND		1.86	1.082		mg/Kg	☼	58	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.86	1.169		mg/Kg	☼	63	30 - 130
4-Bromophenyl phenyl ether	ND		1.86	1.739		mg/Kg	☼	93	40 - 140
4-Chloro-3-methylphenol	ND		1.86	1.651		mg/Kg	☼	89	30 - 130
4-Chloroaniline	ND		1.86	0.7808		mg/Kg	☼	42	40 - 140
4-Chlorophenyl phenyl ether	ND		1.86	1.570		mg/Kg	☼	84	40 - 140
4-Nitroaniline	ND		1.86	1.508		mg/Kg	☼	81	40 - 140
4-Nitrophenol	ND		1.86	1.392		mg/Kg	☼	75	30 - 130
Acenaphthene	ND		1.86	1.582		mg/Kg	☼	85	40 - 140
Acenaphthylene	ND		1.86	1.635		mg/Kg	☼	88	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	ND		1.86	1.582		mg/Kg	☼	85	40 - 140
Aniline	ND		1.86	1.022		mg/Kg	☼	55	40 - 140
Anthracene	ND		1.86	2.063		mg/Kg	☼	111	40 - 140
Azobenzene/Diphenyldiazene	ND		1.86	1.839		mg/Kg	☼	99	40 - 140
Benzidine	ND	F1	1.86	ND	F1	mg/Kg	☼	0	40 - 140
Benzo[a]anthracene	ND		1.86	1.843		mg/Kg	☼	99	40 - 140
Benzo[a]pyrene	ND		1.86	1.759		mg/Kg	☼	94	40 - 140
Benzo[b]fluoranthene	ND		1.86	1.881		mg/Kg	☼	101	40 - 140
Benzo[g,h,i]perylene	ND		1.86	1.882		mg/Kg	☼	101	40 - 140
Benzo[k]fluoranthene	ND		1.86	1.889		mg/Kg	☼	101	40 - 140
Benzoic acid	ND		1.86	1.027		mg/Kg	☼	55	30 - 130
Benzyl alcohol	ND		1.86	1.332		mg/Kg	☼	72	40 - 140
Bis(2-chloroethoxy)methane	ND		1.86	1.464		mg/Kg	☼	79	40 - 140
Bis(2-chloroethyl)ether	ND		1.86	1.497		mg/Kg	☼	80	40 - 140
bis (2-chloroisopropyl) ether	ND		1.86	1.374		mg/Kg	☼	74	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.86	1.978		mg/Kg	☼	106	40 - 140
Butyl benzyl phthalate	ND		1.86	1.875		mg/Kg	☼	101	40 - 140
Carbazole	ND		1.86	1.825		mg/Kg	☼	98	40 - 140
Chrysene	ND		1.86	1.912		mg/Kg	☼	103	40 - 140
Dibenz(a,h)anthracene	ND		1.86	1.743		mg/Kg	☼	94	40 - 140
Dibenzofuran	ND		1.86	1.650		mg/Kg	☼	89	40 - 140
Diethyl phthalate	ND		1.86	1.736		mg/Kg	☼	93	40 - 140
Dimethyl phthalate	ND		1.86	1.677		mg/Kg	☼	90	40 - 140
Di-n-butyl phthalate	ND		1.86	2.028		mg/Kg	☼	109	40 - 140
Di-n-octyl phthalate	ND		1.86	2.064		mg/Kg	☼	111	40 - 140
Fluoranthene	ND		1.86	1.946		mg/Kg	☼	104	40 - 140
Fluorene	ND		1.86	1.559		mg/Kg	☼	84	40 - 140
Hexachlorobenzene	ND		1.86	1.740		mg/Kg	☼	93	40 - 140
Hexachlorobutadiene	ND		1.86	1.293		mg/Kg	☼	69	40 - 140
Hexachlorocyclopentadiene	ND		1.86	0.9207		mg/Kg	☼	49	40 - 140
Hexachloroethane	ND		1.86	1.420		mg/Kg	☼	76	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.86	1.657		mg/Kg	☼	89	40 - 140
Isophorone	ND		1.86	1.231		mg/Kg	☼	66	40 - 140
Naphthalene	ND		1.86	1.531		mg/Kg	☼	82	40 - 140
Nitrobenzene	ND		1.86	1.607		mg/Kg	☼	86	40 - 140
N-Nitrosodimethylamine	ND		1.86	1.381		mg/Kg	☼	74	40 - 140
N-Nitrosodi-n-propylamine	ND		1.86	1.610		mg/Kg	☼	86	40 - 140
N-Nitrosodiphenylamine	ND		1.86	1.892		mg/Kg	☼	102	40 - 140
Pentachloronitrobenzene	ND		1.86	1.165		mg/Kg	☼	63	40 - 140
Pentachlorophenol	ND		1.86	1.462		mg/Kg	☼	79	30 - 130
Phenanthrene	ND		1.86	1.794		mg/Kg	☼	96	40 - 140
Phenol	ND		1.86	1.495		mg/Kg	☼	80	40 - 140
Pyrene	ND		1.86	2.007		mg/Kg	☼	108	40 - 140
Pyridine	ND		1.86	1.384		mg/Kg	☼	74	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*
2-Fluorophenol (Surr)	*86*		*15 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*
Phenol-d5 (Surr)	*83*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*92*		*15 - 110*
Terphenyl-d14	*88*		*30 - 130*

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.82	1.134		mg/Kg	☼	62	40 - 140	8	30
1,2,4-Trichlorobenzene	ND		1.82	1.412		mg/Kg	☼	77	40 - 140	9	30
1,2-Dichlorobenzene	ND		1.82	1.308		mg/Kg	☼	72	40 - 140	8	30
1,3-Dichlorobenzene	ND		1.82	1.336		mg/Kg	☼	73	40 - 140	9	30
1,4-Dichlorobenzene	ND		1.82	1.319		mg/Kg	☼	72	40 - 140	8	30
1-Methylnaphthalene	ND		1.82	1.581		mg/Kg	☼	87	40 - 140	10	30
2,4,5-Trichlorophenol	ND		1.82	1.533		mg/Kg	☼	84	30 - 130	6	30
2,4,6-Trichlorophenol	ND		1.82	1.551		mg/Kg	☼	85	30 - 130	7	30
2,4-Dichlorophenol	ND		1.82	1.219		mg/Kg	☼	67	30 - 130	15	30
2,4-Dimethylphenol	ND		1.82	1.290		mg/Kg	☼	71	30 - 130	12	30
2,4-Dinitrophenol	ND		1.82	1.882		mg/Kg	☼	103	30 - 130	2	30
2,4-Dinitrotoluene	ND		1.82	1.671		mg/Kg	☼	92	40 - 140	3	30
2,6-Dinitrotoluene	ND		1.82	1.488		mg/Kg	☼	82	40 - 140	7	30
2-Chloronaphthalene	ND		1.82	1.530		mg/Kg	☼	84	40 - 140	7	30
2-Chlorophenol	ND		1.82	1.333		mg/Kg	☼	73	30 - 130	11	30
2-Methylnaphthalene	ND		1.82	1.583		mg/Kg	☼	87	40 - 140	11	30
2-Methylphenol	ND		1.82	1.311		mg/Kg	☼	72	30 - 130	12	30
2-Nitroaniline	ND		1.82	1.614		mg/Kg	☼	89	40 - 140	7	30
2-Nitrophenol	ND		1.82	1.377		mg/Kg	☼	76	30 - 130	10	30
3 & 4 Methylphenol	ND		1.82	1.237		mg/Kg	☼	68	30 - 130	12	30
3,3'-Dichlorobenzidine	ND		1.82	2.187		mg/Kg	☼	120	40 - 140	14	30
3-Nitroaniline	ND		1.82	1.092		mg/Kg	☼	60	40 - 140	1	30
4,6-Dinitro-2-methylphenol	ND		1.82	1.150		mg/Kg	☼	63	30 - 130	2	30
4-Bromophenyl phenyl ether	ND		1.82	1.574		mg/Kg	☼	86	40 - 140	10	30
4-Chloro-3-methylphenol	ND		1.82	1.482		mg/Kg	☼	81	30 - 130	11	30
4-Chloroaniline	ND		1.82	0.7470		mg/Kg	☼	41	40 - 140	4	30
4-Chlorophenyl phenyl ether	ND		1.82	1.477		mg/Kg	☼	81	40 - 140	6	30
4-Nitroaniline	ND		1.82	1.488		mg/Kg	☼	82	40 - 140	1	30
4-Nitrophenol	ND		1.82	1.351		mg/Kg	☼	74	30 - 130	3	30
Acenaphthene	ND		1.82	1.468		mg/Kg	☼	81	40 - 140	7	30
Acenaphthylene	ND		1.82	1.501		mg/Kg	☼	82	40 - 140	9	30
Acetophenone	ND		1.82	1.433		mg/Kg	☼	79	40 - 140	10	30
Aniline	ND		1.82	0.7973		mg/Kg	☼	44	40 - 140	25	30
Anthracene	ND		1.82	1.949		mg/Kg	☼	107	40 - 140	6	30
Azobenzene/Diphenyldiazene	ND		1.82	1.709		mg/Kg	☼	94	40 - 140	7	30
Benzidine	ND	F1	1.82	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Benzo[a]anthracene	ND		1.82	1.852		mg/Kg	☼	102	40 - 140	0	30
Benzo[a]pyrene	ND		1.82	1.783		mg/Kg	☼	98	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene	ND		1.82	2.188		mg/Kg	☼	120	40 - 140	15	30
Benzo[g,h,i]perylene	ND		1.82	1.765		mg/Kg	☼	97	40 - 140	6	30
Benzo[k]fluoranthene	ND		1.82	1.559		mg/Kg	☼	86	40 - 140	19	30
Benzoic acid	ND		1.82	1.051		mg/Kg	☼	58	30 - 130	2	30
Benzyl alcohol	ND		1.82	1.152		mg/Kg	☼	63	40 - 140	15	30
Bis(2-chloroethoxy)methane	ND		1.82	1.281		mg/Kg	☼	70	40 - 140	13	30
Bis(2-chloroethyl)ether	ND		1.82	1.378		mg/Kg	☼	76	40 - 140	8	30
bis (2-chloroisopropyl) ether	ND		1.82	1.231		mg/Kg	☼	68	40 - 140	11	30
Bis(2-ethylhexyl) phthalate	ND		1.82	1.978		mg/Kg	☼	109	40 - 140	0	30
Butyl benzyl phthalate	ND		1.82	1.798		mg/Kg	☼	99	40 - 140	4	30
Carbazole	ND		1.82	1.803		mg/Kg	☼	99	40 - 140	1	30
Chrysene	ND		1.82	1.896		mg/Kg	☼	104	40 - 140	1	30
Dibenz(a,h)anthracene	ND		1.82	1.716		mg/Kg	☼	94	40 - 140	2	30
Dibenzofuran	ND		1.82	1.534		mg/Kg	☼	84	40 - 140	7	30
Diethyl phthalate	ND		1.82	1.687		mg/Kg	☼	93	40 - 140	3	30
Dimethyl phthalate	ND		1.82	1.573		mg/Kg	☼	86	40 - 140	6	30
Di-n-butyl phthalate	ND		1.82	2.069		mg/Kg	☼	114	40 - 140	2	30
Di-n-octyl phthalate	ND		1.82	2.107		mg/Kg	☼	116	40 - 140	2	30
Fluoranthene	ND		1.82	1.897		mg/Kg	☼	104	40 - 140	3	30
Fluorene	ND		1.82	1.458		mg/Kg	☼	80	40 - 140	7	30
Hexachlorobenzene	ND		1.82	1.648		mg/Kg	☼	90	40 - 140	5	30
Hexachlorobutadiene	ND		1.82	1.180		mg/Kg	☼	65	40 - 140	9	30
Hexachlorocyclopentadiene	ND		1.82	0.9198		mg/Kg	☼	50	40 - 140	0	30
Hexachloroethane	ND		1.82	1.291		mg/Kg	☼	71	40 - 140	10	30
Indeno[1,2,3-cd]pyrene	ND		1.82	1.625		mg/Kg	☼	89	40 - 140	2	30
Isophorone	ND		1.82	1.122		mg/Kg	☼	62	40 - 140	9	30
Naphthalene	ND		1.82	1.385		mg/Kg	☼	76	40 - 140	10	30
Nitrobenzene	ND		1.82	1.521		mg/Kg	☼	83	40 - 140	5	30
N-Nitrosodimethylamine	ND		1.82	1.376		mg/Kg	☼	76	40 - 140	0	30
N-Nitrosodi-n-propylamine	ND		1.82	1.434		mg/Kg	☼	79	40 - 140	12	30
N-Nitrosodiphenylamine	ND		1.82	1.751		mg/Kg	☼	96	40 - 140	8	30
Pentachloronitrobenzene	ND		1.82	1.236		mg/Kg	☼	68	40 - 140	6	30
Pentachlorophenol	ND		1.82	1.387		mg/Kg	☼	76	30 - 130	5	30
Phenanthrene	ND		1.82	1.747		mg/Kg	☼	96	40 - 140	3	30
Phenol	ND		1.82	1.360		mg/Kg	☼	75	40 - 140	9	30
Pyrene	ND		1.82	1.867		mg/Kg	☼	102	40 - 140	7	30
Pyridine	ND		1.82	1.430		mg/Kg	☼	78	40 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*81*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*75*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*84*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Aniline	ND		0.330	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.167	0.0437	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachlorophenol	0.1786	J	0.330	0.135	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Phenol	ND		0.330	0.0680	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Terphenyl-d14	*79*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.069		mg/Kg		64	40 - 140
1,2,4-Trichlorobenzene	1.67	1.358		mg/Kg		81	40 - 140
1,2-Dichlorobenzene	1.67	1.310		mg/Kg		79	40 - 140
1,3-Dichlorobenzene	1.67	1.311		mg/Kg		79	40 - 140
1,4-Dichlorobenzene	1.67	1.283		mg/Kg		77	40 - 140
1-Methylnaphthalene	1.67	1.449		mg/Kg		87	40 - 140
2,4,5-Trichlorophenol	1.67	1.331		mg/Kg		80	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	1.67	1.454		mg/Kg		87	30 - 130
2,4-Dichlorophenol	1.67	1.322		mg/Kg		79	30 - 130
2,4-Dimethylphenol	1.67	1.334		mg/Kg		80	30 - 130
2,4-Dinitrophenol	1.67	1.806		mg/Kg		108	30 - 130
2,4-Dinitrotoluene	1.67	1.477		mg/Kg		89	40 - 140
2,6-Dinitrotoluene	1.67	1.457		mg/Kg		87	40 - 140
2-Chloronaphthalene	1.67	1.440		mg/Kg		86	40 - 140
2-Chlorophenol	1.67	1.381		mg/Kg		83	30 - 130
2-Methylnaphthalene	1.67	1.470		mg/Kg		88	40 - 140
2-Methylphenol	1.67	1.501		mg/Kg		90	30 - 130
2-Nitroaniline	1.67	1.463		mg/Kg		88	40 - 140
2-Nitrophenol	1.67	1.405		mg/Kg		84	30 - 130
3 & 4 Methylphenol	1.67	1.515		mg/Kg		91	30 - 130
3,3'-Dichlorobenzidine	1.67	1.974		mg/Kg		118	40 - 140
3-Nitroaniline	1.67	1.047		mg/Kg		63	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.8543		mg/Kg		51	30 - 130
4-Bromophenyl phenyl ether	1.67	1.493		mg/Kg		90	40 - 140
4-Chloro-3-methylphenol	1.67	1.486		mg/Kg		89	30 - 130
4-Chloroaniline	1.67	0.7796		mg/Kg		47	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.358		mg/Kg		81	40 - 140
4-Nitroaniline	1.67	1.510		mg/Kg		91	40 - 140
4-Nitrophenol	1.67	1.370		mg/Kg		82	30 - 130
Acenaphthene	1.67	1.376		mg/Kg		83	40 - 140
Acenaphthylene	1.67	1.390		mg/Kg		83	40 - 140
Acetophenone	1.67	1.453		mg/Kg		87	40 - 140
Aniline	1.67	1.116		mg/Kg		67	40 - 140
Anthracene	1.67	1.770		mg/Kg		106	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.593		mg/Kg		96	40 - 140
Benzidine	1.67	1.169		mg/Kg		70	40 - 140
Benzo[a]anthracene	1.67	1.690		mg/Kg		101	40 - 140
Benzo[a]pyrene	1.67	1.554		mg/Kg		93	40 - 140
Benzo[b]fluoranthene	1.67	1.438		mg/Kg		86	40 - 140
Benzo[g,h,i]perylene	1.67	1.634		mg/Kg		98	40 - 140
Benzo[k]fluoranthene	1.67	1.671		mg/Kg		100	40 - 140
Benzoic acid	1.67	0.6923		mg/Kg		42	30 - 130
Benzyl alcohol	1.67	1.316		mg/Kg		79	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.300		mg/Kg		78	40 - 140
Bis(2-chloroethyl)ether	1.67	1.355		mg/Kg		81	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.084		mg/Kg		65	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.752		mg/Kg		105	40 - 140
Butyl benzyl phthalate	1.67	1.664		mg/Kg		100	40 - 140
Carbazole	1.67	1.659		mg/Kg		100	40 - 140
Chrysene	1.67	1.721		mg/Kg		103	40 - 140
Dibenz(a,h)anthracene	1.67	1.512		mg/Kg		91	40 - 140
Dibenzofuran	1.67	1.508		mg/Kg		90	40 - 140
Diethyl phthalate	1.67	1.507		mg/Kg		90	40 - 140
Dimethyl phthalate	1.67	1.468		mg/Kg		88	40 - 140
Di-n-butyl phthalate	1.67	1.805		mg/Kg		108	40 - 140
Di-n-octyl phthalate	1.67	1.763		mg/Kg		106	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoranthene			1.67	1.699		mg/Kg		102	40 - 140		
Fluorene			1.67	1.344		mg/Kg		81	40 - 140		
Hexachlorobenzene			1.67	1.512		mg/Kg		91	40 - 140		
Hexachlorobutadiene			1.67	1.169		mg/Kg		70	40 - 140		
Hexachlorocyclopentadiene			1.67	1.432		mg/Kg		86	40 - 140		
Hexachloroethane			1.67	1.373		mg/Kg		82	40 - 140		
Indeno[1,2,3-cd]pyrene			1.67	1.453		mg/Kg		87	40 - 140		
Isophorone			1.67	1.151		mg/Kg		69	40 - 140		
Naphthalene			1.67	1.388		mg/Kg		83	40 - 140		
Nitrobenzene			1.67	1.475		mg/Kg		88	40 - 140		
N-Nitrosodimethylamine			1.67	1.341		mg/Kg		80	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.495		mg/Kg		90	40 - 140		
N-Nitrosodiphenylamine			1.67	1.573		mg/Kg		94	40 - 140		
Pentachloronitrobenzene			1.67	1.139		mg/Kg		68	40 - 140		
Pentachlorophenol			1.67	1.002		mg/Kg		60	30 - 130		
Phenanthrene			1.67	1.592		mg/Kg		96	40 - 140		
Phenol			1.67	1.528		mg/Kg		92	40 - 140		
Pyrene			1.67	1.726		mg/Kg		104	40 - 140		
Pyridine			1.67	1.093		mg/Kg		66	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*88*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.063		mg/Kg		64	40 - 140	1	30
1,2,4-Trichlorobenzene			1.67	1.322		mg/Kg		79	40 - 140	3	30
1,2-Dichlorobenzene			1.67	1.266		mg/Kg		76	40 - 140	3	30
1,3-Dichlorobenzene			1.67	1.278		mg/Kg		77	40 - 140	3	30
1,4-Dichlorobenzene			1.67	1.265		mg/Kg		76	40 - 140	1	30
1-Methylnaphthalene			1.67	1.447		mg/Kg		87	40 - 140	0	30
2,4,5-Trichlorophenol			1.67	1.329		mg/Kg		80	30 - 130	0	30
2,4,6-Trichlorophenol			1.67	1.456		mg/Kg		87	30 - 130	0	30
2,4-Dichlorophenol			1.67	1.282		mg/Kg		77	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.324		mg/Kg		79	30 - 130	1	30
2,4-Dinitrophenol			1.67	1.780		mg/Kg		107	30 - 130	1	30
2,4-Dinitrotoluene			1.67	1.493		mg/Kg		90	40 - 140	1	30
2,6-Dinitrotoluene			1.67	1.454		mg/Kg		87	40 - 140	0	30
2-Chloronaphthalene			1.67	1.413		mg/Kg		85	40 - 140	2	30
2-Chlorophenol			1.67	1.348		mg/Kg		81	30 - 130	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene			1.67	1.442		mg/Kg		87	40 - 140	2	30
2-Methylphenol			1.67	1.469		mg/Kg		88	30 - 130	2	30
2-Nitroaniline			1.67	1.481		mg/Kg		89	40 - 140	1	30
2-Nitrophenol			1.67	1.379		mg/Kg		83	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.445		mg/Kg		87	30 - 130	5	30
3,3'-Dichlorobenzidine			1.67	1.855		mg/Kg		111	40 - 140	6	30
3-Nitroaniline			1.67	0.9972		mg/Kg		60	40 - 140	5	30
4,6-Dinitro-2-methylphenol			1.67	0.9243		mg/Kg		55	30 - 130	8	30
4-Bromophenyl phenyl ether			1.67	1.436		mg/Kg		86	40 - 140	4	30
4-Chloro-3-methylphenol			1.67	1.457		mg/Kg		87	30 - 130	2	30
4-Chloroaniline			1.67	0.7583		mg/Kg		45	40 - 140	3	30
4-Chlorophenyl phenyl ether			1.67	1.359		mg/Kg		82	40 - 140	0	30
4-Nitroaniline			1.67	1.409		mg/Kg		85	40 - 140	7	30
4-Nitrophenol			1.67	1.238		mg/Kg		74	30 - 130	10	30
Acenaphthene			1.67	1.350		mg/Kg		81	40 - 140	2	30
Acenaphthylene			1.67	1.388		mg/Kg		83	40 - 140	0	30
Acetophenone			1.67	1.417		mg/Kg		85	40 - 140	3	30
Aniline			1.67	1.015		mg/Kg		61	40 - 140	9	30
Anthracene			1.67	1.697		mg/Kg		102	40 - 140	4	30
Azobenzene/Diphenyldiazene			1.67	1.578		mg/Kg		95	40 - 140	1	30
Benzidine			1.67	1.298		mg/Kg		78	40 - 140	11	30
Benzo[a]anthracene			1.67	1.622		mg/Kg		97	40 - 140	4	30
Benzo[a]pyrene			1.67	1.491		mg/Kg		89	40 - 140	4	30
Benzo[b]fluoranthene			1.67	1.450		mg/Kg		87	40 - 140	1	30
Benzo[g,h,i]perylene			1.67	1.611		mg/Kg		97	40 - 140	1	30
Benzo[k]fluoranthene			1.67	1.552		mg/Kg		93	40 - 140	7	30
Benzoic acid			1.67	0.7118		mg/Kg		43	30 - 130	3	30
Benzyl alcohol			1.67	1.267		mg/Kg		76	40 - 140	4	30
Bis(2-chloroethoxy)methane			1.67	1.287		mg/Kg		77	40 - 140	1	30
Bis(2-chloroethyl)ether			1.67	1.316		mg/Kg		79	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.249		mg/Kg		75	40 - 140	14	30
Bis(2-ethylhexyl) phthalate			1.67	1.681		mg/Kg		101	40 - 140	4	30
Butyl benzyl phthalate			1.67	1.563		mg/Kg		94	40 - 140	6	30
Carbazole			1.67	1.586		mg/Kg		95	40 - 140	5	30
Chrysene			1.67	1.596		mg/Kg		96	40 - 140	8	30
Dibenz(a,h)anthracene			1.67	1.500		mg/Kg		90	40 - 140	1	30
Dibenzofuran			1.67	1.500		mg/Kg		90	40 - 140	1	30
Diethyl phthalate			1.67	1.459		mg/Kg		88	40 - 140	3	30
Dimethyl phthalate			1.67	1.437		mg/Kg		86	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.725		mg/Kg		104	40 - 140	5	30
Di-n-octyl phthalate			1.67	1.713		mg/Kg		103	40 - 140	3	30
Fluoranthene			1.67	1.612		mg/Kg		97	40 - 140	5	30
Fluorene			1.67	1.340		mg/Kg		80	40 - 140	0	30
Hexachlorobenzene			1.67	1.480		mg/Kg		89	40 - 140	2	30
Hexachlorobutadiene			1.67	1.146		mg/Kg		69	40 - 140	2	30
Hexachlorocyclopentadiene			1.67	1.443		mg/Kg		87	40 - 140	1	30
Hexachloroethane			1.67	1.349		mg/Kg		81	40 - 140	2	30
Indeno[1,2,3-cd]pyrene			1.67	1.447		mg/Kg		87	40 - 140	0	30
Isophorone			1.67	1.140		mg/Kg		68	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			1.67	1.340		mg/Kg		80	40 - 140	3	30
Nitrobenzene			1.67	1.474		mg/Kg		88	40 - 140	0	30
N-Nitrosodimethylamine			1.67	1.347		mg/Kg		81	40 - 140	0	30
N-Nitrosodi-n-propylamine			1.67	1.423		mg/Kg		85	40 - 140	5	30
N-Nitrosodiphenylamine			1.67	1.536		mg/Kg		92	40 - 140	2	30
Pentachloronitrobenzene			1.67	1.099		mg/Kg		66	40 - 140	4	30
Pentachlorophenol			1.67	1.054		mg/Kg		63	30 - 130	5	30
Phenanthrene			1.67	1.519		mg/Kg		91	40 - 140	5	30
Phenol			1.67	1.488		mg/Kg		89	40 - 140	3	30
Pyrene			1.67	1.615		mg/Kg		97	40 - 140	7	30
Pyridine			1.67	1.154		mg/Kg		69	40 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*85*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*76*		*30 - 130*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.97	1.236		mg/Kg	☼	63	40 - 140
1,2,4-Trichlorobenzene	ND		1.97	1.567		mg/Kg	☼	80	40 - 140
1,2-Dichlorobenzene	ND		1.97	1.514		mg/Kg	☼	77	40 - 140
1,3-Dichlorobenzene	ND		1.97	1.494		mg/Kg	☼	76	40 - 140
1,4-Dichlorobenzene	ND		1.97	1.486		mg/Kg	☼	76	40 - 140
1-Methylnaphthalene	ND		1.97	1.705		mg/Kg	☼	87	40 - 140
2,4,5-Trichlorophenol	ND		1.97	1.711		mg/Kg	☼	87	30 - 130
2,4,6-Trichlorophenol	ND		1.97	1.894		mg/Kg	☼	96	30 - 130
2,4-Dichlorophenol	ND		1.97	1.595		mg/Kg	☼	81	30 - 130
2,4-Dimethylphenol	ND		1.97	1.682		mg/Kg	☼	85	30 - 130
2,4-Dinitrophenol	ND		1.97	2.083		mg/Kg	☼	106	30 - 130
2,4-Dinitrotoluene	ND		1.97	1.818		mg/Kg	☼	92	40 - 140
2,6-Dinitrotoluene	ND		1.97	1.752		mg/Kg	☼	89	40 - 140
2-Chloronaphthalene	ND		1.97	1.741		mg/Kg	☼	89	40 - 140
2-Chlorophenol	ND		1.97	1.640		mg/Kg	☼	83	30 - 130
2-Methylnaphthalene	ND		1.97	1.708		mg/Kg	☼	87	40 - 140
2-Methylphenol	ND		1.97	1.814		mg/Kg	☼	92	30 - 130
2-Nitroaniline	ND		1.97	1.824		mg/Kg	☼	93	40 - 140
2-Nitrophenol	ND		1.97	1.603		mg/Kg	☼	81	30 - 130
3 & 4 Methylphenol	ND		1.97	1.831		mg/Kg	☼	93	30 - 130
3,3'-Dichlorobenzidine	ND		1.97	1.779		mg/Kg	☼	90	40 - 140
3-Nitroaniline	ND		1.97	1.050		mg/Kg	☼	53	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.97	1.399		mg/Kg	☼	71	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS **Client Sample ID: 2023-SB-05-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20556 **Prep Batch: 20546**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Bromophenyl phenyl ether	ND		1.97	1.833		mg/Kg	☼	93	40 - 140
4-Chloro-3-methylphenol	ND		1.97	1.840		mg/Kg	☼	94	30 - 130
4-Chloroaniline	ND		1.97	0.8162		mg/Kg	☼	41	40 - 140
4-Chlorophenyl phenyl ether	ND		1.97	1.690		mg/Kg	☼	86	40 - 140
4-Nitroaniline	ND		1.97	1.671		mg/Kg	☼	85	40 - 140
4-Nitrophenol	ND		1.97	1.732		mg/Kg	☼	88	30 - 130
Acenaphthene	ND		1.97	1.664		mg/Kg	☼	85	40 - 140
Acenaphthylene	ND		1.97	1.722		mg/Kg	☼	88	40 - 140
Acetophenone	ND		1.97	1.737		mg/Kg	☼	88	40 - 140
Aniline	ND		1.97	1.083		mg/Kg	☼	55	40 - 140
Anthracene	ND		1.97	2.186		mg/Kg	☼	111	40 - 140
Azobenzene/Diphenyldiazene	ND		1.97	1.994		mg/Kg	☼	101	40 - 140
Benzidine	ND	F1 F2	1.97	0.2783	J F1	mg/Kg	☼	14	40 - 140
Benzo[a]anthracene	ND		1.97	1.962		mg/Kg	☼	100	40 - 140
Benzo[a]pyrene	ND		1.97	1.786		mg/Kg	☼	91	40 - 140
Benzo[b]fluoranthene	ND		1.97	1.863		mg/Kg	☼	95	40 - 140
Benzo[g,h,i]perylene	ND		1.97	1.821		mg/Kg	☼	93	40 - 140
Benzo[k]fluoranthene	ND		1.97	1.834		mg/Kg	☼	93	40 - 140
Benzoic acid	1.35	F1	1.97	1.774	F1	mg/Kg	☼	21	30 - 130
Benzyl alcohol	ND		1.97	1.562		mg/Kg	☼	79	40 - 140
Bis(2-chloroethoxy)methane	ND		1.97	1.530		mg/Kg	☼	78	40 - 140
Bis(2-chloroethyl)ether	ND		1.97	1.633		mg/Kg	☼	83	40 - 140
bis (2-chloroisopropyl) ether	ND		1.97	1.502		mg/Kg	☼	76	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.97	2.076		mg/Kg	☼	106	40 - 140
Butyl benzyl phthalate	ND		1.97	1.874		mg/Kg	☼	95	40 - 140
Carbazole	ND		1.97	1.965		mg/Kg	☼	100	40 - 140
Chrysene	ND		1.97	2.004		mg/Kg	☼	102	40 - 140
Dibenz(a,h)anthracene	ND		1.97	1.766		mg/Kg	☼	90	40 - 140
Dibenzofuran	ND		1.97	1.836		mg/Kg	☼	93	40 - 140
Diethyl phthalate	ND		1.97	1.837		mg/Kg	☼	93	40 - 140
Dimethyl phthalate	ND		1.97	1.879		mg/Kg	☼	95	40 - 140
Di-n-butyl phthalate	ND		1.97	2.291		mg/Kg	☼	116	40 - 140
Di-n-octyl phthalate	ND		1.97	2.040		mg/Kg	☼	104	40 - 140
Fluoranthene	ND		1.97	1.979		mg/Kg	☼	101	40 - 140
Fluorene	ND		1.97	1.679		mg/Kg	☼	85	40 - 140
Hexachlorobenzene	ND		1.97	1.872		mg/Kg	☼	95	40 - 140
Hexachlorobutadiene	ND		1.97	1.311		mg/Kg	☼	67	40 - 140
Hexachlorocyclopentadiene	ND		1.97	1.315		mg/Kg	☼	67	40 - 140
Hexachloroethane	ND		1.97	1.587		mg/Kg	☼	81	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.97	1.665		mg/Kg	☼	85	40 - 140
Isophorone	ND		1.97	1.360		mg/Kg	☼	69	40 - 140
Naphthalene	ND		1.97	1.604		mg/Kg	☼	82	40 - 140
Nitrobenzene	ND		1.97	1.680		mg/Kg	☼	85	40 - 140
N-Nitrosodimethylamine	ND		1.97	1.468		mg/Kg	☼	75	40 - 140
N-Nitrosodi-n-propylamine	ND		1.97	1.776		mg/Kg	☼	90	40 - 140
N-Nitrosodiphenylamine	ND		1.97	1.987		mg/Kg	☼	101	40 - 140
Pentachloronitrobenzene	ND		1.97	1.385		mg/Kg	☼	70	40 - 140
Pentachlorophenol	0.327	J B	1.97	1.715		mg/Kg	☼	71	30 - 130
Phenanthrene	ND		1.97	1.963		mg/Kg	☼	100	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	ND		1.97	1.800		mg/Kg	☼	91	40 - 140
Pyrene	ND		1.97	2.395		mg/Kg	☼	122	40 - 140
Pyridine	ND		1.97	1.469		mg/Kg	☼	75	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*
Phenol-d5 (Surr)	*89*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*91*		*15 - 110*
Terphenyl-d14	*78*		*30 - 130*

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.97	1.165		mg/Kg	☼	59	40 - 140	6	30
1,2,4-Trichlorobenzene	ND		1.97	1.435		mg/Kg	☼	73	40 - 140	9	30
1,2-Dichlorobenzene	ND		1.97	1.355		mg/Kg	☼	69	40 - 140	11	30
1,3-Dichlorobenzene	ND		1.97	1.344		mg/Kg	☼	68	40 - 140	11	30
1,4-Dichlorobenzene	ND		1.97	1.321		mg/Kg	☼	67	40 - 140	12	30
1-Methylnaphthalene	ND		1.97	1.572		mg/Kg	☼	80	40 - 140	8	30
2,4,5-Trichlorophenol	ND		1.97	1.767		mg/Kg	☼	90	30 - 130	3	30
2,4,6-Trichlorophenol	ND		1.97	1.824		mg/Kg	☼	92	30 - 130	4	30
2,4-Dichlorophenol	ND		1.97	1.518		mg/Kg	☼	77	30 - 130	5	30
2,4-Dimethylphenol	ND		1.97	1.536		mg/Kg	☼	78	30 - 130	9	30
2,4-Dinitrophenol	ND		1.97	2.061		mg/Kg	☼	104	30 - 130	1	30
2,4-Dinitrotoluene	ND		1.97	1.866		mg/Kg	☼	95	40 - 140	3	30
2,6-Dinitrotoluene	ND		1.97	1.766		mg/Kg	☼	89	40 - 140	1	30
2-Chloronaphthalene	ND		1.97	1.621		mg/Kg	☼	82	40 - 140	7	30
2-Chlorophenol	ND		1.97	1.451		mg/Kg	☼	74	30 - 130	12	30
2-Methylnaphthalene	ND		1.97	1.555		mg/Kg	☼	79	40 - 140	9	30
2-Methylphenol	ND		1.97	1.683		mg/Kg	☼	85	30 - 130	7	30
2-Nitroaniline	ND		1.97	1.862		mg/Kg	☼	94	40 - 140	2	30
2-Nitrophenol	ND		1.97	1.446		mg/Kg	☼	73	30 - 130	10	30
3 & 4 Methylphenol	ND		1.97	1.686		mg/Kg	☼	85	30 - 130	8	30
3,3'-Dichlorobenzidine	ND		1.97	1.987		mg/Kg	☼	101	40 - 140	11	30
3-Nitroaniline	ND		1.97	1.106		mg/Kg	☼	56	40 - 140	5	30
4,6-Dinitro-2-methylphenol	ND		1.97	1.467		mg/Kg	☼	74	30 - 130	5	30
4-Bromophenyl phenyl ether	ND		1.97	1.913		mg/Kg	☼	97	40 - 140	4	30
4-Chloro-3-methylphenol	ND		1.97	1.804		mg/Kg	☼	91	30 - 130	2	30
4-Chloroaniline	ND		1.97	0.8386		mg/Kg	☼	42	40 - 140	3	30
4-Chlorophenyl phenyl ether	ND		1.97	1.691		mg/Kg	☼	86	40 - 140	0	30
4-Nitroaniline	ND		1.97	1.704		mg/Kg	☼	86	40 - 140	2	30
4-Nitrophenol	ND		1.97	1.783		mg/Kg	☼	90	30 - 130	3	30
Acenaphthene	ND		1.97	1.619		mg/Kg	☼	82	40 - 140	3	30
Acenaphthylene	ND		1.97	1.615		mg/Kg	☼	82	40 - 140	6	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD **Client Sample ID: 2023-SB-05-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20556 **Prep Batch: 20546**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone	ND		1.97	1.566		mg/Kg	☼	79	40 - 140	10	30
Aniline	ND		1.97	0.9754		mg/Kg	☼	49	40 - 140	11	30
Anthracene	ND		1.97	2.252		mg/Kg	☼	114	40 - 140	3	30
Azobenzene/Diphenyldiazene	ND		1.97	2.005		mg/Kg	☼	102	40 - 140	1	30
Benzidine	ND	F1 F2	1.97	0.1505	J F1 F2	mg/Kg	☼	8	40 - 140	60	30
Benzo[a]anthracene	ND		1.97	2.095		mg/Kg	☼	106	40 - 140	7	30
Benzo[a]pyrene	ND		1.97	1.879		mg/Kg	☼	95	40 - 140	5	30
Benzo[b]fluoranthene	ND		1.97	2.342		mg/Kg	☼	119	40 - 140	23	30
Benzo[g,h,i]perylene	ND		1.97	1.959		mg/Kg	☼	99	40 - 140	7	30
Benzo[k]fluoranthene	ND		1.97	1.927		mg/Kg	☼	98	40 - 140	5	30
Benzoic acid	1.35	F1	1.97	1.822	F1	mg/Kg	☼	24	30 - 130	3	30
Benzyl alcohol	ND		1.97	1.460		mg/Kg	☼	74	40 - 140	7	30
Bis(2-chloroethoxy)methane	ND		1.97	1.383		mg/Kg	☼	70	40 - 140	10	30
Bis(2-chloroethyl)ether	ND		1.97	1.420		mg/Kg	☼	72	40 - 140	14	30
bis (2-chloroisopropyl) ether	ND		1.97	1.117		mg/Kg	☼	57	40 - 140	29	30
Bis(2-ethylhexyl) phthalate	ND		1.97	2.287		mg/Kg	☼	116	40 - 140	10	30
Butyl benzyl phthalate	ND		1.97	1.965		mg/Kg	☼	100	40 - 140	5	30
Carbazole	ND		1.97	2.103		mg/Kg	☼	107	40 - 140	7	30
Chrysene	ND		1.97	2.112		mg/Kg	☼	107	40 - 140	5	30
Dibenz(a,h)anthracene	ND		1.97	1.856		mg/Kg	☼	94	40 - 140	5	30
Dibenzofuran	ND		1.97	1.786		mg/Kg	☼	91	40 - 140	3	30
Diethyl phthalate	ND		1.97	1.869		mg/Kg	☼	95	40 - 140	2	30
Dimethyl phthalate	ND		1.97	1.853		mg/Kg	☼	94	40 - 140	1	30
Di-n-butyl phthalate	ND		1.97	2.389		mg/Kg	☼	121	40 - 140	4	30
Di-n-octyl phthalate	ND		1.97	2.514		mg/Kg	☼	127	40 - 140	21	30
Fluoranthene	ND		1.97	2.093		mg/Kg	☼	106	40 - 140	6	30
Fluorene	ND		1.97	1.676		mg/Kg	☼	85	40 - 140	0	30
Hexachlorobenzene	ND		1.97	1.940		mg/Kg	☼	98	40 - 140	4	30
Hexachlorobutadiene	ND		1.97	1.185		mg/Kg	☼	60	40 - 140	10	30
Hexachlorocyclopentadiene	ND		1.97	1.197		mg/Kg	☼	61	40 - 140	9	30
Hexachloroethane	ND		1.97	1.373		mg/Kg	☼	70	40 - 140	14	30
Indeno[1,2,3-cd]pyrene	ND		1.97	1.768		mg/Kg	☼	90	40 - 140	6	30
Isophorone	ND		1.97	1.225		mg/Kg	☼	62	40 - 140	10	30
Naphthalene	ND		1.97	1.454		mg/Kg	☼	74	40 - 140	10	30
Nitrobenzene	ND		1.97	1.462		mg/Kg	☼	74	40 - 140	14	30
N-Nitrosodimethylamine	ND		1.97	1.189		mg/Kg	☼	60	40 - 140	21	30
N-Nitrosodi-n-propylamine	ND		1.97	1.590		mg/Kg	☼	81	40 - 140	11	30
N-Nitrosodiphenylamine	ND		1.97	2.044		mg/Kg	☼	104	40 - 140	3	30
Pentachloronitrobenzene	ND		1.97	1.424		mg/Kg	☼	72	40 - 140	3	30
Pentachlorophenol	0.327	J B	1.97	1.865		mg/Kg	☼	78	30 - 130	8	30
Phenanthrene	ND		1.97	2.059		mg/Kg	☼	104	40 - 140	5	30
Phenol	ND		1.97	1.651		mg/Kg	☼	84	40 - 140	9	30
Pyrene	ND		1.97	2.540		mg/Kg	☼	129	40 - 140	6	30
Pyridine	ND		1.97	1.200		mg/Kg	☼	61	40 - 140	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*82*		*15 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*
Phenol-d5 (Surr)	*80*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*97*		*15 - 110*
Terphenyl-d14	*84*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660655/1-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Naphthalene	0.03864	J	0.0500	0.0340	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/07/23 07:22	03/07/23 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	*118*		*70 - 130*	*03/07/23 07:22*	*03/07/23 08:40*	*1*
a,a,a-Trifluorotoluene (pid)	*116*		*70 - 130*	*03/07/23 07:22*	*03/07/23 08:40*	*1*

Lab Sample ID: LCS 480-660655/2-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.450		mg/Kg		98	70 - 130
Ethylbenzene	2.50	2.478		mg/Kg		99	70 - 130
Methyl tert-butyl ether	2.50	2.303		mg/Kg		92	70 - 130
m,p-Xylene	5.00	4.957		mg/Kg		99	70 - 130
Naphthalene	2.50	2.250		mg/Kg		90	70 - 130
o-Xylene	2.50	2.458		mg/Kg		98	70 - 130
Toluene	2.50	2.477		mg/Kg		99	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.181		mg/Kg		96	70 - 130
C9-C10 Aromatics	2.50	2.453		mg/Kg		98	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.459		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660655/3-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660655

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.425		mg/Kg		97	70 - 130	1	25
Ethylbenzene			2.50	2.451		mg/Kg		98	70 - 130	1	25
Methyl tert-butyl ether			2.50	2.237		mg/Kg		89	70 - 130	3	25
m,p-Xylene			5.00	4.950		mg/Kg		99	70 - 130	0	25
Naphthalene			2.50	2.476		mg/Kg		99	70 - 130	10	25
o-Xylene			2.50	2.452		mg/Kg		98	70 - 130	0	25
Toluene			2.50	2.462		mg/Kg		98	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	6.774		mg/Kg		90	70 - 130	6	25
C9-C10 Aromatics			2.50	2.441		mg/Kg		98	70 - 130	0	25
C9-C12 Aliphatics (unadjusted)			7.50	7.271		mg/Kg		97	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*

Lab Sample ID: MB 480-660799/1-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Naphthalene	0.03962	J	0.0500	0.0340	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/08/23 06:56	03/08/23 08:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 08:14*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 08:14*	*1*

Lab Sample ID: LCS 480-660799/2-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.50	2.467		mg/Kg		99	70 - 130		
Ethylbenzene			2.50	2.446		mg/Kg		98	70 - 130		
Methyl tert-butyl ether			2.50	2.489		mg/Kg		100	70 - 130		
m,p-Xylene			5.00	4.982		mg/Kg		100	70 - 130		
Naphthalene			2.50	2.331		mg/Kg		93	70 - 130		
o-Xylene			2.50	2.464		mg/Kg		99	70 - 130		
Toluene			2.50	2.472		mg/Kg		99	70 - 130		
C5-C8 Aliphatics (unadjusted)			7.50	7.733		mg/Kg		103	70 - 130		

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-660799/2-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C9-C10 Aromatics			2.50	2.444		mg/Kg		98	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	7.264		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*

Lab Sample ID: LCSD 480-660799/3-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660799

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.453		mg/Kg		98	70 - 130	1	25
Ethylbenzene			2.50	2.469		mg/Kg		99	70 - 130	1	25
Methyl tert-butyl ether			2.50	2.462		mg/Kg		98	70 - 130	1	25
m,p-Xylene			5.00	4.921		mg/Kg		98	70 - 130	1	25
Naphthalene			2.50	2.259		mg/Kg		90	70 - 130	3	25
o-Xylene			2.50	2.440		mg/Kg		98	70 - 130	1	25
Toluene			2.50	2.459		mg/Kg		98	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	7.656		mg/Kg		102	70 - 130	1	25
C9-C10 Aromatics			2.50	2.397		mg/Kg		96	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.156		mg/Kg		95	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 660799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		2.34	2.347		mg/Kg	☼	100	70 - 130		
Ethylbenzene	ND		2.34	2.330		mg/Kg	☼	100	70 - 130		
Methyl tert-butyl ether	ND		2.34	2.485		mg/Kg	☼	106	70 - 130		
m,p-Xylene	ND		4.68	4.700		mg/Kg	☼	101	70 - 130		
Naphthalene	0.0583	J B	2.34	2.098		mg/Kg	☼	87	70 - 130		
o-Xylene	ND		2.34	2.340		mg/Kg	☼	100	70 - 130		
Toluene	ND		2.34	2.358		mg/Kg	☼	101	70 - 130		
C5-C8 Aliphatics (unadjusted)	ND		7.01	7.210		mg/Kg	☼	103	70 - 130		
C9-C10 Aromatics	ND		2.34	2.303		mg/Kg	☼	98	70 - 130		
C9-C12 Aliphatics (unadjusted)	ND		7.01	6.907		mg/Kg	☼	98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 660799

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.48	2.503		mg/Kg	☼	101	70 - 130	6	50
Ethylbenzene	ND		2.48	2.463		mg/Kg	☼	99	70 - 130	6	50
Methyl tert-butyl ether	ND		2.48	2.583		mg/Kg	☼	104	70 - 130	4	50
m,p-Xylene	ND		4.96	5.028		mg/Kg	☼	101	70 - 130	7	50
Naphthalene	0.0583	J B	2.48	2.202		mg/Kg	☼	87	70 - 130	5	50
o-Xylene	ND		2.48	2.477		mg/Kg	☼	100	70 - 130	6	50
Toluene	ND		2.48	2.500		mg/Kg	☼	101	70 - 130	6	50
C5-C8 Aliphatics (unadjusted)	ND		7.43	7.570		mg/Kg	☼	102	70 - 130	5	50
C9-C10 Aromatics	ND		2.48	2.450		mg/Kg	☼	99	70 - 130	6	50
C9-C12 Aliphatics (unadjusted)	ND		7.43	7.382		mg/Kg	☼	99	70 - 130	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Lab Sample ID: MB 480-660942/1-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Naphthalene	0.03635	J	0.0500	0.0340	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/09/23 07:17	03/09/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*115*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*
a,a,a-Trifluorotoluene (pid)	*114*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*

Lab Sample ID: LCS 480-660942/2-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.477		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.462		mg/Kg		98	70 - 130
Methyl tert-butyl ether	2.50	2.412		mg/Kg		96	70 - 130
m,p-Xylene	5.00	4.982		mg/Kg		100	70 - 130
Naphthalene	2.50	2.249		mg/Kg		90	70 - 130
o-Xylene	2.50	2.465		mg/Kg		99	70 - 130
Toluene	2.50	2.480		mg/Kg		99	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.658		mg/Kg		102	70 - 130

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-660942/2-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660942

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C9-C10 Aromatics			2.50	2.460		mg/Kg		98	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	7.320		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Lab Sample ID: LCSD 480-660942/3-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660942

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene			2.50	2.472		mg/Kg		99	70 - 130	0	25
Methyl tert-butyl ether			2.50	2.445		mg/Kg		98	70 - 130	1	25
m,p-Xylene			5.00	4.933		mg/Kg		99	70 - 130	1	25
Naphthalene			2.50	2.324		mg/Kg		93	70 - 130	3	25
o-Xylene			2.50	2.451		mg/Kg		98	70 - 130	1	25
Toluene			2.50	2.465		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	7.534		mg/Kg		100	70 - 130	2	25
C9-C10 Aromatics			2.50	2.414		mg/Kg		97	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.204		mg/Kg		96	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		2.59	2.565		mg/Kg	☼	99	70 - 130		
Ethylbenzene	ND		2.59	2.551		mg/Kg	☼	99	70 - 130		
Methyl tert-butyl ether	ND		2.59	2.567		mg/Kg	☼	99	70 - 130		
m,p-Xylene	ND		5.18	5.199		mg/Kg	☼	100	70 - 130		
Naphthalene	0.0380	J B	2.59	2.252		mg/Kg	☼	86	70 - 130		
o-Xylene	ND		2.59	2.566		mg/Kg	☼	99	70 - 130		
Toluene	ND		2.59	2.580		mg/Kg	☼	100	70 - 130		
C5-C8 Aliphatics (unadjusted)	ND		7.76	8.037		mg/Kg	☼	104	70 - 130		
C9-C10 Aromatics	ND		2.59	2.597		mg/Kg	☼	100	70 - 130		
C9-C12 Aliphatics (unadjusted)	ND		7.76	7.928		mg/Kg	☼	102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*102*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.80	2.778		mg/Kg	☼	99	70 - 130	8	50
Ethylbenzene	ND		2.80	2.774		mg/Kg	☼	99	70 - 130	8	50
Methyl tert-butyl ether	ND		2.80	2.811		mg/Kg	☼	100	70 - 130	9	50
m,p-Xylene	ND		5.60	5.596		mg/Kg	☼	100	70 - 130	7	50
Naphthalene	0.0380	J B	2.80	2.452		mg/Kg	☼	86	70 - 130	9	50
o-Xylene	ND		2.80	2.771		mg/Kg	☼	99	70 - 130	8	50
Toluene	ND		2.80	2.800		mg/Kg	☼	100	70 - 130	8	50
C5-C8 Aliphatics (unadjusted)	ND		8.40	8.741		mg/Kg	☼	104	70 - 130	8	50
C9-C10 Aromatics	ND		2.80	2.779		mg/Kg	☼	99	70 - 130	7	50
C9-C12 Aliphatics (unadjusted)	ND		8.40	8.517		mg/Kg	☼	101	70 - 130	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*102*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20414/1-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:26	03/11/23 00:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
DCB Decachlorobiphenyl (Surr)	*125*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*

Lab Sample ID: LCS 620-20414/2-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.1563		mg/Kg		94	40 - 140
PCB-1016	0.167	0.1575		mg/Kg		94	40 - 140
PCB-1260	0.167	0.1889		mg/Kg		113	40 - 140
PCB-1260	0.167	0.1772		mg/Kg		106	40 - 140

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCS 620-20414/2-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20414

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*30 - 150*
Tetrachloro-m-xylene	*79*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*106*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*114*		*30 - 150*

Lab Sample ID: LCSD 620-20414/3-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20414

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1794		mg/Kg		108	40 - 140	14	30
PCB-1016			0.167	0.1787		mg/Kg		107	40 - 140	13	30
PCB-1260			0.167	0.2095		mg/Kg		126	40 - 140	10	30
PCB-1260			0.167	0.1942		mg/Kg		117	40 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*30 - 150*
Tetrachloro-m-xylene	*94*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*123*		*30 - 150*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20414

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND	F2	0.190	0.1224		mg/Kg	☼	64	40 - 140
PCB-1260	ND	F2	0.190	0.1496		mg/Kg	☼	79	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*30 - 150*
Tetrachloro-m-xylene	*59*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20414

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND	F2	0.188	0.2132	F2	mg/Kg	☼	113	40 - 140	54	30
PCB-1260	ND	F2	0.188	0.2456	F2	mg/Kg	☼	131	40 - 140	49	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*30 - 150*
Tetrachloro-m-xylene	*106*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20414

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*123*		*30 - 150*

Lab Sample ID: MB 620-20415/1-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:27	03/11/23 09:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*

Lab Sample ID: LCS 620-20415/2-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20415

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1489		mg/Kg		89	40 - 140		
PCB-1016			0.167	0.1633		mg/Kg		98	40 - 140		
PCB-1260			0.167	0.1404		mg/Kg		84	40 - 140		
PCB-1260			0.167	0.1495		mg/Kg		90	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*30 - 150*
Tetrachloro-m-xylene	*67*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*

Lab Sample ID: LCSD 620-20415/3-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20415

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1699		mg/Kg		102	40 - 140	13	30
PCB-1016			0.167	0.1781		mg/Kg		107	40 - 140	9	30
PCB-1260			0.167	0.1801		mg/Kg		108	40 - 140	25	30
PCB-1260			0.167	0.1829		mg/Kg		110	40 - 140	20	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	86		30 - 150
Tetrachloro-m-xylene	81		30 - 150
DCB Decachlorobiphenyl (Surr)	103		30 - 150
DCB Decachlorobiphenyl (Surr)	94		30 - 150

Lab Sample ID: MB 620-20416/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20438 — **Prep Batch: 20416**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:30	03/11/23 10:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		30 - 150	03/09/23 15:30	03/11/23 10:11	1
Tetrachloro-m-xylene	59		30 - 150	03/09/23 15:30	03/11/23 10:11	1
DCB Decachlorobiphenyl (Surr)	60		30 - 150	03/09/23 15:30	03/11/23 10:11	1
DCB Decachlorobiphenyl (Surr)	58		30 - 150	03/09/23 15:30	03/11/23 10:11	1

Lab Sample ID: LCS 620-20416/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20438 — **Prep Batch: 20416**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1627		mg/Kg		98	40 - 140		
PCB-1016			0.167	0.1689		mg/Kg		101	40 - 140		
PCB-1260			0.167	0.1706		mg/Kg		102	40 - 140		
PCB-1260			0.167	0.1685		mg/Kg		101	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	81		30 - 150
Tetrachloro-m-xylene	77		30 - 150
DCB Decachlorobiphenyl (Surr)	95		30 - 150
DCB Decachlorobiphenyl (Surr)	88		30 - 150

Lab Sample ID: LCSD 620-20416/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20438 — **Prep Batch: 20416**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1920		mg/Kg		115	40 - 140	17	30
PCB-1016			0.167	0.1877		mg/Kg		113	40 - 140	11	30
PCB-1260			0.167	0.1752		mg/Kg		105	40 - 140	3	30
PCB-1260			0.167	0.1725		mg/Kg		103	40 - 140	2	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	90		30 - 150
Tetrachloro-m-xylene	82		30 - 150
DCB Decachlorobiphenyl (Surr)	101		30 - 150
DCB Decachlorobiphenyl (Surr)	92		30 - 150

Lab Sample ID: MB 620-20535/1-A
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/14/23 16:24	03/15/23 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		30 - 150	03/14/23 16:24	03/15/23 12:42	1
Tetrachloro-m-xylene	109		30 - 150	03/14/23 16:24	03/15/23 12:42	1
DCB Decachlorobiphenyl (Surr)	132		30 - 150	03/14/23 16:24	03/15/23 12:42	1
DCB Decachlorobiphenyl (Surr)	122		30 - 150	03/14/23 16:24	03/15/23 12:42	1

Lab Sample ID: LCS 620-20535/2-A
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.1697		mg/Kg		102	40 - 140
PCB-1016	0.167	0.1641		mg/Kg		98	40 - 140
PCB-1260	0.167	0.1846		mg/Kg		111	40 - 140
PCB-1260	0.167	0.1757		mg/Kg		105	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	107		30 - 150
Tetrachloro-m-xylene	105		30 - 150
DCB Decachlorobiphenyl (Surr)	112		30 - 150
DCB Decachlorobiphenyl (Surr)	102		30 - 150

Lab Sample ID: LCSD 620-20535/3-A
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.167	0.1900		mg/Kg		114	40 - 140	11	30
PCB-1016	0.167	0.1742		mg/Kg		105	40 - 140	6	30
PCB-1260	0.167	0.2008		mg/Kg		120	40 - 140	8	30
PCB-1260	0.167	0.1857		mg/Kg		111	40 - 140	6	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	*111*		*30 - 150*
Tetrachloro-m-xylene	*106*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*111*		*30 - 150*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.170	0.1782		mg/Kg	☼	105	40 - 140
PCB-1260	ND		0.170	0.2024		mg/Kg	☼	119	40 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*99*		*30 - 150*
Tetrachloro-m-xylene	*100*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*108*		*30 - 150*

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.189	0.1744		mg/Kg	☼	92	40 - 140	2	30
PCB-1260	ND		0.189	0.2126		mg/Kg	☼	112	40 - 140	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*90*		*30 - 150*
Tetrachloro-m-xylene	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-351126/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351126/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
DONA	ND		3.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
M2-8:2 FTS	*100*		*15 - 200*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
M2-6:2 FTS	*109*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C5 PFHxA	*106*		*10 - 174*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C4 PFHpA	*108*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C8 PFOA	*113*		*26 - 159*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C9 PFNA	*111*		*26 - 165*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C7 PFUnA	*114*		*12 - 173*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C3 PFBS	*112*		*27 - 179*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C8 PFOS	*109*		*41 - 154*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d3-NMeFOSAA	*88*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d5-NEtFOSAA	*98*		*10 - 193*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C4 PFBA	*106*		*28 - 153*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C5 PFPeA	*97*		*24 - 161*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d7-N-MeFOSE-M	*99*		*10 - 179*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d3-NMePFOSA	*88*		*10 - 175*	*03/07/23 18:02*	*03/16/23 02:17*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351126/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351126

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	103		10 - 185	03/07/23 18:02	03/16/23 02:17	1
d5-NEtPFOSA	90		10 - 180	03/07/23 18:02	03/16/23 02:17	1
13C3 HFPO-DA	94		10 - 169	03/07/23 18:02	03/16/23 02:17	1

Lab Sample ID: LCS 410-351126/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.15		ug/Kg		85	59 - 132
Perfluoroheptanoic acid	25.0	20.63		ug/Kg		83	59 - 137
Perfluorooctanoic acid	25.0	20.36		ug/Kg		81	59 - 131
Perfluorononanoic acid	25.0	22.14		ug/Kg		89	61 - 134
Perfluorodecanoic acid	25.0	21.86		ug/Kg		87	56 - 133
Perfluorotridecanoic acid	25.0	22.59		ug/Kg		90	53 - 143
Perfluorotetradecanoic acid	25.0	21.25		ug/Kg		85	62 - 134
Perfluorobutanesulfonic acid	22.1	21.36		ug/Kg		97	54 - 130
Perfluorohexanesulfonic acid	22.8	19.71		ug/Kg		86	59 - 129
Perfluorooctanesulfonic acid	23.1	19.94		ug/Kg		86	61 - 126
NEtFOSAA	25.0	23.78		ug/Kg		95	57 - 127
NMeFOSAA	25.0	24.16		ug/Kg		97	60 - 134
10:2 FTS	24.1	20.98		ug/Kg		87	46 - 143
Perfluoropentanesulfonic acid	23.5	18.99		ug/Kg		81	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.98		ug/Kg		84	59 - 132
Perfluorononanesulfonic acid	24.0	20.11		ug/Kg		84	60 - 132
Perfluorodecanesulfonic acid	24.1	20.43		ug/Kg		85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.33		ug/Kg		80	38 - 145
Perfluorooctanesulfonamide	25.0	22.94		ug/Kg		92	47 - 149
Perfluorohexadecanoic acid	25.0	14.65		ug/Kg		59	38 - 147
Perfluorooctadecanoic acid	25.0	16.99		ug/Kg		68	16 - 160
Perfluorobutanoic acid	25.0	19.02		ug/Kg		76	60 - 128
Perfluoropentanoic acid	25.0	21.73		ug/Kg		87	58 - 134
NMeFOSE	25.0	20.63		ug/Kg		83	60 - 130
NMeFOSA	25.0	21.44		ug/Kg		86	60 - 129
NEtFOSE	25.0	21.02		ug/Kg		84	60 - 126
NEtFOSA	25.0	22.99		ug/Kg		92	60 - 123
HFPODA	25.0	20.94		ug/Kg		84	49 - 135
DONA	23.6	19.42		ug/Kg		82	57 - 137
9Cl-PF3ONS	23.3	19.63		ug/Kg		84	62 - 130
11Cl-PF3OUdS	23.3	18.89		ug/Kg		81	55 - 135
Perfluorododecanoic acid	25.0	21.29		ug/Kg		85	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.38		ug/Kg		87	58 - 131
Perfluoroundecanoic acid	25.0	22.25		ug/Kg		89	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.20		ug/Kg		85	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	23.38		ug/Kg		98	55 - 133

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	97		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351126/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351126

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	99		15 - 200
M2-6:2 FTS	111		10 - 200
13C5 PFHxA	109		10 - 174
13C4 PFHpA	112		10 - 178
13C8 PFOA	113		26 - 159
13C9 PFNA	111		26 - 165
13C6 PFDA	112		26 - 161
13C7 PFUnA	118		12 - 173
13C2-PFDoDA	111		11 - 166
13C2 PFTeDA	142		10 - 169
13C3 PFBS	123		27 - 179
13C3 PFHxS	116		24 - 171
13C8 PFOS	116		41 - 154
d3-NMeFOSAA	96		10 - 178
d5-NEtFOSAA	102		10 - 193
13C8 FOSA	100		14 - 163
13C4 PFBA	113		28 - 153
13C5 PFPeA	104		24 - 161
d7-N-MeFOSE-M	108		10 - 179
d3-NMePFOSA	97		10 - 175
d9-N-EtFOSE-M	113		10 - 185
d5-NEtPFOSA	100		10 - 180
13C3 HFPO-DA	95		10 - 169

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.4	23.45		ug/Kg	☼	86	59 - 132
Perfluoroheptanoic acid	ND		27.4	22.52		ug/Kg	☼	82	59 - 137
Perfluorooctanoic acid	ND		27.4	21.20		ug/Kg	☼	77	59 - 131
Perfluorononanoic acid	ND		27.4	24.49		ug/Kg	☼	89	61 - 134
Perfluorodecanoic acid	ND		27.4	23.66		ug/Kg	☼	86	56 - 133
Perfluorotridecanoic acid	ND		27.4	24.88		ug/Kg	☼	91	53 - 143
Perfluorotetradecanoic acid	ND		27.4	22.51		ug/Kg	☼	82	62 - 134
Perfluorobutanesulfonic acid	ND		24.3	23.12		ug/Kg	☼	95	54 - 130
Perfluorohexanesulfonic acid	ND		25.0	21.58		ug/Kg	☼	86	59 - 129
Perfluorooctanesulfonic acid	ND		25.4	21.71		ug/Kg	☼	86	61 - 126
NEtFOSAA	ND		27.4	25.61		ug/Kg	☼	93	57 - 127
NMeFOSAA	ND		27.4	25.42		ug/Kg	☼	93	60 - 134
10:2 FTS	ND		26.4	24.39		ug/Kg	☼	92	46 - 143
Perfluoropentanesulfonic acid	ND		25.7	20.71		ug/Kg	☼	81	57 - 133
Perfluoroheptanesulfonic acid	ND		26.1	21.72		ug/Kg	☼	83	59 - 132
Perfluorononanesulfonic acid	ND		26.3	21.93		ug/Kg	☼	83	60 - 132
Perfluorodecanesulfonic acid	ND		26.4	22.49		ug/Kg	☼	85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.5	21.77		ug/Kg	☼	82	38 - 145
Perfluorooctanesulfonamide	ND		27.4	24.64		ug/Kg	☼	90	47 - 149

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexadecanoic acid	ND		27.4	15.01		ug/Kg	☼	55	38 - 147
Perfluorooctadecanoic acid	ND		27.4	14.85		ug/Kg	☼	54	16 - 160
Perfluorobutanoic acid	ND		27.4	21.57		ug/Kg	☼	79	60 - 128
Perfluoropentanoic acid	ND		27.4	23.61		ug/Kg	☼	86	58 - 134
NMeFOSE	ND		27.4	24.00		ug/Kg	☼	88	60 - 130
NMeFOSA	ND		27.4	25.03		ug/Kg	☼	91	60 - 129
NEtFOSE	ND		27.4	23.15		ug/Kg	☼	84	60 - 126
NEtFOSA	ND		27.4	24.88		ug/Kg	☼	91	60 - 123
HFPODA	ND		27.4	26.34		ug/Kg	☼	96	49 - 135
DONA	ND		25.9	22.87		ug/Kg	☼	88	57 - 137
9Cl-PF3ONS	ND		25.5	21.50		ug/Kg	☼	84	62 - 130
11Cl-PF3OUdS	ND		25.5	21.30		ug/Kg	☼	84	55 - 135
Perfluorododecanoic acid	ND		27.4	24.89		ug/Kg	☼	91	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.6	22.65		ug/Kg	☼	88	58 - 131
Perfluoroundecanoic acid	ND		27.4	23.24		ug/Kg	☼	85	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.0	22.55		ug/Kg	☼	87	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.3	25.01		ug/Kg	☼	95	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*91*		*10 - 200*
M2-8:2 FTS	*96*		*15 - 200*
M2-6:2 FTS	*103*		*10 - 200*
13C5 PFHxA	*107*		*10 - 174*
13C4 PFHpA	*111*		*10 - 178*
13C8 PFOA	*119*		*26 - 159*
13C9 PFNA	*113*		*26 - 165*
13C6 PFDA	*113*		*26 - 161*
13C7 PFUnA	*127*		*12 - 173*
13C2-PFDoDA	*110*		*11 - 166*
13C2 PFTeDA	*143*		*10 - 169*
13C3 PFBS	*123*		*27 - 179*
13C3 PFHxS	*119*		*24 - 171*
13C8 PFOS	*122*		*41 - 154*
d3-NMeFOSAA	*54*		*10 - 178*
d5-NEtFOSAA	*64*		*10 - 193*
13C8 FOSA	*114*		*14 - 163*
13C4 PFBA	*112*		*28 - 153*
13C5 PFPeA	*102*		*24 - 161*
d7-N-MeFOSE-M	*125*		*10 - 179*
d3-NMePFOSA	*114*		*10 - 175*
d9-N-EtFOSE-M	*136*		*10 - 185*
d5-NEtPFOSA	*122*		*10 - 180*
13C3 HFPO-DA	*88*		*10 - 169*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.7	23.79		ug/Kg	☼	86	59 - 132	1	30
Perfluoroheptanoic acid	ND		27.7	23.66		ug/Kg	☼	86	59 - 137	5	30
Perfluorooctanoic acid	ND		27.7	22.41		ug/Kg	☼	81	59 - 131	6	30
Perfluorononanoic acid	ND		27.7	24.22		ug/Kg	☼	88	61 - 134	1	30
Perfluorodecanoic acid	ND		27.7	24.28		ug/Kg	☼	88	56 - 133	3	30
Perfluorotridecanoic acid	ND		27.7	25.98		ug/Kg	☼	94	53 - 143	4	30
Perfluorotetradecanoic acid	ND		27.7	22.77		ug/Kg	☼	82	62 - 134	1	30
Perfluorobutanesulfonic acid	ND		24.5	23.20		ug/Kg	☼	95	54 - 130	0	30
Perfluorohexanesulfonic acid	ND		25.2	23.15		ug/Kg	☼	92	59 - 129	7	30
Perfluorooctanesulfonic acid	ND		25.6	22.17		ug/Kg	☼	87	61 - 126	2	30
NEtFOSAA	ND		27.7	27.40		ug/Kg	☼	99	57 - 127	7	30
NMeFOSAA	ND		27.7	28.03		ug/Kg	☼	101	60 - 134	10	30
10:2 FTS	ND		26.7	24.76		ug/Kg	☼	93	46 - 143	2	30
Perfluoropentanesulfonic acid	ND		26.0	21.34		ug/Kg	☼	82	57 - 133	3	30
Perfluoroheptanesulfonic acid	ND		26.3	23.03		ug/Kg	☼	87	59 - 132	6	30
Perfluorononanesulfonic acid	ND		26.6	22.51		ug/Kg	☼	85	60 - 132	3	30
Perfluorodecanesulfonic acid	ND		26.7	21.69		ug/Kg	☼	81	57 - 132	4	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.8	21.76		ug/Kg	☼	81	38 - 145	0	30
Perfluorooctanesulfonamide	ND		27.7	24.88		ug/Kg	☼	90	47 - 149	1	30
Perfluorohexadecanoic acid	ND		27.7	15.99		ug/Kg	☼	58	38 - 147	6	30
Perfluorooctadecanoic acid	ND		27.7	17.09		ug/Kg	☼	62	16 - 160	14	30
Perfluorobutanoic acid	ND		27.7	20.61		ug/Kg	☼	74	60 - 128	5	30
Perfluoropentanoic acid	ND		27.7	24.16		ug/Kg	☼	87	58 - 134	2	30
NMeFOSE	ND		27.7	23.92		ug/Kg	☼	86	60 - 130	0	30
NMeFOSA	ND		27.7	24.42		ug/Kg	☼	88	60 - 129	2	30
NEtFOSE	ND		27.7	23.96		ug/Kg	☼	87	60 - 126	3	30
NEtFOSA	ND		27.7	24.78		ug/Kg	☼	90	60 - 123	0	30
HFPODA	ND		27.7	23.61		ug/Kg	☼	85	49 - 135	11	30
DONA	ND		26.2	23.30		ug/Kg	☼	89	57 - 137	2	30
9Cl-PF3ONS	ND		25.7	22.07		ug/Kg	☼	86	62 - 130	3	30
11Cl-PF3OUdS	ND		25.7	22.47		ug/Kg	☼	87	55 - 135	5	30
Perfluorododecanoic acid	ND		27.7	24.30		ug/Kg	☼	88	60 - 135	2	30
4:2 Fluorotelomer sulfonic acid	ND		25.9	23.69		ug/Kg	☼	92	58 - 131	4	30
Perfluoroundecanoic acid	ND		27.7	24.86		ug/Kg	☼	90	60 - 134	7	30
6:2 Fluorotelomer sulfonic acid	ND		26.2	23.47		ug/Kg	☼	89	59 - 135	4	30
8:2 Fluorotelomer sulfonic acid	ND		26.5	23.68		ug/Kg	☼	89	55 - 133	5	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*92*		*10 - 200*
M2-8:2 FTS	*105*		*15 - 200*
M2-6:2 FTS	*105*		*10 - 200*
13C5 PFHxA	*110*		*10 - 174*
13C4 PFHpA	*107*		*10 - 178*
13C8 PFOA	*113*		*26 - 159*
13C9 PFNA	*115*		*26 - 165*
13C6 PFDA	*119*		*26 - 161*
13C7 PFUnA	*121*		*12 - 173*
13C2-PFDoDA	*115*		*11 - 166*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C2 PFTeDA	*149*		*10 - 169*
13C3 PFBS	*121*		*27 - 179*
13C3 PFHxS	*111*		*24 - 171*
13C8 PFOS	*120*		*41 - 154*
d3-NMeFOSAA	*66*		*10 - 178*
d5-NEtFOSAA	*72*		*10 - 193*
13C8 FOSA	*115*		*14 - 163*
13C4 PFBA	*116*		*28 - 153*
13C5 PFPeA	*109*		*24 - 161*
d7-N-MeFOSE-M	*125*		*10 - 179*
d3-NMePFOSA	*114*		*10 - 175*
d9-N-EtFOSE-M	*132*		*10 - 185*
d5-NEtPFOSA	*123*		*10 - 180*
13C3 HFPO-DA	*100*		*10 - 169*

Lab Sample ID: MB 410-351204/1-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 22:50	03/22/23 08:05	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351204/1-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	ND		3.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*110*		*10 - 200*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
M2-6:2 FTS	*127*		*10 - 200*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C9 PFNA	*111*		*26 - 165*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C6 PFDA	*114*		*26 - 161*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C7 PFUnA	*116*		*12 - 173*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C2 PFTeDA	*109*		*10 - 169*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C3 PFHxS	*116*		*24 - 171*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C8 PFOS	*114*		*41 - 154*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d3-NMeFOSAA	*90*		*10 - 178*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d5-NEtFOSAA	*97*		*10 - 193*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C8 FOSA	*83*		*14 - 163*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C4 PFBA	*103*		*28 - 153*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C5 PFPeA	*102*		*24 - 161*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d3-NMePFOSA	*57*		*10 - 175*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d5-NEtPFOSA	*54*		*10 - 180*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C3 HFPO-DA	*106*		*10 - 169*	*03/07/23 22:50*	*03/22/23 08:05*	*1*

Lab Sample ID: LCS 410-351204/2-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	19.78		ug/Kg		79	59 - 132
Perfluoroheptanoic acid	25.0	21.63		ug/Kg		87	59 - 137
Perfluorooctanoic acid	25.0	18.73		ug/Kg		75	59 - 131
Perfluorononanoic acid	25.0	21.62		ug/Kg		86	61 - 134
Perfluorodecanoic acid	25.0	19.40		ug/Kg		78	56 - 133
Perfluorotridecanoic acid	25.0	19.34		ug/Kg		77	53 - 143
Perfluorotetradecanoic acid	25.0	21.39		ug/Kg		86	62 - 134
Perfluorobutanesulfonic acid	22.1	18.06		ug/Kg		82	54 - 130
Perfluorohexanesulfonic acid	22.8	18.79		ug/Kg		82	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351204/2-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	23.1	18.71		ug/Kg		81	61 - 126
NEtFOSAA	25.0	20.63		ug/Kg		83	57 - 127
NMeFOSAA	25.0	21.92		ug/Kg		88	60 - 134
10:2 FTS	24.1	20.35		ug/Kg		84	46 - 143
Perfluoropentanesulfonic acid	23.5	19.29		ug/Kg		82	57 - 133
Perfluoroheptanesulfonic acid	23.8	20.26		ug/Kg		85	59 - 132
Perfluorononanesulfonic acid	24.0	18.30		ug/Kg		76	60 - 132
Perfluorodecanesulfonic acid	24.1	18.78		ug/Kg		78	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.05		ug/Kg		79	38 - 145
Perfluorooctanesulfonamide	25.0	21.33		ug/Kg		85	47 - 149
Perfluorohexadecanoic acid	25.0	17.85		ug/Kg		71	38 - 147
Perfluorooctadecanoic acid	25.0	18.71		ug/Kg		75	16 - 160
Perfluorobutanoic acid	25.0	18.88		ug/Kg		76	60 - 128
Perfluoropentanoic acid	25.0	18.89		ug/Kg		76	58 - 134
NMeFOSE	25.0	22.22		ug/Kg		89	60 - 130
NMeFOSA	25.0	21.34		ug/Kg		85	60 - 129
NEtFOSE	25.0	21.49		ug/Kg		86	60 - 126
NEtFOSA	25.0	22.38		ug/Kg		90	60 - 123
HFPODA	25.0	20.28		ug/Kg		81	49 - 135
DONA	23.6	19.85		ug/Kg		84	57 - 137
9Cl-PF3ONS	23.3	18.44		ug/Kg		79	62 - 130
11Cl-PF3OUdS	23.3	19.44		ug/Kg		84	55 - 135
Perfluorododecanoic acid	25.0	19.66		ug/Kg		79	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.36		ug/Kg		87	58 - 131
Perfluoroundecanoic acid	25.0	18.96		ug/Kg		76	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.91		ug/Kg		88	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	19.64		ug/Kg		82	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*105*		*10 - 200*
M2-8:2 FTS	*110*		*15 - 200*
M2-6:2 FTS	*110*		*10 - 200*
13C5 PFHxA	*115*		*10 - 174*
13C4 PFHpA	*109*		*10 - 178*
13C8 PFOA	*114*		*26 - 159*
13C9 PFNA	*107*		*26 - 165*
13C6 PFDA	*118*		*26 - 161*
13C7 PFUnA	*119*		*12 - 173*
13C2-PFDoDA	*116*		*11 - 166*
13C2 PFTeDA	*117*		*10 - 169*
13C3 PFBS	*114*		*27 - 179*
13C3 PFHxS	*112*		*24 - 171*
13C8 PFOS	*111*		*41 - 154*
d3-NMeFOSAA	*98*		*10 - 178*
d5-NEtFOSAA	*103*		*10 - 193*
13C8 FOSA	*99*		*14 - 163*
13C4 PFBA	*110*		*28 - 153*
13C5 PFPeA	*109*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351204/2-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351204

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d7-N-MeFOSE-M	99		10 - 179
d3-NMePFOSA	81		10 - 175
d9-N-EtFOSE-M	96		10 - 185
d5-NEtPFOSA	85		10 - 180
13C3 HFPO-DA	97		10 - 169

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.5	21.56		ug/Kg	☼	78	59 - 132
Perfluoroheptanoic acid	ND		27.5	24.63		ug/Kg	☼	89	59 - 137
Perfluorooctanoic acid	ND		27.5	20.48		ug/Kg	☼	74	59 - 131
Perfluorononanoic acid	ND		27.5	24.57		ug/Kg	☼	89	61 - 134
Perfluorodecanoic acid	ND		27.5	23.54		ug/Kg	☼	85	56 - 133
Perfluorotridecanoic acid	ND		27.5	23.17		ug/Kg	☼	84	53 - 143
Perfluorotetradecanoic acid	ND		27.5	24.11		ug/Kg	☼	88	62 - 134
Perfluorobutanesulfonic acid	ND		24.4	20.70		ug/Kg	☼	85	54 - 130
Perfluorohexanesulfonic acid	ND		25.1	21.48		ug/Kg	☼	85	59 - 129
Perfluorooctanesulfonic acid	ND		25.5	21.87		ug/Kg	☼	86	61 - 126
NEtFOSAA	ND		27.5	23.68		ug/Kg	☼	86	57 - 127
NMeFOSAA	ND		27.5	25.55		ug/Kg	☼	93	60 - 134
10:2 FTS	ND		26.6	22.34		ug/Kg	☼	84	46 - 143
Perfluoropentanesulfonic acid	ND		25.8	21.65		ug/Kg	☼	84	57 - 133
Perfluoroheptanesulfonic acid	ND		26.2	21.69		ug/Kg	☼	83	59 - 132
Perfluorononanesulfonic acid	ND		26.4	20.77		ug/Kg	☼	79	60 - 132
Perfluorodecanesulfonic acid	ND		26.6	21.40		ug/Kg	☼	81	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.7	22.22		ug/Kg	☼	83	38 - 145
Perfluorooctanesulfonamide	ND		27.5	25.99		ug/Kg	☼	94	47 - 149
Perfluorohexadecanoic acid	ND		27.5	21.89		ug/Kg	☼	79	38 - 147
Perfluorooctadecanoic acid	ND		27.5	22.16		ug/Kg	☼	80	16 - 160
Perfluorobutanoic acid	ND		27.5	21.60		ug/Kg	☼	78	60 - 128
Perfluoropentanoic acid	ND		27.5	22.42		ug/Kg	☼	81	58 - 134
NMeFOSE	ND		27.5	24.44		ug/Kg	☼	89	60 - 130
NMeFOSA	ND		27.5	26.25		ug/Kg	☼	95	60 - 129
NEtFOSE	ND		27.5	26.33		ug/Kg	☼	96	60 - 126
NEtFOSA	ND		27.5	25.99		ug/Kg	☼	94	60 - 123
HFPODA	ND		27.5	23.17		ug/Kg	☼	84	49 - 135
DONA	ND		26.0	21.55		ug/Kg	☼	83	57 - 137
9Cl-PF3ONS	ND		25.6	22.62		ug/Kg	☼	88	62 - 130
11Cl-PF3OUdS	ND		25.6	22.71		ug/Kg	☼	89	55 - 135
Perfluorododecanoic acid	ND		27.5	22.98		ug/Kg	☼	83	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.7	22.73		ug/Kg	☼	88	58 - 131
Perfluoroundecanoic acid	ND		27.5	25.57		ug/Kg	☼	93	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.1	23.71		ug/Kg	☼	91	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.4	22.08		ug/Kg	☼	84	55 - 133

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	97		10 - 200
M2-8:2 FTS	111		15 - 200
M2-6:2 FTS	105		10 - 200
13C5 PFHxA	112		10 - 174
13C4 PFHpA	105		10 - 178
13C8 PFOA	109		26 - 159
13C9 PFNA	108		26 - 165
13C6 PFDA	108		26 - 161
13C7 PFUnA	110		12 - 173
13C2-PFDoDA	105		11 - 166
13C2 PFTeDA	112		10 - 169
13C3 PFBS	110		27 - 179
13C3 PFHxS	106		24 - 171
13C8 PFOS	106		41 - 154
d3-NMeFOSAA	66		10 - 178
d5-NEtFOSAA	101		10 - 193
13C8 FOSA	94		14 - 163
13C4 PFBA	111		28 - 153
13C5 PFPeA	107		24 - 161
d7-N-MeFOSE-M	99		10 - 179
d3-NMePFOSA	68		10 - 175
d9-N-EtFOSE-M	91		10 - 185
d5-NEtPFOSA	73		10 - 180
13C3 HFPO-DA	94		10 - 169

Lab Sample ID: 620-10117-43 MSD — **Client Sample ID: 2023-SB-05-0406'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 355773 — **Prep Batch: 351204**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.3	21.80		ug/Kg	☼	80	59 - 132	1	30
Perfluoroheptanoic acid	ND		27.3	22.78		ug/Kg	☼	83	59 - 137	8	30
Perfluorooctanoic acid	ND		27.3	20.05		ug/Kg	☼	73	59 - 131	2	30
Perfluorononanoic acid	ND		27.3	25.11		ug/Kg	☼	92	61 - 134	2	30
Perfluorodecanoic acid	ND		27.3	22.72		ug/Kg	☼	83	56 - 133	4	30
Perfluorotridecanoic acid	ND		27.3	22.66		ug/Kg	☼	83	53 - 143	2	30
Perfluorotetradecanoic acid	ND		27.3	23.73		ug/Kg	☼	87	62 - 134	2	30
Perfluorobutanesulfonic acid	ND		24.2	20.22		ug/Kg	☼	84	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		24.9	20.81		ug/Kg	☼	84	59 - 129	3	30
Perfluorooctanesulfonic acid	ND		25.3	21.58		ug/Kg	☼	85	61 - 126	1	30
NEtFOSAA	ND		27.3	24.30		ug/Kg	☼	89	57 - 127	3	30
NMeFOSAA	ND		27.3	23.62		ug/Kg	☼	87	60 - 134	8	30
10:2 FTS	ND		26.3	25.00		ug/Kg	☼	95	46 - 143	11	30
Perfluoropentanesulfonic acid	ND		25.6	22.73		ug/Kg	☼	89	57 - 133	5	30
Perfluoroheptanesulfonic acid	ND		26.0	21.54		ug/Kg	☼	83	59 - 132	1	30
Perfluorononanesulfonic acid	ND		26.2	20.77		ug/Kg	☼	79	60 - 132	0	30
Perfluorodecanesulfonic acid	ND		26.3	21.45		ug/Kg	☼	82	57 - 132	0	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.4	20.95		ug/Kg	☼	79	38 - 145	6	30
Perfluorooctanesulfonamide	ND		27.3	24.88		ug/Kg	☼	91	47 - 149	4	30
Perfluorohexadecanoic acid	ND		27.3	22.12		ug/Kg	☼	81	38 - 147	1	30
Perfluorooctadecanoic acid	ND		27.3	23.38		ug/Kg	☼	86	16 - 160	5	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-43 MSD **Client Sample ID: 2023-SB-05-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 355773 **Prep Batch: 351204**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		27.3	20.93		ug/Kg	☼	77	60 - 128	3	30
Perfluoropentanoic acid	ND		27.3	21.72		ug/Kg	☼	80	58 - 134	3	30
NMeFOSE	ND		27.3	25.43		ug/Kg	☼	93	60 - 130	4	30
NMeFOSA	ND		27.3	23.70		ug/Kg	☼	87	60 - 129	10	30
NEtFOSE	ND		27.3	25.09		ug/Kg	☼	92	60 - 126	5	30
NEtFOSA	ND		27.3	25.50		ug/Kg	☼	93	60 - 123	2	30
HFPODA	ND		27.3	20.79		ug/Kg	☼	76	49 - 135	11	30
DONA	ND		25.8	20.87		ug/Kg	☼	81	57 - 137	3	30
9Cl-PF3ONS	ND		25.4	22.32		ug/Kg	☼	88	62 - 130	1	30
11Cl-PF3OUdS	ND		25.4	23.16		ug/Kg	☼	91	55 - 135	2	30
Perfluorododecanoic acid	ND		27.3	23.62		ug/Kg	☼	87	60 - 135	3	30
4:2 Fluorotelomer sulfonic acid	ND		25.5	22.75		ug/Kg	☼	89	58 - 131	0	30
Perfluoroundecanoic acid	ND		27.3	22.86		ug/Kg	☼	84	60 - 134	11	30
6:2 Fluorotelomer sulfonic acid	ND		25.9	23.01		ug/Kg	☼	89	59 - 135	3	30
8:2 Fluorotelomer sulfonic acid	ND		26.1	21.67		ug/Kg	☼	83	55 - 133	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*99*		*10 - 200*
M2-8:2 FTS	*96*		*15 - 200*
M2-6:2 FTS	*108*		*10 - 200*
13C5 PFHxA	*109*		*10 - 174*
13C4 PFHpA	*109*		*10 - 178*
13C8 PFOA	*108*		*26 - 159*
13C9 PFNA	*108*		*26 - 165*
13C6 PFDA	*104*		*26 - 161*
13C7 PFUnA	*113*		*12 - 173*
13C2-PFDoDA	*103*		*11 - 166*
13C2 PFTeDA	*101*		*10 - 169*
13C3 PFBS	*102*		*27 - 179*
13C3 PFHxS	*104*		*24 - 171*
13C8 PFOS	*110*		*41 - 154*
d3-NMeFOSAA	*67*		*10 - 178*
d5-NEtFOSAA	*88*		*10 - 193*
13C8 FOSA	*93*		*14 - 163*
13C4 PFBA	*108*		*28 - 153*
13C5 PFPeA	*104*		*24 - 161*
d7-N-MeFOSE-M	*92*		*10 - 179*
d3-NMePFOSA	*72*		*10 - 175*
d9-N-EtFOSE-M	*86*		*10 - 185*
d5-NEtPFOSA	*71*		*10 - 180*
13C3 HFPO-DA	*100*		*10 - 169*

Lab Sample ID: MB 410-351205/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 353839 **Prep Batch: 351205**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351205/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
DONA	ND		3.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C4 PFHpA	*113*		*10 - 178*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C6 PFDA	*105*		*26 - 161*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C2-PFDoDA	*112*		*11 - 166*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/07/23 22:53*	*03/15/23 21:18*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351205/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351205

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	114		24 - 171	03/07/23 22:53	03/15/23 21:18	1
13C8 PFOS	114		41 - 154	03/07/23 22:53	03/15/23 21:18	1
d3-NMeFOSAA	87		10 - 178	03/07/23 22:53	03/15/23 21:18	1
d5-NEtFOSAA	95		10 - 193	03/07/23 22:53	03/15/23 21:18	1
13C8 FOSA	76		14 - 163	03/07/23 22:53	03/15/23 21:18	1
13C4 PFBA	97		28 - 153	03/07/23 22:53	03/15/23 21:18	1
13C5 PFPeA	92		24 - 161	03/07/23 22:53	03/15/23 21:18	1
d7-N-MeFOSE-M	82		10 - 179	03/07/23 22:53	03/15/23 21:18	1
d3-NMePFOSA	74		10 - 175	03/07/23 22:53	03/15/23 21:18	1
d9-N-EtFOSE-M	88		10 - 185	03/07/23 22:53	03/15/23 21:18	1
d5-NEtPFOSA	76		10 - 180	03/07/23 22:53	03/15/23 21:18	1
13C3 HFPO-DA	93		10 - 169	03/07/23 22:53	03/15/23 21:18	1

Lab Sample ID: LCS 410-351205/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.03		ug/Kg		84	59 - 132
Perfluoroheptanoic acid	25.0	21.75		ug/Kg		87	59 - 137
Perfluorooctanoic acid	25.0	19.57		ug/Kg		78	59 - 131
Perfluorononanoic acid	25.0	20.78		ug/Kg		83	61 - 134
Perfluorodecanoic acid	25.0	21.39		ug/Kg		86	56 - 133
Perfluorotridecanoic acid	25.0	20.46		ug/Kg		82	53 - 143
Perfluorotetradecanoic acid	25.0	19.83		ug/Kg		79	62 - 134
Perfluorobutanesulfonic acid	22.1	21.27		ug/Kg		96	54 - 130
Perfluorohexanesulfonic acid	22.8	19.74		ug/Kg		87	59 - 129
Perfluorooctanesulfonic acid	23.1	19.78		ug/Kg		85	61 - 126
NEtFOSAA	25.0	22.31		ug/Kg		89	57 - 127
NMeFOSAA	25.0	23.03		ug/Kg		92	60 - 134
10:2 FTS	24.1	24.44		ug/Kg		101	46 - 143
Perfluoropentanesulfonic acid	23.5	18.72		ug/Kg		80	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.22		ug/Kg		89	59 - 132
Perfluorononanesulfonic acid	24.0	20.49		ug/Kg		85	60 - 132
Perfluorodecanesulfonic acid	24.1	20.04		ug/Kg		83	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.91		ug/Kg		82	38 - 145
Perfluorooctanesulfonamide	25.0	21.31		ug/Kg		85	47 - 149
Perfluorohexadecanoic acid	25.0	15.13		ug/Kg		61	38 - 147
Perfluorooctadecanoic acid	25.0	16.80		ug/Kg		67	16 - 160
Perfluorobutanoic acid	25.0	19.29		ug/Kg		77	60 - 128
Perfluoropentanoic acid	25.0	19.09		ug/Kg		76	58 - 134
NMeFOSE	25.0	22.02		ug/Kg		88	60 - 130
NMeFOSA	25.0	22.18		ug/Kg		89	60 - 129
NEtFOSE	25.0	21.47		ug/Kg		86	60 - 126
NEtFOSA	25.0	22.72		ug/Kg		91	60 - 123
HFPODA	25.0	21.81		ug/Kg		87	49 - 135
DONA	23.6	20.30		ug/Kg		86	57 - 137
9Cl-PF3ONS	23.3	19.63		ug/Kg		84	62 - 130

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351205/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	23.3	18.85		ug/Kg		81	55 - 135
Perfluorododecanoic acid	25.0	20.29		ug/Kg		81	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.30		ug/Kg		87	58 - 131
Perfluoroundecanoic acid	25.0	21.39		ug/Kg		86	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	19.77		ug/Kg		83	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	21.13		ug/Kg		88	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*101*		*10 - 200*
M2-8:2 FTS	*101*		*15 - 200*
M2-6:2 FTS	*108*		*10 - 200*
13C5 PFHxA	*110*		*10 - 174*
13C4 PFHpA	*111*		*10 - 178*
13C8 PFOA	*112*		*26 - 159*
13C9 PFNA	*116*		*26 - 165*
13C6 PFDA	*107*		*26 - 161*
13C7 PFUnA	*120*		*12 - 173*
13C2-PFDoDA	*118*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*118*		*27 - 179*
13C3 PFHxS	*113*		*24 - 171*
13C8 PFOS	*115*		*41 - 154*
d3-NMeFOSAA	*97*		*10 - 178*
d5-NEtFOSAA	*104*		*10 - 193*
13C8 FOSA	*91*		*14 - 163*
13C4 PFBA	*107*		*28 - 153*
13C5 PFPeA	*113*		*24 - 161*
d7-N-MeFOSE-M	*95*		*10 - 179*
d3-NMePFOSA	*69*		*10 - 175*
d9-N-EtFOSE-M	*97*		*10 - 185*
d5-NEtPFOSA	*68*		*10 - 180*
13C3 HFPO-DA	*94*		*10 - 169*

Lab Sample ID: MB 410-355124/1-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355124/1-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
HFPODA	ND		2.00	1.00	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
DONA	ND		3.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
M2-8:2 FTS	*129*		*15 - 200*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C5 PFHxA	*129*		*10 - 174*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C4 PFHpA	*127*		*10 - 178*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C8 PFOA	*138*		*26 - 159*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C9 PFNA	*138*		*26 - 165*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C6 PFDA	*133*		*26 - 161*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C7 PFUnA	*138*		*12 - 173*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C2-PFDoDA	*134*		*11 - 166*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C3 PFBS	*133*		*27 - 179*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C3 PFHxS	*138*		*24 - 171*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C8 PFOS	*143*		*41 - 154*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d3-NMeFOSAA	*127*		*10 - 178*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d5-NEtFOSAA	*129*		*10 - 193*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C8 FOSA	*87*		*14 - 163*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C4 PFBA	*110*		*28 - 153*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C5 PFPeA	*114*		*24 - 161*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d3-NMePFOSA	*64*		*10 - 175*	*03/19/23 19:30*	*03/21/23 09:23*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355124/1-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355124

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	91		10 - 185	03/19/23 19:30	03/21/23 09:23	1
d5-NEtPFOSA	66		10 - 180	03/19/23 19:30	03/21/23 09:23	1
13C3 HFPO-DA	135		10 - 169	03/19/23 19:30	03/21/23 09:23	1

Lab Sample ID: LCS 410-355124/2-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	17.81		ug/Kg		71	59 - 132
Perfluoroheptanoic acid	25.0	19.40		ug/Kg		78	59 - 137
Perfluorooctanoic acid	25.0	20.07		ug/Kg		80	59 - 131
Perfluorononanoic acid	25.0	18.13		ug/Kg		73	61 - 134
Perfluorodecanoic acid	25.0	17.82		ug/Kg		71	56 - 133
Perfluorotridecanoic acid	25.0	18.65		ug/Kg		75	53 - 143
Perfluorotetradecanoic acid	25.0	18.94		ug/Kg		76	62 - 134
Perfluorobutanesulfonic acid	22.1	16.78		ug/Kg		76	54 - 130
Perfluorohexanesulfonic acid	22.8	17.04		ug/Kg		75	59 - 129
Perfluorooctanesulfonic acid	23.1	16.97		ug/Kg		73	61 - 126
NEtFOSAA	25.0	21.28		ug/Kg		85	57 - 127
NMeFOSAA	25.0	19.95		ug/Kg		80	60 - 134
10:2 FTS	24.1	16.39		ug/Kg		68	46 - 143
Perfluoropentanesulfonic acid	23.5	17.41		ug/Kg		74	57 - 133
Perfluoroheptanesulfonic acid	23.8	17.16		ug/Kg		72	59 - 132
Perfluorononanesulfonic acid	24.0	17.51		ug/Kg		73	60 - 132
Perfluorodecanesulfonic acid	24.1	16.95		ug/Kg		70	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	16.37		ug/Kg		68	38 - 145
Perfluorooctanesulfonamide	25.0	19.84		ug/Kg		79	47 - 149
Perfluorohexadecanoic acid	25.0	15.30		ug/Kg		61	38 - 147
Perfluorooctadecanoic acid	25.0	16.76		ug/Kg		67	16 - 160
Perfluorobutanoic acid	25.0	17.29		ug/Kg		69	60 - 128
Perfluoropentanoic acid	25.0	17.23		ug/Kg		69	58 - 134
NMeFOSE	25.0	19.41		ug/Kg		78	60 - 130
NMeFOSA	25.0	19.12		ug/Kg		76	60 - 129
NEtFOSE	25.0	19.60		ug/Kg		78	60 - 126
NEtFOSA	25.0	20.35		ug/Kg		81	60 - 123
HFPODA	25.0	17.37		ug/Kg		69	49 - 135
DONA	23.6	19.09		ug/Kg		81	57 - 137
9Cl-PF3ONS	23.3	17.02		ug/Kg		73	62 - 130
11Cl-PF3OUdS	23.3	16.27		ug/Kg		70	55 - 135
Perfluorododecanoic acid	25.0	17.64		ug/Kg		71	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	17.79		ug/Kg		76	58 - 131
Perfluoroundecanoic acid	25.0	20.16		ug/Kg		81	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	18.35		ug/Kg		77	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	16.67		ug/Kg		70	55 - 133

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	108		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355124/2-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355124

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	135		15 - 200
M2-6:2 FTS	113		10 - 200
13C5 PFHxA	139		10 - 174
13C4 PFHpA	130		10 - 178
13C8 PFOA	130		26 - 159
13C9 PFNA	133		26 - 165
13C6 PFDA	140		26 - 161
13C7 PFUnA	136		12 - 173
13C2-PFDoDA	139		11 - 166
13C2 PFTeDA	164		10 - 169
13C3 PFBS	132		27 - 179
13C3 PFHxS	141		24 - 171
13C8 PFOS	130		41 - 154
d3-NMeFOSAA	147		10 - 178
d5-NEtFOSAA	130		10 - 193
13C8 FOSA	129		14 - 163
13C4 PFBA	132		28 - 153
13C5 PFPeA	131		24 - 161
d7-N-MeFOSE-M	126		10 - 179
d3-NMePFOSA	103		10 - 175
d9-N-EtFOSE-M	122		10 - 185
d5-NEtPFOSA	101		10 - 180
13C3 HFPO-DA	144		10 - 169

Lab Sample ID: 620-10117-44 MS
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		28.1	20.34		ug/Kg	☼	72	59 - 132
Perfluoroheptanoic acid	ND		28.1	21.47		ug/Kg	☼	76	59 - 137
Perfluorooctanoic acid	ND		28.1	22.26		ug/Kg	☼	79	59 - 131
Perfluorononanoic acid	ND		28.1	20.51		ug/Kg	☼	73	61 - 134
Perfluorodecanoic acid	ND		28.1	21.09		ug/Kg	☼	75	56 - 133
Perfluorotridecanoic acid	ND		28.1	21.66		ug/Kg	☼	77	53 - 143
Perfluorotetradecanoic acid	ND		28.1	22.20		ug/Kg	☼	79	62 - 134
Perfluorobutanesulfonic acid	ND		24.9	19.08		ug/Kg	☼	77	54 - 130
Perfluorohexanesulfonic acid	ND		25.7	18.50		ug/Kg	☼	72	59 - 129
Perfluorooctanesulfonic acid	ND		26.0	18.90		ug/Kg	☼	73	61 - 126
NEtFOSAA	ND		28.1	22.22		ug/Kg	☼	79	57 - 127
NMeFOSAA	ND		28.1	21.40		ug/Kg	☼	76	60 - 134
10:2 FTS	ND		27.1	18.35		ug/Kg	☼	68	46 - 143
Perfluoropentanesulfonic acid	ND		26.4	19.84		ug/Kg	☼	75	57 - 133
Perfluoroheptanesulfonic acid	ND		26.8	18.77		ug/Kg	☼	70	59 - 132
Perfluorononanesulfonic acid	ND		27.0	18.40		ug/Kg	☼	68	60 - 132
Perfluorodecanesulfonic acid	ND		27.1	17.80		ug/Kg	☼	66	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		27.2	18.05		ug/Kg	☼	66	38 - 145
Perfluorooctanesulfonamide	ND		28.1	22.07		ug/Kg	☼	78	47 - 149

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-44 MS
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexadecanoic acid	ND		28.1	18.59		ug/Kg	☼	66	38 - 147
Perfluorooctadecanoic acid	ND		28.1	20.69		ug/Kg	☼	74	16 - 160
Perfluorobutanoic acid	ND		28.1	19.46		ug/Kg	☼	69	60 - 128
Perfluoropentanoic acid	ND		28.1	19.67		ug/Kg	☼	70	58 - 134
NMeFOSE	ND		28.1	21.83		ug/Kg	☼	78	60 - 130
NMeFOSA	ND		28.1	22.65		ug/Kg	☼	80	60 - 129
NEtFOSE	ND		28.1	22.66		ug/Kg	☼	81	60 - 126
NEtFOSA	ND		28.1	22.02		ug/Kg	☼	78	60 - 123
HFPODA	ND		28.1	19.30		ug/Kg	☼	69	49 - 135
DONA	ND		26.6	21.46		ug/Kg	☼	81	57 - 137
9Cl-PF3ONS	ND		26.2	18.39		ug/Kg	☼	70	62 - 130
11Cl-PF3OUdS	ND		26.2	18.08		ug/Kg	☼	69	55 - 135
Perfluorododecanoic acid	ND		28.1	22.01		ug/Kg	☼	78	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		26.3	18.19		ug/Kg	☼	69	58 - 131
Perfluoroundecanoic acid	ND		28.1	22.27		ug/Kg	☼	79	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.7	18.67		ug/Kg	☼	70	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		27.0	18.72		ug/Kg	☼	69	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*105*		*10 - 200*
M2-8:2 FTS	*128*		*15 - 200*
M2-6:2 FTS	*119*		*10 - 200*
13C5 PFHxA	*127*		*10 - 174*
13C4 PFHpA	*129*		*10 - 178*
13C8 PFOA	*128*		*26 - 159*
13C9 PFNA	*127*		*26 - 165*
13C6 PFDA	*126*		*26 - 161*
13C7 PFUnA	*121*		*12 - 173*
13C2-PFDoDA	*121*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*129*		*27 - 179*
13C3 PFHxS	*138*		*24 - 171*
13C8 PFOS	*131*		*41 - 154*
d3-NMeFOSAA	*117*		*10 - 178*
d5-NEtFOSAA	*113*		*10 - 193*
13C8 FOSA	*130*		*14 - 163*
13C4 PFBA	*132*		*28 - 153*
13C5 PFPeA	*127*		*24 - 161*
d7-N-MeFOSE-M	*117*		*10 - 179*
d3-NMePFOSA	*71*		*10 - 175*
d9-N-EtFOSE-M	*115*		*10 - 185*
d5-NEtPFOSA	*73*		*10 - 180*
13C3 HFPO-DA	*148*		*10 - 169*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-44 MSD
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		28.4	20.00		ug/Kg	☼	70	59 - 132	2	30
Perfluoroheptanoic acid	ND		28.4	22.40		ug/Kg	☼	79	59 - 137	4	30
Perfluorooctanoic acid	ND		28.4	23.90		ug/Kg	☼	84	59 - 131	7	30
Perfluorononanoic acid	ND		28.4	22.39		ug/Kg	☼	79	61 - 134	9	30
Perfluorodecanoic acid	ND		28.4	22.02		ug/Kg	☼	77	56 - 133	4	30
Perfluorotridecanoic acid	ND		28.4	20.38		ug/Kg	☼	72	53 - 143	6	30
Perfluorotetradecanoic acid	ND		28.4	21.20		ug/Kg	☼	75	62 - 134	5	30
Perfluorobutanesulfonic acid	ND		25.2	19.08		ug/Kg	☼	76	54 - 130	0	30
Perfluorohexanesulfonic acid	ND		25.9	18.84		ug/Kg	☼	73	59 - 129	2	30
Perfluorooctanesulfonic acid	ND		26.3	19.58		ug/Kg	☼	74	61 - 126	3	30
NEtFOSAA	ND		28.4	22.83		ug/Kg	☼	80	57 - 127	3	30
NMeFOSAA	ND		28.4	23.68		ug/Kg	☼	83	60 - 134	10	30
10:2 FTS	ND		27.4	19.40		ug/Kg	☼	71	46 - 143	6	30
Perfluoropentanesulfonic acid	ND		26.7	19.70		ug/Kg	☼	74	57 - 133	1	30
Perfluoroheptanesulfonic acid	ND		27.1	19.06		ug/Kg	☼	70	59 - 132	2	30
Perfluorononanesulfonic acid	ND		27.3	20.23		ug/Kg	☼	74	60 - 132	9	30
Perfluorodecanesulfonic acid	ND		27.4	18.76		ug/Kg	☼	68	57 - 132	5	30
Perfluorododecanesulfonic acid (PFDoS)	ND		27.5	19.26		ug/Kg	☼	70	38 - 145	6	30
Perfluorooctanesulfonamide	ND		28.4	20.50		ug/Kg	☼	72	47 - 149	7	30
Perfluorohexadecanoic acid	ND		28.4	18.60		ug/Kg	☼	65	38 - 147	0	30
Perfluorooctadecanoic acid	ND		28.4	20.11		ug/Kg	☼	71	16 - 160	3	30
Perfluorobutanoic acid	ND		28.4	19.41		ug/Kg	☼	68	60 - 128	0	30
Perfluoropentanoic acid	ND		28.4	20.08		ug/Kg	☼	71	58 - 134	2	30
NMeFOSE	ND		28.4	21.45		ug/Kg	☼	75	60 - 130	2	30
NMeFOSA	ND		28.4	21.99		ug/Kg	☼	77	60 - 129	3	30
NEtFOSE	ND		28.4	21.84		ug/Kg	☼	77	60 - 126	4	30
NEtFOSA	ND		28.4	22.64		ug/Kg	☼	80	60 - 123	3	30
HFPODA	ND		28.4	21.91		ug/Kg	☼	77	49 - 135	13	30
DONA	ND		26.9	21.67		ug/Kg	☼	81	57 - 137	1	30
9Cl-PF3ONS	ND		26.4	18.84		ug/Kg	☼	71	62 - 130	2	30
11Cl-PF3OUdS	ND		26.4	18.76		ug/Kg	☼	71	55 - 135	4	30
Perfluorododecanoic acid	ND		28.4	21.02		ug/Kg	☼	74	60 - 135	5	30
4:2 Fluorotelomer sulfonic acid	ND		26.5	19.31		ug/Kg	☼	73	58 - 131	6	30
Perfluoroundecanoic acid	ND		28.4	21.38		ug/Kg	☼	75	60 - 134	4	30
6:2 Fluorotelomer sulfonic acid	ND		26.9	19.52		ug/Kg	☼	72	59 - 135	4	30
8:2 Fluorotelomer sulfonic acid	ND		27.2	21.77		ug/Kg	☼	80	55 - 133	15	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*99*		*10 - 200*
M2-8:2 FTS	*130*		*15 - 200*
M2-6:2 FTS	*120*		*10 - 200*
13C5 PFHxA	*133*		*10 - 174*
13C4 PFHpA	*128*		*10 - 178*
13C8 PFOA	*128*		*26 - 159*
13C9 PFNA	*125*		*26 - 165*
13C6 PFDA	*137*		*26 - 161*
13C7 PFUnA	*143*		*12 - 173*
13C2-PFDoDA	*135*		*11 - 166*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-44 MSD
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFTeDA	156		10 - 169
13C3 PFBS	136		27 - 179
13C3 PFHxS	141		24 - 171
13C8 PFOS	129		41 - 154
d3-NMeFOSAA	134		10 - 178
d5-NEtFOSAA	133		10 - 193
13C8 FOSA	146		14 - 163
13C4 PFBA	138		28 - 153
13C5 PFPeA	132		24 - 161
d7-N-MeFOSE-M	137		10 - 179
d3-NMePFOSA	122		10 - 175
d9-N-EtFOSE-M	132		10 - 185
d5-NEtPFOSA	125		10 - 180
13C3 HFPO-DA	135		10 - 169

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
HFPODA	ND		2.00	1.00	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	ND		3.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-8:2 FTS	*130*		*15 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-6:2 FTS	*139*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFHxA	*136*		*10 - 174*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFHpA	*146*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOA	*144*		*26 - 159*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C9 PFNA	*131*		*26 - 165*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C6 PFDA	*136*		*26 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C7 PFUnA	*139*		*12 - 173*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2-PFDoDA	*138*		*11 - 166*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFHxS	*150*		*24 - 171*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMeFOSAA	*114*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtFOSAA	*114*		*10 - 193*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 FOSA	*77*		*14 - 163*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFBA	*114*		*28 - 153*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFPeA	*118*		*24 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d7-N-MeFOSE-M	*68*		*10 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMePFOSA	*25*		*10 - 175*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d9-N-EtFOSE-M	*73*		*10 - 185*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtPFOSA	*26*		*10 - 180*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 HFPO-DA	*124*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	18.06		ug/Kg		72	59 - 132
Perfluoroheptanoic acid	25.0	19.47		ug/Kg		78	59 - 137
Perfluorooctanoic acid	25.0	18.41		ug/Kg		74	59 - 131
Perfluorononanoic acid	25.0	20.12		ug/Kg		80	61 - 134
Perfluorodecanoic acid	25.0	18.34		ug/Kg		73	56 - 133
Perfluorotridecanoic acid	25.0	19.39		ug/Kg		78	53 - 143
Perfluorotetradecanoic acid	25.0	18.76		ug/Kg		75	62 - 134
Perfluorobutanesulfonic acid	22.1	17.21		ug/Kg		78	54 - 130
Perfluorohexanesulfonic acid	22.8	16.76		ug/Kg		74	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	23.1	17.28		ug/Kg		75	61 - 126
NEtFOSAA	25.0	20.51		ug/Kg		82	57 - 127
NMeFOSAA	25.0	21.10		ug/Kg		84	60 - 134
10:2 FTS	24.1	16.95		ug/Kg		70	46 - 143
Perfluoropentanesulfonic acid	23.5	17.61		ug/Kg		75	57 - 133
Perfluoroheptanesulfonic acid	23.8	18.09		ug/Kg		76	59 - 132
Perfluorononanesulfonic acid	24.0	18.24		ug/Kg		76	60 - 132
Perfluorodecanesulfonic acid	24.1	19.20		ug/Kg		80	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	18.47		ug/Kg		76	38 - 145
Perfluorooctanesulfonamide	25.0	19.43		ug/Kg		78	47 - 149
Perfluorohexadecanoic acid	25.0	16.54		ug/Kg		66	38 - 147
Perfluorooctadecanoic acid	25.0	17.26		ug/Kg		69	16 - 160
Perfluorobutanoic acid	25.0	17.18		ug/Kg		69	60 - 128
Perfluoropentanoic acid	25.0	17.58		ug/Kg		70	58 - 134
NMeFOSE	25.0	20.91		ug/Kg		84	60 - 130
NMeFOSA	25.0	20.01		ug/Kg		80	60 - 129
NEtFOSE	25.0	18.38		ug/Kg		74	60 - 126
NEtFOSA	25.0	20.72		ug/Kg		83	60 - 123
HFPODA	25.0	19.86		ug/Kg		79	49 - 135
DONA	23.6	17.05		ug/Kg		72	57 - 137
9Cl-PF3ONS	23.3	17.98		ug/Kg		77	62 - 130
11Cl-PF3OUdS	23.3	17.23		ug/Kg		74	55 - 135
Perfluorododecanoic acid	25.0	18.00		ug/Kg		72	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.57		ug/Kg		84	58 - 131
Perfluoroundecanoic acid	25.0	18.88		ug/Kg		76	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	17.47		ug/Kg		74	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.38		ug/Kg		77	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*115*		*10 - 200*
M2-8:2 FTS	*126*		*15 - 200*
M2-6:2 FTS	*117*		*10 - 200*
13C5 PFHxA	*129*		*10 - 174*
13C4 PFHpA	*129*		*10 - 178*
13C8 PFOA	*130*		*26 - 159*
13C9 PFNA	*126*		*26 - 165*
13C6 PFDA	*131*		*26 - 161*
13C7 PFUnA	*138*		*12 - 173*
13C2-PFDoDA	*130*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*136*		*27 - 179*
13C3 PFHxS	*139*		*24 - 171*
13C8 PFOS	*133*		*41 - 154*
d3-NMeFOSAA	*123*		*10 - 178*
d5-NEtFOSAA	*126*		*10 - 193*
13C8 FOSA	*76*		*14 - 163*
13C4 PFBA	*118*		*28 - 153*
13C5 PFPeA	*120*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d7-N-MeFOSE-M	69		10 - 179
d3-NMePFOSA	53		10 - 175
d9-N-EtFOSE-M	79		10 - 185
d5-NEtPFOSA	50		10 - 180
13C3 HFPO-DA	112		10 - 169

Lab Sample ID: 620-10117-36 MS
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: 2023-SB-06-0608'
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.8	20.32		ug/Kg	☼	73	59 - 132
Perfluoroheptanoic acid	ND		27.8	21.13		ug/Kg	☼	76	59 - 137
Perfluorooctanoic acid	ND		27.8	20.25		ug/Kg	☼	73	59 - 131
Perfluorononanoic acid	ND		27.8	21.81		ug/Kg	☼	78	61 - 134
Perfluorodecanoic acid	ND		27.8	21.12		ug/Kg	☼	76	56 - 133
Perfluorotridecanoic acid	ND		27.8	22.37		ug/Kg	☼	80	53 - 143
Perfluorotetradecanoic acid	ND		27.8	20.21		ug/Kg	☼	73	62 - 134
Perfluorobutanesulfonic acid	ND		24.6	19.30		ug/Kg	☼	78	54 - 130
Perfluorohexanesulfonic acid	ND		25.4	18.48		ug/Kg	☼	73	59 - 129
Perfluorooctanesulfonic acid	ND		25.8	19.55		ug/Kg	☼	76	61 - 126
NEtFOSAA	ND		27.8	23.63		ug/Kg	☼	85	57 - 127
NMeFOSAA	ND		27.8	21.54		ug/Kg	☼	77	60 - 134
10:2 FTS	ND		26.8	19.36		ug/Kg	☼	72	46 - 143
Perfluoropentanesulfonic acid	ND		26.1	19.82		ug/Kg	☼	76	57 - 133
Perfluoroheptanesulfonic acid	ND		26.5	19.38		ug/Kg	☼	73	59 - 132
Perfluorononanesulfonic acid	ND		26.7	20.05		ug/Kg	☼	75	60 - 132
Perfluorodecanesulfonic acid	ND		26.8	21.09		ug/Kg	☼	79	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.9	20.14		ug/Kg	☼	75	38 - 145
Perfluorooctanesulfonamide	ND		27.8	21.30		ug/Kg	☼	77	47 - 149
Perfluorohexadecanoic acid	ND		27.8	18.84		ug/Kg	☼	68	38 - 147
Perfluorooctadecanoic acid	ND		27.8	19.86		ug/Kg	☼	71	16 - 160
Perfluorobutanoic acid	ND		27.8	18.86		ug/Kg	☼	68	60 - 128
Perfluoropentanoic acid	ND		27.8	19.31		ug/Kg	☼	69	58 - 134
NMeFOSE	ND		27.8	22.08		ug/Kg	☼	79	60 - 130
NMeFOSA	ND		27.8	23.14		ug/Kg	☼	83	60 - 129
NEtFOSE	ND		27.8	20.91		ug/Kg	☼	75	60 - 126
NEtFOSA	ND		27.8	22.90		ug/Kg	☼	82	60 - 123
HFPODA	ND		27.8	21.05		ug/Kg	☼	76	49 - 135
DONA	ND		26.3	18.60		ug/Kg	☼	71	57 - 137
9Cl-PF3ONS	ND		25.9	19.94		ug/Kg	☼	77	62 - 130
11Cl-PF3OUdS	ND		25.9	19.53		ug/Kg	☼	75	55 - 135
Perfluorododecanoic acid	ND		27.8	21.02		ug/Kg	☼	76	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		26.0	19.76		ug/Kg	☼	76	58 - 131
Perfluoroundecanoic acid	ND		27.8	21.31		ug/Kg	☼	77	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.4	18.58		ug/Kg	☼	70	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.7	21.31		ug/Kg	☼	80	55 - 133

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	131		10 - 200
M2-8:2 FTS	133		15 - 200
M2-6:2 FTS	135		10 - 200
13C5 PFHxA	142		10 - 174
13C4 PFHpA	144		10 - 178
13C8 PFOA	138		26 - 159
13C9 PFNA	132		26 - 165
13C6 PFDA	136		26 - 161
13C7 PFUnA	140		12 - 173
13C2-PFDoDA	136		11 - 166
13C2 PFTeDA	148		10 - 169
13C3 PFBS	141		27 - 179
13C3 PFHxS	152		24 - 171
13C8 PFOS	136		41 - 154
d3-NMeFOSAA	139		10 - 178
d5-NEtFOSAA	133		10 - 193
13C8 FOSA	134		14 - 163
13C4 PFBA	140		28 - 153
13C5 PFPeA	135		24 - 161
d7-N-MeFOSE-M	121		10 - 179
d3-NMePFOSA	114		10 - 175
d9-N-EtFOSE-M	130		10 - 185
d5-NEtPFOSA	117		10 - 180
13C3 HFPO-DA	138		10 - 169

Lab Sample ID: 620-10117-36 MSD
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: 2023-SB-06-0608'
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.1	20.25		ug/Kg	☼	75	59 - 132	0	30
Perfluoroheptanoic acid	ND		27.1	21.10		ug/Kg	☼	78	59 - 137	0	30
Perfluorooctanoic acid	ND		27.1	19.80		ug/Kg	☼	73	59 - 131	2	30
Perfluorononanoic acid	ND		27.1	20.44		ug/Kg	☼	76	61 - 134	6	30
Perfluorodecanoic acid	ND		27.1	20.21		ug/Kg	☼	75	56 - 133	4	30
Perfluorotridecanoic acid	ND		27.1	21.37		ug/Kg	☼	79	53 - 143	5	30
Perfluorotetradecanoic acid	ND		27.1	19.93		ug/Kg	☼	74	62 - 134	1	30
Perfluorobutanesulfonic acid	ND		23.9	19.60		ug/Kg	☼	82	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		24.7	18.39		ug/Kg	☼	75	59 - 129	1	30
Perfluorooctanesulfonic acid	ND		25.0	19.32		ug/Kg	☼	77	61 - 126	1	30
NEtFOSAA	ND		27.1	22.20		ug/Kg	☼	82	57 - 127	6	30
NMeFOSAA	ND		27.1	21.98		ug/Kg	☼	81	60 - 134	2	30
10:2 FTS	ND		26.1	22.61		ug/Kg	☼	87	46 - 143	15	30
Perfluoropentanesulfonic acid	ND		25.4	19.77		ug/Kg	☼	78	57 - 133	0	30
Perfluoroheptanesulfonic acid	ND		25.8	19.56		ug/Kg	☼	76	59 - 132	1	30
Perfluorononanesulfonic acid	ND		26.0	18.48		ug/Kg	☼	71	60 - 132	8	30
Perfluorodecanesulfonic acid	ND		26.1	19.52		ug/Kg	☼	75	57 - 132	8	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.2	19.26		ug/Kg	☼	74	38 - 145	5	30
Perfluorooctanesulfonamide	ND		27.1	20.52		ug/Kg	☼	76	47 - 149	4	30
Perfluorohexadecanoic acid	ND		27.1	18.23		ug/Kg	☼	67	38 - 147	3	30
Perfluorooctadecanoic acid	ND		27.1	19.64		ug/Kg	☼	73	16 - 160	1	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-36 MSD
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: 2023-SB-06-0608'
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		27.1	18.53		ug/Kg	☼	68	60 - 128	2	30
Perfluoropentanoic acid	ND		27.1	19.03		ug/Kg	☼	70	58 - 134	1	30
NMeFOSE	ND		27.1	21.59		ug/Kg	☼	80	60 - 130	2	30
NMeFOSA	ND		27.1	21.75		ug/Kg	☼	80	60 - 129	6	30
NEtFOSE	ND		27.1	20.74		ug/Kg	☼	77	60 - 126	1	30
NEtFOSA	ND		27.1	22.49		ug/Kg	☼	83	60 - 123	2	30
HFPODA	ND		27.1	25.62		ug/Kg	☼	95	49 - 135	20	30
DONA	ND		25.6	19.56		ug/Kg	☼	77	57 - 137	5	30
9Cl-PF3ONS	ND		25.2	19.36		ug/Kg	☼	77	62 - 130	3	30
11Cl-PF3OUdS	ND		25.2	18.72		ug/Kg	☼	74	55 - 135	4	30
Perfluorododecanoic acid	ND		27.1	20.64		ug/Kg	☼	76	60 - 135	2	30
4:2 Fluorotelomer sulfonic acid	ND		25.3	19.20		ug/Kg	☼	76	58 - 131	3	30
Perfluoroundecanoic acid	ND		27.1	19.93		ug/Kg	☼	74	60 - 134	7	30
6:2 Fluorotelomer sulfonic acid	ND		25.7	19.75		ug/Kg	☼	77	59 - 135	6	30
8:2 Fluorotelomer sulfonic acid	ND		25.9	24.94		ug/Kg	☼	96	55 - 133	16	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*133*		*10 - 200*
M2-8:2 FTS	*118*		*15 - 200*
M2-6:2 FTS	*127*		*10 - 200*
13C5 PFHxA	*144*		*10 - 174*
13C4 PFHpA	*143*		*10 - 178*
13C8 PFOA	*143*		*26 - 159*
13C9 PFNA	*138*		*26 - 165*
13C6 PFDA	*145*		*26 - 161*
13C7 PFUnA	*147*		*12 - 173*
13C2-PFDoDA	*140*		*11 - 166*
13C2 PFTeDA	*154*		*10 - 169*
13C3 PFBS	*136*		*27 - 179*
13C3 PFHxS	*149*		*24 - 171*
13C8 PFOS	*142*		*41 - 154*
d3-NMeFOSAA	*137*		*10 - 178*
d5-NEtFOSAA	*144*		*10 - 193*
13C8 FOSA	*135*		*14 - 163*
13C4 PFBA	*141*		*28 - 153*
13C5 PFPeA	*138*		*24 - 161*
d7-N-MeFOSE-M	*130*		*10 - 179*
d3-NMePFOSA	*113*		*10 - 175*
d9-N-EtFOSE-M	*136*		*10 - 185*
d5-NEtPFOSA	*110*		*10 - 180*
13C3 HFPO-DA	*120*		*10 - 169*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-350840/1-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Zinc	ND	^5-	2.00	0.800	mg/Kg		03/07/23 07:56	03/08/23 20:24	1

Lab Sample ID: LCS 410-350840/2-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.625		mg/Kg		96	80 - 120
Arsenic	50.0	47.71		mg/Kg		95	80 - 120
Barium	50.0	49.21		mg/Kg		98	80 - 120
Beryllium	5.00	5.004		mg/Kg		100	80 - 120
Cadmium	5.00	4.922		mg/Kg		98	80 - 120
Chromium	50.0	49.83		mg/Kg		100	80 - 120
Lead	5.00	5.383		mg/Kg		108	80 - 120
Nickel	50.0	50.00		mg/Kg		100	80 - 120
Selenium	10.0	9.752		mg/Kg		98	80 - 120
Silver	5.00	5.211	^3+	mg/Kg		104	80 - 120
Thallium	10.0	10.16		mg/Kg		102	80 - 120
Vanadium	50.0	48.63		mg/Kg		97	80 - 120
Zinc	50.0	47.36	^5-	mg/Kg		95	80 - 120

Lab Sample ID: MB 410-351011/1-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 13:12	03/09/23 07:34	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351011/1-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Zinc	ND		2.00	0.800	mg/Kg		03/07/23 13:12	03/09/23 07:34	1

Lab Sample ID: LCS 410-351011/2-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.637		mg/Kg		96	80 - 120
Arsenic	50.0	48.23		mg/Kg		96	80 - 120
Barium	50.0	49.49		mg/Kg		99	80 - 120
Beryllium	5.00	4.966		mg/Kg		99	80 - 120
Cadmium	5.00	4.927		mg/Kg		99	80 - 120
Chromium	50.0	49.28		mg/Kg		99	80 - 120
Lead	5.00	5.525		mg/Kg		111	80 - 120
Nickel	50.0	50.62		mg/Kg		101	80 - 120
Selenium	10.0	9.771		mg/Kg		98	80 - 120
Silver	5.00	5.169	^3+	mg/Kg		103	80 - 120
Thallium	10.0	10.18		mg/Kg		102	80 - 120
Vanadium	50.0	48.42		mg/Kg		97	80 - 120
Zinc	50.0	47.78		mg/Kg		96	80 - 120

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F2	8.24	6.802		mg/Kg	☼	83	75 - 125
Arsenic	3.17	F2	41.2	43.16		mg/Kg	☼	97	75 - 125
Barium	17.6	F1	41.2	103.4	F1	mg/Kg	☼	208	75 - 125
Beryllium	0.348	J	4.12	4.864		mg/Kg	☼	110	75 - 125
Cadmium	ND	F2	4.12	3.766		mg/Kg	☼	91	75 - 125
Chromium	6.59		41.2	54.29		mg/Kg	☼	116	75 - 125
Lead	2.85	F1	4.12	9.338	F1	mg/Kg	☼	157	75 - 125
Nickel	3.47		41.2	45.39		mg/Kg	☼	102	75 - 125
Selenium	ND	F2	8.24	7.277		mg/Kg	☼	88	75 - 125
Silver	ND	F2 ^3+	4.12	4.129	^3+	mg/Kg	☼	100	75 - 125
Thallium	ND	F2 F1	8.24	4.013	F1	mg/Kg	☼	49	75 - 125
Vanadium	9.07	F1	41.2	64.16	F1	mg/Kg	☼	134	75 - 125
Zinc	28.0		41.2	77.58		mg/Kg	☼	120	75 - 125

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F2	11.5	11.12	F2	mg/Kg	☼	97	75 - 125	48	30
Arsenic	3.17	F2	57.5	60.32	F2	mg/Kg	☼	99	75 - 125	33	30
Barium	17.6	F1	57.5	92.54	F1	mg/Kg	☼	130	75 - 125	11	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.348	J	5.75	6.236		mg/Kg	☼	102	75 - 125	25	30
Cadmium	ND	F2	5.75	5.525	F2	mg/Kg	☼	96	75 - 125	38	30
Chromium	6.59		57.5	64.86		mg/Kg	☼	101	75 - 125	18	30
Lead	2.85	F1	5.75	9.137		mg/Kg	☼	109	75 - 125	2	30
Nickel	3.47		57.5	60.38		mg/Kg	☼	99	75 - 125	28	30
Selenium	ND	F2	11.5	11.33	F2	mg/Kg	☼	98	75 - 125	44	30
Silver	ND	F2 ^3+	5.75	5.936	^3+ F2	mg/Kg	☼	103	75 - 125	36	30
Thallium	ND	F2 F1	11.5	9.074	F2	mg/Kg	☼	79	75 - 125	77	30
Vanadium	9.07	F1	57.5	69.53		mg/Kg	☼	105	75 - 125	8	30
Zinc	28.0		57.5	82.65		mg/Kg	☼	95	75 - 125	6	30

Lab Sample ID: 620-10117-18 DU
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	ND	F2		ND		mg/Kg	☼			NC	30
Arsenic	3.17	F2		3.125	J	mg/Kg	☼			2	30
Barium	17.6	F1		18.83		mg/Kg	☼			7	30
Beryllium	0.348	J		0.2824	J	mg/Kg	☼			21	30
Cadmium	ND	F2		ND		mg/Kg	☼			NC	30
Chromium	6.59			6.043		mg/Kg	☼			9	30
Lead	2.85	F1		2.363		mg/Kg	☼			19	30
Nickel	3.47			2.606		mg/Kg	☼			28	30
Selenium	ND	F2		ND		mg/Kg	☼			NC	30
Silver	ND	F2 ^3+		ND	^3+	mg/Kg	☼			NC	30
Thallium	ND	F2 F1		ND		mg/Kg	☼			NC	30
Vanadium	9.07	F1		9.122		mg/Kg	☼			0.6	30
Zinc	28.0			17.16	F3	mg/Kg	☼			48	30

Lab Sample ID: MB 410-351165/1-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Zinc	ND		2.00	0.800	mg/Kg		03/07/23 19:52	03/09/23 05:39	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-351165/2-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.898		mg/Kg		99	80 - 120
Arsenic	50.0	48.98		mg/Kg		98	80 - 120
Barium	50.0	49.28		mg/Kg		99	80 - 120
Beryllium	5.00	4.981		mg/Kg		100	80 - 120
Cadmium	5.00	4.938		mg/Kg		99	80 - 120
Chromium	50.0	49.77		mg/Kg		100	80 - 120
Lead	5.00	5.429		mg/Kg		109	80 - 120
Nickel	50.0	50.60		mg/Kg		101	80 - 120
Selenium	10.0	9.886		mg/Kg		99	80 - 120
Silver	5.00	5.302	^3+	mg/Kg		106	80 - 120
Thallium	10.0	10.07		mg/Kg		101	80 - 120
Vanadium	50.0	48.49		mg/Kg		97	80 - 120
Zinc	50.0	48.29		mg/Kg		97	80 - 120

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		8.10	7.567		mg/Kg	☼	93	75 - 125
Arsenic	1.43	J	40.5	39.53		mg/Kg	☼	94	75 - 125
Barium	26.3	F2	40.5	59.22		mg/Kg	☼	81	75 - 125
Beryllium	0.285	J	4.05	4.196		mg/Kg	☼	97	75 - 125
Cadmium	ND		4.05	3.848		mg/Kg	☼	95	75 - 125
Chromium	5.42		40.5	46.84		mg/Kg	☼	102	75 - 125
Lead	4.16		4.05	8.028		mg/Kg	☼	96	75 - 125
Nickel	2.81		40.5	44.53		mg/Kg	☼	103	75 - 125
Selenium	ND	F2	8.10	7.700		mg/Kg	☼	95	75 - 125
Silver	ND	^3+	4.05	3.984	^3+	mg/Kg	☼	98	75 - 125
Thallium	ND		8.10	6.957		mg/Kg	☼	86	75 - 125
Vanadium	6.68		40.5	47.10		mg/Kg	☼	100	75 - 125
Zinc	44.1		40.5	78.53		mg/Kg	☼	85	75 - 125

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		10.5	9.755		mg/Kg	☼	93	75 - 125	25	30
Arsenic	1.43	J	52.7	52.40		mg/Kg	☼	97	75 - 125	28	30
Barium	26.3	F2	52.7	85.32	F2	mg/Kg	☼	112	75 - 125	36	30
Beryllium	0.285	J	5.27	5.478		mg/Kg	☼	99	75 - 125	27	30
Cadmium	ND		5.27	5.060		mg/Kg	☼	96	75 - 125	27	30
Chromium	5.42		52.7	57.76		mg/Kg	☼	99	75 - 125	21	30
Lead	4.16		5.27	10.53		mg/Kg	☼	121	75 - 125	27	30
Nickel	2.81		52.7	54.48		mg/Kg	☼	98	75 - 125	20	30
Selenium	ND	F2	10.5	10.85	F2	mg/Kg	☼	103	75 - 125	34	30
Silver	ND	^3+	5.27	5.336	^3+	mg/Kg	☼	101	75 - 125	29	30
Thallium	ND		10.5	8.727		mg/Kg	☼	83	75 - 125	23	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium	6.68		52.7	58.36		mg/Kg	☼	98	75 - 125	21	30
Zinc	44.1		52.7	93.58		mg/Kg	☼	94	75 - 125	17	30

Lab Sample ID: 620-10117-43 DU
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	1.43	J	ND		mg/Kg	☼	NC	30
Barium	26.3	F2	27.12		mg/Kg	☼	3	30
Beryllium	0.285	J	0.2569	J	mg/Kg	☼	10	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	5.42		5.084		mg/Kg	☼	6	30
Lead	4.16		4.106		mg/Kg	☼	1	30
Nickel	2.81		2.671		mg/Kg	☼	5	30
Selenium	ND	F2	ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30
Vanadium	6.68		6.443		mg/Kg	☼	4	30
Zinc	44.1		40.09		mg/Kg	☼	10	30

Lab Sample ID: MB 410-351221/1-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Barium	ND		0.500	0.150	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Beryllium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Lead	ND		1.50	0.600	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Zinc	ND		2.00	0.800	mg/Kg		03/08/23 00:33	03/10/23 02:42	1

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.640		mg/Kg		96	80 - 120
Arsenic	50.0	50.46		mg/Kg		101	80 - 120
Barium	50.0	50.72		mg/Kg		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	5.00	4.958		mg/Kg		99	80 - 120
Cadmium	5.00	4.901		mg/Kg		98	80 - 120
Chromium	50.0	51.79		mg/Kg		104	80 - 120
Lead	5.00	5.429		mg/Kg		109	80 - 120
Nickel	50.0	50.07		mg/Kg		100	80 - 120
Selenium	10.0	9.637		mg/Kg		96	80 - 120
Silver	5.00	5.267	^3+	mg/Kg		105	80 - 120
Thallium	10.0	10.00		mg/Kg		100	80 - 120
Vanadium	50.0	49.21		mg/Kg		98	80 - 120
Zinc	50.0	48.91		mg/Kg		98	80 - 120

Lab Sample ID: 620-10117-17 MS
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	10.1	6.459	F1	mg/Kg	☼	64	75 - 125
Arsenic	7.90		50.4	54.07		mg/Kg	☼	92	75 - 125
Barium	80.1	F1	50.4	164.6	F1	mg/Kg	☼	168	75 - 125
Beryllium	1.17		5.04	6.372		mg/Kg	☼	103	75 - 125
Cadmium	ND		5.04	4.160		mg/Kg	☼	83	75 - 125
Chromium	21.4		50.4	76.83		mg/Kg	☼	110	75 - 125
Lead	7.35	F1	5.04	14.26	F1	mg/Kg	☼	137	75 - 125
Nickel	10.9		50.4	57.95		mg/Kg	☼	94	75 - 125
Selenium	ND		10.1	9.038		mg/Kg	☼	90	75 - 125
Silver	ND	^3+	5.04	5.086	^3+	mg/Kg	☼	101	75 - 125
Vanadium	34.9		50.4	94.67		mg/Kg	☼	119	75 - 125
Zinc	47.7		50.4	106.5		mg/Kg	☼	117	75 - 125

Lab Sample ID: 620-10117-17 MS
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		10.1	ND		mg/Kg	☼	NC	75 - 125

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	10.3	6.604	F1	mg/Kg	☼	64	75 - 125	2	30
Arsenic	7.90		51.7	56.28		mg/Kg	☼	94	75 - 125	4	30
Barium	80.1	F1	51.7	172.1	F1	mg/Kg	☼	178	75 - 125	4	30
Beryllium	1.17		5.17	6.630		mg/Kg	☼	106	75 - 125	4	30
Cadmium	ND		5.17	4.317		mg/Kg	☼	84	75 - 125	4	30
Chromium	21.4		51.7	79.27		mg/Kg	☼	112	75 - 125	3	30
Lead	7.35	F1	5.17	15.28	F1	mg/Kg	☼	153	75 - 125	7	30
Nickel	10.9		51.7	60.02		mg/Kg	☼	95	75 - 125	4	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	ND		10.3	8.715		mg/Kg	☼	84	75 - 125	4	30
Silver	ND	^3+	5.17	5.070	^3+	mg/Kg	☼	98	75 - 125	0	30
Vanadium	34.9		51.7	98.83		mg/Kg	☼	124	75 - 125	4	30
Zinc	47.7		51.7	111.0		mg/Kg	☼	123	75 - 125	4	30

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	ND		10.3	ND		mg/Kg	☼	NC	75 - 125	NC	30

Lab Sample ID: 620-10117-17 DU
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND	F1	ND		mg/Kg	☼	NC	30
Arsenic	7.90		9.021		mg/Kg	☼	13	30
Barium	80.1	F1	87.09		mg/Kg	☼	8	30
Beryllium	1.17		1.359		mg/Kg	☼	15	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	21.4		23.68		mg/Kg	☼	10	30
Lead	7.35	F1	11.60	F3	mg/Kg	☼	45	30
Nickel	10.9		12.29		mg/Kg	☼	12	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Vanadium	34.9		40.07		mg/Kg	☼	14	30
Zinc	47.7		52.59		mg/Kg	☼	10	30

Lab Sample ID: 620-10117-17 DU
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	ND		ND		mg/Kg	☼	NC	30

Lab Sample ID: MB 410-353918/1-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Arsenic	ND		3.00	1.40	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Barium	ND		0.500	0.150	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Beryllium	ND		0.500	0.100	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Cadmium	ND		0.500	0.100	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Chromium	ND		1.50	0.350	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Lead	ND		1.50	0.600	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Nickel	ND		1.00	0.260	mg/Kg		03/15/23 14:43	03/16/23 15:41	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-353918/1-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.00	1.50	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Silver	ND		1.00	0.400	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Thallium	ND		3.00	1.30	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Vanadium	ND		1.00	0.430	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Zinc	ND		2.00	0.800	mg/Kg		03/15/23 14:43	03/16/23 15:41	1

Lab Sample ID: LCS 410-353918/2-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.15		mg/Kg		101	80 - 120
Arsenic	50.0	48.41		mg/Kg		97	80 - 120
Barium	50.0	49.24		mg/Kg		98	80 - 120
Beryllium	5.00	4.832		mg/Kg		97	80 - 120
Cadmium	5.00	5.023		mg/Kg		100	80 - 120
Chromium	50.0	50.35		mg/Kg		101	80 - 120
Lead	5.00	4.082		mg/Kg		82	80 - 120
Nickel	50.0	50.61		mg/Kg		101	80 - 120
Selenium	10.0	10.06		mg/Kg		101	80 - 120
Silver	5.00	4.697		mg/Kg		94	80 - 120
Thallium	10.0	10.57		mg/Kg		106	80 - 120
Vanadium	50.0	49.39		mg/Kg		99	80 - 120
Zinc	50.0	47.49		mg/Kg		95	80 - 120

Lab Sample ID: 620-10117-41 MS
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		10.4	8.882		mg/Kg	☼	85	75 - 125
Arsenic	2.32	J	52.1	50.55		mg/Kg	☼	93	75 - 125
Barium	57.0		52.1	108.4		mg/Kg	☼	99	75 - 125
Beryllium	0.267	J	5.21	5.213		mg/Kg	☼	95	75 - 125
Cadmium	ND		5.21	5.183		mg/Kg	☼	100	75 - 125
Chromium	4.50		52.1	55.35		mg/Kg	☼	98	75 - 125
Lead	26.8		5.21	26.55	4	mg/Kg	☼	-5	75 - 125
Nickel	3.30		52.1	53.26		mg/Kg	☼	96	75 - 125
Selenium	ND		10.4	8.993		mg/Kg	☼	86	75 - 125
Silver	ND		5.21	4.859		mg/Kg	☼	93	75 - 125
Thallium	ND		10.4	11.29		mg/Kg	☼	108	75 - 125
Vanadium	5.90		52.1	56.89		mg/Kg	☼	98	75 - 125
Zinc	81.0		52.1	126.4		mg/Kg	☼	87	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-41 MSD
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		10.7	9.644		mg/Kg	☼	90	75 - 125	8	30
Arsenic	2.32	J	53.6	50.68		mg/Kg	☼	90	75 - 125	0	30
Barium	57.0		53.6	106.5		mg/Kg	☼	92	75 - 125	2	30
Beryllium	0.267	J	5.36	5.298		mg/Kg	☼	94	75 - 125	2	30
Cadmium	ND		5.36	5.335		mg/Kg	☼	100	75 - 125	3	30
Chromium	4.50		53.6	57.16		mg/Kg	☼	98	75 - 125	3	30
Lead	26.8		5.36	26.21	4	mg/Kg	☼	-11	75 - 125	1	30
Nickel	3.30		53.6	54.67		mg/Kg	☼	96	75 - 125	3	30
Selenium	ND		10.7	8.745		mg/Kg	☼	82	75 - 125	3	30
Silver	ND		5.36	4.862		mg/Kg	☼	91	75 - 125	0	30
Thallium	ND		10.7	11.27		mg/Kg	☼	105	75 - 125	0	30
Vanadium	5.90		53.6	57.42		mg/Kg	☼	96	75 - 125	1	30
Zinc	81.0		53.6	127.2		mg/Kg	☼	86	75 - 125	1	30

Lab Sample ID: 620-10117-41 DU
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	2.32	J	2.281	J	mg/Kg	☼	2	30
Barium	57.0		64.16		mg/Kg	☼	12	30
Beryllium	0.267	J	0.2419	J	mg/Kg	☼	10	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	4.50		3.492		mg/Kg	☼	25	30
Lead	26.8		20.13		mg/Kg	☼	29	30
Nickel	3.30		2.696		mg/Kg	☼	20	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND		ND		mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30
Vanadium	5.90		5.333		mg/Kg	☼	10	30
Zinc	81.0		74.02		mg/Kg	☼	9	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-351012/1-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/07/23 13:21	03/08/23 10:58	1

Lab Sample ID: LCS 410-351012/2-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1096		mg/Kg		110	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.187	0.2174		mg/Kg	☼	116	75 - 125

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.179	0.2019		mg/Kg	☼	113	75 - 125	7	35

Lab Sample ID: 620-10117-18 DU
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-351182/1-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/07/23 20:58	03/08/23 11:59	1

Lab Sample ID: LCS 410-351182/2-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1124		mg/Kg		112	80 - 120

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.183	0.2167		mg/Kg	☼	118	75 - 125

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.192	0.2232		mg/Kg	☼	116	75 - 125	3	35

Lab Sample ID: 620-10117-43 DU
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-351222/1-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 00:46	03/09/23 07:20	1

Lab Sample ID: LCS 410-351222/2-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1139		mg/Kg		114	80 - 120

Lab Sample ID: 620-10117-17 MS
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	F1	0.190	0.2503	F1	mg/Kg	☼	131	75 - 125

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F1	0.190	0.2114		mg/Kg	☼	111	75 - 125	17	35

Lab Sample ID: 620-10117-17 DU
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND	F1	0.03337	J	mg/Kg	☼	NC	50

Lab Sample ID: MB 410-351223/1-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 00:50	03/09/23 08:52	1

Lab Sample ID: LCS 410-351223/2-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1132		mg/Kg		113	80 - 120

Lab Sample ID: 620-10117-14 MS
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-SB-12-0204'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.186	0.2020		mg/Kg	☼	108	75 - 125

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 620-10117-14 MSD
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-SB-12-0204'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.186	0.2076		mg/Kg	☼	111	75 - 125	3	35

Lab Sample ID: 620-10117-14 DU
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-SB-12-0204'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-353921/1-A
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/15/23 14:55	03/16/23 13:02	1

Lab Sample ID: LCS 410-353921/2-A
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1101		mg/Kg		110	80 - 120

Lab Sample ID: 620-10117-41 MS
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0411	J	0.181	0.2346		mg/Kg	☼	107	75 - 125

Lab Sample ID: 620-10117-41 MSD
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0411	J	0.184	0.2295		mg/Kg	☼	102	75 - 125	2	35

Lab Sample ID: 620-10117-41 DU
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0411	J	0.04200	J	mg/Kg	☼	2	50

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10117-1 DU
Matrix: Solid
Analysis Batch: 20297

Client Sample ID: 2023-MW-06-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.6		9.4		%		2	5
Percent Solids	90.4		90.6		%		0.2	5

Lab Sample ID: 620-10117-6 DU
Matrix: Solid
Analysis Batch: 20297

Client Sample ID: 2023-MW-06-1012'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	19.8		20.9	F3	%		6	5
Percent Solids	80.2		79.1		%		1	5

Lab Sample ID: 620-10117-7 DU
Matrix: Solid
Analysis Batch: 20298

Client Sample ID: 2023-SB-08-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.6		12.0	F3	%		33	5
Percent Solids	91.4		88.0		%		4	5

Lab Sample ID: 620-10117-8 DU
Matrix: Solid
Analysis Batch: 20298

Client Sample ID: 2023-SB-08-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	3.3		2.4	F3	%		34	5
Percent Solids	96.7		97.6		%		1	5

Lab Sample ID: 620-10117-33 DU
Matrix: Solid
Analysis Batch: 20298

Client Sample ID: 2023-SB-06-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.4		12.6	F3	%		14	5
Percent Solids	85.6		87.4		%		2	5

Lab Sample ID: 620-10117-34 DU
Matrix: Solid
Analysis Batch: 20299

Client Sample ID: 2023-SB-06-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.1		16.1	F3	%		6	5
Percent Solids	82.9		83.9		%		1	5

Lab Sample ID: 620-10117-46 DU
Matrix: Solid
Analysis Batch: 20299

Client Sample ID: 2023-SB-05-1012'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.7		15.9		%		1	5
Percent Solids	84.3		84.1		%		0.3	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC/MS VOA

Pre Prep Batch: 20275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-11 - RA	2023-SB-08-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-12 - RA	2023-SB-08-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-18 - RA	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-21 - RA	2023-SB-07-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	Frozen Preserve	

GC/MS VOA (Continued)

Pre Prep Batch: 20275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-30 - RA	2023-MW-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-31	2023-FD-06	Total/NA	Solid	Frozen Preserve	
620-10117-32	2023-FD-07	Total/NA	Solid	Frozen Preserve	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-39	Trip Blank -05	Total/NA	Solid	Frozen Preserve	
620-10117-40	Trip Blank -06	Total/NA	Solid	Frozen Preserve	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-41 - RA	2023-SB-05-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	5035	20275

GC/MS VOA (Continued)

Prep Batch: 20327 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	5035	20275
MB 620-20327/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	8260C	20327
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	8260C	20327
MB 620-20327/3-A	Method Blank	Total/NA	Solid	8260C	20327
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	8260C	20327
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20327

Prep Batch: 20360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	5035	20275
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	5035	20275
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	5035	20275
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	5035	20275
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	5035	20275
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	5035	20275
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	5035	20275
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	5035	20275
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	5035	20275
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	5035	20275
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	5035	20275
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	5035	20275
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	5035	20275
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	5035	20275
MB 620-20360/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20360/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20360/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	8260C	20360
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	8260C	20360
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	8260C	20360
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	8260C	20360
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	8260C	20360
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	8260C	20360
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	8260C	20360
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	8260C	20360
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	8260C	20360
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	8260C	20360
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	8260C	20360
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8260C	20360
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	8260C	20360
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8260C	20360
MB 620-20360/3-A	Method Blank	Total/NA	Solid	8260C	20360
LCS 620-20360/1-A	Lab Control Sample	Total/NA	Solid	8260C	20360

GC/MS VOA (Continued)

Analysis Batch: 20361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 620-20360/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20360

Analysis Batch: 20396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	8260C	20408
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	8260C	20408
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	8260C	20408
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8260C	20408
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	8260C	20408
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	8260C	20408
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	8260C	20408
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	8260C	20408
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	8260C	20408
620-10117-31	2023-FD-06	Total/NA	Solid	8260C	20408
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	8260C	20408
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8260C	20408
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	8260C	20408
MB 620-20408/3-A	Method Blank	Total/NA	Solid	8260C	20408
LCS 620-20408/1-A	Lab Control Sample	Total/NA	Solid	8260C	20408
LCSD 620-20408/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20408

Prep Batch: 20408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	5035	20275
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	5035	20275
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	5035	20275
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	5035	20275
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	5035	20275
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	5035	20275
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	5035	20275
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	5035	20275
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	5035	20275
620-10117-31	2023-FD-06	Total/NA	Solid	5035	20275
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	5035	20275
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	5035	20275
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	5035	20275
MB 620-20408/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20408/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20408/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 20432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	5035	20275
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	5035	20275
620-10117-11 - RA	2023-SB-08-0810'	Total/NA	Solid	5035	20275
620-10117-12 - RA	2023-SB-08-1012'	Total/NA	Solid	5035	20275
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	5035	20275
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	5035	20275
620-10117-21 - RA	2023-SB-07-0406'	Total/NA	Solid	5035	20275
620-10117-30 - RA	2023-MW-05-0406'	Total/NA	Solid	5035	20275
620-10117-32	2023-FD-07	Total/NA	Solid	5035	20275

GC/MS VOA (Continued)

Prep Batch: 20432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	5035	20275
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	5035	20275
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	5035	20275
620-10117-39	Trip Blank -05	Total/NA	Solid	5035	20275
620-10117-40	Trip Blank -06	Total/NA	Solid	5035	20275
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	5035	20275
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	5035	20275
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	5035	20275
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	5035	20275
MB 620-20432/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20432/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20432/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	8260C	20432
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	8260C	20432
620-10117-11 - RA	2023-SB-08-0810'	Total/NA	Solid	8260C	20432
620-10117-12 - RA	2023-SB-08-1012'	Total/NA	Solid	8260C	20432
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8260C	20432
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	8260C	20432
620-10117-21 - RA	2023-SB-07-0406'	Total/NA	Solid	8260C	20432
620-10117-30 - RA	2023-MW-05-0406'	Total/NA	Solid	8260C	20432
620-10117-32	2023-FD-07	Total/NA	Solid	8260C	20432
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	8260C	20432
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	8260C	20432
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	8260C	20432
620-10117-39	Trip Blank -05	Total/NA	Solid	8260C	20432
620-10117-40	Trip Blank -06	Total/NA	Solid	8260C	20432
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	8260C	20432
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	8260C	20432
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	8260C	20432
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	8260C	20432
MB 620-20432/3-A	Method Blank	Total/NA	Solid	8260C	20432
LCS 620-20432/1-A	Lab Control Sample	Total/NA	Solid	8260C	20432
LCSD 620-20432/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20432

Prep Batch: 20472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	5035	20275
620-10117-41 - RA	2023-SB-05-0002'	Total/NA	Solid	5035	20275
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	5035	20275
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	5035	20275
MB 620-20472/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20472/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20472/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	5035	20275
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	5035	20275
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	5035	20275
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	5035	20275

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC/MS VOA

Analysis Batch: 20473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	8260C	20472
620-10117-41 - RA	2023-SB-05-0002'	Total/NA	Solid	8260C	20472
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	8260C	20472
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	8260C	20472
MB 620-20472/3-A	Method Blank	Total/NA	Solid	8260C	20472
LCS 620-20472/1-A	Lab Control Sample	Total/NA	Solid	8260C	20472
LCSD 620-20472/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20472
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	8260C	20472
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	8260C	20472
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	8260C	20472
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	8260C	20472

Prep Batch: 20516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18 - RA	2023-SB-12-1012'	Total/NA	Solid	5035	20275
MB 620-20516/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18 - RA	2023-SB-12-1012'	Total/NA	Solid	8260C	20516
MB 620-20516/3-A	Method Blank	Total/NA	Solid	8260C	20516
LCS 620-20516/1-A	Lab Control Sample	Total/NA	Solid	8260C	20516
LCSD 620-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20516

GC/MS Semi VOA

Prep Batch: 20475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	3546	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	3546	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	3546	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	3546	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	3546	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	3546	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	3546	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	3546	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	3546	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	3546	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	3546	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	3546	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	3546	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	3546	
MB 620-20475/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20475/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20475/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20475/1-A	Method Blank	Total/NA	Solid	8270D	20475

GC/MS Semi VOA (Continued)

Analysis Batch: 20495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 620-20475/2-A	Lab Control Sample	Total/NA	Solid	8270D	20475
LCSD 620-20475/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20475

Analysis Batch: 20503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	8270D	20475
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	8270D	20475
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	8270D	20475
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	8270D	20475
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	8270D	20475
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	8270D	20475
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	8270D	20475
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	8270D	20475
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	8270D	20475
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	8270D	20475
MB 620-20520/1-A	Method Blank	Total/NA	Solid	8270D	20520
LCS 620-20520/2-A	Lab Control Sample	Total/NA	Solid	8270D	20520
LCSD 620-20520/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20520

Prep Batch: 20520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	3546	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	3546	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	3546	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	3546	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	3546	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	3546	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	3546	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	3546	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	3546	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	3546	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	3546	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	3546	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	3546	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	3546	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	3546	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	3546	
620-10117-31	2023-FD-06	Total/NA	Solid	3546	
620-10117-32	2023-FD-07	Total/NA	Solid	3546	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	3546	
MB 620-20520/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20520/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20520/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	3546	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	3546	

Prep Batch: 20546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	3546	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	3546	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 20546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	3546	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	3546	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	3546	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	3546	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	3546	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	3546	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	3546	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	3546	
MB 620-20546/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	3546	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	3546	

Analysis Batch: 20556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	8270D	20475
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	8270D	20475
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8270D	20475
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	8270D	20475
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	8270D	20520
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	8270D	20520
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	8270D	20520
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	8270D	20520
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8270D	20520
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	8270D	20520
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	8270D	20546
MB 620-20546/1-A	Method Blank	Total/NA	Solid	8270D	20546
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	8270D	20546
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20546
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	8270D	20520
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	8270D	20520
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	8270D	20546
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	8270D	20546

Analysis Batch: 20590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8270D	20475
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8270D	20520
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8270D	20520
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	8270D	20520
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	8270D	20520
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	8270D	20520
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8270D	20520
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	8270D	20520
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	8270D	20520
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	8270D	20520
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	8270D	20520
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	8270D	20520
620-10117-31	2023-FD-06	Total/NA	Solid	8270D	20520
620-10117-31	2023-FD-06	Total/NA	Solid	8270D	20520

GC/MS Semi VOA (Continued)

Analysis Batch: 20590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-32	2023-FD-07	Total/NA	Solid	8270D	20520
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8270D	20546
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	8270D	20546
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	8270D	20546
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	8270D	20546
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	8270D	20546
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	8270D	20546
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	8270D	20546
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	8270D	20546

Analysis Batch: 20626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8270D	20520
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8270D	20520
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	8270D	20520
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8270D	20546
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	8270D	20546
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	8270D	20546

GC VOA

Prep Batch: 660655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	5035A_H	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	5035A_H	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	5035A_H	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	5035A_H	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	5035A_H	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	5035A_H	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	5035A_H	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	5035A_H	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	5035A_H	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	5035A_H	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	5035A_H	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	5035A_H	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	5035A_H	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	5035A_H	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	5035A_H	
MB 480-660655/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660655/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660655/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 660658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	MAVPH	660655
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	MAVPH	660655
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	MAVPH	660655
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	MAVPH	660655
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	MAVPH	660655
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	MAVPH	660655
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	MAVPH	660655

GC VOA (Continued)

Analysis Batch: 660658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	MAVPH	660655
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	MAVPH	660655
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	MAVPH	660655
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	MAVPH	660655
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	MAVPH	660655
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	MAVPH	660655
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	MAVPH	660655
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	MAVPH	660655
MB 480-660655/1-A	Method Blank	Total/NA	Solid	MAVPH	660655
LCS 480-660655/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660655
LCSD 480-660655/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660655

Prep Batch: 660799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	5035A_H	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	5035A_H	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	5035A_H	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	5035A_H	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	5035A_H	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	5035A_H	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	5035A_H	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	5035A_H	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	5035A_H	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	5035A_H	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	5035A_H	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	5035A_H	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	5035A_H	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	5035A_H	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	5035A_H	
620-10117-31	2023-FD-06	Total/NA	Solid	5035A_H	
620-10117-32	2023-FD-07	Total/NA	Solid	5035A_H	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	5035A_H	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	5035A_H	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	5035A_H	
MB 480-660799/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660799/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660799/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	5035A_H	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	5035A_H	

Analysis Batch: 660808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	MAVPH	660799
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	MAVPH	660799
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	MAVPH	660799
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	MAVPH	660799
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	MAVPH	660799
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	MAVPH	660799
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	MAVPH	660799
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	MAVPH	660799
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	MAVPH	660799

GC VOA (Continued)

Analysis Batch: 660808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	MAVPH	660799
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	MAVPH	660799
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	MAVPH	660799
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	MAVPH	660799
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	MAVPH	660799
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	MAVPH	660799
620-10117-31	2023-FD-06	Total/NA	Solid	MAVPH	660799
620-10117-32	2023-FD-07	Total/NA	Solid	MAVPH	660799
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	MAVPH	660799
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	MAVPH	660799
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	MAVPH	660799
MB 480-660799/1-A	Method Blank	Total/NA	Solid	MAVPH	660799
LCS 480-660799/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660799
LCSD 480-660799/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660799
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	MAVPH	660799
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	MAVPH	660799

Analysis Batch: 660809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	MA VPH SUM	

Prep Batch: 660942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	5035A_H	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	5035A_H	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	5035A_H	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	5035A_H	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	5035A_H	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	5035A_H	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	5035A_H	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	5035A_H	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	5035A_H	
MB 480-660942/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	5035A_H	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	5035A_H	

GC VOA

Analysis Batch: 660951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	MAVPH	660942
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	MAVPH	660942
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	MAVPH	660942
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	MAVPH	660942
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	MAVPH	660942
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	MAVPH	660942
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	MAVPH	660942
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	MAVPH	660942
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	MAVPH	660942
MB 480-660942/1-A	Method Blank	Total/NA	Solid	MAVPH	660942
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660942
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660942
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	MAVPH	660942
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	MAVPH	660942

Analysis Batch: 660967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-31	2023-FD-06	Total/NA	Solid	MA VPH SUM	
620-10117-32	2023-FD-07	Total/NA	Solid	MA VPH SUM	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	MA VPH SUM	

Analysis Batch: 661299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	MA VPH SUM	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC Semi VOA

Prep Batch: 20414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	3540C	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	3540C	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	3540C	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	3540C	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	3540C	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	3540C	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	3540C	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	3540C	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	3540C	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	3540C	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	3540C	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	3540C	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	3540C	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	3540C	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	3540C	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	3540C	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	3540C	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	3540C	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	3540C	
MB 620-20414/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20414/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20414/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	3540C	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	3540C	

Prep Batch: 20415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	3540C	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	3540C	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	3540C	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	3540C	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	3540C	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	3540C	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	3540C	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	3540C	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	3540C	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	3540C	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	3540C	
620-10117-31	2023-FD-06	Total/NA	Solid	3540C	
620-10117-32	2023-FD-07	Total/NA	Solid	3540C	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	3540C	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	3540C	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	3540C	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	3540C	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	3540C	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	3540C	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	3540C	
MB 620-20415/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20415/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20415/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC Semi VOA

Prep Batch: 20416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	3540C	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	3540C	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	3540C	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	3540C	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	3540C	
MB 620-20416/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	8082	20414
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	8082	20414
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	8082	20414
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	8082	20414
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	8082	20414
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	8082	20414
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	8082	20414
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	8082	20414
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	8082	20414
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	8082	20414
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	8082	20414
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	8082	20414
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	8082	20414
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	8082	20414
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	8082	20414
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	8082	20414
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	8082	20414
MB 620-20414/1-A	Method Blank	Total/NA	Solid	8082	20414
LCS 620-20414/2-A	Lab Control Sample	Total/NA	Solid	8082	20414
LCSD 620-20414/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20414
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	8082	20414
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	8082	20414

Analysis Batch: 20438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	8082	20415
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	8082	20415
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	8082	20415
620-10117-32	2023-FD-07	Total/NA	Solid	8082	20415
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	8082	20415
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	8082	20415
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	8082	20416
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	8082	20416
MB 620-20415/1-A	Method Blank	Total/NA	Solid	8082	20415
MB 620-20416/1-A	Method Blank	Total/NA	Solid	8082	20416
LCS 620-20415/2-A	Lab Control Sample	Total/NA	Solid	8082	20415
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	8082	20416
LCSD 620-20415/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20415
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20416

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC Semi VOA

Analysis Batch: 20476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8082	20415
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	8082	20415
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	8082	20415
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	8082	20415
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	8082	20415
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	8082	20415
620-10117-31	2023-FD-06	Total/NA	Solid	8082	20415
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	8082	20415
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8082	20415
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	8082	20415
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	8082	20415
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	8082	20416
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	8082	20416
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	8082	20416

Analysis Batch: 20477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8082	20414
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8082	20414

Analysis Batch: 20507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8082	20415
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	8082	20415
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	8082	20415

Prep Batch: 20535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20535/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20535/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20535/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	3540C	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	3540C	

Analysis Batch: 20557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20535/1-A	Method Blank	Total/NA	Solid	8082	20535
LCS 620-20535/2-A	Lab Control Sample	Total/NA	Solid	8082	20535
LCSD 620-20535/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20535
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	8082	20535
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	8082	20535

LCMS

Prep Batch: 351126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	537 (mod)	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	537 (mod)	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	537 (mod)	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	537 (mod)	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 351126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	537 (mod)	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	537 (mod)	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	537 (mod)	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	537 (mod)	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	537 (mod)	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	537 (mod)	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	537 (mod)	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	537 (mod)	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	537 (mod)	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	537 (mod)	
620-10117-31	2023-FD-06	Total/NA	Solid	537 (mod)	
620-10117-32	2023-FD-07	Total/NA	Solid	537 (mod)	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	537 (mod)	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	537 (mod)	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	537 (mod)	
MB 410-351126/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-351126/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	537 (mod)	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 351199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	Extract Aliquot	351126
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	Extract Aliquot	351126
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	Extract Aliquot	351126
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	Extract Aliquot	351126
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	Extract Aliquot	351126
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	Extract Aliquot	351126
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	Extract Aliquot	351126
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	Extract Aliquot	351126
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	Extract Aliquot	351126
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	Extract Aliquot	351126
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	Extract Aliquot	351126
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	Extract Aliquot	351126
620-10117-31	2023-FD-06	Total/NA	Solid	Extract Aliquot	351126
620-10117-32	2023-FD-07	Total/NA	Solid	Extract Aliquot	351126
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	Extract Aliquot	351126
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	Extract Aliquot	351126
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	Extract Aliquot	351126
MB 410-351126/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351126
LCS 410-351126/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351126
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	Extract Aliquot	351126

Prep Batch: 351204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	537 (mod)	
MB 410-351204/1-B	Method Blank	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 351204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-351204/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	537 (mod)	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	537 (mod)	

Prep Batch: 351205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	537 (mod)	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	537 (mod)	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	537 (mod)	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	537 (mod)	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	537 (mod)	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	537 (mod)	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	537 (mod)	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	537 (mod)	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	537 (mod)	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	537 (mod)	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	537 (mod)	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	537 (mod)	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	537 (mod)	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	537 (mod)	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	537 (mod)	
MB 410-351205/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 351217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	Extract Aliquot	351205
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	Extract Aliquot	351205
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	Extract Aliquot	351205
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	Extract Aliquot	351205
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	Extract Aliquot	351205
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	Extract Aliquot	351205
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	Extract Aliquot	351205
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	Extract Aliquot	351205
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	Extract Aliquot	351205
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	Extract Aliquot	351205
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	Extract Aliquot	351205
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	Extract Aliquot	351205
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	Extract Aliquot	351205
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	Extract Aliquot	351205
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	Extract Aliquot	351205
MB 410-351205/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351205
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351205

Cleanup Batch: 351218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	Extract Aliquot	351204
MB 410-351204/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351204
LCS 410-351204/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351204
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	Extract Aliquot	351204
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	Extract Aliquot	351204

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Analysis Batch: 353839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-31	2023-FD-06	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-32	2023-FD-07	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	EPA 537 (Mod)	351199
MB 410-351126/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351199
MB 410-351205/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351217
LCS 410-351126/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351199
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	EPA 537 (Mod)	351199

Prep Batch: 355124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	537 (mod)	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	537 (mod)	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	537 (mod)	
MB 410-355124/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-355124/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-44 MS	2023-SB-05-0608'	Total/NA	Solid	537 (mod)	
620-10117-44 MSD	2023-SB-05-0608'	Total/NA	Solid	537 (mod)	

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Prep Batch: 355125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	537 (mod)	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	537 (mod)	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	537 (mod)	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	537 (mod)	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	537 (mod)	
MB 410-355125/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-36 MS	2023-SB-06-0608'	Total/NA	Solid	537 (mod)	
620-10117-36 MSD	2023-SB-06-0608'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 355128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	Extract Aliquot	355125
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	Extract Aliquot	355125
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	Extract Aliquot	355125
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	Extract Aliquot	355125
MB 410-355125/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	355125
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	355125
620-10117-36 MS	2023-SB-06-0608'	Total/NA	Solid	Extract Aliquot	355125
620-10117-36 MSD	2023-SB-06-0608'	Total/NA	Solid	Extract Aliquot	355125

Cleanup Batch: 355130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	Extract Aliquot	355124
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	Extract Aliquot	355124
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	Extract Aliquot	355124
MB 410-355124/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	355124
LCS 410-355124/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	355124
620-10117-44 MS	2023-SB-05-0608'	Total/NA	Solid	Extract Aliquot	355124
620-10117-44 MSD	2023-SB-05-0608'	Total/NA	Solid	Extract Aliquot	355124

Analysis Batch: 355348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	EPA 537 (Mod)	355130
MB 410-355124/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	355130
LCS 410-355124/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-44 MS	2023-SB-05-0608'	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-44 MSD	2023-SB-05-0608'	Total/NA	Solid	EPA 537 (Mod)	355130

Analysis Batch: 355432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
MB 410-355125/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	355128
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	355128

LCMS (Continued)

Analysis Batch: 355432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36 MS	2023-SB-06-0608'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-36 MSD	2023-SB-06-0608'	Total/NA	Solid	EPA 537 (Mod)	355128

Analysis Batch: 355773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351218
MB 410-351204/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351218
LCS 410-351204/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351218
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351218
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351218

Metals

Prep Batch: 350840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	3050B	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	3050B	
MB 410-350840/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	3050B	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	3050B	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	3050B	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	3050B	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	3050B	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	3050B	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	3050B	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	3050B	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	3050B	
620-10117-31	2023-FD-06	Total/NA	Solid	3050B	
620-10117-32	2023-FD-07	Total/NA	Solid	3050B	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	3050B	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	3050B	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	3050B	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	3050B	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	3050B	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	3050B	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	3050B	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	3050B	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	3050B	
MB 410-351011/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351011/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	3050B	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	3050B	
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	3050B	

Prep Batch: 351012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	7471A	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	7471A	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	7471A	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	7471A	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	7471A	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	7471A	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	7471A	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	7471A	
620-10117-31	2023-FD-06	Total/NA	Solid	7471A	
620-10117-32	2023-FD-07	Total/NA	Solid	7471A	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	7471A	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	7471A	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	7471A	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	7471A	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	7471A	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	7471A	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	7471A	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	7471A	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	7471A	
MB 410-351012/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351012/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	7471A	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	7471A	
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	7471A	

Prep Batch: 351165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	3050B	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	3050B	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	3050B	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	3050B	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	3050B	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	3050B	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	3050B	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	3050B	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	3050B	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	3050B	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	3050B	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	3050B	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	3050B	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	3050B	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	3050B	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	3050B	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	3050B	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	3050B	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	3050B	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	3050B	
MB 410-351165/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351165/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	3050B	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 351165 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	3050B	

Prep Batch: 351182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	7471A	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	7471A	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	7471A	
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	7471A	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	7471A	
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	7471A	

Prep Batch: 351221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	3050B	
MB 410-351221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	3050B	
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	3050B	
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	3050B	

Prep Batch: 351222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	7471A	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	7471A	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	7471A	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	7471A	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	7471A	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	7471A	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	7471A	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	7471A	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	7471A	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	7471A	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	7471A	
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	7471A	
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	7471A	
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	7471A	

Prep Batch: 351223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	7471A	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	7471A	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	7471A	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	7471A	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	7471A	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	7471A	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	7471A	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	7471A	
MB 410-351223/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351223/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-14 MS	2023-SB-12-0204'	Total/NA	Solid	7471A	
620-10117-14 MSD	2023-SB-12-0204'	Total/NA	Solid	7471A	
620-10117-14 DU	2023-SB-12-0204'	Total/NA	Solid	7471A	

Analysis Batch: 351485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	7471B	351182
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	7471B	351012
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	7471B	351182
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	7471B	351012
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	7471B	351012
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	7471B	351012
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	7471B	351012
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	7471B	351012
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	7471B	351012
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	7471B	351012
620-10117-31	2023-FD-06	Total/NA	Solid	7471B	351012
620-10117-32	2023-FD-07	Total/NA	Solid	7471B	351012
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	7471B	351012
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	7471B	351012
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	7471B	351012
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	7471B	351012
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	7471B	351012
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	7471B	351012
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	7471B	351182
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	7471B	351012
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	7471B	351012
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	7471B	351012
MB 410-351012/1-A	Method Blank	Total/NA	Solid	7471B	351012
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471B	351182
LCS 410-351012/2-A	Lab Control Sample	Total/NA	Solid	7471B	351012
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471B	351182
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	7471B	351182
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	7471B	351182
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	7471B	351182

Analysis Batch: 351666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	6010D	350840
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	6010D	350840
MB 410-350840/1-A	Method Blank	Total/NA	Solid	6010D	350840
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	6010D	350840

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Metals

Analysis Batch: 351811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	7471B	351222
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	7471B	351222
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	7471B	351222
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	7471B	351222
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	7471B	351222
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	7471B	351222
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	7471B	351222
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	7471B	351222
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	7471B	351222
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	7471B	351222
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471B	351222
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471B	351222

Analysis Batch: 351911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	6010D	351165
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	6010D	351165
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	6010D	351165
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	6010D	351165
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	6010D	351165
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	6010D	351165
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	6010D	351011
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	6010D	351165
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	6010D	351165
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	6010D	351011
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	6010D	351165
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	6010D	351165
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	6010D	351165
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	6010D	351165
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	6010D	351165
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	6010D	351165
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	6010D	351165
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	6010D	351165
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	6010D	351165
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	6010D	351165
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	6010D	351165
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	6010D	351011
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	6010D	351011
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	6010D	351011
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	6010D	351011
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	6010D	351011
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	6010D	351011
620-10117-31	2023-FD-06	Total/NA	Solid	6010D	351011
620-10117-32	2023-FD-07	Total/NA	Solid	6010D	351011
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	6010D	351011
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	6010D	351011
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	6010D	351011
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	6010D	351011
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	6010D	351011
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	6010D	351011

Metals (Continued)

Analysis Batch: 351911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	6010D	351165
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	6010D	351011
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	6010D	351011
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	6010D	351011
MB 410-351011/1-A	Method Blank	Total/NA	Solid	6010D	351011
MB 410-351165/1-A	Method Blank	Total/NA	Solid	6010D	351165
LCS 410-351011/2-A	Lab Control Sample	Total/NA	Solid	6010D	351011
LCS 410-351165/2-A	Lab Control Sample	Total/NA	Solid	6010D	351165
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	6010D	351165
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	6010D	351165
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	6010D	351165

Analysis Batch: 352229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	7471B	351223
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	7471B	351223
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	7471B	351223
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	7471B	351223
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	7471B	351223
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	7471B	351223
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	7471B	351223
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	7471B	351223
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	7471B	351223
MB 410-351223/1-A	Method Blank	Total/NA	Solid	7471B	351223
LCS 410-351223/2-A	Lab Control Sample	Total/NA	Solid	7471B	351223
620-10117-14 MS	2023-SB-12-0204'	Total/NA	Solid	7471B	351223
620-10117-14 MSD	2023-SB-12-0204'	Total/NA	Solid	7471B	351223
620-10117-14 DU	2023-SB-12-0204'	Total/NA	Solid	7471B	351223

Analysis Batch: 352284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	6010D	351165
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	6010D	351011
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	6010D	351011
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	6010D	351011
MB 410-351221/1-A	Method Blank	Total/NA	Solid	6010D	351221
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	6010D	351221
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	6010D	351221

Metals

Analysis Batch: 352388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	7471B	351222
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	7471B	351222
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	7471B	351222
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	7471B	351222

Prep Batch: 353918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	3050B	
MB 410-353918/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-353918/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	3050B	
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	3050B	
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	3050B	

Prep Batch: 353921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	7471A	
MB 410-353921/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-353921/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	7471A	
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	7471A	
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	7471A	

Analysis Batch: 354389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	7471B	353921
MB 410-353921/1-A	Method Blank	Total/NA	Solid	7471B	353921
LCS 410-353921/2-A	Lab Control Sample	Total/NA	Solid	7471B	353921
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	7471B	353921
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	7471B	353921
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	7471B	353921

Analysis Batch: 354484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	6010D	353918
MB 410-353918/1-A	Method Blank	Total/NA	Solid	6010D	353918
LCS 410-353918/2-A	Lab Control Sample	Total/NA	Solid	6010D	353918
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	6010D	353918
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	6010D	353918
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	6010D	353918

General Chemistry

Analysis Batch: 20297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	Moisture	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	Moisture	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	Moisture	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	Moisture	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	Moisture	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1 DU	2023-MW-06-0002'	Total/NA	Solid	Moisture	
620-10117-6 DU	2023-MW-06-1012'	Total/NA	Solid	Moisture	

Analysis Batch: 20298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	Moisture	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	Moisture	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	Moisture	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	Moisture	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	Moisture	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	Moisture	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	Moisture	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	Moisture	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	Moisture	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	Moisture	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	Moisture	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	Moisture	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	Moisture	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	Moisture	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	Moisture	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	Moisture	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	Moisture	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	Moisture	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	Moisture	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	Moisture	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	Moisture	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	Moisture	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	Moisture	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	Moisture	
620-10117-31	2023-FD-06	Total/NA	Solid	Moisture	
620-10117-32	2023-FD-07	Total/NA	Solid	Moisture	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	Moisture	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	Moisture	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	Moisture	
620-10117-7 DU	2023-SB-08-0002'	Total/NA	Solid	Moisture	
620-10117-8 DU	2023-SB-08-0204'	Total/NA	Solid	Moisture	
620-10117-33 DU	2023-SB-06-0002'	Total/NA	Solid	Moisture	

Analysis Batch: 20299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	Moisture	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	Moisture	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	Moisture	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	Moisture	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	Moisture	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	Moisture	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	Moisture	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	Moisture	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	Moisture	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	Moisture	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	Moisture	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	Moisture	
620-10117-34 DU	2023-SB-06-0204'	Total/NA	Solid	Moisture	
620-10117-46 DU	2023-SB-05-1012'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0002' Lab Sample ID: 620-10117-1
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0002' Lab Sample ID: 620-10117-1
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 21:48
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 18:59
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 15:54
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 01:53
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 22:57
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:18
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:13

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 22:13
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 19:27
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 16:34

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2

Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 02:11
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:19
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:21
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:16

Client Sample ID: 2023-MW-06-0406' Lab Sample ID: 620-10117-3

Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0406' Lab Sample ID: 620-10117-3

Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 16:55
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 18:30
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 17:13
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 02:30
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:31
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:27
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:08

Client Sample ID: 2023-MW-06-0608' Lab Sample ID: 620-10117-4

Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0608' Lab Sample ID: 620-10117-4

Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 17:20
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 19:56
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 17:52
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 02:49
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:42
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:12
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:27

Client Sample ID: 2023-MW-06-0810' Lab Sample ID: 620-10117-5

Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0810' Lab Sample ID: 620-10117-5

Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 17:45
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 20:24
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 18:32

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0810' Lab Sample ID: 620-10117-5

Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 03:08
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:53
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:05
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 07:35
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:21

Client Sample ID: 2023-MW-06-1012' Lab Sample ID: 620-10117-6

Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-1012' Lab Sample ID: 620-10117-6

Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 18:12
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 20:52
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 19:11
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 03:26
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:04
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:20
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0002' Lab Sample ID: 620-10117-7
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0002' Lab Sample ID: 620-10117-7
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 14:31
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 01:18
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 19:51
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 03:45
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:15
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:07
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 09:14
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:55

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 19:03
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 21:49

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8

Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 20:30
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 04:04
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:26
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:17
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:19

Client Sample ID: 2023-SB-08-0406' Lab Sample ID: 620-10117-9

Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0406' Lab Sample ID: 620-10117-9

Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 14:58
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 22:17
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 21:09
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 04:23
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:37
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:04
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:58

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0608' Lab Sample ID: 620-10117-10
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0608' Lab Sample ID: 620-10117-10
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 19:55
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 22:45
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 21:49
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 04:41
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:48
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:17
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:00

Client Sample ID: 2023-SB-08-0810' Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0810' Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 20:21
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 15:24

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0810'

Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 20:37
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 23:07
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 05:50
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:59
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:03
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:51

Client Sample ID: 2023-SB-08-1012'

Lab Sample ID: 620-10117-12
Date Collected: 03/02/23 15:35
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-1012'

Lab Sample ID: 620-10117-12
Date Collected: 03/02/23 15:35
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 20:47
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 15:49
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 21:20
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 23:47
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 06:08
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:21
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:24

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-1012' — Lab Sample ID: 620-10117-12

Date Collected: 03/02/23 15:35 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:02

Client Sample ID: 2023-SB-12-0002' — Lab Sample ID: 620-10117-13

Date Collected: 03/03/23 09:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-0002' — Lab Sample ID: 620-10117-13

Date Collected: 03/03/23 09:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 16:15
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 21:05
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		10	20590	JS	EET NE	03/16/23 17:31
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/08/23 00:26
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		500	20477	SFL	EET NE	03/13/23 15:31
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:32
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:42
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:09

Client Sample ID: 2023-SB-12-0204' — Lab Sample ID: 620-10117-14

Date Collected: 03/03/23 09:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0204' Lab Sample ID: 620-10117-14

Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 21:39
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 23:25
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/08/23 01:05
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 18:30
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:43
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:39
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:56

Client Sample ID: 2023-SB-12-0406' Lab Sample ID: 620-10117-15

Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-0406' Lab Sample ID: 620-10117-15

Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 22:05
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 23:53
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/08/23 01:45
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 18:48
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:55
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:30

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0406'

Lab Sample ID: 620-10117-15
Date Collected: 03/03/23 09:10
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:20

Client Sample ID: 2023-SB-12-0608'

Lab Sample ID: 620-10117-16
Date Collected: 03/03/23 09:15
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-0608'

Lab Sample ID: 620-10117-16
Date Collected: 03/03/23 09:15
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 16:41
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 00:22
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 12:10
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 19:07
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 02:39
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:15
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:18

Client Sample ID: 2023-SB-12-0810'

Lab Sample ID: 620-10117-17
Date Collected: 03/03/23 09:20
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0810' Lab Sample ID: 620-10117-17

Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 22:56
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 00:50
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 12:49
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 19:26
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 02:50
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 02:48
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 03:22
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 09:53

Client Sample ID: 2023-SB-12-1012' Lab Sample ID: 620-10117-18

Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-1012' Lab Sample ID: 620-10117-18

Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 14:36
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C	RA	1	20518	CLR	EET NE	03/14/23 13:50
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 21:33
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 10:12
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 19:44

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-1012' — Lab Sample ID: 620-10117-18

Date Collected: 03/03/23 09:25 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 03:01
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:40
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:02

Client Sample ID: 2023-SB-07-0002' — Lab Sample ID: 620-10117-19

Date Collected: 03/03/23 09:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0002' — Lab Sample ID: 620-10117-19

Date Collected: 03/03/23 09:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 88.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 23:21
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 01:47
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		5	20590	JS	EET NE	03/16/23 17:59
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 13:29
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		5	20477	SFL	EET NE	03/13/23 15:13
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 03:34
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:59
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:54

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0204' Lab Sample ID: 620-10117-20
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0204' Lab Sample ID: 620-10117-20
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 23:47
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 22:58
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 14:08
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 05:58
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 03:56
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:36
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:14

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/09/23 00:12
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 17:07

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0406' — Lab Sample ID: 620-10117-21

Date Collected: 03/03/23 10:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 16:06
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		10	20626	JS	EET NE	03/17/23 18:05
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 15:27
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		20	20476	SFL	EET NE	03/13/23 15:07
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:07
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:33
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:12

Client Sample ID: 2023-SB-07-0608' — Lab Sample ID: 620-10117-22

Date Collected: 03/03/23 10:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0608' — Lab Sample ID: 620-10117-22

Date Collected: 03/03/23 10:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 16:33
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 12:15
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 16:06
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		2	20476	SFL	EET NE	03/13/23 15:24
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:19
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:55
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:52

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0810' Lab Sample ID: 620-10117-23

Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0810' Lab Sample ID: 620-10117-23

Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 16:59
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 12:44
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 16:45
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 11:02
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:30
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:02
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:11

Client Sample ID: 2023-SB-07-1012' Lab Sample ID: 620-10117-24

Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-1012' Lab Sample ID: 620-10117-24

Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 17:24
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 13:13
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 17:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-1012' Lab Sample ID: 620-10117-24

Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 21:09
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:41
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:09
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:25

Client Sample ID: 2023-MW-05-0002' Lab Sample ID: 620-10117-25

Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0002' Lab Sample ID: 620-10117-25

Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 17:49
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 17:03
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		4	20626	JS	EET NE	03/17/23 18:33
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 18:04
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		50	20507	SFL	EET NE	03/14/23 12:23
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:52
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:12
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 08:20
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:12

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0204' Lab Sample ID: 620-10117-26
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0204' Lab Sample ID: 620-10117-26
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 18:14
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 16:34
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 18:43
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		2	20507	SFL	EET NE	03/14/23 12:40
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:03
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:15
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 08:23
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:14

Client Sample ID: 2023-MW-05-0608' Lab Sample ID: 620-10117-27
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0608' Lab Sample ID: 620-10117-27
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 18:39
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 14:10

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0608'

Lab Sample ID: 620-10117-27
Date Collected: 03/03/23 10:50
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 19:23
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 22:01
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:14
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:38
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:32

Client Sample ID: 2023-MW-05-0810'

Lab Sample ID: 620-10117-28
Date Collected: 03/03/23 10:55
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0810'

Lab Sample ID: 620-10117-28
Date Collected: 03/03/23 10:55
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 19:04
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 14:39
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 20:02
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 11:19
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:25
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:32
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:28

Client Sample ID: 2023-MW-05-1012' — Lab Sample ID: 620-10117-29

Date Collected: 03/03/23 11:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-1012' — Lab Sample ID: 620-10117-29

Date Collected: 03/03/23 11:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 19:29
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 15:08
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 20:41
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 22:18
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:36
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:00
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:49

Client Sample ID: 2023-MW-05-0406' — Lab Sample ID: 620-10117-30

Date Collected: 03/03/23 11:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0406' — Lab Sample ID: 620-10117-30

Date Collected: 03/03/23 11:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 80.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 19:54
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 17:33

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'

Lab Sample ID: 620-10117-30

Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 15:37
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 21:21
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/14/23 04:14
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:58
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:54
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:41

Client Sample ID: 2023-FD-06

Lab Sample ID: 620-10117-31

Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-FD-06

Lab Sample ID: 620-10117-31

Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 20:19
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 11:47
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		4	20590	JS	EET NE	03/16/23 18:28
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 22:39
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		20	20476	SFL	EET NE	03/13/23 15:42
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:09
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:22
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:22

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-07 — Lab Sample ID: 620-10117-32

Date Collected: 03/03/23 08:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-FD-07 — Lab Sample ID: 620-10117-32

Date Collected: 03/03/23 08:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 17:59
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 13:42
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 23:19
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 11:54
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:20
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:35
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:30

Client Sample ID: 2023-SB-06-0002' — Lab Sample ID: 620-10117-33

Date Collected: 03/03/23 11:35 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-06-0002' — Lab Sample ID: 620-10117-33

Date Collected: 03/03/23 11:35 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 21:09
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 17:37
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 23:58

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-0002' Lab Sample ID: 620-10117-33

Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		50	20476	SFL	EET NE	03/13/23 15:59
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:32
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:48
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:36

Client Sample ID: 2023-SB-06-0204' Lab Sample ID: 620-10117-34

Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0204' Lab Sample ID: 620-10117-34

Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 21:35
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 18:56
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		10	20626	JS	EET NE	03/17/23 19:01
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/09/23 00:37
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		50	20476	SFL	EET NE	03/13/23 16:16
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:43
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:44
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:34

Client Sample ID: 2023-SB-06-0406' — Lab Sample ID: 620-10117-35

Date Collected: 03/03/23 11:45 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0406' — Lab Sample ID: 620-10117-35

Date Collected: 03/03/23 11:45 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 22:01
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 19:24
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/09/23 01:16
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/14/23 04:31
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:54
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:19
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:16

Client Sample ID: 2023-SB-06-0608' — Lab Sample ID: 620-10117-36

Date Collected: 03/03/23 11:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0608' — Lab Sample ID: 620-10117-36

Date Collected: 03/03/23 11:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 18:25
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 19:52
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 12:19

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'

Lab Sample ID: 620-10117-36
Date Collected: 03/03/23 11:50
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 12:46
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 06:54
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:51
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:39

Client Sample ID: 2023-SB-06-0810'

Lab Sample ID: 620-10117-37
Date Collected: 03/03/23 11:55
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0810'

Lab Sample ID: 620-10117-37
Date Collected: 03/03/23 11:55
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 18:51
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 20:20
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 12:59
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/14/23 04:48
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 07:27
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:57
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:47

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-1012' Lab Sample ID: 620-10117-38

Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-1012' Lab Sample ID: 620-10117-38

Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 19:18
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 20:49
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 13:38
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 13:03
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 07:38
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:20
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:50

Client Sample ID: Trip Blank -05 Lab Sample ID: 620-10117-39

Date Collected: 03/03/23 00:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 13:14

Client Sample ID: Trip Blank -06 Lab Sample ID: 620-10117-40

Date Collected: 03/03/23 00:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 13:40

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-05-0002' — Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0002' — Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 88.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 19:44
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C	RA	1	20473	CLR	EET NE	03/13/23 13:43
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 17:08
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 14:17
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		5	20507	SFL	EET NE	03/14/23 12:58
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 07:50
Total/NA	Prep	3050B			353918	UAMX	ELLE	03/15/23 14:43
Total/NA	Analysis	6010D		1	354484	T8CQ	ELLE	03/16/23 15:48
Total/NA	Prep	7471A			353921	UAMX	ELLE	03/15/23 14:55
Total/NA	Analysis	7471B		1	354389	UEFS	ELLE	03/16/23 13:06

Client Sample ID: 2023-SB-05-0204' — Lab Sample ID: 620-10117-42

Date Collected: 03/03/23 13:15 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0204' — Lab Sample ID: 620-10117-42

Date Collected: 03/03/23 13:15 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 65.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 20:10

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'

Lab Sample ID: 620-10117-42
Date Collected: 03/03/23 13:15
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 65.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 21:17
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 15:36
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 18:16
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 08:01
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:13
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:53

Client Sample ID: 2023-SB-05-0406'

Lab Sample ID: 620-10117-43
Date Collected: 03/03/23 13:20
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0406'

Lab Sample ID: 620-10117-43
Date Collected: 03/03/23 13:20
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 15:02
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 19:11
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 10:21
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 06:50
Total/NA	Prep	537 (mod)			351204	X5YV	ELLE	03/07/23 22:50
Total/NA	Cleanup	Extract Aliquot			351218	X5YV	ELLE	03/08/23 00:20
Total/NA	Analysis	EPA 537 (Mod)		1	355773	PY4D	ELLE	03/22/23 11:46
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 05:45
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:03

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-05-0608' Lab Sample ID: 620-10117-44
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0608' Lab Sample ID: 620-10117-44
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 20:36
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 21:45
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 16:16
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 19:08
Total/NA	Prep	537 (mod)			355124	X5YV	ELLE	03/19/23 19:30
Total/NA	Cleanup	Extract Aliquot			355130	X5YV	ELLE	03/20/23 01:17
Total/NA	Analysis	EPA 537 (Mod)		1	355348	DTA4	ELLE	03/21/23 10:18
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:59
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:10

Client Sample ID: 2023-SB-05-0810' Lab Sample ID: 620-10117-45
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0810' Lab Sample ID: 620-10117-45
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 14:10
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 22:14
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 16:55

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-05-0810' Lab Sample ID: 620-10117-45

Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 07:07
Total/NA	Prep	537 (mod)			355124	X5YV	ELLE	03/19/23 19:30
Total/NA	Cleanup	Extract Aliquot			355130	X5YV	ELLE	03/20/23 01:17
Total/NA	Analysis	EPA 537 (Mod)		1	355348	DTA4	ELLE	03/21/23 10:52
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:28
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:26

Client Sample ID: 2023-SB-05-1012' Lab Sample ID: 620-10117-46

Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-1012' Lab Sample ID: 620-10117-46

Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 21:27
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 16:39
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 17:34
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 19:26
Total/NA	Prep	537 (mod)			355124	X5YV	ELLE	03/19/23 19:30
Total/NA	Cleanup	Extract Aliquot			355130	X5YV	ELLE	03/20/23 01:17
Total/NA	Analysis	EPA 537 (Mod)		1	355348	DTA4	ELLE	03/21/23 11:03
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:25
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:24

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10117-1	2023-MW-06-0002'	Solid	03/02/23 14:15	03/03/23 16:09
620-10117-2	2023-MW-06-0204'	Solid	03/02/23 14:20	03/03/23 16:09
620-10117-3	2023-MW-06-0406'	Solid	03/02/23 14:25	03/03/23 16:09
620-10117-4	2023-MW-06-0608'	Solid	03/02/23 14:30	03/03/23 16:09
620-10117-5	2023-MW-06-0810'	Solid	03/02/23 14:35	03/03/23 16:09
620-10117-6	2023-MW-06-1012'	Solid	03/02/23 14:40	03/03/23 16:09
620-10117-7	2023-SB-08-0002'	Solid	03/02/23 15:10	03/03/23 16:09
620-10117-8	2023-SB-08-0204'	Solid	03/02/23 15:15	03/03/23 16:09
620-10117-9	2023-SB-08-0406'	Solid	03/02/23 15:20	03/03/23 16:09
620-10117-10	2023-SB-08-0608'	Solid	03/02/23 15:25	03/03/23 16:09
620-10117-11	2023-SB-08-0810'	Solid	03/02/23 15:30	03/03/23 16:09
620-10117-12	2023-SB-08-1012'	Solid	03/02/23 15:35	03/03/23 16:09
620-10117-13	2023-SB-12-0002'	Solid	03/03/23 09:00	03/03/23 16:09
620-10117-14	2023-SB-12-0204'	Solid	03/03/23 09:05	03/03/23 16:09
620-10117-15	2023-SB-12-0406'	Solid	03/03/23 09:10	03/03/23 16:09
620-10117-16	2023-SB-12-0608'	Solid	03/03/23 09:15	03/03/23 16:09
620-10117-17	2023-SB-12-0810'	Solid	03/03/23 09:20	03/03/23 16:09
620-10117-18	2023-SB-12-1012'	Solid	03/03/23 09:25	03/03/23 16:09
620-10117-19	2023-SB-07-0002'	Solid	03/03/23 09:50	03/03/23 16:09
620-10117-20	2023-SB-07-0204'	Solid	03/03/23 09:55	03/03/23 16:09
620-10117-21	2023-SB-07-0406'	Solid	03/03/23 10:00	03/03/23 16:09
620-10117-22	2023-SB-07-0608'	Solid	03/03/23 10:05	03/03/23 16:09
620-10117-23	2023-SB-07-0810'	Solid	03/03/23 10:10	03/03/23 16:09
620-10117-24	2023-SB-07-1012'	Solid	03/03/23 10:15	03/03/23 16:09
620-10117-25	2023-MW-05-0002'	Solid	03/03/23 10:40	03/03/23 16:09
620-10117-26	2023-MW-05-0204'	Solid	03/03/23 10:45	03/03/23 16:09
620-10117-27	2023-MW-05-0608'	Solid	03/03/23 10:50	03/03/23 16:09
620-10117-28	2023-MW-05-0810'	Solid	03/03/23 10:55	03/03/23 16:09
620-10117-29	2023-MW-05-1012'	Solid	03/03/23 11:00	03/03/23 16:09
620-10117-30	2023-MW-05-0406'	Solid	03/03/23 11:05	03/03/23 16:09
620-10117-31	2023-FD-06	Solid	03/03/23 08:00	03/03/23 16:09
620-10117-32	2023-FD-07	Solid	03/03/23 08:05	03/03/23 16:09
620-10117-33	2023-SB-06-0002'	Solid	03/03/23 11:35	03/03/23 16:09
620-10117-34	2023-SB-06-0204'	Solid	03/03/23 11:40	03/03/23 16:09
620-10117-35	2023-SB-06-0406'	Solid	03/03/23 11:45	03/03/23 16:09
620-10117-36	2023-SB-06-0608'	Solid	03/03/23 11:50	03/03/23 16:09
620-10117-37	2023-SB-06-0810'	Solid	03/03/23 11:55	03/03/23 16:09
620-10117-38	2023-SB-06-1012'	Solid	03/03/23 12:00	03/03/23 16:09
620-10117-39	Trip Blank -05	Solid	03/03/23 00:00	03/03/23 16:09
620-10117-40	Trip Blank -06	Solid	03/03/23 00:00	03/03/23 16:09
620-10117-41	2023-SB-05-0002'	Solid	03/03/23 13:10	03/03/23 16:09
620-10117-42	2023-SB-05-0204'	Solid	03/03/23 13:15	03/03/23 16:09
620-10117-43	2023-SB-05-0406'	Solid	03/03/23 13:20	03/03/23 16:09
620-10117-44	2023-SB-05-0608'	Solid	03/03/23 13:25	03/03/23 16:09
620-10117-45	2023-SB-05-0810'	Solid	03/03/23 13:30	03/03/23 16:09
620-10117-46	2023-SB-05-1012'	Solid	03/03/23 13:35	03/03/23 16:09

620-10117 Chain of Custody

Chain of Custody Record

eurofins | Environment Testing

Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 10
Phone:	E-Mail:	State of Origin:	Page: Page 10 of 17

Bridget Fortier

Company: Nobis Engineering Inc. | PWSID:

Address: 585 Middlesex Street | Due Date Requested:

City: Lowell | TAT Requested (days): Standard

State, Zip: MA, 01851 | Compliance Project: Δ Yes Δ No

Phone: 978-399-9657 | PO #: 500001 007

Email: bfortier@nobis-group.com | WO #:

Project Name: American Tissue Mill | Project #:

Site: Templeton, MA | SSOW#:

Job #:

Analysis Requested

Preservation Codes.

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							B		F					
01	2023 - MW-06 - 0002'	3/2/23	14:15	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023 - MW-06 - 0204'		14:20		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023 - MW-06 - 0406'		14:25		Solid			✓	✓	✓	✓	✓	✓	7	
04	2023 - MW-06 - 0608'		14:30		Solid			✓	✓	✓	✓	✓	✓	7	
05	2023 - MW-06 - 0810'		14:35		Solid			✓	✓	✓	✓	✓	✓	7	
06	2023 - MW-06 - 1012'		14:40		Solid			✓	✓	✓	✓	✓	✓	7	
07	2023 - SB-08 - 0002'		15:10		Solid			✓	✓	✓	✓	✓	✓	7	
08	2023 - SB-08 - 0204'		15:15		Solid			✓	✓	✓	✓	✓	✓	7	
09	2023 - SB-08 - 0406'		15:20		Solid			✓	✓	✓	✓	✓	✓	7	
10	2023 - SB-08 - 0608'		15:25		Solid			✓	✓	✓	✓	✓	✓	7	
11	2023 - SB-08 - 0810'	↓	15:30	↓	Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmigratne@nobis-group.com

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
2	[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.4 +0.2 2.6 #C

Ver: 06/08/2021

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.11
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 11 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
12	2023-SB-08-1012'	3/2/23	15:35	G	Solid			✓	✓	✓	✓	✓	✓	7	
13	2023-SB-12-0002'	3/3/23	09:00		Solid			✓	✓	✓	✓	✓	✓	7	
14	2023-SB-12-0204'		09:05		Solid			✓	✓	✓	✓	✓	✓	7	
15	2023-SB-12-0406'		09:10		Solid			✓	✓	✓	✓	✓	✓	7	
16	2023-SB-12-0608'		09:15		Solid			✓	✓	✓	✓	✓	✓	7	
17	2023-SB-12-0810'		09:20		Solid			✓	✓	✓	✓	✓	✓	7	
18	2023-SB-12-1012'		09:25		Solid		Y	✓	✓	✓	✓	✓	✓	21	
19	2023-SB-07-0002'		09:50		Solid			✓	✓	✓	✓	✓	✓	7	
20	2023-SB-07-0204'		09:55		Solid			✓	✓	✓	✓	✓	✓	7	
21	2023-SB-07-0406'		10:00		Solid			✓	✓	✓	✓	✓	✓	7	
22	2023-SB-07-0608'		10:05		Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 14:00	ENE		3/3/23 14:00	ENE
2		3/3/23 16:09	ENE		3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.1 1 6 #6

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

10 of 17

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM	Carrier Tracking No(s):	COC No: 620-8842-1096 12
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 12 of 17
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested		Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH Mass DEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537								Total Number of containers	Special Instructions/Note:
	Preservation Code:					X	X														X	
23	2023-SB-07-0810'	3/3/23	10:10	G	Solid			✓	✓	✓	✓	✓	✓									
24	2023-SB-07-1012'		10:15		Solid			✓	✓	✓	✓	✓	✓									
25	2023-MW-05-0002'		10:40		Solid			✓	✓	✓	✓	✓	✓									
26	2023-MW-05-0204'		10:45		Solid			✓	✓	✓	✓	✓	✓									
27	2023-MW-05-0608'		10:50		Solid			✓	✓	✓	✓	✓	✓									
28	2023-MW-05-0810'		10:55		Solid			✓	✓	✓	✓	✓	✓									
29	2023-MW-05-1012'		11:00		Solid			✓	✓	✓	✓	✓	✓									
30	2023-MW-05-0406'		11:05		Solid			✓	✓	✓	✓	✓	✓									
31	2023-FD-06		08:00		Solid			✓	✓	✓	✓	✓	✓									
32	2023-FD-07		08:05		Solid			✓	✓	✓	✓	✓	✓									
33	2023-SB-06-0002'	↓	11:35	↓	Solid			✓	✓	✓	✓	✓	✓									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
2	[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 2.6 #6

Ver: 06/08/2021

3/23/2023

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(104)

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone. 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 13
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 13 of 17
Company: Nobis Engineering Inc.	PWSID:	Analysis Requested		Job #:
Address: 585 Middlesex Street	Due Date Requested:			Preservation Codes. A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA; M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify); Other:
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9657	PO #: S00001.002			
Email: bfortier@nobis-group com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537									Total Number of containers	Special Instructions/Note:
				Preservation Code:				FJ		F													
34	2023-SB-06-0204'	3/3/23	11:40	G	Solid			✓	✓	✓	✓	✓	✓									7	
35	2023-SB-06-0406'		11:45		Solid			✓	✓	✓	✓	✓	✓									7	
36	2023-SB-06-0608'		11:50		Solid			✓	✓	✓	✓	✓	✓									7	
37	2023-SB-06-0810'		11:55		Solid			✓	✓	✓	✓	✓	✓									7	
38	2023-SB-06-1012'		12.00		Solid			✓	✓	✓	✓	✓	✓									7	
39	TRIP BLANK-05		—		Solid			✓	✓	✓	✓	✓	✓	BF								3	
40	TRIP BLANK-06				Solid			✓	✓	✓	✓	✓	✓									3	
41	2023-SB-05-0002'		13:10		Solid			✓	✓	✓	✓	✓	✓									7	
42	2023-SB-05-0204'		13:15		Solid			✓	✓	✓	✓	✓	✓									7	
43	2023-SB-05-0406'		13:20		Solid		Y	✓	✓	✓	✓	✓	✓									21	
44	2023-SB-05-0608'	↓	13:25	↓	Solid			✓	✓	✓	✓	✓	✓									7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): Equis EDD

Special Instructions/QC Requirements. email to: dmcgrath@nobis-group com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3/3/23 14:00			3/3/23 14:00	ENE
2		3/3/23 16:09	ENE		3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 0.2 2.6 #6

Ver: 06/08/2021

3/23/2023

Page 537 of 554

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 14
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 14 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Stnd			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001602			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
U5 2023-SB-05-0810'	3/3/23	13:30	G	Solid			✓	✓	✓	✓	✓	✓	5	
U6 2023-SB-05-7012'	↓	13:35	G	Solid			✓	✓	✓	✓	✓	✓	7	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify): EQuIS Edd

Special Instructions/QC Requirements: dmcrath@nobis-group.com

Empty Kit Relinquished by: | Date: | Time | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 1.6 FS

Ver: 06/08/2021

3/23/2023

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Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-06-0002' (620-10117-1)	3/2/23	14:15 Eastern		Solid			X	X	X	2	
2023-MW-06-0204' (620-10117-2)	3/2/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-06-0406' (620-10117-3)	3/2/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-06-0608' (620-10117-4)	3/2/23	14:30 Eastern		Solid			X	X	X	2	
2023-MW-06-0810' (620-10117-5)	3/2/23	14:35 Eastern		Solid			X	X	X	2	
2023-MW-06-1012' (620-10117-6)	3/2/23	14:40 Eastern		Solid			X	X	X	2	
2023-SB-08-0002' (620-10117-7)	3/2/23	15:10 Eastern		Solid			X	X	X	2	
2023-SB-08-0204' (620-10117-8)	3/2/23	15:15 Eastern		Solid			X	X	X	2	
2023-SB-08-0406' (620-10117-9)	3/2/23	15:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 17:55	FWE	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	3/4/23 10:10	CLIENT

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 - 1.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-08-0608' (620-10117-10)	3/2/23	15:25 Eastern		Solid			X	X	X	2	
2023-SB-08-0810' (620-10117-11)	3/2/23	15:30 Eastern		Solid			X	X	X	2	
2023-SB-08-1012' (620-10117-12)	3/2/23	15:35 Eastern		Solid			X	X	X	2	
2023-SB-12-0002' (620-10117-13)	3/3/23	09:00 Eastern		Solid			X	X	X	2	
2023-SB-12-0204' (620-10117-14)	3/3/23	09:05 Eastern		Solid			X	X	X	2	
2023-SB-12-0406' (620-10117-15)	3/3/23	09:10 Eastern		Solid			X	X	X	2	
2023-SB-12-0608' (620-10117-16)	3/3/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-12-0810' (620-10117-17)	3/3/23	09:20 Eastern		Solid			X	X	X	2	
2023-SB-12-1012' (620-10117-18)	3/3/23	09:25 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 3/3/23 17:37	Company ENE	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/4/23 10:10	Company EUET

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4-1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-12-1012' (620-10117-18MS)	3/3/23	09:25 Eastern	MS	Solid			X	X	X	2	
2023-SB-12-1012' (620-10117-18MSD)	3/3/23	09:25 Eastern	MSD	Solid			X	X	X	2	
2023-SB-07-0002' (620-10117-19)	3/3/23	09:50 Eastern		Solid			X	X	X	2	
2023-SB-07-0204' (620-10117-20)	3/3/23	09:55 Eastern		Solid			X	X	X	2	
2023-SB-07-0406' (620-10117-21)	3/3/23	10:00 Eastern		Solid			X	X	X	2	
2023-SB-07-0608' (620-10117-22)	3/3/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-07-0810' (620-10117-23)	3/3/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-07-1012' (620-10117-24)	3/3/23	10:15 Eastern		Solid			X	X	X	2	
2023-MW-05-0002' (620-10117-25)	3/3/23	10:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/4/23 12:53	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ENET

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
✗ Yes Δ No		0.4 - 1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-05-0204' (620-10117-26)	3/3/23	10:45 Eastern		Solid			X	X	X	2	
2023-MW-05-0608' (620-10117-27)	3/3/23	10:50 Eastern		Solid			X	X	X	2	
2023-MW-05-0810' (620-10117-28)	3/3/23	10:55 Eastern		Solid			X	X	X	2	
2023-MW-05-1012' (620-10117-29)	3/3/23	11:00 Eastern		Solid			X	X	X	2	
2023-MW-05-0406' (620-10117-30)	3/3/23	11:05 Eastern		Solid			X	X	X	2	
2023-FD-06 (620-10117-31)	3/3/23	08:00 Eastern		Solid			X	X	X	2	
2023-FD-07 (620-10117-32)	3/3/23	08:05 Eastern		Solid			X	X	X	2	
2023-SB-06-0002' (620-10117-33)	3/3/23	11:35 Eastern		Solid			X	X	X	2	
2023-SB-06-0204' (620-10117-34)	3/3/23	11:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/3/23 12:33	ECC	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ELFT

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
✗ Yes Δ No		0.4 - 1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-06-0406' (620-10117-35)	3/3/23	11:45 Eastern		Solid			X	X	X	2	
2023-SB-06-0608' (620-10117-36)	3/3/23	11:50 Eastern		Solid			X	X	X	2	
2023-SB-06-0810' (620-10117-37)	3/3/23	11:55 Eastern		Solid			X	X	X	2	
2023-SB-06-1012' (620-10117-38)	3/3/23	12:00 Eastern		Solid			X	X	X	2	
2023-SB-05-0002' (620-10117-41)	3/3/23	13:10 Eastern		Solid			X	X	X	2	
2023-SB-05-0204' (620-10117-42)	3/3/23	13:15 Eastern		Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43)	3/3/23	13:20 Eastern		Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43MS)	3/3/23	13:20 Eastern	MS	Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43MSD)	3/3/23	13:20 Eastern	MSD	Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/3/23 17:33	ENE	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ET

Custody Seals Intact: ✗ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.4 - 1.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 6 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-05-0608' (620-10117-44)	3/3/23	13:25 Eastern		Solid			X	X	X	2	
2023-SB-05-0810' (620-10117-45)	3/3/23	13:30 Eastern		Solid			X	X	X	2	
2023-SB-05-1012' (620-10117-46)	3/3/23	13:35 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 1733	ET			
2						
3					3/4/23 10:10	ELET

Custody Seals Intact: ☒ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 - 1.3

Ver: 06/08/2021

SR

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-06-0002' (620-10117-1)	3/2/23	14:15 Eastern		Solid			X	X	1	
2023-MW-06-0204' (620-10117-2)	3/2/23	14:20 Eastern		Solid			X	X	1	
2023-MW-06-0406' (620-10117-3)	3/2/23	14:25 Eastern		Solid			X	X	1	
2023-MW-06-0608' (620-10117-4)	3/2/23	14:30 Eastern		Solid			X	X	1	
2023-MW-06-0810' (620-10117-5)	3/2/23	14:35 Eastern		Solid			X	X	1	
2023-MW-06-1012' (620-10117-6)	3/2/23	14:40 Eastern		Solid			X	X	1	
2023-SB-08-0002' (620-10117-7)	3/2/23	15:10 Eastern		Solid			X	X	1	
2023-SB-08-0204' (620-10117-8)	3/2/23	15:15 Eastern		Solid			X	X	1	
2023-SB-08-0406' (620-10117-9)	3/2/23	15:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/3/23 17:30	EUG	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					3-4-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.1 + ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-08-0608' (620-10117-10)	3/2/23	15:25 Eastern		Solid			X	X	1	
2023-SB-08-0810' (620-10117-11)	3/2/23	15:30 Eastern		Solid			X	X	1	
2023-SB-08-1012' (620-10117-12)	3/2/23	15:35 Eastern		Solid			X	X	1	
2023-SB-12-0002' (620-10117-13)	3/3/23	09:00 Eastern		Solid			X	X	1	
2023-SB-12-0204' (620-10117-14)	3/3/23	09:05 Eastern		Solid			X	X	1	
2023-SB-12-0406' (620-10117-15)	3/3/23	09:10 Eastern		Solid			X	X	1	
2023-SB-12-0608' (620-10117-16)	3/3/23	09:15 Eastern		Solid			X	X	1	
2023-SB-12-0810' (620-10117-17)	3/3/23	09:20 Eastern		Solid			X	X	1	
2023-SB-12-1012' (620-10117-18)	3/3/23	09:25 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/3/23 12:30	ENE	[signature]		
2				[signature]		
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-12-1012' (620-10117-18MS)	3/3/23	09:25 Eastern	MS	Solid			X	X	1	
2023-SB-12-1012' (620-10117-18MSD)	3/3/23	09:25 Eastern	MSD	Solid			X	X	1	
2023-SB-07-0002' (620-10117-19)	3/3/23	09:50 Eastern		Solid			X	X	1	
2023-SB-07-0204' (620-10117-20)	3/3/23	09:55 Eastern		Solid			X	X	1	
2023-SB-07-0406' (620-10117-21)	3/3/23	10:00 Eastern		Solid			X	X	1	
2023-SB-07-0608' (620-10117-22)	3/3/23	10:05 Eastern		Solid			X	X	1	
2023-SB-07-0810' (620-10117-23)	3/3/23	10:10 Eastern		Solid			X	X	1	
2023-SB-07-1012' (620-10117-24)	3/3/23	10:15 Eastern		Solid			X	X	1	
2023-MW-05-0002' (620-10117-25)	3/3/23	10:40 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	3/3/23 12:30	ENE	[signature]		
	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-05-0204' (620-10117-26)	3/3/23	10:45 Eastern		Solid			X	X	1	
2023-MW-05-0810' (620-10117-28)	3/3/23	10:55 Eastern		Solid			X	X	1	
2023-MW-05-0406' (620-10117-30)	3/3/23	11:05 Eastern		Solid			X	X	1	
2023-FD-06 (620-10117-31)	3/3/23	08:00 Eastern		Solid			X	X	1	
2023-FD-07 (620-10117-32)	3/3/23	08:05 Eastern		Solid			X	X	1	
2023-SB-06-0002' (620-10117-33)	3/3/23	11:35 Eastern		Solid			X	X	1	
2023-SB-06-0204' (620-10117-34)	3/3/23	11:40 Eastern		Solid			X	X	1	
2023-SB-06-0406' (620-10117-35)	3/3/23	11:45 Eastern		Solid			X	X	1	
2023-SB-06-0608' (620-10117-36)	3/3/23	11:50 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 12:30	EVE			
2	Relinquished by:	Date/Time:	Company	Received by: see pg	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-06-0810' (620-10117-37)	3/3/23	11:55 Eastern		Solid			X	X	1	
2023-SB-06-1012' (620-10117-38)	3/3/23	12:00 Eastern		Solid			X	X	1	
2023-SB-05-0002' (620-10117-41)	3/3/23	13:10 Eastern		Solid			X	X	1	
2023-SB-05-0204' (620-10117-42)	3/3/23	13:15 Eastern		Solid			X	X	1	
2023-SB-05-0406' (620-10117-43)	3/3/23	13:20 Eastern		Solid			X	X	1	
2023-SB-05-0406' (620-10117-43MS)	3/3/23	13:20 Eastern	MS	Solid			X	X	1	
2023-SB-05-0406' (620-10117-43MSD)	3/3/23	13:20 Eastern	MSD	Solid			X	X	1	
2023-SB-05-0608' (620-10117-44)	3/3/23	13:25 Eastern		Solid			X	X	1	
2023-SB-05-0810' (620-10117-45)	3/3/23	13:30 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/23/23 17:30	EWG	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			See pg 1		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 6 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-05-1012' (620-10117-46)	3/3/23	13:35 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/3/23 17:30	EWG	FedEx		
			See pg 1		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8523.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-05-0608' (620-10117-27)	3/3/23	10:50 Eastern		Solid			X	X	1	
2023-MW-05-1012' (620-10117-29)	3/3/23	11:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 17:30	EAE			
2	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10117-1

Login Number: 10117
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10117-1

Login Number: 10117
List Number: 3
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/06/23 10:20 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10117-1

Login Number: 10117
List Number: 2
Creator: Roth, Stephanie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/04/23 12:39 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

March 6, 2024
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620141381
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic Data Review

Polychlorinated Biphenyls (PCBs) by Massachusetts Contingency Plan (MCP) Compendium of Analytical Methods (CAM) Method 8082:

53/Soil Samples: ATM-PCB-1-0003, ATM-PCB-2-0003, ATM-PCB-3-0003, ATM-PCB-4-0003, ATM-PCB-5-0003, ATM-PCB-6-0003, ATM-PCB-7-0003, ATM-PCB-8-0003, ATM-PCB-9-0003, ATM-PCB-10-0003, ATM-PCB-11-0003, ATM-PCB-12-0003, ATM-PCB-13-0003, FD-01-092523, ATM-PCB-14-0003, ATM-PCB-15-0003, ATM-PCB-16-0003, ATM-PCB-17-0003, ATM-PCB-18-0003, ATM-PCB-19-0003, ATM-PCB-20-0003, ATM-PCB-21-0003, ATM-PCB-22-0003, ATM-PCB-23-0003, ATM-PCB-24-0003, ATM-PCB-25-0003, ATM-PCB-26-0003, ATM-PCB-27-0003, ATM-PCB-28-0003, ATM-PCB-29-0003, ATM-PCB-30-0003, FD-02-092523, ATM-PCB-31-0003, ATM-PCB-32-0003, ATM-PCB-33-0003, ATM-PCB-34-0003, ATM-PCB-35-0003, ATM-PCB-36-0003, ATM-PCB-50-0003, ATM-PCB-37-0003, ATM-PCB-38-0003, ATM-PCB-49-0003, ATM-PCB-39-0003, ATM-PCB-40-0003, ATM-PCB-41-0003, ATM-PCB-42-0003, ATM-PCB-43-0003, FD-03-092623, ATM-PCB-44-0003, ATM-PCB-45-0003, ATM-PCB-46-0003, ATM-PCB-47-0003, ATM-PCB-48-0003
3/Field Duplicate Pairs: ATM-PCB-12-0003 / FD-01-092523, ATM-PCB-30-0003 / FD-02-092523, ATM-PCB-43-0003 / FD-03-092623

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on September 25 and September 26, 2023. The samples were analyzed for Polychlorinated Biphenyls by MCP CAM Method 8082 by Eurofins New England in North Kingstown, RI.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); the Program Quality Assurance Project Plan (Program QAPP), dated

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Preservation and Technical Holding Times
*	• Blanks
*	• Surrogates
NA	• Internal Standards
*	• Matrix Spike Analysis
NA	• Laboratory Duplicates
*	• Laboratory Control Samples (LCS)
	• Field Duplicates
NA	• Performance Evaluation (PE) Samples
*	• Target Analyte Identification
	• Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Reporting limits for non-detect PCB results exceeded the site project action level (PAL) of 1 mg/kg in 6 samples due to required sample dilutions.

The data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

PCBs:
Aroclor 1254 results were qualified due to field duplicate imprecision.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Gary Glennon
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-1	620-14138-10	620-14138-11	620-14138-12	620-14138-13
Field Sample ID		ATM-PCB-1-0003	ATM-PCB-10-0003	ATM-PCB-11-0003	ATM-PCB-12-0003	ATM-PCB-13-0003
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/25/23	09/25/23	09/25/23	09/25/23	09/25/23
Aroclor 1016	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor 1221	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor 1232	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor 1242	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor 1248	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor 1254	mg/kg	0.213 J	33.2 J	2.91 J	0.76 J	7.65 J
Aroclor 1260	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor 1262	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor 1268	mg/kg	0.0252 U	1.08 U	0.119 U	0.0239 U	0.237 U
Aroclor, Total	mg/kg	0.213	33.2	2.91	0.76	7.65

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-14	620-14138-15	620-14138-16	620-14138-17	620-14138-18
Field Sample ID		FD-01-092523	ATM-PCB-14-0003	ATM-PCB-15-0003	ATM-PCB-16-0003	ATM-PCB-17-0003
Sample Type		FD	N	N	N	N
Parent Sample ID		ATM-PCB-12-0003				
Sample Date	**Units**	09/25/23	09/25/23	09/25/23	09/25/23	09/25/23
Aroclor 1016	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor 1221	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor 1232	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor 1242	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor 1248	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor 1254	mg/kg	1.69 J	11.9 J	9.39 J	8.47 J	11 J
Aroclor 1260	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor 1262	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor 1268	mg/kg	0.0473 U	1.19 U	0.468 U	0.229 U	0.457 U
Aroclor, Total	mg/kg	1.69	11.9	9.39	8.47	11

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-19	620-14138-2	620-14138-20	620-14138-21	620-14138-22
Field Sample ID		ATM-PCB-18-0003	ATM-PCB-2-0003	ATM-PCB-19-0003	ATM-PCB-20-0003	ATM-PCB-21-0003
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/25/23	09/25/23	09/25/23	09/25/23	09/25/23
Aroclor 1016	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor 1221	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor 1232	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor 1242	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor 1248	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor 1254	mg/kg	13.2 J	0.323 J	0.237 J	5.13 J	4.17 J
Aroclor 1260	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor 1262	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor 1268	mg/kg	0.44 U	0.026 U	0.022 U	0.218 U	0.192 U
Aroclor, Total	mg/kg	13.2	0.323	0.237	5.13	4.17

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-23	620-14138-24	620-14138-25	620-14138-26	620-14138-27
Field Sample ID		ATM-PCB-22-0003	ATM-PCB-23-0003	ATM-PCB-24-0003	ATM-PCB-25-0003	ATM-PCB-26-0003
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/25/23	09/25/23	09/25/23	09/25/23	09/25/23
Aroclor 1016	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor 1221	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor 1232	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor 1242	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor 1248	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor 1254	mg/kg	0.714 J	14.6 J	93.6 J	18.5 J	0.0707 J
Aroclor 1260	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor 1262	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor 1268	mg/kg	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U
Aroclor, Total	mg/kg	0.714	14.6	93.6	18.5	0.0707

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-28	620-14138-29	620-14138-3	620-14138-30	620-14138-31
Field Sample ID		ATM-PCB-27-0003	ATM-PCB-28-0003	ATM-PCB-3-0003	ATM-PCB-29-0003	ATM-PCB-30-0003
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/25/23	09/25/23	09/25/23	09/25/23	09/25/23
Aroclor 1016	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor 1221	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor 1232	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor 1242	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor 1248	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor 1254	mg/kg	0.121 J	1.27 J	30.5 J	1.5 J	35.6 J
Aroclor 1260	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor 1262	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor 1268	mg/kg	0.0193 U	0.227 U	1.02 U	0.209 U	2.11 U
Aroclor, Total	mg/kg	0.121	1.27	30.5	1.5	35.6

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-32	620-14138-33	620-14138-34	620-14138-35	620-14138-36
Field Sample ID		FD-02-092523	ATM-PCB-31-0003	ATM-PCB-32-0003	ATM-PCB-33-0003	ATM-PCB-34-0003
Sample Type		FD	N	N	N	N
Parent Sample ID		ATM-PCB-30-0003				
Sample Date	**Units**	09/25/23	09/25/23	09/25/23	09/26/23	09/26/23
Aroclor 1016	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor 1221	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor 1232	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor 1242	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor 1248	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor 1254	mg/kg	13.2 J	0.222 J	0.0958 J	0.393 J	12.1 J
Aroclor 1260	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor 1262	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor 1268	mg/kg	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U
Aroclor, Total	mg/kg	13.2	0.222	0.0958	0.393	12.1

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-37	620-14138-38	620-14138-39	620-14138-4	620-14138-40
Field Sample ID		ATM-PCB-35-0003	ATM-PCB-36-0003	ATM-PCB-50-0003	ATM-PCB-4-0003	ATM-PCB-37-0003
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/26/23	09/26/23	09/26/23	09/25/23	09/26/23
Aroclor 1016	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor 1221	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor 1232	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor 1242	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor 1248	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor 1254	mg/kg	4.19 J	20.4 J	0.907 J	0.395 J	2.59 J
Aroclor 1260	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor 1262	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor 1268	mg/kg	0.2 U	0.923 U	0.215 U	0.0229 U	0.202 U
Aroclor, Total	mg/kg	4.19	20.4	0.907	0.395	2.59

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-41	620-14138-42	620-14138-43	620-14138-44	620-14138-45
Field Sample ID		ATM-PCB-38-0003	ATM-PCB-49-0003	ATM-PCB-39-0003	ATM-PCB-40-0003	ATM-PCB-41-0003
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/26/23	09/26/23	09/26/23	09/26/23	09/26/23
Aroclor 1016	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor 1221	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor 1232	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor 1242	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor 1248	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor 1254	mg/kg	0.246 J	4.54 J	2.17 J	0.316 J	0.965 J
Aroclor 1260	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor 1262	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor 1268	mg/kg	0.215 U	0.22 U	0.204 U	0.197 U	0.201 U
Aroclor, Total	mg/kg	0.246	4.54	2.17	0.316	0.965

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-46	620-14138-47	620-14138-48	620-14138-49	620-14138-5
Field Sample ID		ATM-PCB-42-0003	ATM-PCB-43-0003	FD-03-092623	ATM-PCB-44-0003	ATM-PCB-5-0003
Sample Type		N	N	FD	N	N
Parent Sample ID				ATM-PCB-43-0003		
Sample Date	**Units**	09/26/23	09/26/23	09/26/23	09/26/23	09/25/23
Aroclor 1016	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor 1221	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor 1232	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor 1242	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor 1248	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor 1254	mg/kg	0.314 J	0.185 J	0.253	0.924 J	7.2 J
Aroclor 1260	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor 1262	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor 1268	mg/kg	0.208 U	0.197 U	0.205 U	0.2 U	0.222 U
Aroclor, Total	mg/kg	0.314	0.185 J	0.253	0.924	7.2

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-14138-50	620-14138-51	620-14138-52	620-14138-53	620-14138-6
Field Sample ID		ATM-PCB-45-0003	ATM-PCB-46-0003	ATM-PCB-47-0003	ATM-PCB-48-0003	ATM-PCB-6-0003
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/26/23	09/26/23	09/26/23	09/26/23	09/25/23
Aroclor 1016	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor 1221	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor 1232	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor 1242	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor 1248	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor 1254	mg/kg	1.09 J	1.1 J	0.219 J	0.0616 J	0.155 J
Aroclor 1260	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor 1262	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor 1268	mg/kg	0.185 U	0.199 U	0.205 U	0.0211 U	0.023 U
Aroclor, Total	mg/kg	1.09	1.1	0.219	0.0616	0.155

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil		
Lab Sample ID		620-14138-7	620-14138-8	620-14138-9
Field Sample ID		ATM-PCB-7-0003	ATM-PCB-8-0003	ATM-PCB-9-0003
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	09/25/23	09/25/23	09/25/23
Aroclor 1016	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor 1221	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor 1232	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor 1242	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor 1248	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor 1254	mg/kg	2.62 J	0.968 J	11.5 J
Aroclor 1260	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor 1262	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor 1268	mg/kg	0.471 U	0.0233 U	0.472 U
Aroclor, Total	mg/kg	2.62	0.968	11.5

Data Review Qualification Actions
Site: American Tissue Mill
SDG: 620141381

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PCBs					
	Aroclor 1254	All soil samples except ATM-PCB-43-0003 and FD-03-092623	Field duplicate precision	J	

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02

Date: 02/14/2024

Methods: Polychlorinated Biphenyls (PCBs) by Massachusetts Contingency Plan (MCP) Compendium of Analytical Methods (CAM) Method 8082

Laboratory: Eurofins New England, North Kingstown, RI
Case: N/A
SDG: 620141381
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Fifty-three (53) soil samples, including three field duplicate samples, were listed on the COC for SDG 620141381. The samples were collected on 09/25/2023 and 09/26/2023 and received at the laboratory on 09/26/2023 at a maximum temperature of 3.4 °C.

Sample ID	Laboratory ID	Analyses
ATM-PCB-1-0003	620-14138-1	PCBs
ATM-PCB-2-0003	620-14138-2	PCBs
ATM-PCB-3-0003	620-14138-3	PCBs
ATM-PCB-4-0003	620-14138-4	PCBs
ATM-PCB-5-0003	620-14138-5	PCBs
ATM-PCB-6-0003	620-14138-6	PCBs
ATM-PCB-7-0003	620-14138-7	PCBs
ATM-PCB-8-0003	620-14138-8	PCBs
ATM-PCB-9-0003	620-14138-9	PCBs
ATM-PCB-10-0003	620-14138-10	PCBs
ATM-PCB-11-0003	620-14138-11	PCBs
ATM-PCB-12-0003	620-14138-12	PCBs
ATM-PCB-13-0003	620-14138-13	PCBs
FD-01-092523	620-14138-14	PCBs
ATM-PCB-14-0003	620-14138-15	PCBs
ATM-PCB-15-0003	620-14138-16	PCBs
ATM-PCB-16-0003	620-14138-17	PCBs
ATM-PCB-17-0003	620-14138-18	PCBs
ATM-PCB-18-0003	620-14138-19	PCBs
ATM-PCB-19-0003	620-14138-20	PCBs
ATM-PCB-20-0003	620-14138-21	PCBs
ATM-PCB-21-0003	620-14138-22	PCBs
ATM-PCB-22-0003	620-14138-23	PCBs

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ATM-PCB-23-0003	620-14138-24	PCBs
ATM-PCB-24-0003	620-14138-25	PCBs
ATM-PCB-25-0003	620-14138-26	PCBs
ATM-PCB-26-0003	620-14138-27	PCBs
ATM-PCB-27-0003	620-14138-28	PCBs
ATM-PCB-28-0003	620-14138-29	PCBs
ATM-PCB-29-0003	620-14138-30	PCBs
ATM-PCB-30-0003	620-14138-31	PCBs
FD-02-092523	620-14138-32	PCBs
ATM-PCB-31-0003	620-14138-33	PCBs
ATM-PCB-32-0003	620-14138-34	PCBs
ATM-PCB-33-0003	620-14138-35	PCBs
ATM-PCB-34-0003	620-14138-36	PCBs
ATM-PCB-35-0003	620-14138-37	PCBs
ATM-PCB-36-0003	620-14138-38	PCBs
ATM-PCB-50-0003	620-14138-39	PCBs
ATM-PCB-37-0003	620-14138-40	PCBs
ATM-PCB-38-0003	620-14138-41	PCBs
ATM-PCB-49-0003	620-14138-42	PCBs
ATM-PCB-39-0003	620-14138-43	PCBs
ATM-PCB-40-0003	620-14138-44	PCBs
ATM-PCB-41-0003	620-14138-45	PCBs
ATM-PCB-42-0003	620-14138-46	PCBs
ATM-PCB-43-0003	620-14138-47	PCBs
FD-03-092623	620-14138-48	PCBs
ATM-PCB-44-0003	620-14138-49	PCBs
ATM-PCB-45-0003	620-14138-50	PCBs
ATM-PCB-46-0003	620-14138-51	PCBs
ATM-PCB-47-0003	620-14138-52	PCBs
ATM-PCB-48-0003	620-14138-53	PCBs

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) was used to perform the analysis. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte list reported by the laboratory was compared to the required analyte list per Table 2 (soil) in the QAPPA (February 2023) for the site. Results for all requested Aroclors were reported by the laboratory. MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

2. **Holding Time and Sample Preservation Compliance**

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

3. **Calibration Issues**

Not assessed for S2AVM data review.

4. **Laboratory and Field Blanks**

PCBs: Results for the PCB laboratory method blanks were non-detect. No blank actions are required.

5. **Interference Check Sample (metals only)**

Not applicable for this analysis.

6. **Surrogates**

PCBs: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-150% except for the recovery of decachlorobiphenyl (DCB) in several samples. Recoveries in the samples exceeded limits due to the presence of Aroclor 1254 in the samples interfering with the recovery of DCB. In addition, DCB and/or tetrachloro-m-xylene (TMX) were not recovered in several samples due to required sample dilutions. No actions are taken for surrogate recoveries that did not meet criteria due to interference from Aroclor 1254 detections or due to sample dilutions.

7. **Laboratory Control Samples**

PCBs: Percent recoveries of Aroclors 1016 and 1260 in the PCB LCS/LCSD pairs met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30%. No actions are required.

8. **Matrix Spikes**

PCBs: Only Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, if actions are required, they are applied as follows:

If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on the following samples:

ATM-PCB-5-0003 (620-14138-5)
ATM-PCB-35-0003 (620-14138-37)
ATM-PCB-48-0003 (620-14138-53)

Recoveries for Aroclor 1016 were within the Program QAPP limits of 40-140% in the MS and MSD analyses of parent samples ATM-PCB-5-0003 and ATM-PCB-35-0003 MS/MSD pairs. Recoveries of Aroclor 1260 exceeded the limits of 40-140% in both the MS and MSD analyses of

parent samples ATM-PCB-5-0003 and ATM-PCB-35-0003. Aroclor 1254 was detected in the unspiked parent samples for these MS/MSD pairs and the detections likely interfered with the recovery of Aroclor 1260 in the MS/MSD analyses. No action is taken. Results of the MS/MSD analyses met the RPD limit of ≤ 30% for all MS/MSD pairs.

Results of the MS/MSD analyses of parent sample ATM-PCB-48-0003 met the Program QAPP limits of 40-140% recovery and RPD ≤ 30%. No actions are required.

9. Laboratory Duplicates (metals only)

Not applicable for PCB analysis.

10. Serial Dilution (metals only)

Not applicable for PCB analysis.

11. Field Duplicate Precision

Criteria based on the EPA Region I Environmental Data Review Supplement (September 2020): RPD ≤ 50% (soils) for results ≥ 5 QL or absolute difference of ≤ 4x QL for results < 5x QL.

The following field duplicate pairs are associated with the soil samples of this SDG:

ATM-PCB-12-0003 / FD-01-092523 (620-14138-12 / 620-14138-14)
ATM-PCB-30-0003 / FD-02-092523 (620-14138-31 / 620-14138-32)
ATM-PCB-43-0003 / FD-03-092623 (620-14138-47 / 620-14138-48)

PCBs: RPDs for the Aroclor 1254 results in field duplicate pairs ATM-PCB-12-0003 / FD-01-092523 and ATM-PCB-30-0003 / FD-02-092523 exceeded 50% for results > 5x QL. Based on the EPA Region I Supplement (2020), detected Aroclor 1254 results are qualified as estimated (J) in all soil samples except ATM-PCB-43-0003 / FD-03-092623 due to exceeded field duplicate precision criteria.

Field duplicate precision criteria were met for the field duplicate pair ATM-PCB-43-0003 / FD-03-092623. No actions are required.

12. Internal Standards

Not applicable for this analysis.

13. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation are not a required deliverable for the MCP CAM for PCB analysis by GC. Therefore, dual column precision could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not indicate there were RPDs > 40% for PCB detections and no Aroclor detections were reported with a “p” notation that would indicate the RPD for the dual column results was > 40%, as defined in the laboratory report glossary. Therefore, dual column precision criteria were met and no action is required.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

RLs for non-detect PCB results met the site Project Action Level (PAL) of 1 mg/kg in all samples except for the following samples:

ATM-PCB-3-0003 (620-14138-3)	ATM-PCB-10-0003 (620-14138-10)
ATM-PCB-14-0003 (620-14138-15)	ATM-PCB-24-0003 (620-14138-25)
ATM-PCB-25-0003 (620-14138-26)	ATM-PCB-30-0003 (620-14138-31)

The non-detect RLs for these samples were > 1 mg/kg due to required sample dilutions.

16. Other

EPA Region I Supplement (2020) criterion for percent solids content for soil samples (> 30%) was met for the samples of this SDG.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620141381 PCBs

Analyte	Original Result (mg/kg)	Qual	Duplicate Result (mg/kg)	Qual	RPD ≤ 50%	Abs Diff	Comment[1]
Sample ID	**ATM-PCB-12-0003**		**FD-01-092523**				
	620-14138-12		**620-14138-14**				
Aroclor 1016	0.0239	U	0.0473	U	65.73		Ok - both ND
Aroclor 1221	0.0239	U	0.0473	U	65.73		Ok - both ND
Aroclor 1232	0.0239	U	0.0473	U	65.73		Ok - both ND
Aroclor 1242	0.0239	U	0.0473	U	65.73		Ok - both ND
Aroclor 1248	0.0239	U	0.0473	U	65.73		Ok - both ND
Aroclor 1254	0.76		1.69		75.92		**J - RPD > 50%**
Aroclor 1260	0.0239	U	0.0473	U	65.73		Ok - both ND
Aroclor 1262	0.0239	U	0.0473	U	65.73		Ok - both ND
Aroclor 1268	0.0239	U	0.0473	U	65.73		Ok - both ND

1 - Actions apply to all samples based on the EPA Region I Supplemental Guidance (2020).

DF=1 % solid = 81.9%

DF=2 % solid = 81.8%

Field Duplicate Evaluation

SDG: 620141381 PCBs

Analyte	Original Result (mg/kg)	Qual	Duplicate Result (mg/kg)	Qual	RPD ≤ 50%	Abs Diff	Comment[1]
Sample ID	**ATM-PCB-30-0003**		**FD-02-092523**				
	620-14138-31		**620-14138-32**				
Aroclor 1016	2.11	U	0.386	U	-138.14		Ok - both ND
Aroclor 1221	2.11	U	0.386	U	-138.14		Ok - both ND
Aroclor 1232	2.11	U	0.386	U	-138.14		Ok - both ND
Aroclor 1242	2.11	U	0.386	U	-138.14		Ok - both ND
Aroclor 1248	2.11	U	0.386	U	-138.14		Ok - both ND
Aroclor 1254	35.6		13.2		-91.80		**J - RPD > 50%**
Aroclor 1260	2.11	U	0.386	U	-138.14		Ok - both ND
Aroclor 1262	2.11	U	0.386	U	-138.14		Ok - both ND
Aroclor 1268	2.11	U	0.386	U	-138.14		Ok - both ND

1 - Actions apply to all samples based on the EPA Region I Supplemental Guidance (2020).

DF=100
% solid = 86.1%

DF=20
% solid = 86.7%

Field Duplicate Evaluation

SDG: 620141381 PCBs

Analyte	Original Result (mg/kg)	Qual	Duplicate Result (mg/kg)	Qual	RPD ≤ 50%	Abs Diff	Comment[1]
Sample ID	**ATM-PCB-43-0003**		**FD-03-092623**				
	620-14138-47		**620-14138-48**				
Aroclor 1016	0.197	U	0.205	U	3.98		Ok - both ND
Aroclor 1221	0.197	U	0.205	U	3.98		Ok - both ND
Aroclor 1232	0.197	U	0.205	U	3.98		Ok - both ND
Aroclor 1242	0.197	U	0.205	U	3.98		Ok - both ND
Aroclor 1248	0.197	U	0.205	U	3.98		Ok - both ND
Aroclor 1254	0.185	J	0.253		31.05	0.07	Ok - abs diff < 4x RL
Aroclor 1260	0.197	U	0.205	U	3.98		Ok - both ND
Aroclor 1262	0.197	U	0.205	U	3.98		Ok - both ND
Aroclor 1268	0.197	U	0.205	U	3.98		Ok - both ND

1 - Actions apply to all samples based on the EPA Region I Supplemental Guidance (2020).

DF=10
% solid = 93.4%

DF=10
% solid = 92.3%

14138

Chain of Custody Record

eurofins | Environment Testing

620-14138 Chain of Custody

	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:

Analysis Requested

Address: 585 Middlesex Street	Due Date Requested: 10/3/23
City: Lowell	TAT Requested (days): 5 day
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No
Phone: 774-245-3618	PO #: S00001.002/400
Email: bfortier@nobis-group.com	WO #:
Project Name: 4 Holeman Street, Templeton MA	Project #:
Site: American Tissue Mill	SSOW#:

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (Soxhlet)	Total Number of containers	Special Instructions/Note:
	Preservation Code:									
-1	ATM-PCB-1-0003	9-25-23	8:30	C	Water			X		
-2	ATM-PCB-2-0003		8:40		Water			X		
-3	ATM-PCB-3-0003		8:55		Water			X		
-4	ATM-PCB-4-0003		9:00		Water			X		
-5	ATM-PCB-5-0003		9:20		Water		X	X		This sample is MS/MSD
-6	ATM-PCB-6-0003		9:30		Water			X		
-7	ATM-PCB-7-0003		9:40		Water			X		
-8	ATM-PCB-8-0003		9:50					X		
-9	ATM-PCB-9-0003		10:00					X		
-10	ATM-PCB-10-0003		10:10					X		
-11	ATM-PCB-11-0003		10:45					X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: send results EDD to Dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	9-26-23 12:33		Received by:	9/26/23 12:34	
Relinquished by:	9/26/23 14:30		Received by:	9/26/23 14:30	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.2 -0.2 3.4 #6 1.2 -0.2 4#6

Ver: 06/08/2021

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10/3/2023

14138

Chain of Custody Record

urofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

eurofins | Environment Testing

Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: S00001 002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (SOxhlet)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
-12	ATM-PCB-12-0003	9-25-23	1050	C	S ~~Water~~			X		
-13	ATM-PCB-13-0003		1115		S ~~Water~~			X		
-14	FD-01-092523		800		S ~~Water~~			X		
-15	ATM-PCB-14-0003		1125		S ~~Water~~			X		
-16	ATM-PCB-15-0003		1135		S ~~Water~~			X		
-17	ATM-PCB-16-0003		1155		S ~~Water~~			X		
-18	ATM-PCB-17-0003		1205		S ~~Water~~			X		
-19	ATM-PCB-18-0003		1210					X		
-20	ATM-PCB-19-0003		1220					X		
-21	ATM-PCB-20-0003		1230					X		
-22	ATM-PCB-21-0003		1330					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: please send Equis EDD to dmcgrath@nobisgroup.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
[signature]	9-26-23 12:33		[signature]	9/26/23 12:34	EM
[signature]	9/26/23 14:30	EM	[signature]	9/26/23 14:30	EM

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
		3.2 to .2 3.4 #6 / 1.2 to .2 1.4 #6

Ver: 06/08/2021

10/3/2023

14138

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: 500001.002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (Soxhlet)	Total Number of containers	Special Instructions/Note:
	Preservation Code:									
-23	ATM-PCB-22-0003	9-25-23	1340	C	S Water			X		
-24	ATM-PCB-23-0003		1350		S Water			X		
-25	ATM-PCB-24-0003		1355		S Water			X		
-26	ATM-PCB-25-0003		1400		S Water			X		
-27	ATM-PCB-26-0003		1415		S Water			X		
-28	ATM-PCB-27-0003		1420		S Water			X		
-29	ATM-PCB-28-0003		1425		S Water			X		
-30	ATM-PCB-29-0003		1435					X		
-31	ATM-PCB-30-0003		1455					X		
-32	FD-02-092523		900					X		
-33	ATM-PCB-31-0003		1500					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: please send EQuIS EDD to dmgrathwohl@nobis-group.com

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-26-23 12:33			9/26/23 12:34	EM
2		9/26/23 14:30			9/26/23 14:30	EM
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.2 +0.2 1.2 PE/1.2 +0.2 1.4 PE6

Ver: 06/08/2021

14138

Chain of Custody Record

eurofins | Environment Testing

New England
Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Client Information	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: 5000001 002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue Mill	SSOW#:			

Analysis Requested

PCBs 6082 (SOXHLET)

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 6082 (SOXHLET)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
-34 ATM-PCB-32-0003	9-25-23	1510	C	S Water			X		
-35 ATM-PCB-33-0003	9-26-23	845		S Water			X		
-36 ATM-PCB-34-0003	9-26-23	850		S Water			X		
-37 ATM-PCB-35-0003	9-26-23	900		S Water		X	X		MS/MSD
-38 ATM-PCB-36-0003	9-26 23	930		S Water			X		
-39 ATM-PCB-50-0003		955		S Water			X		
-40 ATM-PCB-37-0003		940		S Water			X		
-41 ATM-PCB-38-0003		945					X		
-42 ATM-PCB-49-0003		1005					X		
-43 ATM-PCB-39-0003		1015					X		
-44 ATM-PCB-40-0003		1030					X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send PQLs EDD to dmcgrath@nobis-group.com

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-26-23 12:33			9/26/23 12:34	
2		9/26/23 14:30			9/26/23 14:30	EWG
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.2 +0.2 3.4 #6/1.2 +0.2 1.4 #5

14138

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10-3			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: S00001.002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (soxhlet)	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X		X	
-45	ATM-PCB-41-0003	9-26-23	1035	C	Water					
-46	ATM-PCB-42-0003		1040		Water					
-47	ATM-PCB-43-0003		1045		Water					
-48	FD-03-92623		830		Water					
-49	ATM-PCB-44-0003		1050		Water					
-50	ATM-PCB-45-0003		1055		Water					
-51	ATM-PCB-46-0003		1105		Water					
-52	ATM-PCB-47-0003		1110							
-53	ATM-PCB-48-0003		1115				X			MS/MSD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: equis EDD to dmcgrath@nobis-group.com

Empty Kit Relinquished by	Date	Time.	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9-26-23 12:33		[signature]	9/26/23 12:34	[illegible]
[signature]	9/26/23 14:30	[illegible]	[signature]	9/26/23 14:30	GNE

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.2 +0.2 3.4 #6 / 1.2 +0.2 1.4 #6

Ver: 06/08/2021

10/3/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 10/3/2023 10:01:27 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-14138-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

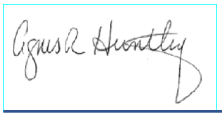
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

Table of Contents

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Definitions/Glossary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-14138-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-14138-1 through 620-14138-53

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 10/03/2023

Job ID: 620-14138-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-14138-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/26/2023 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

PCBs
Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: ATM-PCB-2-0003 (620-14138-2). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: Due to the matrix, the following sample could not be concentrated to the final method required volume: ATM-PCB-34-0003 (620-14138-36). The reporting limits (RLs) are elevated proportionately.

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-PCB-3-0003 (620-14138-3), ATM-PCB-5-0003 (620-14138-5), ATM-PCB-5-0003 (620-14138-5[MS]), ATM-PCB-5-0003 (620-14138-5[MSD]), ATM-PCB-11-0003 (620-14138-11), ATM-PCB-13-0003 (620-14138-13), FD-01-092523 (620-14138-14), ATM-PCB-16-0003 (620-14138-17), ATM-PCB-35-0003 (620-14138-37), ATM-PCB-35-0003 (620-14138-37[MS]), ATM-PCB-35-0003 (620-14138-37[MSD]), ATM-PCB-50-0003 (620-14138-39), ATM-PCB-37-0003 (620-14138-40), ATM-PCB-38-0003 (620-14138-41), ATM-PCB-49-0003 (620-14138-42), ATM-PCB-39-0003 (620-14138-43), ATM-PCB-40-0003 (620-14138-44), ATM-PCB-41-0003 (620-14138-45), ATM-PCB-42-0003 (620-14138-46), ATM-PCB-43-0003 (620-14138-47), FD-03-092623 (620-14138-48), ATM-PCB-44-0003 (620-14138-49), ATM-PCB-45-0003 (620-14138-50), ATM-PCB-46-0003 (620-14138-51) and ATM-PCB-47-0003 (620-14138-52). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-27243 and 620-27243 and analytical batch 620-27362 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: ATM-PCB-4-0003 (620-14138-4). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-PCB-7-0003 (620-14138-7), ATM-PCB-9-0003 (620-14138-9), ATM-PCB-10-0003 (620-14138-10), ATM-PCB-14-0003 (620-14138-15), ATM-PCB-15-0003 (620-14138-16), ATM-PCB-17-0003 (620-14138-18), ATM-PCB-18-0003 (620-14138-19) and ATM-PCB-36-0003 (620-14138-38). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27427/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Job ID: 620-14138-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27429/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-PCB-23-0003 (620-14138-24), ATM-PCB-24-0003 (620-14138-25), ATM-PCB-25-0003 (620-14138-26), ATM-PCB-30-0003 (620-14138-31) and FD-02-092523 (620-14138-32). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: ATM-PCB-27-0003 (620-14138-28). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: The following sample required a dilution due to the nature of the sample matrix: ATM-PCB-21-0003 (620-14138-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-1-0003 — Lab Sample ID: 620-14138-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.213		0.0252	0.0196	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-2-0003 — Lab Sample ID: 620-14138-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.323		0.0260	0.0202	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-3-0003 — Lab Sample ID: 620-14138-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	30.5		1.02	0.796	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-4-0003 — Lab Sample ID: 620-14138-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.395		0.0229	0.0179	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-5-0003 — Lab Sample ID: 620-14138-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.20		0.222	0.173	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-6-0003 — Lab Sample ID: 620-14138-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.155		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-7-0003 — Lab Sample ID: 620-14138-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.62		0.471	0.366	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-8-0003 — Lab Sample ID: 620-14138-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.968		0.0233	0.0181	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-9-0003 — Lab Sample ID: 620-14138-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.5		0.472	0.368	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-10-0003 — Lab Sample ID: 620-14138-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	33.2		1.08	0.843	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-11-0003 — Lab Sample ID: 620-14138-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.91		0.119	0.0923	mg/Kg	5	☼	8082	Total/NA

Client Sample ID: ATM-PCB-12-0003 — Lab Sample ID: 620-14138-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.760		0.0239	0.0186	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-13-0003 — Lab Sample ID: 620-14138-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.65		0.237	0.184	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: FD-01-092523 — Lab Sample ID: 620-14138-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.69		0.0473	0.0368	mg/Kg	2	☼	8082	Total/NA

Client Sample ID: ATM-PCB-14-0003 — Lab Sample ID: 620-14138-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.9		1.19	0.927	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-15-0003 — Lab Sample ID: 620-14138-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	9.39		0.468	0.364	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-16-0003 — Lab Sample ID: 620-14138-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	8.47		0.229	0.178	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-17-0003 — Lab Sample ID: 620-14138-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.0		0.457	0.356	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-18-0003 — Lab Sample ID: 620-14138-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	13.2		0.440	0.342	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-19-0003 — Lab Sample ID: 620-14138-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.237		0.0220	0.0171	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-20-0003 — Lab Sample ID: 620-14138-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	5.13		0.218	0.170	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-21-0003 — Lab Sample ID: 620-14138-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.17		0.192	0.149	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-22-0003 — Lab Sample ID: 620-14138-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.714		0.0224	0.0175	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-23-0003 — Lab Sample ID: 620-14138-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	14.6		0.514	0.400	mg/Kg	20	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-24-0003 — Lab Sample ID: 620-14138-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	93.6		2.27	1.77	mg/Kg	100	☼	8082	Total/NA

Client Sample ID: ATM-PCB-25-0003 — Lab Sample ID: 620-14138-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	18.5		1.03	0.804	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-26-0003 — Lab Sample ID: 620-14138-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0707		0.0214	0.0166	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-27-0003 — Lab Sample ID: 620-14138-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.121		0.0193	0.0150	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-28-0003 — Lab Sample ID: 620-14138-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.27		0.227	0.176	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-29-0003 — Lab Sample ID: 620-14138-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.50		0.209	0.163	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-30-0003 — Lab Sample ID: 620-14138-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	35.6		2.11	1.64	mg/Kg	100	☼	8082	Total/NA

Client Sample ID: FD-02-092523 — Lab Sample ID: 620-14138-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	13.2		0.386	0.300	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-31-0003 — Lab Sample ID: 620-14138-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.222		0.0182	0.0141	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-32-0003 — Lab Sample ID: 620-14138-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0958		0.0223	0.0173	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-33-0003 — Lab Sample ID: 620-14138-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.393		0.0219	0.0170	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-34-0003 — Lab Sample ID: 620-14138-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	12.1		0.412	0.320	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-35-0003 — Lab Sample ID: 620-14138-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.19		0.200	0.156	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-36-0003 — Lab Sample ID: 620-14138-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	20.4		0.923	0.718	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-50-0003 — Lab Sample ID: 620-14138-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.907		0.215	0.167	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-37-0003 — Lab Sample ID: 620-14138-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.59		0.202	0.157	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-38-0003 — Lab Sample ID: 620-14138-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.246		0.215	0.167	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-49-0003 — Lab Sample ID: 620-14138-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.54		0.220	0.171	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-39-0003 — Lab Sample ID: 620-14138-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.17		0.204	0.159	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-40-0003 — Lab Sample ID: 620-14138-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.316		0.197	0.153	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-41-0003 — Lab Sample ID: 620-14138-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.965		0.201	0.156	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-42-0003 — Lab Sample ID: 620-14138-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.314		0.208	0.162	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-43-0003 — Lab Sample ID: 620-14138-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.185	J	0.197	0.153	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: FD-03-092623 — Lab Sample ID: 620-14138-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.253		0.205	0.160	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-44-0003 — Lab Sample ID: 620-14138-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.924		0.200	0.155	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-45-0003 — Lab Sample ID: 620-14138-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.09		0.185	0.144	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-46-0003 — Lab Sample ID: 620-14138-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.10		0.199	0.154	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-47-0003 — Lab Sample ID: 620-14138-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.219		0.205	0.160	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-48-0003 — Lab Sample ID: 620-14138-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0616		0.0211	0.0164	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-1-0003

Date Collected: 09/25/23 08:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-1

Matrix: Solid
Percent Solids: 78.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0252	0.0181	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1221	ND		0.0252	0.00744	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1232	ND		0.0252	0.00698	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1242	ND		0.0252	0.00398	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1248	ND		0.0252	0.00787	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1254	**0.213**		0.0252	0.0196	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1262	ND		0.0252	0.00587	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1260	ND		0.0252	0.00542	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1268	ND		0.0252	0.00537	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*
Tetrachloro-m-xylene	*94*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*
DCB Decachlorobiphenyl (Surr)	*142*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*
DCB Decachlorobiphenyl (Surr)	*46*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**21.5**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**78.5**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-2-0003

Date Collected: 09/25/23 08:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-2

Matrix: Solid
Percent Solids: 76.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0260	0.0187	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1221	ND		0.0260	0.00768	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1232	ND		0.0260	0.00720	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1242	ND		0.0260	0.00411	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1248	ND		0.0260	0.00812	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1254	**0.323**		0.0260	0.0202	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1262	ND		0.0260	0.00605	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1260	ND		0.0260	0.00559	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1268	ND		0.0260	0.00553	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*
DCB Decachlorobiphenyl (Surr)	*169*	*S1+*	*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*
DCB Decachlorobiphenyl (Surr)	*70*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**23.4**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**76.6**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-3-0003

Date Collected: 09/25/23 08:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-3

Matrix: Solid
Percent Solids: 97.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.02	0.737	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1221	ND		1.02	0.302	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1232	ND		1.02	0.283	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1242	ND		1.02	0.162	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1248	ND		1.02	0.320	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1254	**30.5**		1.02	0.796	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1262	ND		1.02	0.238	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1260	ND		1.02	0.220	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1268	ND		1.02	0.218	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**97.7**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-4-0003

Date Collected: 09/25/23 09:00
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-4

Matrix: Solid
Percent Solids: 83.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1221	ND		0.0229	0.00678	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1232	ND		0.0229	0.00636	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1242	ND		0.0229	0.00363	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1248	ND		0.0229	0.00717	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1254	**0.395**		0.0229	0.0179	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1262	ND		0.0229	0.00535	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1260	ND		0.0229	0.00493	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1268	ND		0.0229	0.00489	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*
DCB Decachlorobiphenyl (Surr)	*10*	*p S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.1**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-5-0003 Lab Sample ID: 620-14138-5

Date Collected: 09/25/23 09:20 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.222	0.160	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1221	ND		0.222	0.0655	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1232	ND		0.222	0.0614	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1242	ND		0.222	0.0350	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1248	ND		0.222	0.0693	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1254	**7.20**		0.222	0.173	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1262	ND		0.222	0.0517	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1260	ND	F1	0.222	0.0477	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1268	ND		0.222	0.0472	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.0**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**87.0**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-6-0003

Date Collected: 09/25/23 09:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-6

Matrix: Solid
Percent Solids: 84.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1232	ND		0.0230	0.00637	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1254	**0.155**		0.0230	0.0179	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**84.7**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-7-0003

Date Collected: 09/25/23 09:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-7

Matrix: Solid
Percent Solids: 83.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.471	0.339	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1221	ND		0.471	0.139	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1232	ND		0.471	0.130	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1242	ND		0.471	0.0744	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1248	ND		0.471	0.147	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1254	**2.62**		0.471	0.366	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1262	ND		0.471	0.110	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1260	ND		0.471	0.101	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1268	ND		0.471	0.100	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.1**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-8-0003

Date Collected: 09/25/23 09:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-8

Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0233	0.0168	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1221	ND		0.0233	0.00688	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1232	ND		0.0233	0.00645	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1242	ND		0.0233	0.00368	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1248	ND		0.0233	0.00727	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1254	**0.968**		0.0233	0.0181	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1262	ND		0.0233	0.00542	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1260	ND		0.0233	0.00500	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1268	ND		0.0233	0.00496	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*		*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*
DCB Decachlorobiphenyl (Surr)	*131*		*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*
DCB Decachlorobiphenyl (Surr)	*33*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.9**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-9-0003
Lab Sample ID: 620-14138-9
Date Collected: 09/25/23 10:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.472	0.340	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1221	ND		0.472	0.140	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1232	ND		0.472	0.131	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1242	ND		0.472	0.0746	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1248	ND		0.472	0.148	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1254	**11.5**		0.472	0.368	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1262	ND		0.472	0.110	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1260	ND		0.472	0.102	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1268	ND		0.472	0.101	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.6**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.4**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-10-0003

Date Collected: 09/25/23 10:10
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-10

Matrix: Solid
Percent Solids: 90.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.08	0.781	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1221	ND		1.08	0.320	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1232	ND		1.08	0.300	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1242	ND		1.08	0.171	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1248	ND		1.08	0.339	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1254	**33.2**		1.08	0.843	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1262	ND		1.08	0.252	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1260	ND		1.08	0.233	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1268	ND		1.08	0.231	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.7**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**90.3**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-11-0003 Lab Sample ID: 620-14138-11

Date Collected: 09/25/23 10:45 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 81.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.119	0.0854	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1221	ND		0.119	0.0350	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1232	ND		0.119	0.0328	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1242	ND		0.119	0.0187	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1248	ND		0.119	0.0371	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1254	**2.91**		0.119	0.0923	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1262	ND		0.119	0.0276	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1260	ND		0.119	0.0255	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1268	ND		0.119	0.0253	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**81.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-12-0003 **Lab Sample ID: 620-14138-12**
Date Collected: 09/25/23 10:50 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 81.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0239	0.0172	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1221	ND		0.0239	0.00707	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1232	ND		0.0239	0.00663	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1242	ND		0.0239	0.00378	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1248	ND		0.0239	0.00748	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1254	**0.760**		0.0239	0.0186	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1262	ND		0.0239	0.00558	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1260	ND		0.0239	0.00515	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1268	ND		0.0239	0.00510	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*
Tetrachloro-m-xylene	*100*		*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*
DCB Decachlorobiphenyl (Surr)	*42*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**81.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-13-0003 Lab Sample ID: 620-14138-13

Date Collected: 09/25/23 11:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 82.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.237	0.171	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1221	ND		0.237	0.0700	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1232	ND		0.237	0.0656	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1242	ND		0.237	0.0374	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1248	ND		0.237	0.0740	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1254	**7.65**		0.237	0.184	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1262	ND		0.237	0.0552	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1260	ND		0.237	0.0509	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1268	ND		0.237	0.0504	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.0**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**82.0**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: FD-01-092523 Lab Sample ID: 620-14138-14

Date Collected: 09/25/23 08:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 81.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0473	0.0341	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1221	ND		0.0473	0.0140	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1232	ND		0.0473	0.0131	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1242	ND		0.0473	0.00747	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1248	ND		0.0473	0.0148	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1254	**1.69**		0.0473	0.0368	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1262	ND		0.0473	0.0110	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1260	ND		0.0473	0.0102	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1268	ND		0.0473	0.0101	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.2**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**81.8**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-14-0003 Lab Sample ID: 620-14138-15

Date Collected: 09/25/23 11:25 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 82.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.19	0.858	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1221	ND		1.19	0.352	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1232	ND		1.19	0.330	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1242	ND		1.19	0.188	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1248	ND		1.19	0.372	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1254	**11.9**		1.19	0.927	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1262	ND		1.19	0.278	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1260	ND		1.19	0.256	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1268	ND		1.19	0.254	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.2**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**82.8**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-15-0003 Lab Sample ID: 620-14138-16

Date Collected: 09/25/23 11:35 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 85.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.468	0.337	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1221	ND		0.468	0.138	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1232	ND		0.468	0.130	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1242	ND		0.468	0.0739	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1248	ND		0.468	0.146	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1254	**9.39**		0.468	0.364	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1262	ND		0.468	0.109	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1260	ND		0.468	0.101	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1268	ND		0.468	0.0996	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.8**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.2**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-16-0003

Date Collected: 09/25/23 11:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-17

Matrix: Solid
Percent Solids: 83.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.229	0.165	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1221	ND		0.229	0.0678	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1232	ND		0.229	0.0635	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1242	ND		0.229	0.0362	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1248	ND		0.229	0.0717	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1254	**8.47**		0.229	0.178	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1262	ND		0.229	0.0534	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1260	ND		0.229	0.0493	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1268	ND		0.229	0.0488	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.7**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.3**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-17-0003

Date Collected: 09/25/23 12:05
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-18

Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.457	0.329	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1221	ND		0.457	0.135	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1232	ND		0.457	0.127	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1242	ND		0.457	0.0722	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1248	ND		0.457	0.143	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1254	**11.0**		0.457	0.356	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1262	ND		0.457	0.107	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1260	ND		0.457	0.0983	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1268	ND		0.457	0.0974	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.7**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.3**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-18-0003

Date Collected: 09/25/23 12:10
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-19

Matrix: Solid
Percent Solids: 88.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.440	0.317	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1221	ND		0.440	0.130	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1232	ND		0.440	0.122	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1242	ND		0.440	0.0695	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1248	ND		0.440	0.138	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1254	**13.2**		0.440	0.342	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1262	ND		0.440	0.103	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1260	ND		0.440	0.0946	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1268	ND		0.440	0.0937	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.6**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**88.4**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-19-0003

Date Collected: 09/25/23 12:20
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-20

Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0220	0.0158	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1221	ND		0.0220	0.00649	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1232	ND		0.0220	0.00608	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1242	ND		0.0220	0.00347	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1248	ND		0.0220	0.00686	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1254	**0.237**		0.0220	0.0171	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1262	ND		0.0220	0.00512	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1260	ND		0.0220	0.00472	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1268	ND		0.0220	0.00468	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*
DCB Decachlorobiphenyl (Surr)	*133*		*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*
DCB Decachlorobiphenyl (Surr)	*62*	*p*	*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.7**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-20-0003

Date Collected: 09/25/23 12:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-21

Matrix: Solid
Percent Solids: 89.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.218	0.157	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1221	ND		0.218	0.0644	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1232	ND		0.218	0.0604	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1242	ND		0.218	0.0344	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1248	ND		0.218	0.0681	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1254	**5.13**		0.218	0.170	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1262	ND		0.218	0.0508	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1260	ND		0.218	0.0468	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1268	ND		0.218	0.0464	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.1**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-21-0003

Date Collected: 09/25/23 13:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-22

Matrix: Solid
Percent Solids: 89.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.192	0.138	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1221	ND		0.192	0.0568	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1232	ND		0.192	0.0532	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1242	ND		0.192	0.0303	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1248	ND		0.192	0.0600	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1254	**4.17**		0.192	0.149	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1262	ND		0.192	0.0448	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1260	ND		0.192	0.0413	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1268	ND		0.192	0.0409	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.8**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.2**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-22-0003

Date Collected: 09/25/23 13:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-23

Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0224	0.0162	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1221	ND		0.0224	0.00663	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1232	ND		0.0224	0.00622	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1242	ND		0.0224	0.00355	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1248	ND		0.0224	0.00701	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1254	**0.714**		0.0224	0.0175	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1262	ND		0.0224	0.00523	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1260	ND		0.0224	0.00483	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1268	ND		0.0224	0.00478	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*
DCB Decachlorobiphenyl (Surr)	*45*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.1**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-23-0003

Date Collected: 09/25/23 13:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-24

Matrix: Solid
Percent Solids: 75.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.514	0.371	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1221	ND		0.514	0.152	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1232	ND		0.514	0.142	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1242	ND		0.514	0.0813	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1248	ND		0.514	0.161	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1254	**14.6**		0.514	0.400	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1262	ND		0.514	0.120	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1260	ND		0.514	0.111	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1268	ND		0.514	0.110	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**24.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**75.7**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-24-0003

Date Collected: 09/25/23 13:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-25

Matrix: Solid
Percent Solids: 86.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.27	1.64	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1221	ND		2.27	0.672	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1232	ND		2.27	0.629	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1242	ND		2.27	0.359	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1248	ND		2.27	0.710	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1254	**93.6**		2.27	1.77	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1262	ND		2.27	0.529	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1260	ND		2.27	0.489	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1268	ND		2.27	0.484	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**86.1**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-25-0003 Lab Sample ID: 620-14138-26

Date Collected: 09/25/23 14:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 88.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.03	0.744	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1221	ND		1.03	0.305	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1232	ND		1.03	0.286	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1242	ND		1.03	0.163	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1248	ND		1.03	0.323	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1254	**18.5**		1.03	0.804	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1262	ND		1.03	0.241	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1260	ND		1.03	0.222	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1268	ND		1.03	0.220	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**88.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-26-0003 Lab Sample ID: 620-14138-27

Date Collected: 09/25/23 14:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 89.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0214	0.0154	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1221	ND		0.0214	0.00631	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1232	ND		0.0214	0.00592	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1242	ND		0.0214	0.00338	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1248	ND		0.0214	0.00668	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1254	**0.0707**		0.0214	0.0166	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1262	ND		0.0214	0.00498	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1260	ND		0.0214	0.00459	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1268	ND		0.0214	0.00455	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*
Tetrachloro-m-xylene	*43*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*30*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*31*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-27-0003 Lab Sample ID: 620-14138-28

Date Collected: 09/25/23 14:20 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 91.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0193	0.0139	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1221	ND		0.0193	0.00569	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1232	ND		0.0193	0.00533	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1242	ND		0.0193	0.00304	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1248	ND		0.0193	0.00602	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1254	**0.121**		0.0193	0.0150	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1262	ND		0.0193	0.00449	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1260	ND		0.0193	0.00414	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1268	ND		0.0193	0.00410	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*
DCB Decachlorobiphenyl (Surr)	*31*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*
DCB Decachlorobiphenyl (Surr)	*28*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**91.8**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-28-0003

Date Collected: 09/25/23 14:25
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-29

Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.227	0.163	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1221	ND		0.227	0.0670	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1232	ND		0.227	0.0628	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1242	ND		0.227	0.0358	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1248	ND		0.227	0.0709	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1254	**1.27**		0.227	0.176	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1262	ND		0.227	0.0529	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1260	ND		0.227	0.0488	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1268	ND		0.227	0.0483	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*
Tetrachloro-m-xylene	*78*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.4**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**86.6**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-29-0003 Lab Sample ID: 620-14138-30

Date Collected: 09/25/23 14:35 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.209	0.151	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1221	ND		0.209	0.0618	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1232	ND		0.209	0.0579	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1242	ND		0.209	0.0330	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1248	ND		0.209	0.0653	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1254	**1.50**		0.209	0.163	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1262	ND		0.209	0.0487	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1260	ND		0.209	0.0450	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1268	ND		0.209	0.0445	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.0**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**87.0**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-30-0003 Lab Sample ID: 620-14138-31

Date Collected: 09/25/23 14:55 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 86.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.11	1.52	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1221	ND		2.11	0.622	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1232	ND		2.11	0.583	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1242	ND		2.11	0.333	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1248	ND		2.11	0.658	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1254	**35.6**		2.11	1.64	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1262	ND		2.11	0.491	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1260	ND		2.11	0.453	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1268	ND		2.11	0.449	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.9**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**86.1**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: FD-02-092523 Lab Sample ID: 620-14138-32

Date Collected: 09/25/23 09:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 86.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.386	0.278	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1221	ND		0.386	0.114	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1232	ND		0.386	0.107	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1242	ND		0.386	0.0610	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1248	ND		0.386	0.121	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1254	**13.2**		0.386	0.300	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1262	ND		0.386	0.0899	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1260	ND		0.386	0.0830	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1268	ND		0.386	0.0822	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.3**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**86.7**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-31-0003 Lab Sample ID: 620-14138-33

Date Collected: 09/25/23 15:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 88.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0182	0.0131	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1221	ND		0.0182	0.00537	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1232	ND		0.0182	0.00504	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1242	ND		0.0182	0.00287	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1248	ND		0.0182	0.00568	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1254	**0.222**		0.0182	0.0141	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1262	ND		0.0182	0.00424	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1260	ND		0.0182	0.00391	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1268	ND		0.0182	0.00387	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*
DCB Decachlorobiphenyl (Surr)	*50*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.5**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**88.5**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-32-0003 Lab Sample ID: 620-14138-34

Date Collected: 09/25/23 15:10 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 83.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0160	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1221	ND		0.0223	0.00658	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1232	ND		0.0223	0.00617	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1248	ND		0.0223	0.00696	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1254	**0.0958**		0.0223	0.0173	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1262	ND		0.0223	0.00519	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1260	ND		0.0223	0.00479	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1268	ND		0.0223	0.00474	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*
Tetrachloro-m-xylene	*55*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*
DCB Decachlorobiphenyl (Surr)	*41*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**83.9**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-33-0003

Date Collected: 09/26/23 08:45
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-35

Matrix: Solid
Percent Solids: 84.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0219	0.0158	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1221	ND		0.0219	0.00647	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1232	ND		0.0219	0.00607	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1242	ND		0.0219	0.00346	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1248	ND		0.0219	0.00684	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1254	**0.393**		0.0219	0.0170	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1262	ND		0.0219	0.00510	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1260	ND		0.0219	0.00471	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1268	ND		0.0219	0.00467	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*
DCB Decachlorobiphenyl (Surr)	*45*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.9**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**84.1**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-34-0003 Lab Sample ID: 620-14138-36

Date Collected: 09/26/23 08:50 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 87.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.412	0.297	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1221	ND		0.412	0.122	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1232	ND		0.412	0.114	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1242	ND		0.412	0.0651	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1248	ND		0.412	0.129	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1254	**12.1**		0.412	0.320	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1262	ND		0.412	0.0959	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1260	ND		0.412	0.0885	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1268	ND		0.412	0.0877	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*
Tetrachloro-m-xylene	*87*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**87.4**		0.1	0.1	%			09/27/23 12:46	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-35-0003

Date Collected: 09/26/23 09:00
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-37

Matrix: Solid
Percent Solids: 95.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.200	0.144	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1221	ND		0.200	0.0591	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1232	ND		0.200	0.0554	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1242	ND		0.200	0.0316	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1248	ND		0.200	0.0625	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1254	**4.19**		0.200	0.156	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1262	ND		0.200	0.0466	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1260	ND	F1	0.200	0.0430	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1268	ND		0.200	0.0426	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.8**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**95.2**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-36-0003

Date Collected: 09/26/23 09:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-38

Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.923	0.665	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1221	ND		0.923	0.273	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1232	ND		0.923	0.256	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1242	ND		0.923	0.146	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1248	ND		0.923	0.288	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1254	**20.4**		0.923	0.718	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1262	ND		0.923	0.215	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1260	ND		0.923	0.198	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1268	ND		0.923	0.197	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**92.9**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-50-0003 Lab Sample ID: 620-14138-39

Date Collected: 09/26/23 09:55 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 91.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.215	0.155	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1221	ND		0.215	0.0634	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1232	ND		0.215	0.0595	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1242	ND		0.215	0.0339	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1248	ND		0.215	0.0671	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1254	**0.907**		0.215	0.167	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1262	ND		0.215	0.0500	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1260	ND		0.215	0.0462	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1268	ND		0.215	0.0457	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.0**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**91.0**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-37-0003 Lab Sample ID: 620-14138-40

Date Collected: 09/26/23 09:40 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 93.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.202	0.146	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1221	ND		0.202	0.0597	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1232	ND		0.202	0.0560	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1242	ND		0.202	0.0319	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1248	ND		0.202	0.0632	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1254	**2.59**		0.202	0.157	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1262	ND		0.202	0.0471	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1260	ND		0.202	0.0435	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1268	ND		0.202	0.0431	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.9**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-38-0003 Lab Sample ID: 620-14138-41

Date Collected: 09/26/23 09:45 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 91.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.215	0.155	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1221	ND		0.215	0.0634	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1232	ND		0.215	0.0595	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1242	ND		0.215	0.0339	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1248	ND		0.215	0.0671	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1254	**0.246**		0.215	0.167	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1262	ND		0.215	0.0500	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1260	ND		0.215	0.0461	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1268	ND		0.215	0.0457	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**91.8**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-49-0003

Date Collected: 09/26/23 10:05
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-42

Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.220	0.158	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1221	ND		0.220	0.0649	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1232	ND		0.220	0.0608	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1242	ND		0.220	0.0347	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1248	ND		0.220	0.0686	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1254	**4.54**		0.220	0.171	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1262	ND		0.220	0.0512	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1260	ND		0.220	0.0472	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1268	ND		0.220	0.0468	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**87.4**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-39-0003 Lab Sample ID: 620-14138-43

Date Collected: 09/26/23 10:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 93.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.204	0.147	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1221	ND		0.204	0.0604	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1232	ND		0.204	0.0566	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1242	ND		0.204	0.0323	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1248	ND		0.204	0.0638	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1254	**2.17**		0.204	0.159	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1262	ND		0.204	0.0476	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1260	ND		0.204	0.0439	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1268	ND		0.204	0.0435	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.9**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-40-0003 Lab Sample ID: 620-14138-44

Date Collected: 09/26/23 10:30 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 90.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.197	0.142	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1221	ND		0.197	0.0582	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1232	ND		0.197	0.0546	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1242	ND		0.197	0.0311	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1248	ND		0.197	0.0615	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1254	**0.316**		0.197	0.153	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1262	ND		0.197	0.0459	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1260	ND		0.197	0.0423	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1268	ND		0.197	0.0419	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.5**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**90.5**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-41-0003

Date Collected: 09/26/23 10:35
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-45

Matrix: Solid
Percent Solids: 93.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.201	0.145	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1221	ND		0.201	0.0593	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1232	ND		0.201	0.0556	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1242	ND		0.201	0.0317	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1248	ND		0.201	0.0627	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1254	**0.965**		0.201	0.156	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1262	ND		0.201	0.0468	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1260	ND		0.201	0.0432	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1268	ND		0.201	0.0428	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.3**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.7**		0.1	0.1	%			09/27/23 12:46	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-42-0003

Date Collected: 09/26/23 10:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-46

Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.208	0.150	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1221	ND		0.208	0.0615	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1232	ND		0.208	0.0577	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1242	ND		0.208	0.0329	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1248	ND		0.208	0.0651	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1254	**0.314**		0.208	0.162	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1262	ND		0.208	0.0485	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1260	ND		0.208	0.0448	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1268	ND		0.208	0.0444	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**94.4**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-43-0003 Lab Sample ID: 620-14138-47

Date Collected: 09/26/23 10:45 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 93.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.197	0.142	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1221	ND		0.197	0.0581	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1232	ND		0.197	0.0545	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1242	ND		0.197	0.0311	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1248	ND		0.197	0.0615	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1254	**0.185**	**J**	0.197	0.153	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1262	ND		0.197	0.0458	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1260	ND		0.197	0.0423	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1268	ND		0.197	0.0419	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.4**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: FD-03-092623

Date Collected: 09/26/23 08:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-48

Matrix: Solid
Percent Solids: 92.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.205	0.148	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1221	ND		0.205	0.0607	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1232	ND		0.205	0.0569	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1242	ND		0.205	0.0324	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1248	ND		0.205	0.0642	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1254	**0.253**		0.205	0.160	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1262	ND		0.205	0.0478	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1260	ND		0.205	0.0441	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1268	ND		0.205	0.0437	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.7**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**92.3**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-44-0003 Lab Sample ID: 620-14138-49

Date Collected: 09/26/23 10:50 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 94.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.200	0.144	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1221	ND		0.200	0.0590	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1232	ND		0.200	0.0553	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1242	ND		0.200	0.0316	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1248	ND		0.200	0.0624	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1254	**0.924**		0.200	0.155	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1262	ND		0.200	0.0465	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1260	ND		0.200	0.0429	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1268	ND		0.200	0.0425	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.2**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**94.8**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-45-0003

Date Collected: 09/26/23 10:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-50

Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.185	0.133	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1221	ND		0.185	0.0546	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1232	ND		0.185	0.0512	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1242	ND		0.185	0.0292	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1248	ND		0.185	0.0577	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1254	**1.09**		0.185	0.144	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1262	ND		0.185	0.0430	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1260	ND		0.185	0.0397	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1268	ND		0.185	0.0394	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.0**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**91.0**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-46-0003 Lab Sample ID: 620-14138-51

Date Collected: 09/26/23 11:05 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 94.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.199	0.143	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1221	ND		0.199	0.0587	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1232	ND		0.199	0.0550	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1242	ND		0.199	0.0314	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1248	ND		0.199	0.0620	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1254	**1.10**		0.199	0.154	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1262	ND		0.199	0.0463	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1260	ND		0.199	0.0427	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1268	ND		0.199	0.0423	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.2**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**94.8**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-47-0003 Lab Sample ID: 620-14138-52

Date Collected: 09/26/23 11:10 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 95.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.205	0.148	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1221	ND		0.205	0.0607	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1232	ND		0.205	0.0569	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1242	ND		0.205	0.0324	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1248	ND		0.205	0.0642	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1254	**0.219**		0.205	0.160	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1262	ND		0.205	0.0479	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1260	ND		0.205	0.0442	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1268	ND		0.205	0.0437	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.0**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**95.0**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-48-0003 Lab Sample ID: 620-14138-53

Date Collected: 09/26/23 11:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 92.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0211	0.0152	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1221	ND		0.0211	0.00624	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1232	ND		0.0211	0.00585	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1242	ND		0.0211	0.00334	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1248	ND		0.0211	0.00660	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1254	**0.0616**		0.0211	0.0164	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1262	ND		0.0211	0.00492	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1260	ND		0.0211	0.00454	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1268	ND		0.0211	0.00450	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**92.9**		0.1	0.1	%			09/27/23 12:46	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14138-1	ATM-PCB-1-0003	100	94	142	46 p
620-14138-2	ATM-PCB-2-0003	75	90	169 S1+	70 p
620-14138-3	ATM-PCB-3-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-4	ATM-PCB-4-0003	68	66	67	10 p S1-
620-14138-5	ATM-PCB-5-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-5 MS	ATM-PCB-5-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-5 MSD	ATM-PCB-5-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-6	ATM-PCB-6-0003	58	63	55	42
620-14138-7	ATM-PCB-7-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-8	ATM-PCB-8-0003	44	41	131	33 p
620-14138-9	ATM-PCB-9-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-10	ATM-PCB-10-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-11	ATM-PCB-11-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-12	ATM-PCB-12-0003	97	100	82	42 p
620-14138-13	ATM-PCB-13-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-14	FD-01-092523	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-15	ATM-PCB-14-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-16	ATM-PCB-15-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-17	ATM-PCB-16-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-18	ATM-PCB-17-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-19	ATM-PCB-18-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-20	ATM-PCB-19-0003	68	69	133	62 p
620-14138-21	ATM-PCB-20-0003	69	72	81	59
620-14138-22	ATM-PCB-21-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-23	ATM-PCB-22-0003	77	69	48	45
620-14138-24	ATM-PCB-23-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-25	ATM-PCB-24-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-26	ATM-PCB-25-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-27	ATM-PCB-26-0003	45	43	30	31
620-14138-28	ATM-PCB-27-0003	42	41	31	28 S1-
620-14138-29	ATM-PCB-28-0003	72	78	87	82
620-14138-30	ATM-PCB-29-0003	74	80	79	68
620-14138-31	ATM-PCB-30-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-32	FD-02-092523	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-33	ATM-PCB-31-0003	72	62	57	50
620-14138-34	ATM-PCB-32-0003	60	55	42	41
620-14138-35	ATM-PCB-33-0003	66	58	48	45
620-14138-36	ATM-PCB-34-0003	83	87	87	64
620-14138-37	ATM-PCB-35-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-37 MS	ATM-PCB-35-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-37 MSD	ATM-PCB-35-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-38	ATM-PCB-36-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-39	ATM-PCB-50-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-40	ATM-PCB-37-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-41	ATM-PCB-38-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-42	ATM-PCB-49-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-43	ATM-PCB-39-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-44	ATM-PCB-40-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-45	ATM-PCB-41-0003	0 S1-	0 S1-	0 S1-	0 S1-

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14138-46	ATM-PCB-42-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-47	ATM-PCB-43-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-48	FD-03-092623	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-49	ATM-PCB-44-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-50	ATM-PCB-45-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-51	ATM-PCB-46-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-52	ATM-PCB-47-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-53	ATM-PCB-48-0003	91	96	77	73
620-14138-53 MS	ATM-PCB-48-0003	95	90	81	53 p
620-14138-53 MSD	ATM-PCB-48-0003	91	100	90	97
LCS 620-27244/2-A	Lab Control Sample	60	53	45	44
LCS 620-27344/2-A	Lab Control Sample	75	79	62	68
LCS 620-27345/2-A	Lab Control Sample	81	80	67	72
LCS 620-27400/2-A	Lab Control Sample	60	63	51	51
LCSD 620-27244/3-A	Lab Control Sample Dup	52	57	42	42
LCSD 620-27344/3-A	Lab Control Sample Dup	81	85	60	65
LCSD 620-27345/3-A	Lab Control Sample Dup	70	68	59	63
LCSD 620-27400/3-A	Lab Control Sample Dup	60	64	51	50
MB 620-27244/1-A	Method Blank	55	57	46	44
MB 620-27344/1-A	Method Blank	71	74	55	59
MB 620-27345/1-A	Method Blank	72	68	58	61
MB 620-27400/1-A	Method Blank	72	75	61	60

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: 620-14138-5 MS
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-5-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.188	0.2051	J	mg/Kg	☼	109	40 - 140
PCB-1260	ND	F1	0.188	0.9462	F1	mg/Kg	☼	503	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*

Lab Sample ID: 620-14138-5 MSD
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-5-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.181	0.2041	J	mg/Kg	☼	112	40 - 140	0	30
PCB-1260	ND	F1	0.181	1.081	F1	mg/Kg	☼	595	40 - 140	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*

Lab Sample ID: 620-14138-37 MS
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.170	0.1560	J	mg/Kg	☼	92	40 - 140
PCB-1260	ND	F1	0.170	0.6198	F1	mg/Kg	☼	364	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*

Lab Sample ID: 620-14138-37 MSD
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.174	0.1730	J	mg/Kg	☼	100	40 - 140	10	30
PCB-1260	ND	F1	0.174	0.5917	F1	mg/Kg	☼	340	40 - 140	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-14138-37 MSD
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA
Prep Batch: 27243

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150

Lab Sample ID: MB 620-27244/1-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/27/23 15:53	09/30/23 04:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		30 - 150	09/27/23 15:53	09/30/23 04:43	1
Tetrachloro-m-xylene	57		30 - 150	09/27/23 15:53	09/30/23 04:43	1
DCB Decachlorobiphenyl (Surr)	46		30 - 150	09/27/23 15:53	09/30/23 04:43	1
DCB Decachlorobiphenyl (Surr)	44		30 - 150	09/27/23 15:53	09/30/23 04:43	1

Lab Sample ID: LCS 620-27244/2-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27244

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1349		mg/Kg		81	40 - 140		
PCB-1016			0.167	0.1268		mg/Kg		76	40 - 140		
PCB-1260			0.167	0.1282		mg/Kg		77	40 - 140		
PCB-1260			0.167	0.1353		mg/Kg		81	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	60		30 - 150
Tetrachloro-m-xylene	53		30 - 150
DCB Decachlorobiphenyl (Surr)	45		30 - 150
DCB Decachlorobiphenyl (Surr)	44		30 - 150

Lab Sample ID: LCSD 620-27244/3-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27244

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1146		mg/Kg		69	40 - 140	16	30
PCB-1016			0.167	0.1156		mg/Kg		69	40 - 140	9	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-27244/3-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27244

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260			0.167	0.1204		mg/Kg		72	40 - 140	6	30
PCB-1260			0.167	0.1306		mg/Kg		78	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*52*		*30 - 150*
Tetrachloro-m-xylene	*57*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*

Lab Sample ID: 620-14138-53 MS
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-48-0003
Prep Type: Total/NA
Prep Batch: 27244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.173	0.1556		mg/Kg	☼	90	40 - 140
PCB-1260	ND		0.173	0.1754		mg/Kg	☼	101	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*95*		*30 - 150*
Tetrachloro-m-xylene	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*53*	*p*	*30 - 150*

Lab Sample ID: 620-14138-53 MSD
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: ATM-PCB-48-0003
Prep Type: Total/NA
Prep Batch: 27244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.177	0.1572		mg/Kg	☼	89	40 - 140	1	30
PCB-1260	ND		0.177	0.1777		mg/Kg	☼	100	40 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*30 - 150*
Tetrachloro-m-xylene	*100*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*

Lab Sample ID: MB 620-27344/1-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:34	10/02/23 21:42	1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27344/1-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:34	10/02/23 21:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*

Lab Sample ID: LCS 620-27344/2-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1332		mg/Kg		80	40 - 140		
PCB-1016			0.167	0.1315		mg/Kg		79	40 - 140		
PCB-1260			0.167	0.1472		mg/Kg		88	40 - 140		
PCB-1260			0.167	0.1540		mg/Kg		92	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*30 - 150*
Tetrachloro-m-xylene	*79*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*

Lab Sample ID: LCSD 620-27344/3-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27344

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1393		mg/Kg		84	40 - 140	4	30
PCB-1016			0.167	0.1378		mg/Kg		83	40 - 140	5	30
PCB-1260			0.167	0.1420		mg/Kg		85	40 - 140	4	30
PCB-1260			0.167	0.1469		mg/Kg		88	40 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*85*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*

Lab Sample ID: MB 620-27345/1-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:37	10/03/23 01:17	1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27345/1-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:37	10/03/23 01:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*

Lab Sample ID: LCS 620-27345/2-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27345

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1533		mg/Kg		92	40 - 140		
PCB-1016			0.167	0.1432		mg/Kg		86	40 - 140		
PCB-1260			0.167	0.1737		mg/Kg		104	40 - 140		
PCB-1260			0.167	0.1587		mg/Kg		95	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*80*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*

Lab Sample ID: LCSD 620-27345/3-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27345

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1360		mg/Kg		82	40 - 140	12	30
PCB-1016			0.167	0.1282		mg/Kg		77	40 - 140	11	30
PCB-1260			0.167	0.1610		mg/Kg		97	40 - 140	8	30
PCB-1260			0.167	0.1458		mg/Kg		87	40 - 140	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*30 - 150*
Tetrachloro-m-xylene	*68*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27400/1-A
Matrix: Solid
Analysis Batch: 27427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		10/02/23 16:28	10/03/23 16:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*
Tetrachloro-m-xylene	*75*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*

Lab Sample ID: LCS 620-27400/2-A
Matrix: Solid
Analysis Batch: 27427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27400

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.09989		mg/Kg		60	40 - 140		
PCB-1016			0.167	0.09855		mg/Kg		59	40 - 140		
PCB-1260			0.167	0.1100		mg/Kg		66	40 - 140		
PCB-1260			0.167	0.1111		mg/Kg		67	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 150*
Tetrachloro-m-xylene	*63*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*51*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*51*		*30 - 150*

Lab Sample ID: LCSD 620-27400/3-A
Matrix: Solid
Analysis Batch: 27427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27400

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1022		mg/Kg		61	40 - 140	2	30
PCB-1016			0.167	0.09636		mg/Kg		58	40 - 140	2	30
PCB-1260			0.167	0.1101		mg/Kg		66	40 - 140	0	30
PCB-1260			0.167	0.1101		mg/Kg		66	40 - 140	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 150*
Tetrachloro-m-xylene	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*51*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*50*		*30 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 620-14138-5 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-5-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.0			13.6		%				4	5
Percent Solids	87.0			86.4		%				0.6	5

Lab Sample ID: 620-14138-10 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-10-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.7			9.4		%				4	5
Percent Solids	90.3			90.6		%				0.4	5

Lab Sample ID: 620-14138-11 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-11-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.1			18.1		%				0.07	5
Percent Solids	81.9			81.9		%				0	5

Lab Sample ID: 620-14138-21 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-20-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.9			10.7		%				2	5
Percent Solids	89.1			89.3		%				0.2	5

Lab Sample ID: 620-14138-37 DU
Matrix: Solid
Analysis Batch: 27235

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	4.8			4.6		%				5	5
Percent Solids	95.2			95.4		%				0.2	5

Lab Sample ID: 620-14138-50 DU
Matrix: Solid
Analysis Batch: 27235

Client Sample ID: ATM-PCB-45-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.0			9.4		%				4	5
Percent Solids	91.0			90.6		%				0.4	5

Lab Sample ID: 620-14138-53 DU
Matrix: Solid
Analysis Batch: 27235

Client Sample ID: ATM-PCB-48-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.1			7.3		%				3	5
Percent Solids	92.9			92.7		%				0.2	5

GC Semi VOA

Prep Batch: 27243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-5	ATM-PCB-5-0003	Total/NA	Solid	3540C	
620-14138-37	ATM-PCB-35-0003	Total/NA	Solid	3540C	
620-14138-5 MS	ATM-PCB-5-0003	Total/NA	Solid	3540C	
620-14138-5 MSD	ATM-PCB-5-0003	Total/NA	Solid	3540C	
620-14138-37 MS	ATM-PCB-35-0003	Total/NA	Solid	3540C	
620-14138-37 MSD	ATM-PCB-35-0003	Total/NA	Solid	3540C	

Prep Batch: 27244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-1	ATM-PCB-1-0003	Total/NA	Solid	3540C	
620-14138-2	ATM-PCB-2-0003	Total/NA	Solid	3540C	
620-14138-3	ATM-PCB-3-0003	Total/NA	Solid	3540C	
620-14138-4	ATM-PCB-4-0003	Total/NA	Solid	3540C	
620-14138-6	ATM-PCB-6-0003	Total/NA	Solid	3540C	
620-14138-7	ATM-PCB-7-0003	Total/NA	Solid	3540C	
620-14138-8	ATM-PCB-8-0003	Total/NA	Solid	3540C	
620-14138-9	ATM-PCB-9-0003	Total/NA	Solid	3540C	
620-14138-10	ATM-PCB-10-0003	Total/NA	Solid	3540C	
620-14138-11	ATM-PCB-11-0003	Total/NA	Solid	3540C	
620-14138-12	ATM-PCB-12-0003	Total/NA	Solid	3540C	
620-14138-13	ATM-PCB-13-0003	Total/NA	Solid	3540C	
620-14138-14	FD-01-092523	Total/NA	Solid	3540C	
620-14138-15	ATM-PCB-14-0003	Total/NA	Solid	3540C	
620-14138-16	ATM-PCB-15-0003	Total/NA	Solid	3540C	
620-14138-17	ATM-PCB-16-0003	Total/NA	Solid	3540C	
620-14138-18	ATM-PCB-17-0003	Total/NA	Solid	3540C	
620-14138-19	ATM-PCB-18-0003	Total/NA	Solid	3540C	
620-14138-20	ATM-PCB-19-0003	Total/NA	Solid	3540C	
620-14138-53	ATM-PCB-48-0003	Total/NA	Solid	3540C	
MB 620-27244/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27244/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27244/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-14138-53 MS	ATM-PCB-48-0003	Total/NA	Solid	3540C	
620-14138-53 MSD	ATM-PCB-48-0003	Total/NA	Solid	3540C	

Analysis Batch: 27330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-1	ATM-PCB-1-0003	Total/NA	Solid	8082	27244
620-14138-2	ATM-PCB-2-0003	Total/NA	Solid	8082	27244
620-14138-6	ATM-PCB-6-0003	Total/NA	Solid	8082	27244
620-14138-8	ATM-PCB-8-0003	Total/NA	Solid	8082	27244
620-14138-12	ATM-PCB-12-0003	Total/NA	Solid	8082	27244
620-14138-20	ATM-PCB-19-0003	Total/NA	Solid	8082	27244
620-14138-53	ATM-PCB-48-0003	Total/NA	Solid	8082	27244
MB 620-27244/1-A	Method Blank	Total/NA	Solid	8082	27244
LCS 620-27244/2-A	Lab Control Sample	Total/NA	Solid	8082	27244
LCSD 620-27244/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27244
620-14138-53 MSD	ATM-PCB-48-0003	Total/NA	Solid	8082	27244

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Prep Batch: 27344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-21	ATM-PCB-20-0003	Total/NA	Solid	3540C	
620-14138-24	ATM-PCB-23-0003	Total/NA	Solid	3540C	
620-14138-25	ATM-PCB-24-0003	Total/NA	Solid	3540C	
620-14138-26	ATM-PCB-25-0003	Total/NA	Solid	3540C	
620-14138-27	ATM-PCB-26-0003	Total/NA	Solid	3540C	
620-14138-28	ATM-PCB-27-0003	Total/NA	Solid	3540C	
620-14138-29	ATM-PCB-28-0003	Total/NA	Solid	3540C	
620-14138-30	ATM-PCB-29-0003	Total/NA	Solid	3540C	
620-14138-31	ATM-PCB-30-0003	Total/NA	Solid	3540C	
620-14138-32	FD-02-092523	Total/NA	Solid	3540C	
620-14138-33	ATM-PCB-31-0003	Total/NA	Solid	3540C	
620-14138-34	ATM-PCB-32-0003	Total/NA	Solid	3540C	
620-14138-35	ATM-PCB-33-0003	Total/NA	Solid	3540C	
620-14138-36	ATM-PCB-34-0003	Total/NA	Solid	3540C	
MB 620-27344/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27344/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27344/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Prep Batch: 27345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-38	ATM-PCB-36-0003	Total/NA	Solid	3540C	
620-14138-39	ATM-PCB-50-0003	Total/NA	Solid	3540C	
620-14138-40	ATM-PCB-37-0003	Total/NA	Solid	3540C	
620-14138-41	ATM-PCB-38-0003	Total/NA	Solid	3540C	
620-14138-42	ATM-PCB-49-0003	Total/NA	Solid	3540C	
620-14138-43	ATM-PCB-39-0003	Total/NA	Solid	3540C	
620-14138-44	ATM-PCB-40-0003	Total/NA	Solid	3540C	
620-14138-45	ATM-PCB-41-0003	Total/NA	Solid	3540C	
620-14138-46	ATM-PCB-42-0003	Total/NA	Solid	3540C	
620-14138-47	ATM-PCB-43-0003	Total/NA	Solid	3540C	
620-14138-48	FD-03-092623	Total/NA	Solid	3540C	
620-14138-49	ATM-PCB-44-0003	Total/NA	Solid	3540C	
620-14138-50	ATM-PCB-45-0003	Total/NA	Solid	3540C	
620-14138-51	ATM-PCB-46-0003	Total/NA	Solid	3540C	
620-14138-52	ATM-PCB-47-0003	Total/NA	Solid	3540C	
MB 620-27345/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27345/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27345/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 27362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-3	ATM-PCB-3-0003	Total/NA	Solid	8082	27244
620-14138-4	ATM-PCB-4-0003	Total/NA	Solid	8082	27244
620-14138-5	ATM-PCB-5-0003	Total/NA	Solid	8082	27243
620-14138-11	ATM-PCB-11-0003	Total/NA	Solid	8082	27244
620-14138-13	ATM-PCB-13-0003	Total/NA	Solid	8082	27244
620-14138-14	FD-01-092523	Total/NA	Solid	8082	27244
620-14138-17	ATM-PCB-16-0003	Total/NA	Solid	8082	27244
620-14138-37	ATM-PCB-35-0003	Total/NA	Solid	8082	27243
620-14138-39	ATM-PCB-50-0003	Total/NA	Solid	8082	27345
620-14138-40	ATM-PCB-37-0003	Total/NA	Solid	8082	27345

GC Semi VOA (Continued)

Analysis Batch: 27362 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-41	ATM-PCB-38-0003	Total/NA	Solid	8082	27345
620-14138-42	ATM-PCB-49-0003	Total/NA	Solid	8082	27345
620-14138-43	ATM-PCB-39-0003	Total/NA	Solid	8082	27345
620-14138-44	ATM-PCB-40-0003	Total/NA	Solid	8082	27345
620-14138-45	ATM-PCB-41-0003	Total/NA	Solid	8082	27345
620-14138-46	ATM-PCB-42-0003	Total/NA	Solid	8082	27345
620-14138-47	ATM-PCB-43-0003	Total/NA	Solid	8082	27345
620-14138-48	FD-03-092623	Total/NA	Solid	8082	27345
620-14138-49	ATM-PCB-44-0003	Total/NA	Solid	8082	27345
620-14138-50	ATM-PCB-45-0003	Total/NA	Solid	8082	27345
620-14138-51	ATM-PCB-46-0003	Total/NA	Solid	8082	27345
620-14138-52	ATM-PCB-47-0003	Total/NA	Solid	8082	27345
MB 620-27345/1-A	Method Blank	Total/NA	Solid	8082	27345
LCS 620-27345/2-A	Lab Control Sample	Total/NA	Solid	8082	27345
LCSD 620-27345/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27345
620-14138-5 MS	ATM-PCB-5-0003	Total/NA	Solid	8082	27243
620-14138-5 MSD	ATM-PCB-5-0003	Total/NA	Solid	8082	27243
620-14138-37 MS	ATM-PCB-35-0003	Total/NA	Solid	8082	27243
620-14138-37 MSD	ATM-PCB-35-0003	Total/NA	Solid	8082	27243
620-14138-53 MS	ATM-PCB-48-0003	Total/NA	Solid	8082	27244

Analysis Batch: 27364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-21	ATM-PCB-20-0003	Total/NA	Solid	8082	27344
620-14138-29	ATM-PCB-28-0003	Total/NA	Solid	8082	27344
620-14138-30	ATM-PCB-29-0003	Total/NA	Solid	8082	27344
620-14138-36	ATM-PCB-34-0003	Total/NA	Solid	8082	27344
MB 620-27344/1-A	Method Blank	Total/NA	Solid	8082	27344
LCS 620-27344/2-A	Lab Control Sample	Total/NA	Solid	8082	27344
LCSD 620-27344/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27344

Prep Batch: 27400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-22	ATM-PCB-21-0003	Total/NA	Solid	3540C	
620-14138-23	ATM-PCB-22-0003	Total/NA	Solid	3540C	
MB 620-27400/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27400/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27400/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 27427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-7	ATM-PCB-7-0003	Total/NA	Solid	8082	27244
620-14138-9	ATM-PCB-9-0003	Total/NA	Solid	8082	27244
620-14138-10	ATM-PCB-10-0003	Total/NA	Solid	8082	27244
620-14138-15	ATM-PCB-14-0003	Total/NA	Solid	8082	27244
620-14138-16	ATM-PCB-15-0003	Total/NA	Solid	8082	27244
620-14138-18	ATM-PCB-17-0003	Total/NA	Solid	8082	27244
620-14138-19	ATM-PCB-18-0003	Total/NA	Solid	8082	27244
620-14138-38	ATM-PCB-36-0003	Total/NA	Solid	8082	27345
MB 620-27400/1-A	Method Blank	Total/NA	Solid	8082	27400
LCS 620-27400/2-A	Lab Control Sample	Total/NA	Solid	8082	27400

GC Semi VOA (Continued)

Analysis Batch: 27427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 620-27400/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27400

Analysis Batch: 27429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-22	ATM-PCB-21-0003	Total/NA	Solid	8082	27400
620-14138-23	ATM-PCB-22-0003	Total/NA	Solid	8082	27400
620-14138-24	ATM-PCB-23-0003	Total/NA	Solid	8082	27344
620-14138-25	ATM-PCB-24-0003	Total/NA	Solid	8082	27344
620-14138-26	ATM-PCB-25-0003	Total/NA	Solid	8082	27344
620-14138-27	ATM-PCB-26-0003	Total/NA	Solid	8082	27344
620-14138-28	ATM-PCB-27-0003	Total/NA	Solid	8082	27344
620-14138-31	ATM-PCB-30-0003	Total/NA	Solid	8082	27344
620-14138-32	FD-02-092523	Total/NA	Solid	8082	27344
620-14138-33	ATM-PCB-31-0003	Total/NA	Solid	8082	27344
620-14138-34	ATM-PCB-32-0003	Total/NA	Solid	8082	27344
620-14138-35	ATM-PCB-33-0003	Total/NA	Solid	8082	27344

General Chemistry

Analysis Batch: 27226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-1	ATM-PCB-1-0003	Total/NA	Solid	Moisture	
620-14138-2	ATM-PCB-2-0003	Total/NA	Solid	Moisture	
620-14138-3	ATM-PCB-3-0003	Total/NA	Solid	Moisture	
620-14138-4	ATM-PCB-4-0003	Total/NA	Solid	Moisture	
620-14138-5	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-6	ATM-PCB-6-0003	Total/NA	Solid	Moisture	
620-14138-7	ATM-PCB-7-0003	Total/NA	Solid	Moisture	
620-14138-8	ATM-PCB-8-0003	Total/NA	Solid	Moisture	
620-14138-9	ATM-PCB-9-0003	Total/NA	Solid	Moisture	
620-14138-10	ATM-PCB-10-0003	Total/NA	Solid	Moisture	
620-14138-11	ATM-PCB-11-0003	Total/NA	Solid	Moisture	
620-14138-12	ATM-PCB-12-0003	Total/NA	Solid	Moisture	
620-14138-13	ATM-PCB-13-0003	Total/NA	Solid	Moisture	
620-14138-14	FD-01-092523	Total/NA	Solid	Moisture	
620-14138-15	ATM-PCB-14-0003	Total/NA	Solid	Moisture	
620-14138-16	ATM-PCB-15-0003	Total/NA	Solid	Moisture	
620-14138-17	ATM-PCB-16-0003	Total/NA	Solid	Moisture	
620-14138-18	ATM-PCB-17-0003	Total/NA	Solid	Moisture	
620-14138-19	ATM-PCB-18-0003	Total/NA	Solid	Moisture	
620-14138-20	ATM-PCB-19-0003	Total/NA	Solid	Moisture	
620-14138-21	ATM-PCB-20-0003	Total/NA	Solid	Moisture	
620-14138-22	ATM-PCB-21-0003	Total/NA	Solid	Moisture	
620-14138-23	ATM-PCB-22-0003	Total/NA	Solid	Moisture	
620-14138-24	ATM-PCB-23-0003	Total/NA	Solid	Moisture	
620-14138-25	ATM-PCB-24-0003	Total/NA	Solid	Moisture	
620-14138-26	ATM-PCB-25-0003	Total/NA	Solid	Moisture	
620-14138-27	ATM-PCB-26-0003	Total/NA	Solid	Moisture	
620-14138-28	ATM-PCB-27-0003	Total/NA	Solid	Moisture	
620-14138-29	ATM-PCB-28-0003	Total/NA	Solid	Moisture	
620-14138-30	ATM-PCB-29-0003	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 27226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-5 MS	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-5 MSD	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-5 DU	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-10 DU	ATM-PCB-10-0003	Total/NA	Solid	Moisture	
620-14138-11 DU	ATM-PCB-11-0003	Total/NA	Solid	Moisture	
620-14138-21 DU	ATM-PCB-20-0003	Total/NA	Solid	Moisture	

Analysis Batch: 27235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-31	ATM-PCB-30-0003	Total/NA	Solid	Moisture	
620-14138-32	FD-02-092523	Total/NA	Solid	Moisture	
620-14138-33	ATM-PCB-31-0003	Total/NA	Solid	Moisture	
620-14138-34	ATM-PCB-32-0003	Total/NA	Solid	Moisture	
620-14138-35	ATM-PCB-33-0003	Total/NA	Solid	Moisture	
620-14138-36	ATM-PCB-34-0003	Total/NA	Solid	Moisture	
620-14138-37	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-38	ATM-PCB-36-0003	Total/NA	Solid	Moisture	
620-14138-39	ATM-PCB-50-0003	Total/NA	Solid	Moisture	
620-14138-40	ATM-PCB-37-0003	Total/NA	Solid	Moisture	
620-14138-41	ATM-PCB-38-0003	Total/NA	Solid	Moisture	
620-14138-42	ATM-PCB-49-0003	Total/NA	Solid	Moisture	
620-14138-43	ATM-PCB-39-0003	Total/NA	Solid	Moisture	
620-14138-44	ATM-PCB-40-0003	Total/NA	Solid	Moisture	
620-14138-45	ATM-PCB-41-0003	Total/NA	Solid	Moisture	
620-14138-46	ATM-PCB-42-0003	Total/NA	Solid	Moisture	
620-14138-47	ATM-PCB-43-0003	Total/NA	Solid	Moisture	
620-14138-48	FD-03-092623	Total/NA	Solid	Moisture	
620-14138-49	ATM-PCB-44-0003	Total/NA	Solid	Moisture	
620-14138-50	ATM-PCB-45-0003	Total/NA	Solid	Moisture	
620-14138-51	ATM-PCB-46-0003	Total/NA	Solid	Moisture	
620-14138-52	ATM-PCB-47-0003	Total/NA	Solid	Moisture	
620-14138-53	ATM-PCB-48-0003	Total/NA	Solid	Moisture	
620-14138-37 MS	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-37 MSD	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-53 MS	ATM-PCB-48-0003	Total/NA	Solid	Moisture	
620-14138-53 MSD	ATM-PCB-48-0003	Total/NA	Solid	Moisture	
620-14138-37 DU	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-50 DU	ATM-PCB-45-0003	Total/NA	Solid	Moisture	
620-14138-53 DU	ATM-PCB-48-0003	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-1-0003 **Lab Sample ID: 620-14138-1**
Date Collected: 09/25/23 08:30 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-1-0003 **Lab Sample ID: 620-14138-1**
Date Collected: 09/25/23 08:30 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 78.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 06:27

Client Sample ID: ATM-PCB-2-0003 **Lab Sample ID: 620-14138-2**
Date Collected: 09/25/23 08:40 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-2-0003 **Lab Sample ID: 620-14138-2**
Date Collected: 09/25/23 08:40 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 06:44

Client Sample ID: ATM-PCB-3-0003 **Lab Sample ID: 620-14138-3**
Date Collected: 09/25/23 08:55 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-3-0003 **Lab Sample ID: 620-14138-3**
Date Collected: 09/25/23 08:55 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		50	27362	SFL	EET NE	10/02/23 20:05

Client Sample ID: ATM-PCB-4-0003 **Lab Sample ID: 620-14138-4**
Date Collected: 09/25/23 09:00 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-4-0003
Lab Sample ID: 620-14138-4
Date Collected: 09/25/23 09:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27362	SFL	EET NE	10/02/23 20:22

Client Sample ID: ATM-PCB-5-0003
Lab Sample ID: 620-14138-5
Date Collected: 09/25/23 09:20
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-5-0003
Lab Sample ID: 620-14138-5
Date Collected: 09/25/23 09:20
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27243	AAH	EET NE	09/27/23 16:02
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 20:40

Client Sample ID: ATM-PCB-6-0003
Lab Sample ID: 620-14138-6
Date Collected: 09/25/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-6-0003
Lab Sample ID: 620-14138-6
Date Collected: 09/25/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 03:21

Client Sample ID: ATM-PCB-7-0003
Lab Sample ID: 620-14138-7
Date Collected: 09/25/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-7-0003
Lab Sample ID: 620-14138-7
Date Collected: 09/25/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 13:04

Client Sample ID: ATM-PCB-8-0003
Lab Sample ID: 620-14138-8
Date Collected: 09/25/23 09:50
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-8-0003
Lab Sample ID: 620-14138-8
Date Collected: 09/25/23 09:50
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 09:37

Client Sample ID: ATM-PCB-9-0003
Lab Sample ID: 620-14138-9
Date Collected: 09/25/23 10:00
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-9-0003
Lab Sample ID: 620-14138-9
Date Collected: 09/25/23 10:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 12:30

Client Sample ID: ATM-PCB-10-0003
Lab Sample ID: 620-14138-10
Date Collected: 09/25/23 10:10
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-10-0003
Lab Sample ID: 620-14138-10
Date Collected: 09/25/23 10:10
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		50	27427	SFL	EET NE	10/03/23 15:05

Client Sample ID: ATM-PCB-11-0003
Lab Sample ID: 620-14138-11
Date Collected: 09/25/23 10:45
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-11-0003
Lab Sample ID: 620-14138-11
Date Collected: 09/25/23 10:45
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		5	27362	SFL	EET NE	10/02/23 21:51

Client Sample ID: ATM-PCB-12-0003
Lab Sample ID: 620-14138-12
Date Collected: 09/25/23 10:50
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-12-0003
Lab Sample ID: 620-14138-12
Date Collected: 09/25/23 10:50
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 02:12

Client Sample ID: ATM-PCB-13-0003
Lab Sample ID: 620-14138-13
Date Collected: 09/25/23 11:15
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-13-0003 — Lab Sample ID: 620-14138-13

Date Collected: 09/25/23 11:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 22:08

Client Sample ID: FD-01-092523 — Lab Sample ID: 620-14138-14

Date Collected: 09/25/23 08:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: FD-01-092523 — Lab Sample ID: 620-14138-14

Date Collected: 09/25/23 08:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 81.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		2	27362	SFL	EET NE	10/02/23 22:26

Client Sample ID: ATM-PCB-14-0003 — Lab Sample ID: 620-14138-15

Date Collected: 09/25/23 11:25 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-14-0003 — Lab Sample ID: 620-14138-15

Date Collected: 09/25/23 11:25 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		50	27427	SFL	EET NE	10/03/23 13:39

Client Sample ID: ATM-PCB-15-0003 — Lab Sample ID: 620-14138-16

Date Collected: 09/25/23 11:35 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-15-0003
Lab Sample ID: 620-14138-16
Date Collected: 09/25/23 11:35
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 15:23

Client Sample ID: ATM-PCB-16-0003
Lab Sample ID: 620-14138-17
Date Collected: 09/25/23 11:55
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-16-0003
Lab Sample ID: 620-14138-17
Date Collected: 09/25/23 11:55
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 23:19

Client Sample ID: ATM-PCB-17-0003
Lab Sample ID: 620-14138-18
Date Collected: 09/25/23 12:05
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-17-0003
Lab Sample ID: 620-14138-18
Date Collected: 09/25/23 12:05
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 14:13

Client Sample ID: ATM-PCB-18-0003
Lab Sample ID: 620-14138-19
Date Collected: 09/25/23 12:10
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-18-0003 — Lab Sample ID: 620-14138-19
Date Collected: 09/25/23 12:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 88.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 12:47

Client Sample ID: ATM-PCB-19-0003 — Lab Sample ID: 620-14138-20
Date Collected: 09/25/23 12:20 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-19-0003 — Lab Sample ID: 620-14138-20
Date Collected: 09/25/23 12:20 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 89.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 08:28

Client Sample ID: ATM-PCB-20-0003 — Lab Sample ID: 620-14138-21
Date Collected: 09/25/23 12:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-20-0003 — Lab Sample ID: 620-14138-21
Date Collected: 09/25/23 12:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 00:53

Client Sample ID: ATM-PCB-21-0003 — Lab Sample ID: 620-14138-22
Date Collected: 09/25/23 13:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-21-0003
Date Collected: 09/25/23 13:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-22
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27400	BJJ	EET NE	10/02/23 16:28
Total/NA	Analysis	8082		10	27429	SFL	EET NE	10/03/23 18:00

Client Sample ID: ATM-PCB-22-0003
Date Collected: 09/25/23 13:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-22-0003
Date Collected: 09/25/23 13:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-23
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27400	BJJ	EET NE	10/02/23 16:28
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 17:43

Client Sample ID: ATM-PCB-23-0003
Date Collected: 09/25/23 13:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-23-0003
Date Collected: 09/25/23 13:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-24
Matrix: Solid
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		20	27429	SFL	EET NE	10/03/23 13:26

Client Sample ID: ATM-PCB-24-0003
Date Collected: 09/25/23 13:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-24-0003 — Lab Sample ID: 620-14138-25
Date Collected: 09/25/23 13:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 86.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		100	27429	SFL	EET NE	10/03/23 13:44

Client Sample ID: ATM-PCB-25-0003 — Lab Sample ID: 620-14138-26
Date Collected: 09/25/23 14:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-25-0003 — Lab Sample ID: 620-14138-26
Date Collected: 09/25/23 14:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 88.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		50	27429	SFL	EET NE	10/03/23 14:01

Client Sample ID: ATM-PCB-26-0003 — Lab Sample ID: 620-14138-27
Date Collected: 09/25/23 14:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-26-0003 — Lab Sample ID: 620-14138-27
Date Collected: 09/25/23 14:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 89.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 14:19

Client Sample ID: ATM-PCB-27-0003 — Lab Sample ID: 620-14138-28
Date Collected: 09/25/23 14:20 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-27-0003
Lab Sample ID: 620-14138-28
Date Collected: 09/25/23 14:20
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 14:37

Client Sample ID: ATM-PCB-28-0003
Lab Sample ID: 620-14138-29
Date Collected: 09/25/23 14:25
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-28-0003
Lab Sample ID: 620-14138-29
Date Collected: 09/25/23 14:25
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 03:23

Client Sample ID: ATM-PCB-29-0003
Lab Sample ID: 620-14138-30
Date Collected: 09/25/23 14:35
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-29-0003
Lab Sample ID: 620-14138-30
Date Collected: 09/25/23 14:35
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 03:40

Client Sample ID: ATM-PCB-30-0003
Lab Sample ID: 620-14138-31
Date Collected: 09/25/23 14:55
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-30-0003 — Lab Sample ID: 620-14138-31

Date Collected: 09/25/23 14:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 86.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		100	27429	SFL	EET NE	10/03/23 14:54

Client Sample ID: FD-02-092523 — Lab Sample ID: 620-14138-32

Date Collected: 09/25/23 09:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: FD-02-092523 — Lab Sample ID: 620-14138-32

Date Collected: 09/25/23 09:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		20	27429	SFL	EET NE	10/03/23 15:12

Client Sample ID: ATM-PCB-31-0003 — Lab Sample ID: 620-14138-33

Date Collected: 09/25/23 15:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-31-0003 — Lab Sample ID: 620-14138-33

Date Collected: 09/25/23 15:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 15:30

Client Sample ID: ATM-PCB-32-0003 — Lab Sample ID: 620-14138-34

Date Collected: 09/25/23 15:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-32-0003 — Lab Sample ID: 620-14138-34

Date Collected: 09/25/23 15:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 15:48

Client Sample ID: ATM-PCB-33-0003 — Lab Sample ID: 620-14138-35

Date Collected: 09/26/23 08:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-33-0003 — Lab Sample ID: 620-14138-35

Date Collected: 09/26/23 08:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 84.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 16:05

Client Sample ID: ATM-PCB-34-0003 — Lab Sample ID: 620-14138-36

Date Collected: 09/26/23 08:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-34-0003 — Lab Sample ID: 620-14138-36

Date Collected: 09/26/23 08:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 05:24

Client Sample ID: ATM-PCB-35-0003 — Lab Sample ID: 620-14138-37

Date Collected: 09/26/23 09:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-35-0003
Lab Sample ID: 620-14138-37
Date Collected: 09/26/23 09:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27243	AAH	EET NE	09/27/23 16:02
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 17:13

Client Sample ID: ATM-PCB-36-0003
Lab Sample ID: 620-14138-38
Date Collected: 09/26/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-36-0003
Lab Sample ID: 620-14138-38
Date Collected: 09/26/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		50	27427	SFL	EET NE	10/03/23 14:48

Client Sample ID: ATM-PCB-50-0003
Lab Sample ID: 620-14138-39
Date Collected: 09/26/23 09:55
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-50-0003
Lab Sample ID: 620-14138-39
Date Collected: 09/26/23 09:55
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 02:28

Client Sample ID: ATM-PCB-37-0003
Lab Sample ID: 620-14138-40
Date Collected: 09/26/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-37-0003
Lab Sample ID: 620-14138-40
Date Collected: 09/26/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 02:46

Client Sample ID: ATM-PCB-38-0003
Lab Sample ID: 620-14138-41
Date Collected: 09/26/23 09:45
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-38-0003
Lab Sample ID: 620-14138-41
Date Collected: 09/26/23 09:45
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:03

Client Sample ID: ATM-PCB-49-0003
Lab Sample ID: 620-14138-42
Date Collected: 09/26/23 10:05
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-49-0003
Lab Sample ID: 620-14138-42
Date Collected: 09/26/23 10:05
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:21

Client Sample ID: ATM-PCB-39-0003
Lab Sample ID: 620-14138-43
Date Collected: 09/26/23 10:15
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-39-0003 — Lab Sample ID: 620-14138-43

Date Collected: 09/26/23 10:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 93.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:39

Client Sample ID: ATM-PCB-40-0003 — Lab Sample ID: 620-14138-44

Date Collected: 09/26/23 10:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-40-0003 — Lab Sample ID: 620-14138-44

Date Collected: 09/26/23 10:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 90.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:56

Client Sample ID: ATM-PCB-41-0003 — Lab Sample ID: 620-14138-45

Date Collected: 09/26/23 10:35 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-41-0003 — Lab Sample ID: 620-14138-45

Date Collected: 09/26/23 10:35 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 93.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 04:14

Client Sample ID: ATM-PCB-42-0003 — Lab Sample ID: 620-14138-46

Date Collected: 09/26/23 10:40 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-42-0003 — Lab Sample ID: 620-14138-46

Date Collected: 09/26/23 10:40 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 04:32

Client Sample ID: ATM-PCB-43-0003 — Lab Sample ID: 620-14138-47

Date Collected: 09/26/23 10:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-43-0003 — Lab Sample ID: 620-14138-47

Date Collected: 09/26/23 10:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 04:49

Client Sample ID: FD-03-092623 — Lab Sample ID: 620-14138-48

Date Collected: 09/26/23 08:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: FD-03-092623 — Lab Sample ID: 620-14138-48

Date Collected: 09/26/23 08:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 92.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 05:07

Client Sample ID: ATM-PCB-44-0003 — Lab Sample ID: 620-14138-49

Date Collected: 09/26/23 10:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-44-0003 — Lab Sample ID: 620-14138-49

Date Collected: 09/26/23 10:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 94.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 05:25

Client Sample ID: ATM-PCB-45-0003 — Lab Sample ID: 620-14138-50

Date Collected: 09/26/23 10:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-45-0003 — Lab Sample ID: 620-14138-50

Date Collected: 09/26/23 10:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 91.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 05:42

Client Sample ID: ATM-PCB-46-0003 — Lab Sample ID: 620-14138-51

Date Collected: 09/26/23 11:05 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-46-0003 — Lab Sample ID: 620-14138-51

Date Collected: 09/26/23 11:05 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 94.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 06:00

Client Sample ID: ATM-PCB-47-0003 — Lab Sample ID: 620-14138-52

Date Collected: 09/26/23 11:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-47-0003 — Lab Sample ID: 620-14138-52

Date Collected: 09/26/23 11:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 95.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 06:18

Client Sample ID: ATM-PCB-48-0003 — Lab Sample ID: 620-14138-53

Date Collected: 09/26/23 11:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-48-0003 — Lab Sample ID: 620-14138-53

Date Collected: 09/26/23 11:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 92.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 05:35

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
Moisture	Percent Moisture	EPA	EET NE
3540C	Soxhlet Extraction	SW846	EET NE

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-14138-1	ATM-PCB-1-0003	Solid	09/25/23 08:30	09/26/23 14:30
620-14138-2	ATM-PCB-2-0003	Solid	09/25/23 08:40	09/26/23 14:30
620-14138-3	ATM-PCB-3-0003	Solid	09/25/23 08:55	09/26/23 14:30
620-14138-4	ATM-PCB-4-0003	Solid	09/25/23 09:00	09/26/23 14:30
620-14138-5	ATM-PCB-5-0003	Solid	09/25/23 09:20	09/26/23 14:30
620-14138-6	ATM-PCB-6-0003	Solid	09/25/23 09:30	09/26/23 14:30
620-14138-7	ATM-PCB-7-0003	Solid	09/25/23 09:40	09/26/23 14:30
620-14138-8	ATM-PCB-8-0003	Solid	09/25/23 09:50	09/26/23 14:30
620-14138-9	ATM-PCB-9-0003	Solid	09/25/23 10:00	09/26/23 14:30
620-14138-10	ATM-PCB-10-0003	Solid	09/25/23 10:10	09/26/23 14:30
620-14138-11	ATM-PCB-11-0003	Solid	09/25/23 10:45	09/26/23 14:30
620-14138-12	ATM-PCB-12-0003	Solid	09/25/23 10:50	09/26/23 14:30
620-14138-13	ATM-PCB-13-0003	Solid	09/25/23 11:15	09/26/23 14:30
620-14138-14	FD-01-092523	Solid	09/25/23 08:00	09/26/23 14:30
620-14138-15	ATM-PCB-14-0003	Solid	09/25/23 11:25	09/26/23 14:30
620-14138-16	ATM-PCB-15-0003	Solid	09/25/23 11:35	09/26/23 14:30
620-14138-17	ATM-PCB-16-0003	Solid	09/25/23 11:55	09/26/23 14:30
620-14138-18	ATM-PCB-17-0003	Solid	09/25/23 12:05	09/26/23 14:30
620-14138-19	ATM-PCB-18-0003	Solid	09/25/23 12:10	09/26/23 14:30
620-14138-20	ATM-PCB-19-0003	Solid	09/25/23 12:20	09/26/23 14:30
620-14138-21	ATM-PCB-20-0003	Solid	09/25/23 12:30	09/26/23 14:30
620-14138-22	ATM-PCB-21-0003	Solid	09/25/23 13:30	09/26/23 14:30
620-14138-23	ATM-PCB-22-0003	Solid	09/25/23 13:40	09/26/23 14:30
620-14138-24	ATM-PCB-23-0003	Solid	09/25/23 13:50	09/26/23 14:30
620-14138-25	ATM-PCB-24-0003	Solid	09/25/23 13:55	09/26/23 14:30
620-14138-26	ATM-PCB-25-0003	Solid	09/25/23 14:00	09/26/23 14:30
620-14138-27	ATM-PCB-26-0003	Solid	09/25/23 14:15	09/26/23 14:30
620-14138-28	ATM-PCB-27-0003	Solid	09/25/23 14:20	09/26/23 14:30
620-14138-29	ATM-PCB-28-0003	Solid	09/25/23 14:25	09/26/23 14:30
620-14138-30	ATM-PCB-29-0003	Solid	09/25/23 14:35	09/26/23 14:30
620-14138-31	ATM-PCB-30-0003	Solid	09/25/23 14:55	09/26/23 14:30
620-14138-32	FD-02-092523	Solid	09/25/23 09:00	09/26/23 14:30
620-14138-33	ATM-PCB-31-0003	Solid	09/25/23 15:00	09/26/23 14:30
620-14138-34	ATM-PCB-32-0003	Solid	09/25/23 15:10	09/26/23 14:30
620-14138-35	ATM-PCB-33-0003	Solid	09/26/23 08:45	09/26/23 14:30
620-14138-36	ATM-PCB-34-0003	Solid	09/26/23 08:50	09/26/23 14:30
620-14138-37	ATM-PCB-35-0003	Solid	09/26/23 09:00	09/26/23 14:30
620-14138-38	ATM-PCB-36-0003	Solid	09/26/23 09:30	09/26/23 14:30
620-14138-39	ATM-PCB-50-0003	Solid	09/26/23 09:55	09/26/23 14:30
620-14138-40	ATM-PCB-37-0003	Solid	09/26/23 09:40	09/26/23 14:30
620-14138-41	ATM-PCB-38-0003	Solid	09/26/23 09:45	09/26/23 14:30
620-14138-42	ATM-PCB-49-0003	Solid	09/26/23 10:05	09/26/23 14:30
620-14138-43	ATM-PCB-39-0003	Solid	09/26/23 10:15	09/26/23 14:30
620-14138-44	ATM-PCB-40-0003	Solid	09/26/23 10:30	09/26/23 14:30
620-14138-45	ATM-PCB-41-0003	Solid	09/26/23 10:35	09/26/23 14:30
620-14138-46	ATM-PCB-42-0003	Solid	09/26/23 10:40	09/26/23 14:30
620-14138-47	ATM-PCB-43-0003	Solid	09/26/23 10:45	09/26/23 14:30
620-14138-48	FD-03-092623	Solid	09/26/23 08:30	09/26/23 14:30
620-14138-49	ATM-PCB-44-0003	Solid	09/26/23 10:50	09/26/23 14:30
620-14138-50	ATM-PCB-45-0003	Solid	09/26/23 10:55	09/26/23 14:30
620-14138-51	ATM-PCB-46-0003	Solid	09/26/23 11:05	09/26/23 14:30
620-14138-52	ATM-PCB-47-0003	Solid	09/26/23 11:10	09/26/23 14:30
620-14138-53	ATM-PCB-48-0003	Solid	09/26/23 11:15	09/26/23 14:30

14138

Chain of Custody Record

eurofins | Environment Testing

620-14138 Chain of Custody

	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:

Analysis Requested

Address: 585 Middlesex Street	Due Date Requested: 10/3/23
City: Lowell	TAT Requested (days): 5 day
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No
Phone: 774-245-3618	PO #: S00001.002/400
Email: bfortier@nobis-group.com	WO #:
Project Name: 4 Holeman Street, Templeton MA	Project #:
Site: American Tissue Mill	SSOW#:

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (Soxhlet)	Total Number of containers	Special Instructions/Note:
	Preservation Code:									
-1	ATM-PCB-1-0003	9-25-23	8:30	C	Water			X		
-2	ATM-PCB-2-0003		8:40		Water			X		
-3	ATM-PCB-3-0003		8:55		Water			X		
-4	ATM-PCB-4-0003		9:00		Water			X		
-5	ATM-PCB-5-0003		9:20		Water		X	X		This sample is MS/MSD
-6	ATM-PCB-6-0003		9:30		Water			X		
-7	ATM-PCB-7-0003		9:40		Water			X		
-8	ATM-PCB-8-0003		9:50					X		
-9	ATM-PCB-9-0003		10:00					X		
-10	ATM-PCB-10-0003		10:10					X		
-11	ATM-PCB-11-0003		10:45					X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: send results EDD to Dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	9-26-23 12:33		Received by:	9/26/23 12:34	
Relinquished by:	9/26/23 14:30		Received by:	9/26/23 14:30	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.2 -0.2 3.4 #6 1.2 -0.2 4#6

Ver: 06/08/2021

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10/3/2023

14138

Chain of Custody Record

urofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

eurofins | Environment Testing

Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: S00001 002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (SOxhlet)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
-12	ATM-PCB-12-0003	9-25-23	1050	C	S ~~Water~~			X		
-13	ATM-PCB-13-0003		1115		S ~~Water~~			X		
-14	FD-01-092523		800		S ~~Water~~			X		
-15	ATM-PCB-14-0003		1125		S ~~Water~~			X		
-16	ATM-PCB-15-0003		1135		S ~~Water~~			X		
-17	ATM-PCB-16-0003		1155		S ~~Water~~			X		
-18	ATM-PCB-17-0003		1205		S ~~Water~~			X		
-19	ATM-PCB-18-0003		1210					X		
-20	ATM-PCB-19-0003		1220					X		
-21	ATM-PCB-20-0003		1230					X		
-22	ATM-PCB-21-0003		1330					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: please send Equis EDD to dmcgrath@nobisgroup.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
[signature]	9-26-23 12:33		[signature]	9/26/23 12:34	EM
[signature]	9/26/23 14:30	EM	[signature]	9/26/23 14:30	EM

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
		3.2 to .2 3.4 #6 / 1.2 to .2 1.4 #6

Ver: 06/08/2021

10/3/2023

14138

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: 500001.002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (Soxhlet)	Total Number of containers	Special Instructions/Note:
	Preservation Code:									
-23	ATM-PCB-22-0003	9-25-23	1340	C	S Water			X		
-24	ATM-PCB-23-0003		1350		S Water			X		
-25	ATM-PCB-24-0003		1355		S Water			X		
-26	ATM-PCB-25-0003		1400		S Water			X		
-27	ATM-PCB-26-0003		1415		S Water			X		
-28	ATM-PCB-27-0003		1420		S Water			X		
-29	ATM-PCB-28-0003		1425		S Water			X		
-30	ATM-PCB-29-0003		1435					X		
-31	ATM-PCB-30-0003		1455					X		
-32	FD-02-092523		900					X		
-33	ATM-PCB-31-0003		1500					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: please send EQuIS EDD to dmgrathwohl@nobis-group.com

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-26-23 12:33			9/26/23 12:34	EM
2		9/26/23 14:30			9/26/23 14:30	EM
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.2 +0.2 1.2 PE/1.2 +0.2 1.4 PE6

Ver: 06/08/2021

14138

Chain of Custody Record

eurofins | Environment Testing

New England
Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Client Information	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: 5000001 002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue Mill	SSOW#:			

Analysis Requested

PCBs 6082 (SOXHLET)

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 6082 (SOXHLET)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
-34 ATM-PCB-32-0003	9-25-23	1510	C	S Water			X		
-35 ATM-PCB-33-0003	9-26-23	845		S Water			X		
-36 ATM-PCB-34-0003	9-26-23	850		S Water			X		
-37 ATM-PCB-35-0003	9-26-23	900		S Water		X	X		MS/MSD
-38 ATM-PCB-36-0003	9-26 23	930		S Water			X		
-39 ATM-PCB-50-0003		955		S Water			X		
-40 ATM-PCB-37-0003		940		S Water			X		
-41 ATM-PCB-38-0003		945					X		
-42 ATM-PCB-49-0003		1005					X		
-43 ATM-PCB-39-0003		1015					X		
-44 ATM-PCB-40-0003		1030					X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send PQLs EDD to dmcgrath@nobis-group.com

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-26-23 12:33			9/26/23 12:34	
2		9/26/23 14:30			9/26/23 14:30	EWG
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.2 +0.2 3.4 #6/1.2 +0.2 1.4 #5

14138

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10-3			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: S00001.002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

PCBs 8082 (soxhlet)

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X	X	
-45	ATM-PCB-41-0003	9-26-23	1035	C	Water				
-46	ATM-PCB-42-0003		1040		Water				
-47	ATM-PCB-43-0003		1045		Water				
-48	FD-03-92623		830		Water				
-49	ATM-PCB-44-0003		1050		Water				
-50	ATM-PCB-45-0003		1055		Water				
-51	ATM-PCB-46-0003		1105		Water				
-52	ATM-PCB-47-0003		1110						
-53	ATM-PCB-48-0003		1115				X		MS/MSD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: equis EDD to dmcgrath@nobis-group.com

Empty Kit Relinquished by	Date	Time.	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9-26-23 12:33		[signature]	9/26/23 12:34	[illegible]
[signature]	9/26/23 14:30	[illegible]	[signature]	9/26/23 14:30	GNE

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.2 +0.2 3.4 #6 / 1.2 +0.2 1.4 #6

Ver: 06/08/2021

10/3/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-14138-1

Login Number: 14138
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

May 8, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620101241
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review:

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 (mod.)

5/Soil Samples: 2023-MW-03-0002, 2023-MW-03-0204, 2023-MW-03-0406, 2023-MW-03-0608, 2023-MW-03-0810
1/Solid Trip Blank: Trip Blank-07

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 3, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D, Polychlorinated Biphenyls by EPA Method 8082, VPHs by MassDEP-VPH, MCP-14 Metals/Mercury by EPA Method 6010D/7471B, and PFAS by EPA Method 537 mod. by Eurofins New England in North Kingstown, RI, Eurofins Northeast in Amherst, NY (MassDEP-VPH analyses), and Eurofins Lancaster Laboratory in Lancaster, PA (for MCP-14 metals/mercury and PFAS analyses).

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020); USEPA's Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

The data were evaluated based on the following parameters:

*	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Preservation and Technical Holding Times
	•	Blanks
	•	Surrogates (organic analyses only)
NA	•	Internal Standards
NA	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
NA	•	Field Duplicates
NA	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
NA	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Reporting limits for non-detect 1,1,2,2-tetrachloroethane and dibromochloromethane results in sample 2023-MW-03-0406 exceeded the PALs of 0.02 mg/kg and 0.03 mg/kg, respectively, due to the sample being analyzed as a medium level sample. The laboratory noted in their case narrative that the low-level analysis of this sample purged poorly and therefore, the sample provided for medium-level analysis was used. In addition, RLs for non-detect thallium results exceeded the PAL of 8 mg/kg in three samples due to required sample dilutions. Site objectives may be impacted.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for laboratory blank contamination.

SVOCs:
Qualification of the data was not required.

PCBs:
Qualification of the data was not required.

MassDEP-VPH:
Qualification of the data was not required.

MCP-14 Metals and Mercury:
Qualification of the data was not required.

PFAS:
Results were qualified due to low surrogate recoveries.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Antimony	mg/kg	4.51 U	4.62 U	4.9 U	4.71 U	5.46 U
Arsenic	mg/kg	3.58	2.31 J	6.19	6.73	8.38
Barium	mg/kg	12.5	15.4	91.7	116	122
Beryllium	mg/kg	0.223 J	0.207 J	1.35	1.08	1.12
Cadmium	mg/kg	0.451 U	0.462 U	0.49 U	0.471 U	0.546 U
Chromium	mg/kg	3.34	3.72	26.9	35.5	36.2
Lead	mg/kg	3.19	2.8	8.91	11.3	11.9
Mercury	mg/kg	0.0677 U	0.0655 U	0.0695 U	0.0755 U	0.0773 U
Nickel	mg/kg	1.68	2.07	13.5	16.4	20.9
Selenium	mg/kg	4.51 U	4.62 U	4.9 U	2.2 J	3.3 J
Silver	mg/kg	0.902 U	0.925 U	0.981 U	0.943 U	1.09 U
Thallium	mg/kg	2.71 U	2.77 U	29.4 U	28.3 U	32.8 U
Vanadium	mg/kg	5.73	6.05	44.9	55.5	60
Zinc	mg/kg	8.9	9.59	54.7	67.9	81.3

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Aroclor 1016	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U
Aroclor 1221	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U
Aroclor 1232	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U
Aroclor 1242	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U
Aroclor 1248	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U
Aroclor 1254	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0485
Aroclor 1260	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U
Aroclor 1262	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U
Aroclor 1268	mg/kg	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
10:2 FTS	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.22 U	3.03 U	3.73 U	3.83 U	3.68 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
6:2 Fluorotelomer sulfonate	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
8:2 Fluorotelomer sulfonate	ug/kg	3.22 U	3.03 U	3.73 U	3.83 U	3.68 U
9Cl-PF3ONS	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.15 UJ	2.02 U	2.49 UJ	2.55 UJ	2.45 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.15 UJ	2.02 U	2.49 UJ	2.55 UJ	2.45 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
Perfluorodecane Sulfonate	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluoroheptane sulfonate	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorohexadecanoic acid	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorononanesulfonic acid	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorononanoic acid (PFNA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorooctadecanoic acid	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluorooctylsulfonamide	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluoropentanoic Acid	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
1,2,4-Trichlorobenzene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
1,2-Dichlorobenzene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
1,3-Dichlorobenzene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
1,4-Dichlorobenzene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
2,4,5-Trichlorophenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
2,4,6-Trichlorophenol	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
2,4-Dichlorophenol	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
2,4-Dimethylphenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
2,4-Dinitrophenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
2,4-Dinitrotoluene	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
2,6-Dinitrotoluene	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
2-Chloronaphthalene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
2-Chlorophenol	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
2-Methylnaphthalene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
2-Methylphenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
2-Nitroaniline	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
2-Nitrophenol	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
3 & 4 Methylphenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
3,3'-Dichlorobenzidine	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
3-Nitroaniline	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
4,6-Dinitro-2-methylphenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
4-Bromophenyl-phenylether	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
4-Chloro-3-methylphenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
4-Chloroaniline	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
4-Chlorophenyl-phenylether	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
4-Nitroaniline	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
4-Nitrophenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Acenaphthene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Acenaphthylene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Acetophenone	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Aniline	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Anthracene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Azobenzene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Benzidine	mg/kg	0.73 U	0.716 U	0.793 U	0.839 U	0.82 U
Benzo(a)anthracene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Benzo(a)pyrene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Benzo(b)fluoranthene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Benzo(g,h,i)perylene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Benzo(k)fluoranthene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Benzoic Acid	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzyl Alcohol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Bis(2-chloroethoxy)methane	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Bis(2-chloroethyl)ether	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
bis-(2-chloroisopropyl)ether	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Butylbenzylphthalate	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Carbazole	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Chrysene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Dibenz(a,h)anthracene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Dibenzofuran	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Diethylphthalate	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Dimethylphthalate	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Di-N-Butylphthalate	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Di-N-Octyl Phthalate	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Fluoranthene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Fluorene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Hexachlorobenzene	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Hexachlorobutadiene	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Hexachlorocyclopentadiene	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Hexachloroethane	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Isophorone	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
Naphthalene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Naphthalene, 1-methyl-	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Nitrobenzene	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U
N-Nitrosodiphenylamine	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Pentachloronitrobenzene	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Pentachlorophenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Phenanthrene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Phenol	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U
Pyrene	mg/kg	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U
Pyridine	mg/kg	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,1,1-Trichloroethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,1,2-Trichloroethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,1-Dichloroethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,1-Dichloroethene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,1-Dichloropropene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2,3-Trichlorobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2,3-Trichloropropane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2,4-Trichlorobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2,4-Trimethylbenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
1,2-Dibromoethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2-Dichlorobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2-Dichloroethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,2-Dichloropropane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,3,5-Trichlorobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,3,5-Trimethylbenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,3-Dichlorobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,3-Dichloropropane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
1,3-Dichloropropene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,4-Dichlorobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
1,4-Dioxane	mg/kg	0.0929 U	0.0888 U	1.03 U	0.104 U	0.0882 U
2,2-Dichloropropane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
2-Butanone	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
2-Chlorotoluene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
2-Hexanone	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
4-Chlorotoluene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
4-Isopropyltoluene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
4-Methyl-2-pentanone	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
Acetone	mg/kg	0.0464 U	0.0444 U	0.408 J	0.0519 U	0.0441 U
Acrylonitrile	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Benzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Bromobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Bromochloromethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Bromodichloromethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Bromoform	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Bromomethane	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
Carbon disulfide	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
Carbon tetrachloride	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Chlorobenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Chloroethane	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
Chloroform	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Chloromethane	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
cis-1,2-Dichloroethene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
cis-1,3-Dichloropropene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Dibromochloromethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Dibromomethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Dichlorodifluoromethane	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
Diethyl ether	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Diisopropyl Ether	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Ethanol	mg/kg	0.929 U	0.888 U	10.3 U	1.04 U	0.882 U
Ethylbenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Hexachlorobutadiene	mg/kg	0.00929 U	0.00888 U	0.0515 U	0.0104 U	0.00882 U
Isopropylbenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
m,p-Xylene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Methyl tert-butyl ether	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Methylene chloride	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
Naphthalene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
n-Butylbenzene	mg/kg	0.00929 U	0.00888 U	0.0515 U	0.0104 U	0.00882 U
n-Propylbenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
o-Xylene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
sec-Butylbenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Styrene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
tert-Amyl methyl ether	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
tert-Butyl Alcohol	mg/kg	0.0929 U	0.0888 U	1.03 U	0.104 U	0.0882 U
Tert-Butyl Ethyl Ether	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
tert-Butylbenzene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Tetrachloroethene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Tetrahydrofuran	mg/kg	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U
Toluene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
trans-1,2-Dichloroethene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
trans-1,3-Dichloropropene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
trans-1,4-Dichlorobutene	mg/kg	0.0232 U	0.0222 U	0.257 U	0.026 U	0.022 U
Trichloroethene	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Trichlorofluoromethane	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Vinyl chloride	mg/kg	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U
Xylene (total)	mg/kg	0.0139 U	0.0133 U	0.154 U	0.0156 U	0.0132 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10124-1	620-10124-2	620-10124-3	620-10124-4	620-10124-5
Field Sample ID		2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/03/23	03/03/23	03/03/23	03/03/23	03/03/23
Benzene	mg/kg	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U
C9-C10 Aromatics	mg/kg	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U
Ethylbenzene	mg/kg	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U
m,p-Xylene	mg/kg	0.0944 U	0.0895 U	0.097 U	0.103 U	0.0975 U
Methyl tert-butyl ether	mg/kg	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U
Naphthalene	mg/kg	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U
o-Xylene	mg/kg	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U
Toluene	mg/kg	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10124-6
Field Sample ID		Trip Blank-07
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/03/23
1,1,1,2-Tetrachloroethane	mg/kg	0.005 U
1,1,1-Trichloroethane	mg/kg	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U
1,1-Dichloroethane	mg/kg	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U
1,1-Dichloropropene	mg/kg	0.005 U
1,2,3-Trichlorobenzene	mg/kg	0.005 U
1,2,3-Trichloropropane	mg/kg	0.005 U
1,2,4-Trichlorobenzene	mg/kg	0.005 U
1,2,4-Trimethylbenzene	mg/kg	0.005 U
1,2-Dibromo-3-chloropropane	mg/kg	0.01 U
1,2-Dibromoethane	mg/kg	0.005 U
1,2-Dichlorobenzene	mg/kg	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U
1,3,5-Trichlorobenzene	mg/kg	0.005 U
1,3,5-Trimethylbenzene	mg/kg	0.005 U
1,3-Dichlorobenzene	mg/kg	0.005 U
1,3-Dichloropropane	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10124-6
Field Sample ID		Trip Blank-07
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/03/23
1,3-Dichloropropene	mg/kg	0.005 U
1,4-Dichlorobenzene	mg/kg	0.005 U
1,4-Dioxane	mg/kg	0.1 U
2,2-Dichloropropane	mg/kg	0.005 U
2-Butanone	mg/kg	0.01 U
2-Chlorotoluene	mg/kg	0.005 U
2-Hexanone	mg/kg	0.01 U
4-Chlorotoluene	mg/kg	0.005 U
4-Isopropyltoluene	mg/kg	0.005 U
4-Methyl-2-pentanone	mg/kg	0.01 U
Acetone	mg/kg	0.05 U
Acrylonitrile	mg/kg	0.005 U
Benzene	mg/kg	0.005 U
Bromobenzene	mg/kg	0.005 U
Bromochloromethane	mg/kg	0.005 U
Bromodichloromethane	mg/kg	0.005 U
Bromoform	mg/kg	0.005 U
Bromomethane	mg/kg	0.01 U
Carbon disulfide	mg/kg	0.01 U
Carbon tetrachloride	mg/kg	0.005 U
Chlorobenzene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10124-6
Field Sample ID		Trip Blank-07
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/03/23
Chloroethane	mg/kg	0.01 U
Chloroform	mg/kg	0.005 U
Chloromethane	mg/kg	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.005 U
cis-1,3-Dichloropropene	mg/kg	0.005 U
Dibromochloromethane	mg/kg	0.005 U
Dibromomethane	mg/kg	0.005 U
Dichlorodifluoromethane	mg/kg	0.01 U
Diethyl ether	mg/kg	0.005 U
Diisopropyl Ether	mg/kg	0.005 U
Ethanol	mg/kg	1 U
Ethylbenzene	mg/kg	0.005 U
Hexachlorobutadiene	mg/kg	0.01 U
Isopropylbenzene	mg/kg	0.005 U
m,p-Xylene	mg/kg	0.005 U
Methyl tert-butyl ether	mg/kg	0.005 U
Methylene chloride	mg/kg	0.01 U
Naphthalene	mg/kg	0.005 U
n-Butylbenzene	mg/kg	0.01 U
n-Propylbenzene	mg/kg	0.005 U
o-Xylene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10124-6
Field Sample ID		Trip Blank-07
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/03/23
sec-Butylbenzene	mg/kg	0.005 U
Styrene	mg/kg	0.005 U
tert-Amyl methyl ether	mg/kg	0.005 U
tert-Butyl Alcohol	mg/kg	0.1 U
Tert-Butyl Ethyl Ether	mg/kg	0.005 U
tert-Butylbenzene	mg/kg	0.005 U
Tetrachloroethene	mg/kg	0.005 U
Tetrahydrofuran	mg/kg	0.01 U
Toluene	mg/kg	0.005 U
trans-1,2-Dichloroethene	mg/kg	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U
trans-1,4-Dichlorobutene	mg/kg	0.025 U
Trichloroethene	mg/kg	0.005 U
Trichlorofluoromethane	mg/kg	0.005 U
Vinyl chloride	mg/kg	0.005 U
Xylene (total)	mg/kg	0.015 U

Data Review Qualification Actions
American Tissue Mill
SDG 620101241

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Chloroform	2023-MW-03-0406	Laboratory blank contamination	RL (U)	
SVOCs					
	Qualification of the data was not required.				
PCBs					
	Qualification of the data was not required.				
MassDEP-VPH					
	Qualification of the data was not required.				
MCP-14 Metals / Mercury					
	Qualification of the data was not required.				
PFAS					
	NMeFOSAA, NEtFOSAA	2023-MW-03-0002, 2023-MW-03-0406, 2023-MW-03-0608, 2023-MW-03-0810	Surrogate recovery	UJ	

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 04/18/2023
Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins New England, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (Metals and PFAS); Eurofins Northeast, Amherst, NY (MassDEP-VPH)
SDG: 620101241
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Five (5) soil samples were listed on the COC for SDG 620101241. One trip blank sample was also included on the COC. The samples were collected on 03/03/2023 and received at the Eurofins New England Laboratory on 03/06/2023 at 1.4 and 1.6 °C. Samples for MassDEP-VPH analysis were subsequently shipped to Eurofins Northeast Laboratory and samples for MCP-14 metals/mercury and PFAS analyses were shipped to Eurofins Lancaster Laboratory for analysis. Samples were received at Eurofins Northeast on 03/07/2023 at 2.3 °C. Samples were received at Eurofins Lancaster Laboratory on 03/07/2023 at 0.2 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-03-0002	620-10124-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-03-0204	620-10124-2	
2023-MW-03-0406	620-10124-3	
2023-MW-03-0608	620-10124-4	
2023-MW-03-0810	620-10124-5	
Trip Blank-07	620-10124-6	VOCs

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (soil) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for several additional VOCs were also reported by the laboratory. No actions are required. Note that sample 2023-MW-03-0406 (620-10124-3) was analyzed as a medium-level sample due to poor purging during the low-level analysis. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1'-biphenyl. Based on the QAPPA (February 2023), 1,1'-biphenyl is not a compound of concern for the site. Results for several additional SVOCs were also reported by the laboratory. No actions are required.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory. Results for MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

MassDEP-VPH: Results for all VPH parameters on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, copper, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which do not include these analytes.

PFAS: Results for all PFAS compounds on Table 2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for mercury; within 180 days for all other analytes) were met.

PFAS: Samples were extracted within the QAPP-specified holding time of 28 days from collection. Samples were analyzed within 40 days of extraction. No actions are taken.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Laboratory and Field Blanks

VOCs: Acetone was detected at < RL in the laboratory method blank 620-20616/3-A. This blank was associated with sample 2023-MW-03-0002 (620-10124-1). Acetone was not detected in the associated sample and no blank actions are required for acetone.

Chloroform was detected at < RL in method blank MB 620-20595/3-A. This blank was associated with the analysis of sample 2023-MW-03-0406 (620-10124-3). Chloroform was detected in the associated sample at < RL. Based on the National Functional Guidelines (NFGs, 2020), the detected chloroform result in sample 2023-MW-03-0406 was qualified as non-detect at the RL (RL [U]) due to laboratory blank contamination.

One trip blank is associated with the soil samples of this SDG (Trip Blank-07). Results for the trip blank were non-detect. No actions are required based on the trip blank results.

SVOCs: Pentachlorophenol was detected at < RL in method blank MB 620-20546/1-A. Results for pentachlorophenol were non-detect in all associated soil samples and no blank actions are required.

PCBs: Results for the PCB laboratory method blank were non-detect. No blank actions are required.

MassDEP-VPH: Naphthalene was detected at < RL in the VPH laboratory method blank MB 480-660942/1-A. Results for naphthalene were non-detect in the associated soil samples and no blank actions are required.

MCP-14 Metals/Mercury: Results for all metals and mercury laboratory method blanks were non-detect. No blank actions are required.

PFAS: Results for PFAS were non-detect in the laboratory method blank. No blank actions are required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 70-130% and no actions are required.

SVOC: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-130% for soil. No actions are required.

PCBs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 30-150% on both analytical columns. No actions are required.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.

PFAS: Percent recoveries of the surrogates d3-NMeFOSAA and d5-NEtFOSAA did not meet the Program QAPP limits of 50-150% in samples 2023-MW-03-0002 (620-10124-1), 2023-MW-03-0406 (620-10124-3), 2023-MW-03-0608 (620-10124-4), and 2023-MW-03-0810 (620-10124-5). Recoveries were all < 50% but > 10%. Results for all PFAS compounds were non-detect in the associated samples. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), the non-detect results for NMeFOSAA and NEtFOSAA are qualified as estimated (UJ) in samples 2023-MW-03-0002, 2023-MW-03-0406, 2023-MW-03-0608, and 2023-MW-03-0810 due to low surrogate recoveries.

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover. All percent LCS/LCSD recoveries meet the Program QAPP recovery limits of 70-130% except for the recoveries of dichlorodifluoromethane in LCS/LCSD pairs 620-20572/1-A and 2-A, 620-20595/1-A and 2-A, and 620-20616/1-A and 2-A, where the recoveries ranged from 54% to 64%. The MCP CAM identifies this compound as “potentially difficult” to recover; therefore, the recovery limits of 40-160% apply for this compound. Recoveries for dichlorodifluoromethane meet the expanded limits of 40-160% in all LCS/LCSD pairs and no action is required.

The recoveries of chloroethane and bromomethane exceeded the limits of 70-130% in LCS/LCSD pair 620-20675/1-A and 2-A, where the recoveries ranged from 131% to 143%. The MCP CAM identifies these compounds as “potentially difficult” to recover; therefore, the recovery limits of 40-160% apply for these compounds. Recoveries for chloroethane and bromomethane meet the expanded limits of 40-160% in the LCS/LCSD pair and no action is required.

SVOCs: LCS/LCSD percent recoveries meet the Program QAPP limits of 40-140% for base/neutral compounds and 30-130% for acid compounds in LCS/LCSD pair 620-20546/2-A and 3-A. RPDs met the QAPP limit of ≤ 30%. No actions are required.

PCBs: Percent recoveries of Aroclors 1016 and 1260 met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30% in the LCS/LCSD pair 620-20416/2-A and 3-A. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pair 480-660942/2-A and 3-A meet the Program QAPP recovery limits of 70-130%. All RPDs met the Program QAPP RPD limit of ≤ 25%. No actions are required.

MCP-14 Metals/Mercury: Percent recoveries for the metals and mercury LCS analyses were within the limits of 80-120%. The Program QAPP and MCP CAM recovery limits for soil are within vendor 95% confidence limits. Vendor limits were not presented in the laboratory report; the laboratory used 80-120% as recovery limits based on MassDEP CAM Method 6010D for aqueous samples. Professional judgement was used to accept sample results for metals and mercury unqualified for LCS performance since recoveries were all within 80-120% limits.

PFAS: Percent recoveries for the PFAS LCS analyses met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS results. An LCSD was not analyzed for the PFAS analysis. Per the Program QAPP, an LCSD for the PFAS analysis is only required if MSD analyses are not provided. MS/MSD analyses were not requested for this SDG and were not provided in the laboratory report. Professional judgement based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), which states that it is not likely that data qualification will be warranted if the frequency requirements are not met, to accept the PFAS results without qualification since the recoveries were acceptable in the LCS.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix, unless otherwise indicated.

MS/MSD samples were not submitted with this SDG. No action is required.

9. Laboratory Duplicates (metals only)

Laboratory duplicate analyses were not performed due to the small number of samples in this SDG. Laboratory duplicate and MS/MSD analyses were included in the remaining soil sample SDGs for the site. LCS/LCSD analyses were used to evaluate accuracy and precision for this SDG. No actions are taken.

10. Serial Dilution (metals only)

Serial dilution analyses were not performed for this SDG. No actions are required.

11. Field Duplicate Precision

Field duplicate samples were not submitted with the samples of this SDG. No actions are required.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections. No action is taken.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

RLs for non-detect results for SVOCs, PCBs, and MassDEP VHP analyses met the Project Action Levels (PALs) for the site.

RLs for non-detect VOC results meet the PALs for the site except for the 1,1,2,2-tetrachloroethane and dibromochloromethane RLs in sample 2023-MW-03-0406 (620-10124-3), where the RLs were 0.0515 mg/kg for both compounds. The PALs are 0.02 mg/kg (1,1,2,2-tetrachloroethane) and 0.03 mg/kg (dibromochloromethane). As discussed in the laboratory's case narrative, sample 2023-MW-03-0406 was analyzed as a medium-level sample (with higher RLs) due to poor purging in the low-level analysis. Site objectives may be impacted.

RLs for non-detect MCP-14 metals/mercury results met the PALs for the site except for the thallium RLs in samples 2023-MW-03-0406, 2023-MW-03-0608, and 2023-MW-03-0810, where the PAL of 8 mg/kg was exceeded (29.4 mg/kg, 28.3 mg/kg, and 32.8 mg/kg, respectively). Elevated RLs for thallium are due to the dilution factor of 10x that was required to report results for these samples. Site objectives may be impacted.

Note there are no PALs associated with the PFAS analysis.

16. Other

Region 1 Supplement (2020) criterion for percent solids content (> 30%) was met for all soil samples. No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

10124

Chain of Custody Record

623638

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620-10124 Chain of Custody

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Denis McGrath	Site Contact:	Date:	COC No
Company Name Nobis Group	Tel/Email: dmcgrath@nobis-group.com	Lab Contact:	Carrier:	____ of ____ COCs
Address 585 Middlesex St	Analysis Turnaround Time			Sampler: BF+KM
City/State/Zip Lowell, MA 01851	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 978-399-9651	TAT if different from Below Stnd.			Walk-in Client:
Fax	☐ 2 weeks			Lab Sampling
Project Name American Tissue Mill	☐ 1 week			
Site Templeton, MA	☐ 2 days			Job / SDG No
P O # 500001.002	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs 8260	SVOCs 8270	VPH MassDEP	PCBs 8082(soxhlet)	Metals 6010/6020	PFAS 537	Sample Specific Notes
01	2023-MW-03-0002'	3/3/23	14:20	G	S	7			✓	✓	✓	✓	✓	✓	
02	2023-MW-03-0204'	↓	14:25	↓	↓	7			✓	✓	✓	✓	✓	✓	
03	2023-MW-03-0406'	↓	14:30	↓	↓	7			✓	✓	✓	✓	✓	✓	
04	2023-MW-03-0608'	↓	14:35	↓	↓	7			✓	✓	✓	✓	✓	✓	
05	2023-MW-03-0810'	↓	14:40	↓	↓	7			✓	✓	✓	✓	✓	✓	
06	TRIP BLANK - 07	↓	—	↓	↓	3			✓						
									6		6				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MEOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Equis EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____

Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
[signature]	Nobis	3/6/22 12:30	[signature]	EM	3/6/23 12:30
[signature]	EM	3/6/23 14:47	[signature]	GNG	3/6/23 14:47
[signature]			Received in Laboratory by:		

1.4 +0.2 1.6 #6

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8537.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10124-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/15/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-03-0002' (620-10124-1)	3/3/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-03-0204' (620-10124-2)	3/3/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-03-0406' (620-10124-3)	3/3/23	14:30 Eastern		Solid			X	X	X	2	
2023-MW-03-0608' (620-10124-4)	3/3/23	14:35 Eastern		Solid			X	X	X	2	
2023-MW-03-0810' (620-10124-5)	3/3/23	14:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/6/23 15:48	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/7/23 0955	Company ELAT

Custody Seals Intact: ○ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2

mb

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8538.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10124-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/15/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
2023-MW-03-0002' (620-10124-1)	3/3/23	14:20 Eastern		Solid			X	X	1	
2023-MW-03-0204' (620-10124-2)	3/3/23	14:25 Eastern		Solid			X	X	1	
2023-MW-03-0406' (620-10124-3)	3/3/23	14:30 Eastern		Solid			X	X	1	
2023-MW-03-0608' (620-10124-4)	3/3/23	14:35 Eastern		Solid			X	X	1	
2023-MW-03-0810' (620-10124-5)	3/3/23	14:40 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/4/23 16:40	ENE	Fedex		
2				[signature]	3-7-23 1000	TAB
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3 ICE

Ver: 06/08/2021

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 3/23/2023 11:48:38 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10124-1

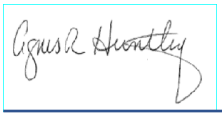
Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10124-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10124-1 through 620-10124-6

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/23/2023

Job ID: 620-10124-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10124-1

Receipt
The samples were received on 3/6/2023 2:47 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20572 and analytical batch 620-20544 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1,2,2-Tetrachloroethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, 2-Methyl-2-propanol, Tetrahydrofuran, Tert-butyl ethyl ether, Isopropyl ether, Methyl tert-butyl ether, and Tert-amyl methyl ether.
(CCVIS 620-20544/3)

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20595 and analytical batch 620-20596 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The following sample experienced a poor purge on the initial low level analysis. No usable data was obtained and no second DI vial was received. The reported values are from the high level volatile analysis: 2023-MW-03-0406' (620-10124-3).

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20616 and analytical batch 620-20617 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-20675 and analytical batch 620-20676 recovered outside control limits for the following analyte: Chloroethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-20675 and analytical batch 620-20676 recovered outside control limits for the following analytes: Chloroethane and Bromomethane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20616 and analytical batch 620-20617 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20675 and analytical batch 620-20676 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20342 and 620-20675 and analytical batch 620-20676 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix

Job ID: 620-10124-1 (Continued)

Laboratory: Eurofins New England (Continued)

interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20616 and analytical batch 620-20617 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20626 recovered above the upper control limit for Aniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 620-20626/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method MAVPH: The method blank for preparation batch 480-660942 and analytical batch 480-660951 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Methods 8082, 8082A: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following CCVs were outside acceptance limits (high biased) on the primary column: (CCV 620-20438/60). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-03-0204' (620-10124-2), 2023-MW-03-0406' (620-10124-3), 2023-MW-03-0608' (620-10124-4) and 2023-MW-03-0810' (620-10124-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002' — Lab Sample ID: 620-10124-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.58		2.71	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	12.5		0.451	0.135	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.223	J	0.451	0.0902	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.34		1.35	0.316	mg/Kg	1	☼	6010D	Total/NA
Lead	3.19		1.35	0.541	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.68		0.902	0.235	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.73		0.902	0.388	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.90		1.80	0.722	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0204' — Lab Sample ID: 620-10124-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.31	J	2.77	1.29	mg/Kg	1	☼	6010D	Total/NA
Barium	15.4		0.462	0.139	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.207	J	0.462	0.0925	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.72		1.39	0.324	mg/Kg	1	☼	6010D	Total/NA
Lead	2.80		1.39	0.555	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.07		0.925	0.240	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.05		0.925	0.398	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.59		1.85	0.740	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0406' — Lab Sample ID: 620-10124-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - ME	0.408	J	0.515	0.0648	mg/Kg	1	☼	8260C	Total/NA
Chloroform - ME	0.0101	J B	0.0515	0.00607	mg/Kg	1	☼	8260C	Total/NA
Arsenic	6.19		2.94	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	91.7		0.490	0.147	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.35		0.490	0.0981	mg/Kg	1	☼	6010D	Total/NA
Chromium	26.9		1.47	0.343	mg/Kg	1	☼	6010D	Total/NA
Lead	8.91		1.47	0.588	mg/Kg	1	☼	6010D	Total/NA
Nickel	13.5		0.981	0.255	mg/Kg	1	☼	6010D	Total/NA
Vanadium	44.9		0.981	0.422	mg/Kg	1	☼	6010D	Total/NA
Zinc	54.7		1.96	0.784	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0608' — Lab Sample ID: 620-10124-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.73		2.83	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	116		0.471	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.08		0.471	0.0943	mg/Kg	1	☼	6010D	Total/NA
Chromium	35.5		1.41	0.330	mg/Kg	1	☼	6010D	Total/NA
Lead	11.3		1.41	0.566	mg/Kg	1	☼	6010D	Total/NA
Nickel	16.4		0.943	0.245	mg/Kg	1	☼	6010D	Total/NA
Selenium	2.20	J	4.71	1.41	mg/Kg	1	☼	6010D	Total/NA
Vanadium	55.5		0.943	0.405	mg/Kg	1	☼	6010D	Total/NA
Zinc	67.9		1.89	0.754	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0810' — Lab Sample ID: 620-10124-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0485		0.0256	0.0199	mg/Kg	1	☼	8082	Total/NA
Arsenic	8.38		3.28	1.53	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client Sample ID: 2023-MW-03-0810' (Continued) Lab Sample ID: 620-10124-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	122		0.546	0.164	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.12		0.546	0.109	mg/Kg	1	☼	6010D	Total/NA
Chromium	36.2		1.64	0.382	mg/Kg	1	☼	6010D	Total/NA
Lead	11.9		1.64	0.655	mg/Kg	1	☼	6010D	Total/NA
Nickel	20.9		1.09	0.284	mg/Kg	1	☼	6010D	Total/NA
Selenium	3.30	J	5.46	1.64	mg/Kg	1	☼	6010D	Total/NA
Vanadium	60.0		1.09	0.470	mg/Kg	1	☼	6010D	Total/NA
Zinc	81.3		2.18	0.874	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-07 Lab Sample ID: 620-10124-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002'
Date Collected: 03/03/23 14:20
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-1
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00464	0.00303	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Acetone	ND		0.0464	0.0104	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Acrylonitrile	ND		0.00464	0.00279	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Benzene	ND		0.00464	0.00310	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromobenzene	ND		0.00464	0.00309	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromochloromethane	ND		0.00464	0.00264	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromodichloromethane	ND		0.00464	0.00341	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromoform	ND		0.00464	0.00355	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromomethane	ND		0.00929	0.00579	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2-Butanone (MEK)	ND		0.00929	0.00370	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
n-Butylbenzene	ND		0.00929	0.00498	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
sec-Butylbenzene	ND		0.00464	0.00374	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
tert-Butylbenzene	ND		0.00464	0.00366	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Carbon disulfide	ND		0.00929	0.00326	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Carbon tetrachloride	ND		0.00464	0.00293	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chlorobenzene	ND		0.00464	0.00340	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chloroethane	ND		0.00929	0.00341	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chloroform	ND		0.00464	0.00312	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chloromethane	ND		0.00929	0.00357	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2-Chlorotoluene	ND		0.00464	0.00370	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
4-Chlorotoluene	ND		0.00464	0.00403	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00929	0.00394	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Dibromochloromethane	ND		0.00464	0.00307	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dibromoethane (EDB)	ND		0.00464	0.00334	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Dibromomethane	ND		0.00464	0.00273	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dichlorobenzene	ND		0.00464	0.00431	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3-Dichlorobenzene	ND		0.00464	0.00373	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,4-Dichlorobenzene	ND		0.00464	0.00440	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00929	0.00249	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1-Dichloroethane	ND		0.00464	0.00315	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dichloroethane	ND		0.00464	0.00313	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1-Dichloroethene	ND		0.00464	0.00284	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
cis-1,2-Dichloroethene	ND		0.00464	0.00268	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
trans-1,2-Dichloroethene	ND		0.00464	0.00289	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dichloropropane	ND		0.00464	0.00307	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3-Dichloropropane	ND		0.00464	0.00355	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2,2-Dichloropropane	ND		0.00464	0.00320	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1-Dichloropropene	ND		0.00464	0.00316	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
cis-1,3-Dichloropropene	ND		0.00464	0.00303	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
trans-1,3-Dichloropropene	ND		0.00464	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethylbenzene	ND		0.00464	0.00332	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Hexachlorobutadiene	ND		0.00929	0.00467	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2-Hexanone (MBK)	ND		0.00929	0.00273	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Isopropylbenzene	ND		0.00464	0.00351	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
4-Isopropyltoluene	ND		0.00464	0.00456	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Methyl tert-butyl ether	ND		0.00464	0.00268	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00929	0.00300	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Methylene Chloride	ND		0.00929	0.00249	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Naphthalene	ND		0.00464	0.00420	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00464	0.00393	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Styrene	ND		0.00464	0.00360	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,1,2-Tetrachloroethane	ND		0.00464	0.00348	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,2,2-Tetrachloroethane	ND		0.00464	0.00425	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Tetrachloroethene	ND		0.00464	0.00258	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Toluene	ND		0.00464	0.00294	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,3-Trichlorobenzene	ND		0.00464	0.00392	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,4-Trichlorobenzene	ND		0.00464	0.00428	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3,5-Trichlorobenzene	ND		0.00464	0.00441	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,1-Trichloroethane	ND		0.00464	0.00317	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,2-Trichloroethane	ND		0.00464	0.00350	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Trichloroethene	ND		0.00464	0.00312	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00464	0.00355	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,3-Trichloropropane	ND		0.00464	0.00412	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,4-Trimethylbenzene	ND		0.00464	0.00393	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3,5-Trimethylbenzene	ND		0.00464	0.00395	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Vinyl chloride	ND		0.00464	0.00283	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
m,p-Xylene	ND		0.00464	0.00634	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
o-Xylene	ND		0.00464	0.00339	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Tetrahydrofuran	ND		0.00929	0.00235	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethyl ether	ND		0.00464	0.00244	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Tert-amyl methyl ether	ND		0.00464	0.00367	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethyl tert-butyl ether	ND		0.00464	0.00306	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
di-Isopropyl ether	ND		0.00464	0.00332	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
tert-Butanol	ND		0.0929	0.0249	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,4-Dioxane	ND		0.0929	0.0289	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
trans-1,4-Dichloro-2-butene	ND		0.0232	0.00343	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethanol	ND		0.929	0.0576	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3-Dichloropropene, Total	ND		0.00464	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Xylenes, Total	ND		0.0139	0.00464	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.365	0.0649	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,2,4-Trichlorobenzene	ND		0.365	0.0836	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,2-Dichlorobenzene	ND		0.365	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,3-Dichlorobenzene	ND		0.365	0.0884	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,4-Dichlorobenzene	ND		0.365	0.0859	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1-Methylnaphthalene	ND		0.0738	0.0619	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4,5-Trichlorophenol	ND		0.365	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4,6-Trichlorophenol	ND		0.185	0.0451	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4-Dichlorophenol	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4-Dimethylphenol	ND		0.365	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4-Dinitrophenol	ND		0.365	0.0960	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002'
Date Collected: 03/03/23 14:20
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-1
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,6-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Chloronaphthalene	ND		0.365	0.0844	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Chlorophenol	ND		0.185	0.0755	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Methylnaphthalene	ND		0.0738	0.0545	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Methylphenol	ND		0.365	0.0533	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Nitroaniline	ND		0.365	0.0347	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Nitrophenol	ND		0.185	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
3 & 4 Methylphenol	ND		0.365	0.0691	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
3,3'-Dichlorobenzidine	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
3-Nitroaniline	ND		0.365	0.0326	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4,6-Dinitro-2-methylphenol	ND		0.365	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Bromophenyl phenyl ether	ND		0.365	0.0412	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Chloro-3-methylphenol	ND		0.365	0.0714	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Chloroaniline	ND		0.185	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Chlorophenyl phenyl ether	ND		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Nitroaniline	ND		0.185	0.0583	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Nitrophenol	ND		0.365	0.127	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Acenaphthene	ND		0.0738	0.0588	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Acenaphthylene	ND		0.0738	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Acetophenone	ND		0.185	0.0450	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Aniline	ND		0.365	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Anthracene	ND		0.0738	0.0427	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Azobenzene/Diphenyldiazene	ND		0.365	0.0623	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzidine	ND		0.730	0.108	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[a]anthracene	ND		0.0738	0.0415	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[a]pyrene	ND		0.0738	0.0528	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[b]fluoranthene	ND		0.0738	0.0612	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[g,h,i]perylene	ND		0.0738	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[k]fluoranthene	ND		0.0738	0.0574	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzoic acid	ND		0.365	0.251	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzyl alcohol	ND		0.365	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Bis(2-chloroethoxy)methane	ND		0.365	0.0635	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Bis(2-chloroethyl)ether	ND		0.185	0.0604	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
bis (2-chloroisopropyl) ether	ND		0.185	0.0822	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Bis(2-ethylhexyl) phthalate	ND		0.185	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Butyl benzyl phthalate	ND		0.365	0.0366	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Carbazole	ND		0.185	0.0483	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Chrysene	ND		0.0738	0.0417	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Dibenz(a,h)anthracene	ND		0.0738	0.0563	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Dibenzofuran	ND		0.185	0.0639	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Diethyl phthalate	ND		0.365	0.0400	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Dimethyl phthalate	ND		0.365	0.0476	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Di-n-butyl phthalate	ND		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Di-n-octyl phthalate	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Fluoranthene	ND		0.0738	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Fluorene	ND		0.0738	0.0673	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Hexachlorobenzene	ND		0.185	0.0512	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Hexachlorobutadiene	ND		0.185	0.0921	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.185	0.0706	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Hexachloroethane	ND		0.185	0.0725	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0738	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Isophorone	ND		0.185	0.0505	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Naphthalene	ND		0.0738	0.0708	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Nitrobenzene	ND		0.185	0.0853	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
N-Nitrosodimethylamine	ND		0.185	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
N-Nitrosodi-n-propylamine	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
N-Nitrosodiphenylamine	ND		0.365	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pentachloronitrobenzene	ND		0.365	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pentachlorophenol	ND		0.365	0.149	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Phenanthrene	ND		0.0738	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Phenol	ND		0.365	0.0752	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pyrene	ND		0.0738	0.0407	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pyridine	ND		0.365	0.0864	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
2-Fluorophenol (Surr)	*92*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.236	0.121	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.236	0.101	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Ethylbenzene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Methyl tert-butyl ether	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
m,p-Xylene	ND		0.0944	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Naphthalene	ND		0.0472	0.0321	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
o-Xylene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Toluene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
C5-C8 Aliphatics (unadjusted)	ND		0.236	0.121	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
C9-C10 Aromatics	ND		0.236	0.0331	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
C9-C12 Aliphatics (unadjusted)	ND		0.236	0.101	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:14*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:14*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1254	ND		0.0218	0.0170	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoroheptanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorononanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorodecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorotridecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorotetradecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorobutanesulfonic acid	ND		2.15	0.430	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorohexanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NEtFOSAA	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NMeFOSAA	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
10:2 FTS	ND		2.15	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoropentanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoroheptanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorononanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorodecanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctanesulfonamide	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorohexadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorobutanoic acid	ND		2.15	0.859	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoropentanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NMeFOSE	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NMeFOSA	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NEtFOSE	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NEtFOSA	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
HFPODA	ND		2.15	1.07	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
DONA	ND		3.22	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
9Cl-PF3ONS	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
11Cl-PF3OUdS	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorododecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
4:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoroundecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
8:2 Fluorotelomer sulfonic acid	ND		3.22	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
M2-8:2 FTS	*70*		*15 - 200*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
M2-6:2 FTS	*81*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C5 PFHxA	*87*		*10 - 174*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C4 PFHpA	*85*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C8 PFOA	*86*		*26 - 159*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C9 PFNA	*91*		*26 - 165*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C6 PFDA	*82*		*26 - 161*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C7 PFUnA	*80*		*12 - 173*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C2 PFTeDA	*76*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C3 PFHxS	*91*		*24 - 171*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C8 PFOS	*96*		*41 - 154*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d3-NMeFOSAA	*11*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d5-NEtFOSAA	*14*		*10 - 193*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C8 FOSA	*88*		*14 - 163*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C4 PFBA	*83*		*28 - 153*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C5 PFPeA	*82*		*24 - 161*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d7-N-MeFOSE-M	*84*		*10 - 179*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d3-NMePFOSA	*86*		*10 - 175*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d9-N-EtFOSE-M	*82*		*10 - 185*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d5-NEtPFOSA	*87*		*10 - 180*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C3 HFPO-DA	*78*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.51	1.53	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Arsenic	**3.58**		2.71	1.26	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Barium	**12.5**		0.451	0.135	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Beryllium	**0.223**	**J**	0.451	0.0902	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Cadmium	ND		0.451	0.0902	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Chromium	**3.34**		1.35	0.316	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Lead	**3.19**		1.35	0.541	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Nickel	**1.68**		0.902	0.235	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Selenium	ND		4.51	1.35	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Silver	ND	^3+	0.902	0.361	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Thallium	ND		2.71	1.17	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Vanadium	**5.73**		0.902	0.388	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Zinc	**8.90**		1.80	0.722	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0677	0.0226	mg/Kg	☼	03/09/23 00:35	03/09/23 08:29	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002'
Date Collected: 03/03/23 14:20
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-1
Matrix: Solid
Percent Solids: 88.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	88.7		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0204'
Date Collected: 03/03/23 14:25
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-2
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00444	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Acetone	ND		0.0444	0.00994	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Acrylonitrile	ND		0.00444	0.00266	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Benzene	ND		0.00444	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromobenzene	ND		0.00444	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromochloromethane	ND		0.00444	0.00252	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromodichloromethane	ND		0.00444	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromoform	ND		0.00444	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromomethane	ND		0.00888	0.00553	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2-Butanone (MEK)	ND		0.00888	0.00353	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
n-Butylbenzene	ND		0.00888	0.00476	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
sec-Butylbenzene	ND		0.00444	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
tert-Butylbenzene	ND		0.00444	0.00350	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Carbon disulfide	ND		0.00888	0.00312	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Carbon tetrachloride	ND		0.00444	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chlorobenzene	ND		0.00444	0.00325	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chloroethane	ND		0.00888	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chloroform	ND		0.00444	0.00298	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chloromethane	ND		0.00888	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2-Chlorotoluene	ND		0.00444	0.00353	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
4-Chlorotoluene	ND		0.00444	0.00385	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00888	0.00376	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Dibromochloromethane	ND		0.00444	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dibromoethane (EDB)	ND		0.00444	0.00319	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Dibromomethane	ND		0.00444	0.00261	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dichlorobenzene	ND		0.00444	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3-Dichlorobenzene	ND		0.00444	0.00356	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,4-Dichlorobenzene	ND		0.00444	0.00421	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00888	0.00238	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1-Dichloroethane	ND		0.00444	0.00301	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dichloroethane	ND		0.00444	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1-Dichloroethene	ND		0.00444	0.00272	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
cis-1,2-Dichloroethene	ND		0.00444	0.00257	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
trans-1,2-Dichloroethene	ND		0.00444	0.00276	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dichloropropane	ND		0.00444	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3-Dichloropropane	ND		0.00444	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2,2-Dichloropropane	ND		0.00444	0.00306	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1-Dichloropropene	ND		0.00444	0.00302	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
cis-1,3-Dichloropropene	ND		0.00444	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
trans-1,3-Dichloropropene	ND		0.00444	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethylbenzene	ND		0.00444	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Hexachlorobutadiene	ND		0.00888	0.00446	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2-Hexanone (MBK)	ND		0.00888	0.00261	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Isopropylbenzene	ND		0.00444	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
4-Isopropyltoluene	ND		0.00444	0.00436	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Methyl tert-butyl ether	ND		0.00444	0.00256	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.00888	0.00287	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Methylene Chloride	ND		0.00888	0.00238	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Naphthalene	ND		0.00444	0.00401	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00444	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Styrene	ND		0.00444	0.00343	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,1,2-Tetrachloroethane	ND		0.00444	0.00333	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,2,2-Tetrachloroethane	ND		0.00444	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Tetrachloroethene	ND		0.00444	0.00247	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Toluene	ND		0.00444	0.00281	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,3-Trichlorobenzene	ND		0.00444	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,4-Trichlorobenzene	ND		0.00444	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3,5-Trichlorobenzene	ND		0.00444	0.00422	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,1-Trichloroethane	ND		0.00444	0.00303	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,2-Trichloroethane	ND		0.00444	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Trichloroethene	ND		0.00444	0.00298	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00444	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,3-Trichloropropane	ND		0.00444	0.00394	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,4-Trimethylbenzene	ND		0.00444	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3,5-Trimethylbenzene	ND		0.00444	0.00377	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Vinyl chloride	ND		0.00444	0.00271	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
m,p-Xylene	ND		0.00444	0.00606	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
o-Xylene	ND		0.00444	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Tetrahydrofuran	ND		0.00888	0.00225	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethyl ether	ND		0.00444	0.00233	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Tert-amyl methyl ether	ND		0.00444	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethyl tert-butyl ether	ND		0.00444	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
di-Isopropyl ether	ND		0.00444	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
tert-Butanol	ND		0.0888	0.0238	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,4-Dioxane	ND		0.0888	0.0276	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
trans-1,4-Dichloro-2-butene	ND		0.0222	0.00328	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethanol	ND		0.888	0.0550	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3-Dichloropropene, Total	ND		0.00444	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Xylenes, Total	ND		0.0133	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.358	0.0637	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,2,4-Trichlorobenzene	ND		0.358	0.0820	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,2-Dichlorobenzene	ND		0.358	0.0690	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,3-Dichlorobenzene	ND		0.358	0.0867	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,4-Dichlorobenzene	ND		0.358	0.0843	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1-Methylnaphthalene	ND		0.0723	0.0607	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4,5-Trichlorophenol	ND		0.358	0.0410	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4,6-Trichlorophenol	ND		0.181	0.0443	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4-Dichlorophenol	ND		0.181	0.0721	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4-Dimethylphenol	ND		0.358	0.0525	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4-Dinitrophenol	ND		0.358	0.0941	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1

Client: Nobis Engineering, Inc.
Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0204'
Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25
Matrix: Solid
Date Received: 03/06/23 14:47
Percent Solids: 90.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,6-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Chloronaphthalene	ND		0.358	0.0828	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Chlorophenol	ND		0.181	0.0741	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Methylnaphthalene	ND		0.0723	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Methylphenol	ND		0.358	0.0523	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Nitroaniline	ND		0.358	0.0341	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Nitrophenol	ND		0.181	0.0643	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
3 & 4 Methylphenol	ND		0.358	0.0678	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
3,3'-Dichlorobenzidine	ND		0.358	0.0591	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
3-Nitroaniline	ND		0.358	0.0320	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4,6-Dinitro-2-methylphenol	ND		0.358	0.0643	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Bromophenyl phenyl ether	ND		0.358	0.0405	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Chloro-3-methylphenol	ND		0.358	0.0701	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Chloroaniline	ND		0.181	0.0274	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Chlorophenyl phenyl ether	ND		0.358	0.0383	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Nitroaniline	ND		0.181	0.0572	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Nitrophenol	ND		0.358	0.125	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Acenaphthene	ND		0.0723	0.0577	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Acenaphthylene	ND		0.0723	0.0475	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Acetophenone	ND		0.181	0.0441	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Aniline	ND		0.358	0.0274	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Anthracene	ND		0.0723	0.0419	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Azobenzene/Diphenyldiazene	ND		0.358	0.0611	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzidine	ND		0.716	0.106	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[a]anthracene	ND		0.0723	0.0407	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[a]pyrene	ND		0.0723	0.0517	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[b]fluoranthene	ND		0.0723	0.0600	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[g,h,i]perylene	ND		0.0723	0.0565	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[k]fluoranthene	ND		0.0723	0.0563	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzoic acid	ND		0.358	0.246	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzyl alcohol	ND		0.358	0.0649	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Bis(2-chloroethoxy)methane	ND		0.358	0.0623	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Bis(2-chloroethyl)ether	ND		0.181	0.0592	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
bis (2-chloroisopropyl) ether	ND		0.181	0.0806	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Bis(2-ethylhexyl) phthalate	ND		0.181	0.0461	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Butyl benzyl phthalate	ND		0.358	0.0359	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Carbazole	ND		0.181	0.0474	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Chrysene	ND		0.0723	0.0409	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Dibenz(a,h)anthracene	ND		0.0723	0.0552	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Dibenzofuran	ND		0.181	0.0627	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Diethyl phthalate	ND		0.358	0.0393	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Dimethyl phthalate	ND		0.358	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Di-n-butyl phthalate	ND		0.358	0.0383	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Di-n-octyl phthalate	ND		0.358	0.0591	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Fluoranthene	ND		0.0723	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Fluorene	ND		0.0723	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Hexachlorobenzene	ND		0.181	0.0502	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Hexachlorobutadiene	ND		0.181	0.0904	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.181	0.0692	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Hexachloroethane	ND		0.181	0.0712	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Indeno[1,2,3-cd]pyrene	ND		0.0723	0.0614	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Isophorone	ND		0.181	0.0496	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Naphthalene	ND		0.0723	0.0694	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Nitrobenzene	ND		0.181	0.0836	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
N-Nitrosodimethylamine	ND		0.181	0.0475	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
N-Nitrosodi-n-propylamine	ND		0.181	0.0721	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
N-Nitrosodiphenylamine	ND		0.358	0.0457	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pentachloronitrobenzene	ND		0.358	0.0565	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pentachlorophenol	ND		0.358	0.146	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Phenanthrene	ND		0.0723	0.0410	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Phenol	ND		0.358	0.0738	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pyrene	ND		0.0723	0.0399	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pyridine	ND		0.358	0.0847	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
2-Fluorophenol (Surr)	*85*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
Phenol-d5 (Surr)	*71*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
Terphenyl-d14	*107*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:58*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.224	0.115	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.224	0.0958	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Ethylbenzene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Methyl tert-butyl ether	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
m,p-Xylene	ND		0.0895	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Naphthalene	ND		0.0448	0.0304	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
o-Xylene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Toluene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
C5-C8 Aliphatics (unadjusted)	ND		0.224	0.115	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
C9-C10 Aromatics	ND		0.224	0.0313	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
C9-C12 Aliphatics (unadjusted)	ND		0.224	0.0958	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:53*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:53*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0216	0.0155	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1221	ND		0.0216	0.00637	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1232	ND		0.0216	0.00598	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1

Client Sample ID: 2023-MW-03-0204'
Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25
Matrix: Solid
Date Received: 03/06/23 14:47
Percent Solids: 90.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0216	0.00341	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1248	ND		0.0216	0.00674	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1254	ND		0.0216	0.0168	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1262	ND		0.0216	0.00503	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1260	ND		0.0216	0.00464	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1268	ND		0.0216	0.00459	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoroheptanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorononanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorodecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorotridecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorotetradecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorobutanesulfonic acid	ND		2.02	0.403	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorohexanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NEtFOSAA	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NMeFOSAA	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
10:2 FTS	ND		2.02	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoropentanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoroheptanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorononanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorodecanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctanesulfonamide	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorohexadecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctadecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorobutanoic acid	ND		2.02	0.807	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoropentanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NMeFOSE	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NMeFOSA	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NEtFOSE	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NEtFOSA	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
HFPODA	ND		2.02	1.01	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
DONA	ND		3.03	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
9Cl-PF3ONS	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
11Cl-PF3OUdS	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorododecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.02	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoroundecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.02	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.03	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
M2-8:2 FTS	*90*		*15 - 200*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
M2-6:2 FTS	*91*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C4 PFHpA	*105*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C8 PFOA	*97*		*26 - 159*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C9 PFNA	*94*		*26 - 165*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C6 PFDA	*94*		*26 - 161*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C7 PFUnA	*88*		*12 - 173*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C2-PFDoDA	*87*		*11 - 166*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C3 PFBS	*89*		*27 - 179*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C8 PFOS	*92*		*41 - 154*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d3-NMeFOSAA	*59*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d5-NEtFOSAA	*61*		*10 - 193*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C8 FOSA	*87*		*14 - 163*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C4 PFBA	*95*		*28 - 153*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C5 PFPeA	*93*		*24 - 161*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d9-N-EtFOSE-M	*77*		*10 - 185*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.62	1.57	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Arsenic	**2.31**	**J**	2.77	1.29	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Barium	**15.4**		0.462	0.139	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Beryllium	**0.207**	**J**	0.462	0.0925	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Cadmium	ND		0.462	0.0925	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Chromium	**3.72**		1.39	0.324	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Lead	**2.80**		1.39	0.555	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Nickel	**2.07**		0.925	0.240	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Selenium	ND		4.62	1.39	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Silver	ND	^3+	0.925	0.370	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Thallium	ND		2.77	1.20	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Vanadium	**6.05**		0.925	0.398	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Zinc	**9.59**		1.85	0.740	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0655	0.0218	mg/Kg	☼	03/09/23 00:35	03/09/23 08:31	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	90.1		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0406'
Date Collected: 03/03/23 14:30
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-3
Matrix: Solid
Percent Solids: 79.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0515	0.0282	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Acetone	**0.408**	**J**	0.515	0.0648	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Acrylonitrile	ND		0.0515	0.0186	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Benzene	ND		0.0515	0.00823	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromobenzene	ND		0.0515	0.0116	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromochloromethane	ND		0.0515	0.00736	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromodichloromethane	ND		0.0515	0.0133	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromoform	ND		0.0515	0.0110	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromomethane	ND		0.103	0.0254	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2-Butanone (MEK)	ND		0.103	0.0235	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
n-Butylbenzene	ND		0.0515	0.0206	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
sec-Butylbenzene	ND		0.0515	0.0158	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
tert-Butylbenzene	ND		0.0515	0.0210	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Carbon disulfide	ND		0.103	0.0190	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Carbon tetrachloride	ND		0.0515	0.0154	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chlorobenzene	ND		0.0515	0.00623	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chloroethane	ND		0.103	0.0230	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chloroform	**0.0101**	**J B**	0.0515	0.00607	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chloromethane	ND		0.103	0.0612	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2-Chlorotoluene	ND		0.0515	0.0128	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
4-Chlorotoluene	ND		0.0515	0.00931	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dibromo-3-Chloropropane	ND		0.103	0.0203	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Dibromochloromethane	ND		0.0515	0.00813	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dibromoethane (EDB)	ND		0.0515	0.0140	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Dibromomethane	ND		0.0515	0.00967	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dichlorobenzene	ND		0.0515	0.00926	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3-Dichlorobenzene	ND		0.0515	0.0128	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,4-Dichlorobenzene	ND		0.0515	0.00921	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.103	0.0674	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1-Dichloroethane	ND		0.0515	0.0119	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dichloroethane	ND		0.0515	0.0135	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1-Dichloroethene	ND		0.0515	0.0132	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
cis-1,2-Dichloroethene	ND		0.0515	0.0171	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
trans-1,2-Dichloroethene	ND		0.0515	0.0117	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dichloropropane	ND		0.0515	0.0179	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3-Dichloropropane	ND		0.0515	0.0163	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2,2-Dichloropropane	ND		0.0515	0.0135	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1-Dichloropropene	ND		0.0515	0.0157	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
cis-1,3-Dichloropropene	ND		0.0515	0.0121	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
trans-1,3-Dichloropropene	ND		0.0515	0.0209	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethylbenzene	ND		0.0515	0.0108	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Hexachlorobutadiene	ND		0.0515	0.0165	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2-Hexanone (MBK)	ND		0.103	0.0342	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Isopropylbenzene	ND		0.0515	0.0187	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
4-Isopropyltoluene	ND		0.0515	0.0143	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Methyl tert-butyl ether	ND		0.0515	0.0155	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.103	0.0368	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Methylene Chloride	ND		0.103	0.0439	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Naphthalene	ND		0.0515	0.0149	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0515	0.0128	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Styrene	ND		0.0515	0.00679	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,1,2-Tetrachloroethane	ND		0.0515	0.0124	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,2,2-Tetrachloroethane	ND		0.0515	0.0163	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Tetrachloroethene	ND		0.0515	0.0162	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Toluene	ND		0.0515	0.00829	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,3-Trichlorobenzene	ND		0.0515	0.0120	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,4-Trichlorobenzene	ND		0.0515	0.00849	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3,5-Trichlorobenzene	ND		0.0515	0.00813	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,1-Trichloroethane	ND		0.0515	0.0125	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,2-Trichloroethane	ND		0.0515	0.0159	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Trichloroethene	ND		0.0515	0.00880	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Trichlorofluoromethane (Freon 11)	ND		0.0515	0.0233	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,3-Trichloropropane	ND		0.0515	0.0237	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,4-Trimethylbenzene	ND		0.0515	0.0130	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3,5-Trimethylbenzene	ND		0.0515	0.0108	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Vinyl chloride	ND		0.0515	0.0253	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
m,p-Xylene	ND		0.0515	0.0303	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
o-Xylene	ND		0.0515	0.0158	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Tetrahydrofuran	ND		0.103	0.0376	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethyl ether	ND		0.0515	0.0139	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Tert-amyl methyl ether	ND		0.0515	0.0285	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethyl tert-butyl ether	ND		0.0515	0.0143	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
di-Isopropyl ether	ND		0.0515	0.0166	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
tert-Butanol	ND		1.03	0.731	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,4-Dioxane	ND		1.03	0.303	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
trans-1,4-Dichloro-2-butene	ND		0.257	0.0340	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethanol	ND		10.3	0.885	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3-Dichloropropene, Total	ND		0.0515	0.0209	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Xylenes, Total	ND		0.154	0.154	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.397	0.0706	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,2,4-Trichlorobenzene	ND		0.397	0.0909	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,2-Dichlorobenzene	ND		0.397	0.0764	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,3-Dichlorobenzene	ND		0.397	0.0960	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,4-Dichlorobenzene	ND		0.397	0.0934	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1-Methylnaphthalene	ND		0.0802	0.0673	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4,5-Trichlorophenol	ND		0.397	0.0454	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4,6-Trichlorophenol	ND		0.201	0.0490	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4-Dichlorophenol	ND		0.201	0.0799	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4-Dimethylphenol	ND		0.397	0.0582	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4-Dinitrophenol	ND		0.397	0.104	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1

Client: Nobis Engineering, Inc.
Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0406'
Lab Sample ID: 620-10124-3
Date Collected: 03/03/23 14:30
Matrix: Solid
Date Received: 03/06/23 14:47
Percent Solids: 79.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,6-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Chloronaphthalene	ND		0.397	0.0917	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Chlorophenol	ND		0.201	0.0821	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Methylnaphthalene	ND		0.0802	0.0593	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Methylphenol	ND		0.397	0.0579	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Nitroaniline	ND		0.397	0.0377	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Nitrophenol	ND		0.201	0.0713	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
3 & 4 Methylphenol	ND		0.397	0.0751	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
3,3'-Dichlorobenzidine	ND		0.397	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
3-Nitroaniline	ND		0.397	0.0355	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4,6-Dinitro-2-methylphenol	ND		0.397	0.0713	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Bromophenyl phenyl ether	ND		0.397	0.0448	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Chloro-3-methylphenol	ND		0.397	0.0776	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Chloroaniline	ND		0.201	0.0304	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Chlorophenyl phenyl ether	ND		0.397	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Nitroaniline	ND		0.201	0.0633	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Nitrophenol	ND		0.397	0.138	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Acenaphthene	ND		0.0802	0.0639	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Acenaphthylene	ND		0.0802	0.0526	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Acetophenone	ND		0.201	0.0489	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Aniline	ND		0.397	0.0304	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Anthracene	ND		0.0802	0.0464	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Azobenzene/Diphenyldiazene	ND		0.397	0.0677	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzidine	ND		0.793	0.117	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[a]anthracene	ND		0.0802	0.0451	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[a]pyrene	ND		0.0802	0.0573	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[b]fluoranthene	ND		0.0802	0.0665	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[g,h,i]perylene	ND		0.0802	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[k]fluoranthene	ND		0.0802	0.0624	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzoic acid	ND		0.397	0.273	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzyl alcohol	ND		0.397	0.0719	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Bis(2-chloroethoxy)methane	ND		0.397	0.0690	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Bis(2-chloroethyl)ether	ND		0.201	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0893	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0511	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Butyl benzyl phthalate	ND		0.397	0.0398	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Carbazole	ND		0.201	0.0525	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Chrysene	ND		0.0802	0.0453	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Dibenz(a,h)anthracene	ND		0.0802	0.0612	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Dibenzofuran	ND		0.201	0.0695	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Diethyl phthalate	ND		0.397	0.0435	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Dimethyl phthalate	ND		0.397	0.0517	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Di-n-butyl phthalate	ND		0.397	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Di-n-octyl phthalate	ND		0.397	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Fluoranthene	ND		0.0802	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Fluorene	ND		0.0802	0.0732	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Hexachlorobenzene	ND		0.201	0.0557	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0767	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Hexachloroethane	ND		0.201	0.0789	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0802	0.0680	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Isophorone	ND		0.201	0.0549	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Naphthalene	ND		0.0802	0.0769	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Nitrobenzene	ND		0.201	0.0927	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
N-Nitrosodimethylamine	ND		0.201	0.0526	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0799	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
N-Nitrosodiphenylamine	ND		0.397	0.0506	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pentachloronitrobenzene	ND		0.397	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pentachlorophenol	ND		0.397	0.162	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Phenanthrene	ND		0.0802	0.0454	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Phenol	ND		0.397	0.0817	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pyrene	ND		0.0802	0.0442	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pyridine	ND		0.397	0.0939	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
Nitrobenzene-d5 (Surr)	*94*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
Phenol-d5 (Surr)	*79*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
Terphenyl-d14	*97*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:26*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Ethylbenzene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Methyl tert-butyl ether	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
m,p-Xylene	ND		0.0970	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Naphthalene	ND		0.0485	0.0330	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
o-Xylene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Toluene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 19:33*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/09/23 07:17*	*03/09/23 19:33*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0248	0.0178	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1221	ND		0.0248	0.00732	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1232	ND		0.0248	0.00686	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0248	0.00391	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1248	ND		0.0248	0.00774	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1254	ND		0.0248	0.0193	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1262	ND		0.0248	0.00577	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1260	ND		0.0248	0.00532	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1268	ND		0.0248	0.00527	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoroheptanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorononanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorodecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorotridecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorotetradecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorobutanesulfonic acid	ND		2.49	0.497	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorohexanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NEtFOSAA	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NMeFOSAA	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
10:2 FTS	ND		2.49	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoropentanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoroheptanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorononanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorodecanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctanesulfonamide	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorohexadecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctadecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorobutanoic acid	ND		2.49	0.994	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoropentanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NMeFOSE	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NMeFOSA	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NEtFOSE	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NEtFOSA	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
HFPODA	ND		2.49	1.24	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
DONA	ND		3.73	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
9Cl-PF3ONS	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
11Cl-PF3OUdS	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorododecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.49	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoroundecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.49	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.73	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
M2-8:2 FTS	*68*		*15 - 200*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
M2-6:2 FTS	*74*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C5 PFHxA	*86*		*10 - 174*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C4 PFHpA	*85*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C8 PFOA	*88*		*26 - 159*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C9 PFNA	*86*		*26 - 165*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C6 PFDA	*82*		*26 - 161*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C7 PFUnA	*78*		*12 - 173*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C2 PFTeDA	*76*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C3 PFBS	*86*		*27 - 179*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C3 PFHxS	*90*		*24 - 171*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C8 PFOS	*92*		*41 - 154*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d5-NEtFOSAA	*17*		*10 - 193*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C8 FOSA	*85*		*14 - 163*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C4 PFBA	*84*		*28 - 153*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d7-N-MeFOSE-M	*79*		*10 - 179*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d9-N-EtFOSE-M	*74*		*10 - 185*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.90	1.67	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Arsenic	**6.19**		2.94	1.37	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Barium	**91.7**		0.490	0.147	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Beryllium	**1.35**		0.490	0.0981	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Cadmium	ND		0.490	0.0981	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Chromium	**26.9**		1.47	0.343	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Lead	**8.91**		1.47	0.588	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Nickel	**13.5**		0.981	0.255	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Selenium	ND		4.90	1.47	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Silver	ND	^3+	0.981	0.392	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Thallium	ND		29.4	12.7	mg/Kg	☼	03/09/23 00:11	03/13/23 20:19	10
Vanadium	**44.9**		0.981	0.422	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Zinc	**54.7**		1.96	0.784	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0695	0.0232	mg/Kg	☼	03/09/23 00:35	03/09/23 08:27	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0406'
Date Collected: 03/03/23 14:30
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-3
Matrix: Solid
Percent Solids: 79.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.3		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	79.7		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0608'
Date Collected: 03/03/23 14:35
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-4
Matrix: Solid
Percent Solids: 76.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00519	0.00338	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Acetone	ND		0.0519	0.0116	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Acrylonitrile	ND		0.00519	0.00311	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Benzene	ND		0.00519	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromobenzene	ND		0.00519	0.00346	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromochloromethane	ND		0.00519	0.00295	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromodichloromethane	ND		0.00519	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromoform	ND		0.00519	0.00397	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromomethane	ND		0.0104	0.00647	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2-Butanone (MEK)	ND		0.0104	0.00413	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
n-Butylbenzene	ND		0.0104	0.00557	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
sec-Butylbenzene	ND		0.00519	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
tert-Butylbenzene	ND		0.00519	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Carbon disulfide	ND		0.0104	0.00364	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Carbon tetrachloride	ND		0.00519	0.00327	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chlorobenzene	ND		0.00519	0.00380	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chloroethane	ND		0.0104	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chloroform	ND		0.00519	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chloromethane	ND		0.0104	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2-Chlorotoluene	ND		0.00519	0.00413	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
4-Chlorotoluene	ND		0.00519	0.00451	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00440	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Dibromochloromethane	ND		0.00519	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dibromoethane (EDB)	ND		0.00519	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Dibromomethane	ND		0.00519	0.00305	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dichlorobenzene	ND		0.00519	0.00482	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3-Dichlorobenzene	ND		0.00519	0.00416	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,4-Dichlorobenzene	ND		0.00519	0.00492	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0104	0.00278	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1-Dichloroethane	ND		0.00519	0.00352	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dichloroethane	ND		0.00519	0.00350	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1-Dichloroethene	ND		0.00519	0.00318	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
cis-1,2-Dichloroethene	ND		0.00519	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
trans-1,2-Dichloroethene	ND		0.00519	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dichloropropane	ND		0.00519	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3-Dichloropropane	ND		0.00519	0.00397	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2,2-Dichloropropane	ND		0.00519	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1-Dichloropropene	ND		0.00519	0.00353	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
cis-1,3-Dichloropropene	ND		0.00519	0.00338	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
trans-1,3-Dichloropropene	ND		0.00519	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethylbenzene	ND		0.00519	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Hexachlorobutadiene	ND		0.0104	0.00522	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2-Hexanone (MBK)	ND		0.0104	0.00305	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Isopropylbenzene	ND		0.00519	0.00392	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
4-Isopropyltoluene	ND		0.00519	0.00510	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Methyl tert-butyl ether	ND		0.00519	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Methylene Chloride	ND		0.0104	0.00278	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Naphthalene	ND		0.00519	0.00469	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00519	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Styrene	ND		0.00519	0.00402	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,1,2-Tetrachloroethane	ND		0.00519	0.00389	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,2,2-Tetrachloroethane	ND		0.00519	0.00476	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Tetrachloroethene	ND		0.00519	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Toluene	ND		0.00519	0.00329	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,3-Trichlorobenzene	ND		0.00519	0.00438	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,4-Trichlorobenzene	ND		0.00519	0.00479	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3,5-Trichlorobenzene	ND		0.00519	0.00493	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,1-Trichloroethane	ND		0.00519	0.00354	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,2-Trichloroethane	ND		0.00519	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Trichloroethene	ND		0.00519	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00519	0.00397	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,3-Trichloropropane	ND		0.00519	0.00461	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,4-Trimethylbenzene	ND		0.00519	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3,5-Trimethylbenzene	ND		0.00519	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Vinyl chloride	ND		0.00519	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
m,p-Xylene	ND		0.00519	0.00709	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
o-Xylene	ND		0.00519	0.00379	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Tetrahydrofuran	ND		0.0104	0.00263	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethyl ether	ND		0.00519	0.00273	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Tert-amyl methyl ether	ND		0.00519	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethyl tert-butyl ether	ND		0.00519	0.00342	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
di-Isopropyl ether	ND		0.00519	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
tert-Butanol	ND		0.104	0.0278	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,4-Dioxane	ND		0.104	0.0323	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
trans-1,4-Dichloro-2-butene	ND		0.0260	0.00383	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethanol	ND		1.04	0.0644	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3-Dichloropropene, Total	ND		0.00519	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Xylenes, Total	ND		0.0156	0.00519	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.420	0.0746	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,2,4-Trichlorobenzene	ND		0.420	0.0961	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,2-Dichlorobenzene	ND		0.420	0.0809	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,3-Dichlorobenzene	ND		0.420	0.102	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,4-Dichlorobenzene	ND		0.420	0.0988	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1-Methylnaphthalene	ND		0.0848	0.0712	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4,5-Trichlorophenol	ND		0.420	0.0481	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4,6-Trichlorophenol	ND		0.212	0.0519	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4-Dichlorophenol	ND		0.212	0.0846	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4-Dimethylphenol	ND		0.420	0.0615	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4-Dinitrophenol	ND		0.420	0.110	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0608'
Date Collected: 03/03/23 14:35
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-4
Matrix: Solid
Percent Solids: 76.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.212	0.0497	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,6-Dinitrotoluene	ND		0.212	0.0497	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Chloronaphthalene	ND		0.420	0.0970	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Chlorophenol	ND		0.212	0.0868	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Methylnaphthalene	ND		0.0848	0.0627	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Methylphenol	ND		0.420	0.0613	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Nitroaniline	ND		0.420	0.0399	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Nitrophenol	ND		0.212	0.0754	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
3 & 4 Methylphenol	ND		0.420	0.0795	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
3,3'-Dichlorobenzidine	ND		0.420	0.0693	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
3-Nitroaniline	ND		0.420	0.0375	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4,6-Dinitro-2-methylphenol	ND		0.420	0.0754	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Bromophenyl phenyl ether	ND		0.420	0.0474	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Chloro-3-methylphenol	ND		0.420	0.0821	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Chloroaniline	ND		0.212	0.0322	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Chlorophenyl phenyl ether	ND		0.420	0.0449	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Nitroaniline	ND		0.212	0.0670	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Nitrophenol	ND		0.420	0.146	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Acenaphthene	ND		0.0848	0.0676	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Acenaphthylene	ND		0.0848	0.0557	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Acetophenone	ND		0.212	0.0517	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Aniline	ND		0.420	0.0322	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Anthracene	ND		0.0848	0.0491	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Azobenzene/Diphenyldiazene	ND		0.420	0.0716	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzidine	ND		0.839	0.124	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[a]anthracene	ND		0.0848	0.0477	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[a]pyrene	ND		0.0848	0.0607	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[b]fluoranthene	ND		0.0848	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[g,h,i]perylene	ND		0.0848	0.0662	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[k]fluoranthene	ND		0.0848	0.0660	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzoic acid	ND		0.420	0.289	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzyl alcohol	ND		0.420	0.0760	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Bis(2-chloroethoxy)methane	ND		0.420	0.0730	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Bis(2-chloroethyl)ether	ND		0.212	0.0694	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
bis (2-chloroisopropyl) ether	ND		0.212	0.0945	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Bis(2-ethylhexyl) phthalate	ND		0.212	0.0540	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Butyl benzyl phthalate	ND		0.420	0.0421	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Carbazole	ND		0.212	0.0556	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Chrysene	ND		0.0848	0.0479	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Dibenz(a,h)anthracene	ND		0.0848	0.0647	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Dibenzofuran	ND		0.212	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Diethyl phthalate	ND		0.420	0.0460	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Dimethyl phthalate	ND		0.420	0.0547	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Di-n-butyl phthalate	ND		0.420	0.0449	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Di-n-octyl phthalate	ND		0.420	0.0693	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Fluoranthene	ND		0.0848	0.0497	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Fluorene	ND		0.0848	0.0774	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Hexachlorobenzene	ND		0.212	0.0589	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Hexachlorobutadiene	ND		0.212	0.106	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.212	0.0811	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Hexachloroethane	ND		0.212	0.0834	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0848	0.0720	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Isophorone	ND		0.212	0.0581	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Naphthalene	ND		0.0848	0.0814	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Nitrobenzene	ND		0.212	0.0980	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
N-Nitrosodimethylamine	ND		0.212	0.0557	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
N-Nitrosodi-n-propylamine	ND		0.212	0.0846	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
N-Nitrosodiphenylamine	ND		0.420	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pentachloronitrobenzene	ND		0.420	0.0662	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pentachlorophenol	ND		0.420	0.172	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Phenanthrene	ND		0.0848	0.0481	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Phenol	ND		0.420	0.0865	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pyrene	ND		0.0848	0.0468	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pyridine	ND		0.420	0.0993	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
Terphenyl-d14	*100*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:54*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.259	0.132	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.259	0.111	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Ethylbenzene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Methyl tert-butyl ether	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
m,p-Xylene	ND		0.103	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Naphthalene	ND		0.0517	0.0352	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
o-Xylene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Toluene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
C5-C8 Aliphatics (unadjusted)	ND		0.259	0.132	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
C9-C10 Aromatics	ND		0.259	0.0362	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
C9-C12 Aliphatics (unadjusted)	ND		0.259	0.111	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:12*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:12*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0257	0.0186	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1221	ND		0.0257	0.00761	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1232	ND		0.0257	0.00713	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0257	0.00407	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1248	ND		0.0257	0.00805	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1254	ND		0.0257	0.0200	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1262	ND		0.0257	0.00600	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1260	ND		0.0257	0.00554	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1268	ND		0.0257	0.00548	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoroheptanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorononanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorodecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorotridecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorotetradecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorobutanesulfonic acid	ND		2.55	0.510	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorohexanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NEtFOSAA	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NMeFOSAA	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
10:2 FTS	ND		2.55	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoropentanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoroheptanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorononanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorodecanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctanesulfonamide	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorohexadecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctadecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorobutanoic acid	ND		2.55	1.02	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoropentanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NMeFOSE	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NMeFOSA	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NEtFOSE	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NEtFOSA	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
HFPODA	ND		2.55	1.28	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
DONA	ND		3.83	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
9Cl-PF3ONS	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
11Cl-PF3OUdS	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorododecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.55	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoroundecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.55	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.83	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
M2-6:2 FTS	*75*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C5 PFHxA	*90*		*10 - 174*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C4 PFHpA	*86*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C8 PFOA	*87*		*26 - 159*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C9 PFNA	*86*		*26 - 165*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C6 PFDA	*86*		*26 - 161*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C2 PFTeDA	*79*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C3 PFBS	*89*		*27 - 179*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C3 PFHxS	*91*		*24 - 171*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C8 PFOS	*88*		*41 - 154*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d3-NMeFOSAA	*10*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C8 FOSA	*87*		*14 - 163*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C4 PFBA	*83*		*28 - 153*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C5 PFPeA	*84*		*24 - 161*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d9-N-EtFOSE-M	*81*		*10 - 185*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d5-NEtPFOSA	*86*		*10 - 180*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.71	1.60	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Arsenic	**6.73**		2.83	1.32	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Barium	**116**		0.471	0.141	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Beryllium	**1.08**		0.471	0.0943	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Cadmium	ND		0.471	0.0943	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Chromium	**35.5**		1.41	0.330	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Lead	**11.3**		1.41	0.566	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Nickel	**16.4**		0.943	0.245	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Selenium	**2.20**	**J**	4.71	1.41	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Silver	ND	^3+	0.943	0.377	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Thallium	ND		28.3	12.3	mg/Kg	☼	03/09/23 03:44	03/13/23 21:06	10
Vanadium	**55.5**		0.943	0.405	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Zinc	**67.9**		1.89	0.754	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0755	0.0252	mg/Kg	☼	03/09/23 23:15	03/10/23 11:28	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0608'
Date Collected: 03/03/23 14:35
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-4
Matrix: Solid
Percent Solids: 76.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	23.1		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	76.9		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0810'
Date Collected: 03/03/23 14:40
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-5
Matrix: Solid
Percent Solids: 77.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00441	0.00287	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Acetone	ND		0.0441	0.00988	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Acrylonitrile	ND		0.00441	0.00265	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Benzene	ND		0.00441	0.00295	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromobenzene	ND		0.00441	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromochloromethane	ND		0.00441	0.00250	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromodichloromethane	ND		0.00441	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromoform	ND		0.00441	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromomethane	ND		0.00882	0.00549	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2-Butanone (MEK)	ND		0.00882	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
n-Butylbenzene	ND		0.00882	0.00473	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
sec-Butylbenzene	ND		0.00441	0.00355	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
tert-Butylbenzene	ND		0.00441	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Carbon disulfide	ND		0.00882	0.00309	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Carbon tetrachloride	ND		0.00441	0.00278	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chlorobenzene	ND		0.00441	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chloroethane	ND		0.00882	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chloroform	ND		0.00441	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chloromethane	ND		0.00882	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2-Chlorotoluene	ND		0.00441	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
4-Chlorotoluene	ND		0.00441	0.00383	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dibromo-3-Chloropropane	ND		0.00882	0.00374	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Dibromochloromethane	ND		0.00441	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dibromoethane (EDB)	ND		0.00441	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Dibromomethane	ND		0.00441	0.00259	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dichlorobenzene	ND		0.00441	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3-Dichlorobenzene	ND		0.00441	0.00354	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,4-Dichlorobenzene	ND		0.00441	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00882	0.00236	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1-Dichloroethane	ND		0.00441	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dichloroethane	ND		0.00441	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1-Dichloroethene	ND		0.00441	0.00270	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
cis-1,2-Dichloroethene	ND		0.00441	0.00255	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
trans-1,2-Dichloroethene	ND		0.00441	0.00274	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dichloropropane	ND		0.00441	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3-Dichloropropane	ND		0.00441	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2,2-Dichloropropane	ND		0.00441	0.00304	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1-Dichloropropene	ND		0.00441	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
cis-1,3-Dichloropropene	ND		0.00441	0.00287	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
trans-1,3-Dichloropropene	ND		0.00441	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethylbenzene	ND		0.00441	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Hexachlorobutadiene	ND		0.00882	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2-Hexanone (MBK)	ND		0.00882	0.00259	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Isopropylbenzene	ND		0.00441	0.00333	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
4-Isopropyltoluene	ND		0.00441	0.00433	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Methyl tert-butyl ether	ND		0.00441	0.00254	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.00882	0.00285	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Methylene Chloride	ND		0.00882	0.00236	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Naphthalene	ND		0.00441	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Styrene	ND		0.00441	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,1,2-Tetrachloroethane	ND		0.00441	0.00331	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,2,2-Tetrachloroethane	ND		0.00441	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Tetrachloroethene	ND		0.00441	0.00245	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Toluene	ND		0.00441	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,3-Trichlorobenzene	ND		0.00441	0.00372	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,4-Trichlorobenzene	ND		0.00441	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3,5-Trichlorobenzene	ND		0.00441	0.00419	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,1-Trichloroethane	ND		0.00441	0.00301	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,2-Trichloroethane	ND		0.00441	0.00332	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Trichloroethene	ND		0.00441	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Trichlorofluoromethane (Freon 11)	ND		0.00441	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,3-Trichloropropane	ND		0.00441	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,4-Trimethylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3,5-Trimethylbenzene	ND		0.00441	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Vinyl chloride	ND		0.00441	0.00269	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
m,p-Xylene	ND		0.00441	0.00602	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
o-Xylene	ND		0.00441	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Tetrahydrofuran	ND		0.00882	0.00223	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethyl ether	ND		0.00441	0.00232	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Tert-amyl methyl ether	ND		0.00441	0.00348	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethyl tert-butyl ether	ND		0.00441	0.00290	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
di-Isopropyl ether	ND		0.00441	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
tert-Butanol	ND		0.0882	0.0236	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,4-Dioxane	ND		0.0882	0.0274	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
trans-1,4-Dichloro-2-butene	ND		0.0220	0.00325	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethanol	ND		0.882	0.0547	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3-Dichloropropene, Total	ND		0.00441	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Xylenes, Total	ND		0.0132	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.410	0.0730	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,2,4-Trichlorobenzene	ND		0.410	0.0940	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,2-Dichlorobenzene	ND		0.410	0.0790	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,3-Dichlorobenzene	ND		0.410	0.0993	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,4-Dichlorobenzene	ND		0.410	0.0966	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1-Methylnaphthalene	ND		0.0829	0.0696	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4,5-Trichlorophenol	ND		0.410	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4,6-Trichlorophenol	ND		0.208	0.0507	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4-Dichlorophenol	ND		0.208	0.0827	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4-Dimethylphenol	ND		0.410	0.0602	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4-Dinitrophenol	ND		0.410	0.108	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0810'
Date Collected: 03/03/23 14:40
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-5
Matrix: Solid
Percent Solids: 77.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.208	0.0486	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,6-Dinitrotoluene	ND		0.208	0.0486	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Chloronaphthalene	ND		0.410	0.0948	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Chlorophenol	ND		0.208	0.0849	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Methylnaphthalene	ND		0.0829	0.0613	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Methylphenol	ND		0.410	0.0599	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Nitroaniline	ND		0.410	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Nitrophenol	ND		0.208	0.0737	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
3 & 4 Methylphenol	ND		0.410	0.0777	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
3,3'-Dichlorobenzidine	ND		0.410	0.0677	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
3-Nitroaniline	ND		0.410	0.0367	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4,6-Dinitro-2-methylphenol	ND		0.410	0.0737	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Bromophenyl phenyl ether	ND		0.410	0.0464	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Chloro-3-methylphenol	ND		0.410	0.0803	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Chloroaniline	ND		0.208	0.0314	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Chlorophenyl phenyl ether	ND		0.410	0.0439	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Nitroaniline	ND		0.208	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Nitrophenol	ND		0.410	0.143	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Acenaphthene	ND		0.0829	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Acenaphthylene	ND		0.0829	0.0544	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Acetophenone	ND		0.208	0.0506	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Aniline	ND		0.410	0.0314	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Anthracene	ND		0.0829	0.0480	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Azobenzene/Diphenyldiazene	ND		0.410	0.0700	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzidine	ND		0.820	0.121	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[a]anthracene	ND		0.0829	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[a]pyrene	ND		0.0829	0.0593	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[b]fluoranthene	ND		0.0829	0.0687	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[g,h,i]perylene	ND		0.0829	0.0648	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[k]fluoranthene	ND		0.0829	0.0645	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzoic acid	ND		0.410	0.282	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzyl alcohol	ND		0.410	0.0743	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Bis(2-chloroethoxy)methane	ND		0.410	0.0713	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Bis(2-chloroethyl)ether	ND		0.208	0.0679	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
bis (2-chloroisopropyl) ether	ND		0.208	0.0923	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Bis(2-ethylhexyl) phthalate	ND		0.208	0.0528	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Butyl benzyl phthalate	ND		0.410	0.0411	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Carbazole	ND		0.208	0.0543	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Chrysene	ND		0.0829	0.0469	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Dibenz(a,h)anthracene	ND		0.0829	0.0633	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Dibenzofuran	ND		0.208	0.0718	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Diethyl phthalate	ND		0.410	0.0450	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Dimethyl phthalate	ND		0.410	0.0534	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Di-n-butyl phthalate	ND		0.410	0.0439	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Di-n-octyl phthalate	ND		0.410	0.0677	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Fluoranthene	ND		0.0829	0.0486	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Fluorene	ND		0.0829	0.0757	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Hexachlorobenzene	ND		0.208	0.0575	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Hexachlorobutadiene	ND		0.208	0.104	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.208	0.0793	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Hexachloroethane	ND		0.208	0.0815	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0829	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Isophorone	ND		0.208	0.0568	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Naphthalene	ND		0.0829	0.0795	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Nitrobenzene	ND		0.208	0.0958	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
N-Nitrosodimethylamine	ND		0.208	0.0544	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
N-Nitrosodi-n-propylamine	ND		0.208	0.0827	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
N-Nitrosodiphenylamine	ND		0.410	0.0523	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pentachloronitrobenzene	ND		0.410	0.0648	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pentachlorophenol	ND		0.410	0.168	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Phenanthrene	ND		0.0829	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Phenol	ND		0.410	0.0845	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pyrene	ND		0.0829	0.0457	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pyridine	ND		0.410	0.0971	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/15/23 09:29*	*03/17/23 21:22*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.244	0.125	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.244	0.104	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Ethylbenzene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Methyl tert-butyl ether	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
m,p-Xylene	ND		0.0975	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Naphthalene	ND		0.0487	0.0331	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
o-Xylene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Toluene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
C5-C8 Aliphatics (unadjusted)	ND		0.244	0.125	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
C9-C10 Aromatics	ND		0.244	0.0341	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
C9-C12 Aliphatics (unadjusted)	ND		0.244	0.104	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:51*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0256	0.0185	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1221	ND		0.0256	0.00757	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1232	ND		0.0256	0.00710	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0256	0.00405	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1248	ND		0.0256	0.00800	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1254	**0.0485**		0.0256	0.0199	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1262	ND		0.0256	0.00597	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1260	ND		0.0256	0.00551	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1268	ND		0.0256	0.00546	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoroheptanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorononanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorodecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorotridecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorotetradecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorobutanesulfonic acid	ND		2.45	0.491	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorohexanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NEtFOSAA	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NMeFOSAA	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
10:2 FTS	ND		2.45	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoropentanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoroheptanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorononanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorodecanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctanesulfonamide	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorohexadecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctadecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorobutanoic acid	ND		2.45	0.982	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoropentanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NMeFOSE	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NMeFOSA	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NEtFOSE	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NEtFOSA	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
HFPODA	ND		2.45	1.23	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
DONA	ND		3.68	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
9Cl-PF3ONS	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
11Cl-PF3OUdS	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorododecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
4:2 Fluorotelomer sulfonic acid	ND		2.45	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoroundecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.45	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
8:2 Fluorotelomer sulfonic acid	ND		3.68	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*69*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
M2-8:2 FTS	*66*		*15 - 200*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
M2-6:2 FTS	*67*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C5 PFHxA	*83*		*10 - 174*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C4 PFHpA	*84*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C8 PFOA	*83*		*26 - 159*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C9 PFNA	*81*		*26 - 165*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C6 PFDA	*80*		*26 - 161*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C2 PFTeDA	*80*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C3 PFBS	*99*		*27 - 179*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C3 PFHxS	*100*		*24 - 171*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d5-NEtFOSAA	*16*		*10 - 193*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C4 PFBA	*83*		*28 - 153*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C5 PFPeA	*86*		*24 - 161*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d3-NMePFOSA	*92*		*10 - 175*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d9-N-EtFOSE-M	*87*		*10 - 185*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C3 HFPO-DA	*86*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.46	1.86	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Arsenic	**8.38**		3.28	1.53	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Barium	**122**		0.546	0.164	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Beryllium	**1.12**		0.546	0.109	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Cadmium	ND		0.546	0.109	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Chromium	**36.2**		1.64	0.382	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Lead	**11.9**		1.64	0.655	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Nickel	**20.9**		1.09	0.284	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Selenium	**3.30**	**J**	5.46	1.64	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Silver	ND	^3+	1.09	0.437	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Thallium	ND		32.8	14.2	mg/Kg	☼	03/09/23 03:44	03/13/23 21:03	10
Vanadium	**60.0**		1.09	0.470	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Zinc	**81.3**		2.18	0.874	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0773	0.0258	mg/Kg	☼	03/09/23 23:15	03/10/23 11:24	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0810'
Date Collected: 03/03/23 14:40
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-5
Matrix: Solid
Percent Solids: 77.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	22.4		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	77.6		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: Trip Blank-07

Date Collected: 03/03/23 00:00
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-6

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/15/23 12:58	03/15/23 14:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: Trip Blank-07

Date Collected: 03/03/23 00:00
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-6

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/15/23 12:58	03/15/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10124-1	2023-MW-03-0002'	97	98	99	98
620-10124-2	2023-MW-03-0204'	88	96	96	101
620-10124-3 - ME	2023-MW-03-0406'	100	102	103	102
620-10124-4	2023-MW-03-0608'	86	96	98	102
620-10124-5	2023-MW-03-0810'	89	97	99	103
620-10124-6	Trip Blank-07	91	94	97	100
LCS 620-20572/1-A	Lab Control Sample	95	96	92	99
LCS 620-20595/1-A	Lab Control Sample	103	104	106	105
LCS 620-20616/1-A	Lab Control Sample	101	100	100	101
LCS 620-20675/1-A	Lab Control Sample	102	102	99	97
LCSD 620-20572/2-A	Lab Control Sample Dup	95	96	94	99
LCSD 620-20595/2-A	Lab Control Sample Dup	103	103	101	103
LCSD 620-20616/2-A	Lab Control Sample Dup	101	100	99	100
LCSD 620-20675/2-A	Lab Control Sample Dup	102	103	99	98
MB 620-20572/3-A	Method Blank	93	94	95	99
MB 620-20595/3-A	Method Blank	98	102	102	102
MB 620-20616/3-A	Method Blank	100	98	98	98
MB 620-20675/3-A	Method Blank	104	103	100	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10124-1	2023-MW-03-0002'	68	92	78	80	87	86
620-10124-2	2023-MW-03-0204'	68	85	71	71	76	107
620-10124-3	2023-MW-03-0406'	90	86	94	79	83	97
620-10124-4	2023-MW-03-0608'	84	99	86	85	78	100
620-10124-5	2023-MW-03-0810'	72	91	80	78	75	62
LCS 620-20546/2-A	Lab Control Sample	79	93	84	88	85	82
LCSD 620-20546/3-A	Lab Control Sample Dup	77	93	84	85	79	76
MB 620-20546/1-A	Method Blank	69	86	75	78	60	79

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT-F1 (70-130)	TFT-P2 (70-130)
620-10124-1	2023-MW-03-0002'	97	96
620-10124-2	2023-MW-03-0204'	96	95
620-10124-3	2023-MW-03-0406'	96	94
620-10124-4	2023-MW-03-0608'	95	93
620-10124-5	2023-MW-03-0810'	96	94
LCS 480-660942/2-A	Lab Control Sample	98	99
LCSD 480-660942/3-A	Lab Control Sample Dup	98	98
MB 480-660942/1-A	Method Blank	115	114

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)
TFT-P = a,a,a-Trifluorotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)
620-10124-1	2023-MW-03-0002'	93	90	93	95
620-10124-2	2023-MW-03-0204'	68	66	73	76
620-10124-3	2023-MW-03-0406'	104	95	102	101
620-10124-4	2023-MW-03-0608'	96	90	95	96
620-10124-5	2023-MW-03-0810'	96	89	87	66
LCS 620-20416/2-A	Lab Control Sample	81	77	95	88
LCSD 620-20416/3-A	Lab Control Sample Dup	90	82	101	92
MB 620-20416/1-A	Method Blank	62	59	60	58

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA
Lab Sample ID	Client Sample ID	(10-200)	(15-200)	(10-200)	(10-174)	(10-178)	(26-159)	(26-165)	(26-161)
620-10124-1	2023-MW-03-0002'	81	70	81	87	85	86	91	82
620-10124-2	2023-MW-03-0204'	92	90	91	102	105	97	94	94
620-10124-3	2023-MW-03-0406'	72	68	74	86	85	88	86	82
620-10124-4	2023-MW-03-0608'	73	74	75	90	86	87	86	86
620-10124-5	2023-MW-03-0810'	69	66	67	83	84	83	81	80
LCS 410-352779/3-B	Lab Control Sample	87	83	91	91	91	92	95	91
MB 410-352779/1-B	Method Blank	92	90	93	91	101	96	103	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C7PUA	PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(12-173)	(11-166)	(10-169)	(27-179)	(24-171)	(41-154)	(10-178)	(10-193)
620-10124-1	2023-MW-03-0002'	80	78	76	95	91	96	11	14
620-10124-2	2023-MW-03-0204'	88	87	86	89	96	92	59	61
620-10124-3	2023-MW-03-0406'	78	78	76	86	90	92	14	17
620-10124-4	2023-MW-03-0608'	81	85	79	89	91	88	10	13
620-10124-5	2023-MW-03-0810'	82	85	80	99	100	102	12	16
LCS 410-352779/3-B	Lab Control Sample	90	91	98	90	94	92	71	75
MB 410-352779/1-B	Method Blank	98	96	95	95	98	99	72	71

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	NMFM	d3NMFSA	NEFM	d5NPFSA	HFPODA
Lab Sample ID	Client Sample ID	(14-163)	(28-153)	(24-161)	(10-179)	(10-175)	(10-185)	(10-180)	(10-169)
620-10124-1	2023-MW-03-0002'	88	83	82	84	86	82	87	78
620-10124-2	2023-MW-03-0204'	87	95	93	83	81	77	83	89
620-10124-3	2023-MW-03-0406'	85	84	87	79	80	74	80	92
620-10124-4	2023-MW-03-0608'	87	83	84	83	83	81	86	88
620-10124-5	2023-MW-03-0810'	97	83	86	89	92	87	94	86
LCS 410-352779/3-B	Lab Control Sample	76	85	88	74	76	69	72	86
MB 410-352779/1-B	Method Blank	80	85	85	76	69	76	73	82

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20572/3-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20572/3-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/15/23 12:58	03/15/23 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0170	0.01888		mg/Kg		111	70 - 130
Acetone	0.0170	0.01484	J	mg/Kg		87	70 - 130
Acrylonitrile	0.0170	0.01593		mg/Kg		94	70 - 130
Benzene	0.0170	0.01762		mg/Kg		104	70 - 130
Bromobenzene	0.0170	0.02026		mg/Kg		119	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0170	0.01829		mg/Kg		108	70 - 130
Bromodichloromethane	0.0170	0.01741		mg/Kg		102	70 - 130
Bromoform	0.0170	0.02093		mg/Kg		123	70 - 130
Bromomethane	0.0170	0.02079		mg/Kg		122	70 - 130
2-Butanone (MEK)	0.0170	0.01603		mg/Kg		94	70 - 130
n-Butylbenzene	0.0170	0.02012		mg/Kg		118	70 - 130
sec-Butylbenzene	0.0170	0.02061		mg/Kg		121	70 - 130
tert-Butylbenzene	0.0170	0.01736		mg/Kg		102	70 - 130
Carbon disulfide	0.0170	0.01815		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0170	0.01776		mg/Kg		104	70 - 130
Chlorobenzene	0.0170	0.02083		mg/Kg		123	70 - 130
Chloroethane	0.0170	0.01941		mg/Kg		114	70 - 130
Chloroform	0.0170	0.01786		mg/Kg		105	70 - 130
Chloromethane	0.0170	0.01335		mg/Kg		79	70 - 130
2-Chlorotoluene	0.0170	0.02014		mg/Kg		118	70 - 130
4-Chlorotoluene	0.0170	0.02021		mg/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	0.0170	0.01969		mg/Kg		116	70 - 130
Dibromochloromethane	0.0170	0.01778		mg/Kg		105	70 - 130
1,2-Dibromoethane (EDB)	0.0170	0.01741		mg/Kg		102	70 - 130
Dibromomethane	0.0170	0.01750		mg/Kg		103	70 - 130
1,2-Dichlorobenzene	0.0170	0.02139		mg/Kg		126	70 - 130
1,3-Dichlorobenzene	0.0170	0.02136		mg/Kg		126	70 - 130
1,4-Dichlorobenzene	0.0170	0.02216		mg/Kg		130	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0170	0.009509	J *-	mg/Kg		56	70 - 130
1,1-Dichloroethane	0.0170	0.01723		mg/Kg		101	70 - 130
1,2-Dichloroethane	0.0170	0.01611		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0170	0.01821		mg/Kg		107	70 - 130
cis-1,2-Dichloroethene	0.0170	0.01654		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0170	0.01737		mg/Kg		102	70 - 130
1,2-Dichloropropane	0.0170	0.01619		mg/Kg		95	70 - 130
1,3-Dichloropropane	0.0170	0.01686		mg/Kg		99	70 - 130
2,2-Dichloropropane	0.0170	0.01630		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0170	0.01610		mg/Kg		95	70 - 130
cis-1,3-Dichloropropene	0.0170	0.01455		mg/Kg		86	70 - 130
trans-1,3-Dichloropropene	0.0170	0.01655		mg/Kg		97	70 - 130
Ethylbenzene	0.0170	0.02029		mg/Kg		119	70 - 130
Hexachlorobutadiene	0.0170	0.02003		mg/Kg		118	70 - 130
2-Hexanone (MBK)	0.0170	0.01206		mg/Kg		71	70 - 130
Isopropylbenzene	0.0170	0.01917		mg/Kg		113	70 - 130
4-Isopropyltoluene	0.0170	0.01994		mg/Kg		117	70 - 130
Methyl tert-butyl ether	0.0170	0.01400		mg/Kg		82	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0170	0.01357		mg/Kg		80	70 - 130
Methylene Chloride	0.0170	0.01724		mg/Kg		101	70 - 130
Naphthalene	0.0170	0.01809		mg/Kg		106	70 - 130
N-Propylbenzene	0.0170	0.02053		mg/Kg		121	70 - 130
Styrene	0.0170	0.01985		mg/Kg		117	70 - 130
1,1,1,2-Tetrachloroethane	0.0170	0.02044		mg/Kg		120	70 - 130
1,1,2,2-Tetrachloroethane	0.0170	0.02173		mg/Kg		128	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0170	0.01745		mg/Kg		103	70 - 130
Toluene	0.0170	0.01813		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	0.0170	0.01989		mg/Kg		117	70 - 130
1,2,4-Trichlorobenzene	0.0170	0.01866		mg/Kg		110	70 - 130
1,3,5-Trichlorobenzene	0.0170	0.02112		mg/Kg		124	70 - 130
1,1,1-Trichloroethane	0.0170	0.01738		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0170	0.01863		mg/Kg		110	70 - 130
Trichloroethene	0.0170	0.01869		mg/Kg		110	70 - 130
Trichlorofluoromethane (Freon 11)	0.0170	0.01729		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	0.0170	0.02110		mg/Kg		124	70 - 130
1,2,4-Trimethylbenzene	0.0170	0.02021		mg/Kg		119	70 - 130
1,3,5-Trimethylbenzene	0.0170	0.02033		mg/Kg		120	70 - 130
Vinyl chloride	0.0170	0.01489		mg/Kg		88	70 - 130
m,p-Xylene	0.0170	0.01881		mg/Kg		111	70 - 130
o-Xylene	0.0170	0.01806		mg/Kg		106	70 - 130
Tetrahydrofuran	0.0170	0.01276		mg/Kg		75	70 - 130
Ethyl ether	0.0170	0.01563		mg/Kg		92	70 - 130
Tert-amyl methyl ether	0.0170	0.01358		mg/Kg		80	70 - 130
Ethyl tert-butyl ether	0.0170	0.01294		mg/Kg		76	70 - 130
di-Isopropyl ether	0.0170	0.01360		mg/Kg		80	70 - 130
tert-Butanol	0.170	0.1222		mg/Kg		72	70 - 130
1,4-Dioxane	0.170	0.1200		mg/Kg		71	70 - 130
trans-1,4-Dichloro-2-butene	0.0170	0.01642	J	mg/Kg		97	70 - 130
Ethanol	0.340	0.2853	J	mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0170	0.01838		mg/Kg		108	70 - 130	3	30
Acetone	0.0170	0.01490	J	mg/Kg		88	70 - 130	0	30
Acrylonitrile	0.0170	0.01679		mg/Kg		99	70 - 130	5	30
Benzene	0.0170	0.01714		mg/Kg		101	70 - 130	3	30
Bromobenzene	0.0170	0.01944		mg/Kg		114	70 - 130	4	30
Bromochloromethane	0.0170	0.01801		mg/Kg		106	70 - 130	2	30
Bromodichloromethane	0.0170	0.01716		mg/Kg		101	70 - 130	1	30
Bromoform	0.0170	0.02087		mg/Kg		123	70 - 130	0	30
Bromomethane	0.0170	0.01887		mg/Kg		111	70 - 130	10	30
2-Butanone (MEK)	0.0170	0.01805		mg/Kg		106	70 - 130	12	30
n-Butylbenzene	0.0170	0.01972		mg/Kg		116	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene			0.0170	0.01993		mg/Kg		117	70 - 130	3	30
tert-Butylbenzene			0.0170	0.01682		mg/Kg		99	70 - 130	3	30
Carbon disulfide			0.0170	0.01769		mg/Kg		104	70 - 130	3	30
Carbon tetrachloride			0.0170	0.01713		mg/Kg		101	70 - 130	4	30
Chlorobenzene			0.0170	0.02003		mg/Kg		118	70 - 130	4	30
Chloroethane			0.0170	0.01785		mg/Kg		105	70 - 130	8	30
Chloroform			0.0170	0.01752		mg/Kg		103	70 - 130	2	30
Chloromethane			0.0170	0.01308		mg/Kg		77	70 - 130	2	30
2-Chlorotoluene			0.0170	0.01952		mg/Kg		115	70 - 130	3	30
4-Chlorotoluene			0.0170	0.01955		mg/Kg		115	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			0.0170	0.02136		mg/Kg		126	70 - 130	8	30
Dibromochloromethane			0.0170	0.01733		mg/Kg		102	70 - 130	3	30
1,2-Dibromoethane (EDB)			0.0170	0.01769		mg/Kg		104	70 - 130	2	30
Dibromomethane			0.0170	0.01740		mg/Kg		102	70 - 130	1	30
1,2-Dichlorobenzene			0.0170	0.02127		mg/Kg		125	70 - 130	1	30
1,3-Dichlorobenzene			0.0170	0.02064		mg/Kg		121	70 - 130	3	30
1,4-Dichlorobenzene			0.0170	0.02155		mg/Kg		127	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			0.0170	0.009106	J *-	mg/Kg		54	70 - 130	4	30
1,1-Dichloroethane			0.0170	0.01673		mg/Kg		98	70 - 130	3	30
1,2-Dichloroethane			0.0170	0.01643		mg/Kg		97	70 - 130	2	30
1,1-Dichloroethene			0.0170	0.01788		mg/Kg		105	70 - 130	2	30
cis-1,2-Dichloroethene			0.0170	0.01621		mg/Kg		95	70 - 130	2	30
trans-1,2-Dichloroethene			0.0170	0.01684		mg/Kg		99	70 - 130	3	30
1,2-Dichloropropane			0.0170	0.01600		mg/Kg		94	70 - 130	1	30
1,3-Dichloropropane			0.0170	0.01667		mg/Kg		98	70 - 130	1	30
2,2-Dichloropropane			0.0170	0.01583		mg/Kg		93	70 - 130	3	30
1,1-Dichloropropene			0.0170	0.01594		mg/Kg		94	70 - 130	1	30
cis-1,3-Dichloropropene			0.0170	0.01451		mg/Kg		85	70 - 130	0	30
trans-1,3-Dichloropropene			0.0170	0.01675		mg/Kg		99	70 - 130	1	30
Ethylbenzene			0.0170	0.01944		mg/Kg		114	70 - 130	4	30
Hexachlorobutadiene			0.0170	0.02009		mg/Kg		118	70 - 130	0	30
2-Hexanone (MBK)			0.0170	0.01324		mg/Kg		78	70 - 130	9	30
Isopropylbenzene			0.0170	0.01869		mg/Kg		110	70 - 130	3	30
4-Isopropyltoluene			0.0170	0.01940		mg/Kg		114	70 - 130	3	30
Methyl tert-butyl ether			0.0170	0.01423		mg/Kg		84	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			0.0170	0.01438		mg/Kg		85	70 - 130	6	30
Methylene Chloride			0.0170	0.01687		mg/Kg		99	70 - 130	2	30
Naphthalene			0.0170	0.02059		mg/Kg		121	70 - 130	13	30
N-Propylbenzene			0.0170	0.01997		mg/Kg		117	70 - 130	3	30
Styrene			0.0170	0.01930		mg/Kg		114	70 - 130	3	30
1,1,1,2-Tetrachloroethane			0.0170	0.01982		mg/Kg		117	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0170	0.02216		mg/Kg		130	70 - 130	2	30
Tetrachloroethene			0.0170	0.01661		mg/Kg		98	70 - 130	5	30
Toluene			0.0170	0.01774		mg/Kg		104	70 - 130	2	30
1,2,3-Trichlorobenzene			0.0170	0.02107		mg/Kg		124	70 - 130	6	30
1,2,4-Trichlorobenzene			0.0170	0.01973		mg/Kg		116	70 - 130	6	30
1,3,5-Trichlorobenzene			0.0170	0.02098		mg/Kg		123	70 - 130	1	30
1,1,1-Trichloroethane			0.0170	0.01709		mg/Kg		101	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0170	0.01796		mg/Kg		106	70 - 130	4	30
Trichloroethene			0.0170	0.01768		mg/Kg		104	70 - 130	6	30
Trichlorofluoromethane (Freon 11)			0.0170	0.01688		mg/Kg		99	70 - 130	2	30
1,2,3-Trichloropropane			0.0170	0.02117		mg/Kg		125	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0170	0.01966		mg/Kg		116	70 - 130	3	30
1,3,5-Trimethylbenzene			0.0170	0.01955		mg/Kg		115	70 - 130	4	30
Vinyl chloride			0.0170	0.01381		mg/Kg		81	70 - 130	8	30
m,p-Xylene			0.0170	0.01840		mg/Kg		108	70 - 130	2	30
o-Xylene			0.0170	0.01773		mg/Kg		104	70 - 130	2	30
Tetrahydrofuran			0.0170	0.01356		mg/Kg		80	70 - 130	6	30
Ethyl ether			0.0170	0.01603		mg/Kg		94	70 - 130	3	30
Tert-amyl methyl ether			0.0170	0.01381		mg/Kg		81	70 - 130	2	30
Ethyl tert-butyl ether			0.0170	0.01330		mg/Kg		78	70 - 130	3	30
di-Isopropyl ether			0.0170	0.01407		mg/Kg		83	70 - 130	3	30
tert-Butanol			0.170	0.1410		mg/Kg		83	70 - 130	14	30
1,4-Dioxane			0.170	0.1271		mg/Kg		75	70 - 130	6	30
trans-1,4-Dichloro-2-butene			0.0170	0.01699	J	mg/Kg		100	70 - 130	3	30
Ethanol			0.340	0.3128	J	mg/Kg		92	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20595/3-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0500	0.0274	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Acetone	ND		0.500	0.0630	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Acrylonitrile	ND		0.0500	0.0181	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Benzene	ND		0.0500	0.00800	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromobenzene	ND		0.0500	0.0113	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromochloromethane	ND		0.0500	0.00715	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromodichloromethane	ND		0.0500	0.0129	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromoform	ND		0.0500	0.0107	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromomethane	ND		0.100	0.0247	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2-Butanone (MEK)	ND		0.100	0.0229	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
n-Butylbenzene	ND		0.0500	0.0200	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
sec-Butylbenzene	ND		0.0500	0.0154	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
tert-Butylbenzene	ND		0.0500	0.0204	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Carbon disulfide	ND		0.100	0.0185	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Carbon tetrachloride	ND		0.0500	0.0150	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Chlorobenzene	ND		0.0500	0.00605	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Chloroethane	ND		0.100	0.0223	mg/Kg		03/16/23 10:19	03/16/23 13:07	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20595/3-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.01064	J	0.0500	0.00590	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Chloromethane	ND		0.100	0.0595	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2-Chlorotoluene	ND		0.0500	0.0124	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
4-Chlorotoluene	ND		0.0500	0.00905	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dibromo-3-Chloropropane	ND		0.100	0.0198	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Dibromochloromethane	ND		0.0500	0.00790	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dibromoethane (EDB)	ND		0.0500	0.0136	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Dibromomethane	ND		0.0500	0.00940	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dichlorobenzene	ND		0.0500	0.00900	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3-Dichlorobenzene	ND		0.0500	0.0125	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,4-Dichlorobenzene	ND		0.0500	0.00895	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Dichlorodifluoromethane (Freon 12)	ND		0.100	0.0655	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1-Dichloroethane	ND		0.0500	0.0116	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dichloroethane	ND		0.0500	0.0131	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1-Dichloroethene	ND		0.0500	0.0128	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
cis-1,2-Dichloroethene	ND		0.0500	0.0167	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
trans-1,2-Dichloroethene	ND		0.0500	0.0114	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dichloropropane	ND		0.0500	0.0174	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3-Dichloropropane	ND		0.0500	0.0158	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2,2-Dichloropropane	ND		0.0500	0.0132	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1-Dichloropropene	ND		0.0500	0.0153	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
cis-1,3-Dichloropropene	ND		0.0500	0.0118	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
trans-1,3-Dichloropropene	ND		0.0500	0.0204	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethylbenzene	ND		0.0500	0.0105	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Hexachlorobutadiene	ND		0.0500	0.0160	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2-Hexanone (MBK)	ND		0.100	0.0333	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Isopropylbenzene	ND		0.0500	0.0182	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
4-Isopropyltoluene	ND		0.0500	0.0139	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Methyl tert-butyl ether	ND		0.0500	0.0151	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		0.100	0.0358	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Methylene Chloride	ND		0.100	0.0427	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Naphthalene	ND		0.0500	0.0145	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
N-Propylbenzene	ND		0.0500	0.0125	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Styrene	ND		0.0500	0.00660	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0121	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0159	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Tetrachloroethene	ND		0.0500	0.0158	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Toluene	ND		0.0500	0.00805	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,3-Trichlorobenzene	ND		0.0500	0.0117	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,4-Trichlorobenzene	ND		0.0500	0.00825	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3,5-Trichlorobenzene	ND		0.0500	0.00790	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,1-Trichloroethane	ND		0.0500	0.0121	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,2-Trichloroethane	ND		0.0500	0.0155	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Trichloroethene	ND		0.0500	0.00855	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Trichlorofluoromethane (Freon 11)	ND		0.0500	0.0226	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,3-Trichloropropane	ND		0.0500	0.0231	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,4-Trimethylbenzene	ND		0.0500	0.0127	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3,5-Trimethylbenzene	ND		0.0500	0.0105	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Vinyl chloride	ND		0.0500	0.0246	mg/Kg		03/16/23 10:19	03/16/23 13:07	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20595/3-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.0500	0.0294	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
o-Xylene	ND		0.0500	0.0154	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Tetrahydrofuran	ND		0.100	0.0366	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethyl ether	ND		0.0500	0.0136	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Tert-amyl methyl ether	ND		0.0500	0.0277	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethyl tert-butyl ether	ND		0.0500	0.0139	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
di-Isopropyl ether	ND		0.0500	0.0162	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
tert-Butanol	ND		1.00	0.710	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,4-Dioxane	ND		1.00	0.295	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
trans-1,4-Dichloro-2-butene	ND		0.250	0.0330	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethanol	ND		10.0	0.860	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3-Dichloropropene, Total	ND		0.0500	0.0204	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Xylenes, Total	ND		0.150	0.150	mg/Kg		03/16/23 10:19	03/16/23 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*

Lab Sample ID: LCS 620-20595/1-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.00	1.012		mg/Kg		101	70 - 130
Acetone	1.00	1.119		mg/Kg		112	70 - 130
Acrylonitrile	1.00	1.052		mg/Kg		105	70 - 130
Benzene	1.00	1.092		mg/Kg		109	70 - 130
Bromobenzene	1.00	0.9902		mg/Kg		99	70 - 130
Bromochloromethane	1.00	1.099		mg/Kg		110	70 - 130
Bromodichloromethane	1.00	1.055		mg/Kg		105	70 - 130
Bromoform	1.00	1.018		mg/Kg		102	70 - 130
Bromomethane	1.00	1.020		mg/Kg		102	70 - 130
2-Butanone (MEK)	1.00	1.111		mg/Kg		111	70 - 130
n-Butylbenzene	1.00	0.9030		mg/Kg		90	70 - 130
sec-Butylbenzene	1.00	0.8999		mg/Kg		90	70 - 130
tert-Butylbenzene	1.00	1.019		mg/Kg		102	70 - 130
Carbon disulfide	1.00	0.9574		mg/Kg		96	70 - 130
Carbon tetrachloride	1.00	1.035		mg/Kg		103	70 - 130
Chlorobenzene	1.00	0.9492		mg/Kg		95	70 - 130
Chloroethane	1.00	0.9780		mg/Kg		98	70 - 130
Chloroform	1.00	1.048		mg/Kg		105	70 - 130
Chloromethane	1.00	0.7897		mg/Kg		79	70 - 130
2-Chlorotoluene	1.00	1.062		mg/Kg		106	70 - 130
4-Chlorotoluene	1.00	1.074		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	1.00	0.9536		mg/Kg		95	70 - 130
Dibromochloromethane	1.00	1.081		mg/Kg		108	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20595/1-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.130		mg/Kg		113	70 - 130
Dibromomethane	1.00	1.081		mg/Kg		108	70 - 130
1,2-Dichlorobenzene	1.00	1.000		mg/Kg		100	70 - 130
1,3-Dichlorobenzene	1.00	1.043		mg/Kg		104	70 - 130
1,4-Dichlorobenzene	1.00	0.9140		mg/Kg		91	70 - 130
Dichlorodifluoromethane (Freon 12)	1.00	0.5902	*-	mg/Kg		59	70 - 130
1,1-Dichloroethane	1.00	1.069		mg/Kg		107	70 - 130
1,2-Dichloroethane	1.00	1.086		mg/Kg		109	70 - 130
1,1-Dichloroethene	1.00	1.032		mg/Kg		103	70 - 130
cis-1,2-Dichloroethene	1.00	1.046		mg/Kg		105	70 - 130
trans-1,2-Dichloroethene	1.00	1.052		mg/Kg		105	70 - 130
1,2-Dichloropropane	1.00	1.100		mg/Kg		110	70 - 130
1,3-Dichloropropane	1.00	1.133		mg/Kg		113	70 - 130
2,2-Dichloropropane	1.00	1.036		mg/Kg		104	70 - 130
1,1-Dichloropropene	1.00	1.132		mg/Kg		113	70 - 130
cis-1,3-Dichloropropene	1.00	1.127		mg/Kg		113	70 - 130
trans-1,3-Dichloropropene	1.00	1.205		mg/Kg		121	70 - 130
Ethylbenzene	1.00	0.9995		mg/Kg		100	70 - 130
Hexachlorobutadiene	1.00	0.9648		mg/Kg		96	70 - 130
2-Hexanone (MBK)	1.00	1.006		mg/Kg		101	70 - 130
Isopropylbenzene	1.00	0.9438		mg/Kg		94	70 - 130
4-Isopropyltoluene	1.00	0.9092		mg/Kg		91	70 - 130
Methyl tert-butyl ether	1.00	1.180		mg/Kg		118	70 - 130
4-Methyl-2-pentanone (MIBK)	1.00	1.145		mg/Kg		115	70 - 130
Methylene Chloride	1.00	1.012		mg/Kg		101	70 - 130
Naphthalene	1.00	0.9554		mg/Kg		96	70 - 130
N-Propylbenzene	1.00	1.037		mg/Kg		104	70 - 130
Styrene	1.00	0.9755		mg/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	1.00	0.9601		mg/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	1.00	0.9862		mg/Kg		99	70 - 130
Tetrachloroethene	1.00	1.054		mg/Kg		105	70 - 130
Toluene	1.00	1.067		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	1.00	1.002		mg/Kg		100	70 - 130
1,2,4-Trichlorobenzene	1.00	0.9689		mg/Kg		97	70 - 130
1,3,5-Trichlorobenzene	1.00	1.010		mg/Kg		101	70 - 130
1,1,1-Trichloroethane	1.00	1.039		mg/Kg		104	70 - 130
1,1,2-Trichloroethane	1.00	1.088		mg/Kg		109	70 - 130
Trichloroethene	1.00	1.041		mg/Kg		104	70 - 130
Trichlorofluoromethane (Freon 11)	1.00	0.9790		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	1.00	0.9926		mg/Kg		99	70 - 130
1,2,4-Trimethylbenzene	1.00	0.9393		mg/Kg		94	70 - 130
1,3,5-Trimethylbenzene	1.00	0.9384		mg/Kg		94	70 - 130
Vinyl chloride	1.00	0.8687		mg/Kg		87	70 - 130
m,p-Xylene	1.00	1.070		mg/Kg		107	70 - 130
o-Xylene	1.00	0.9554		mg/Kg		96	70 - 130
Tetrahydrofuran	1.00	1.134		mg/Kg		113	70 - 130
Ethyl ether	1.00	1.132		mg/Kg		113	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20595/1-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			1.00	1.162		mg/Kg		116	70 - 130		
Ethyl tert-butyl ether			1.00	1.044		mg/Kg		104	70 - 130		
di-Isopropyl ether			1.00	1.176		mg/Kg		118	70 - 130		
tert-Butanol			10.0	11.44		mg/Kg		114	70 - 130		
1,4-Dioxane			10.0	10.52		mg/Kg		105	70 - 130		
trans-1,4-Dichloro-2-butene			1.00	1.041		mg/Kg		104	70 - 130		
Ethanol			20.0	16.84		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 620-20595/2-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			1.00	0.9532		mg/Kg		95	70 - 130	6	30
Acetone			1.00	0.8914		mg/Kg		89	70 - 130	23	30
Acrylonitrile			1.00	0.9672		mg/Kg		97	70 - 130	8	30
Benzene			1.00	1.044		mg/Kg		104	70 - 130	4	30
Bromobenzene			1.00	0.9579		mg/Kg		96	70 - 130	3	30
Bromochloromethane			1.00	1.023		mg/Kg		102	70 - 130	7	30
Bromodichloromethane			1.00	0.9837		mg/Kg		98	70 - 130	7	30
Bromoform			1.00	0.9581		mg/Kg		96	70 - 130	6	30
Bromomethane			1.00	0.9355		mg/Kg		94	70 - 130	9	30
2-Butanone (MEK)			1.00	1.076		mg/Kg		108	70 - 130	3	30
n-Butylbenzene			1.00	0.8999		mg/Kg		90	70 - 130	0	30
sec-Butylbenzene			1.00	0.8891		mg/Kg		89	70 - 130	1	30
tert-Butylbenzene			1.00	0.9847		mg/Kg		98	70 - 130	3	30
Carbon disulfide			1.00	0.9042		mg/Kg		90	70 - 130	6	30
Carbon tetrachloride			1.00	0.9891		mg/Kg		99	70 - 130	5	30
Chlorobenzene			1.00	0.9108		mg/Kg		91	70 - 130	4	30
Chloroethane			1.00	0.8723		mg/Kg		87	70 - 130	11	30
Chloroform			1.00	0.9812		mg/Kg		98	70 - 130	7	30
Chloromethane			1.00	0.7392		mg/Kg		74	70 - 130	7	30
2-Chlorotoluene			1.00	1.027		mg/Kg		103	70 - 130	3	30
4-Chlorotoluene			1.00	1.032		mg/Kg		103	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			1.00	0.9106		mg/Kg		91	70 - 130	5	30
Dibromochloromethane			1.00	1.005		mg/Kg		101	70 - 130	7	30
1,2-Dibromoethane (EDB)			1.00	1.064		mg/Kg		106	70 - 130	6	30
Dibromomethane			1.00	0.9978		mg/Kg		100	70 - 130	8	30
1,2-Dichlorobenzene			1.00	0.9665		mg/Kg		97	70 - 130	3	30
1,3-Dichlorobenzene			1.00	1.009		mg/Kg		101	70 - 130	3	30
1,4-Dichlorobenzene			1.00	0.8663		mg/Kg		87	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20595/2-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	1.00	0.5537	*-	mg/Kg		55	70 - 130	6	30
1,1-Dichloroethane	1.00	0.9963		mg/Kg		100	70 - 130	7	30
1,2-Dichloroethane	1.00	1.011		mg/Kg		101	70 - 130	7	30
1,1-Dichloroethene	1.00	0.9764		mg/Kg		98	70 - 130	6	30
cis-1,2-Dichloroethene	1.00	0.9894		mg/Kg		99	70 - 130	6	30
trans-1,2-Dichloroethene	1.00	1.003		mg/Kg		100	70 - 130	5	30
1,2-Dichloropropane	1.00	1.029		mg/Kg		103	70 - 130	7	30
1,3-Dichloropropane	1.00	1.055		mg/Kg		105	70 - 130	7	30
2,2-Dichloropropane	1.00	0.9944		mg/Kg		99	70 - 130	4	30
1,1-Dichloropropene	1.00	1.085		mg/Kg		109	70 - 130	4	30
cis-1,3-Dichloropropene	1.00	1.071		mg/Kg		107	70 - 130	5	30
trans-1,3-Dichloropropene	1.00	1.131		mg/Kg		113	70 - 130	6	30
Ethylbenzene	1.00	0.9706		mg/Kg		97	70 - 130	3	30
Hexachlorobutadiene	1.00	0.9496		mg/Kg		95	70 - 130	2	30
2-Hexanone (MBK)	1.00	0.9553		mg/Kg		96	70 - 130	5	30
Isopropylbenzene	1.00	0.9296		mg/Kg		93	70 - 130	2	30
4-Isopropyltoluene	1.00	0.9125		mg/Kg		91	70 - 130	0	30
Methyl tert-butyl ether	1.00	1.115		mg/Kg		112	70 - 130	6	30
4-Methyl-2-pentanone (MIBK)	1.00	1.062		mg/Kg		106	70 - 130	8	30
Methylene Chloride	1.00	0.9492		mg/Kg		95	70 - 130	6	30
Naphthalene	1.00	0.9401		mg/Kg		94	70 - 130	2	30
N-Propylbenzene	1.00	1.009		mg/Kg		101	70 - 130	3	30
Styrene	1.00	0.9403		mg/Kg		94	70 - 130	4	30
1,1,1,2-Tetrachloroethane	1.00	0.9244		mg/Kg		92	70 - 130	4	30
1,1,2,2-Tetrachloroethane	1.00	0.9333		mg/Kg		93	70 - 130	6	30
Tetrachloroethene	1.00	1.022		mg/Kg		102	70 - 130	3	30
Toluene	1.00	1.010		mg/Kg		101	70 - 130	5	30
1,2,3-Trichlorobenzene	1.00	0.9932		mg/Kg		99	70 - 130	1	30
1,2,4-Trichlorobenzene	1.00	0.9679		mg/Kg		97	70 - 130	0	30
1,3,5-Trichlorobenzene	1.00	0.9943		mg/Kg		99	70 - 130	2	30
1,1,1-Trichloroethane	1.00	0.9889		mg/Kg		99	70 - 130	5	30
1,1,2-Trichloroethane	1.00	1.013		mg/Kg		101	70 - 130	7	30
Trichloroethene	1.00	0.9718		mg/Kg		97	70 - 130	7	30
Trichlorofluoromethane (Freon 11)	1.00	0.9144		mg/Kg		91	70 - 130	7	30
1,2,3-Trichloropropane	1.00	0.9307		mg/Kg		93	70 - 130	6	30
1,2,4-Trimethylbenzene	1.00	0.9104		mg/Kg		91	70 - 130	3	30
1,3,5-Trimethylbenzene	1.00	0.9128		mg/Kg		91	70 - 130	3	30
Vinyl chloride	1.00	0.8051		mg/Kg		81	70 - 130	8	30
m,p-Xylene	1.00	1.041		mg/Kg		104	70 - 130	3	30
o-Xylene	1.00	0.9388		mg/Kg		94	70 - 130	2	30
Tetrahydrofuran	1.00	1.036		mg/Kg		104	70 - 130	9	30
Ethyl ether	1.00	1.060		mg/Kg		106	70 - 130	7	30
Tert-amyl methyl ether	1.00	1.103		mg/Kg		110	70 - 130	5	30
Ethyl tert-butyl ether	1.00	0.9981		mg/Kg		100	70 - 130	4	30
di-Isopropyl ether	1.00	1.115		mg/Kg		112	70 - 130	5	30
tert-Butanol	10.0	10.82		mg/Kg		108	70 - 130	6	30
1,4-Dioxane	10.0	10.08		mg/Kg		101	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20595/2-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			1.00	0.9049		mg/Kg		90	70 - 130	14	30
Ethanol			20.0	16.18		mg/Kg		81	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Acetone	0.02970	J	0.0500	0.0112	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/16/23 16:25	03/16/23 21:45	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/16/23 16:25	03/16/23 21:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*

Lab Sample ID: LCS 620-20616/1-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01803		mg/Kg		90	70 - 130
Acetone	0.0200	0.01816	J	mg/Kg		91	70 - 130
Acrylonitrile	0.0200	0.01931		mg/Kg		97	70 - 130
Benzene	0.0200	0.01924		mg/Kg		96	70 - 130
Bromobenzene	0.0200	0.01786		mg/Kg		89	70 - 130
Bromochloromethane	0.0200	0.01914		mg/Kg		96	70 - 130
Bromodichloromethane	0.0200	0.02073		mg/Kg		104	70 - 130
Bromoform	0.0200	0.01981		mg/Kg		99	70 - 130
Bromomethane	0.0200	0.01653		mg/Kg		83	70 - 130
2-Butanone (MEK)	0.0200	0.01602		mg/Kg		80	70 - 130
n-Butylbenzene	0.0200	0.01855		mg/Kg		93	70 - 130
sec-Butylbenzene	0.0200	0.01838		mg/Kg		92	70 - 130
tert-Butylbenzene	0.0200	0.01802		mg/Kg		90	70 - 130
Carbon disulfide	0.0200	0.01735		mg/Kg		87	70 - 130
Carbon tetrachloride	0.0200	0.01857		mg/Kg		93	70 - 130
Chlorobenzene	0.0200	0.02036		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.01577		mg/Kg		79	70 - 130
Chloroform	0.0200	0.01906		mg/Kg		95	70 - 130
Chloromethane	0.0200	0.01921		mg/Kg		96	70 - 130
2-Chlorotoluene	0.0200	0.01859		mg/Kg		93	70 - 130
4-Chlorotoluene	0.0200	0.01818		mg/Kg		91	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01902		mg/Kg		95	70 - 130
Dibromochloromethane	0.0200	0.02043		mg/Kg		102	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.01910		mg/Kg		96	70 - 130
Dibromomethane	0.0200	0.01952		mg/Kg		98	70 - 130
1,2-Dichlorobenzene	0.0200	0.01914		mg/Kg		96	70 - 130
1,3-Dichlorobenzene	0.0200	0.01796		mg/Kg		90	70 - 130
1,4-Dichlorobenzene	0.0200	0.01889		mg/Kg		94	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01289	*-	mg/Kg		64	70 - 130
1,1-Dichloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,2-Dichloroethane	0.0200	0.01890		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0200	0.01926		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01950		mg/Kg		98	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.02084		mg/Kg		104	70 - 130
1,3-Dichloropropane	0.0200	0.01822		mg/Kg		91	70 - 130
2,2-Dichloropropane	0.0200	0.01862		mg/Kg		93	70 - 130
1,1-Dichloropropene	0.0200	0.01716		mg/Kg		86	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20616/1-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0200	0.01748		mg/Kg		87	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01870		mg/Kg		94	70 - 130
Ethylbenzene	0.0200	0.01943		mg/Kg		97	70 - 130
Hexachlorobutadiene	0.0200	0.01709		mg/Kg		85	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01828		mg/Kg		91	70 - 130
4-Isopropyltoluene	0.0200	0.01771		mg/Kg		89	70 - 130
Methyl tert-butyl ether	0.0200	0.01782		mg/Kg		89	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01579		mg/Kg		79	70 - 130
Methylene Chloride	0.0200	0.01801		mg/Kg		90	70 - 130
Naphthalene	0.0200	0.01935		mg/Kg		97	70 - 130
N-Propylbenzene	0.0200	0.01862		mg/Kg		93	70 - 130
Styrene	0.0200	0.01907		mg/Kg		95	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01909		mg/Kg		95	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02046		mg/Kg		102	70 - 130
Tetrachloroethene	0.0200	0.01796		mg/Kg		90	70 - 130
Toluene	0.0200	0.01885		mg/Kg		94	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01882		mg/Kg		94	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01788		mg/Kg		89	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01765		mg/Kg		88	70 - 130
1,1,1-Trichloroethane	0.0200	0.01934		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0200	0.02038		mg/Kg		102	70 - 130
Trichloroethene	0.0200	0.01822		mg/Kg		91	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01970		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	0.0200	0.01853		mg/Kg		93	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01857		mg/Kg		93	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01882		mg/Kg		94	70 - 130
Vinyl chloride	0.0200	0.01743		mg/Kg		87	70 - 130
m,p-Xylene	0.0400	0.04174		mg/Kg		104	70 - 130
o-Xylene	0.0200	0.01908		mg/Kg		95	70 - 130
Tetrahydrofuran	0.0200	0.01838		mg/Kg		92	70 - 130
Ethyl ether	0.0200	0.01721		mg/Kg		86	70 - 130
Tert-amyl methyl ether	0.0200	0.01811		mg/Kg		91	70 - 130
Ethyl tert-butyl ether	0.0200	0.01744		mg/Kg		87	70 - 130
di-Isopropyl ether	0.0200	0.01764		mg/Kg		88	70 - 130
tert-Butanol	0.200	0.1820		mg/Kg		91	70 - 130
1,4-Dioxane	0.200	0.1904		mg/Kg		95	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02067	J	mg/Kg		103	70 - 130
Ethanol	0.400	0.4020	J	mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20616/2-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01715		mg/Kg		86	70 - 130	5	30
Acetone	0.0200	0.01920	J	mg/Kg		96	70 - 130	6	30
Acrylonitrile	0.0200	0.01872		mg/Kg		94	70 - 130	3	30
Benzene	0.0200	0.01923		mg/Kg		96	70 - 130	0	30
Bromobenzene	0.0200	0.01785		mg/Kg		89	70 - 130	0	30
Bromochloromethane	0.0200	0.01910		mg/Kg		95	70 - 130	0	30
Bromodichloromethane	0.0200	0.02078		mg/Kg		104	70 - 130	0	30
Bromoform	0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Bromomethane	0.0200	0.01632		mg/Kg		82	70 - 130	1	30
2-Butanone (MEK)	0.0200	0.01676		mg/Kg		84	70 - 130	5	30
n-Butylbenzene	0.0200	0.01867		mg/Kg		93	70 - 130	1	30
sec-Butylbenzene	0.0200	0.01844		mg/Kg		92	70 - 130	0	30
tert-Butylbenzene	0.0200	0.01822		mg/Kg		91	70 - 130	1	30
Carbon disulfide	0.0200	0.01649		mg/Kg		82	70 - 130	5	30
Carbon tetrachloride	0.0200	0.01833		mg/Kg		92	70 - 130	1	30
Chlorobenzene	0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloroethane	0.0200	0.01560		mg/Kg		78	70 - 130	1	30
Chloroform	0.0200	0.01900		mg/Kg		95	70 - 130	0	30
Chloromethane	0.0200	0.01933		mg/Kg		97	70 - 130	1	30
2-Chlorotoluene	0.0200	0.01840		mg/Kg		92	70 - 130	1	30
4-Chlorotoluene	0.0200	0.01830		mg/Kg		92	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02034		mg/Kg		102	70 - 130	7	30
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130	2	30
1,2-Dibromoethane (EDB)	0.0200	0.01887		mg/Kg		94	70 - 130	1	30
Dibromomethane	0.0200	0.01931		mg/Kg		97	70 - 130	1	30
1,2-Dichlorobenzene	0.0200	0.01907		mg/Kg		95	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.01813		mg/Kg		91	70 - 130	1	30
1,4-Dichlorobenzene	0.0200	0.01907		mg/Kg		95	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01283	*-	mg/Kg		64	70 - 130	0	30
1,1-Dichloroethane	0.0200	0.02011		mg/Kg		101	70 - 130	1	30
1,2-Dichloroethane	0.0200	0.01876		mg/Kg		94	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.01855		mg/Kg		93	70 - 130	4	30
cis-1,2-Dichloroethene	0.0200	0.01945		mg/Kg		97	70 - 130	0	30
trans-1,2-Dichloroethene	0.0200	0.01960		mg/Kg		98	70 - 130	1	30
1,2-Dichloropropane	0.0200	0.02085		mg/Kg		104	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.01799		mg/Kg		90	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01842		mg/Kg		92	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.01728		mg/Kg		86	70 - 130	1	30
cis-1,3-Dichloropropene	0.0200	0.01773		mg/Kg		89	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.01841		mg/Kg		92	70 - 130	2	30
Ethylbenzene	0.0200	0.01964		mg/Kg		98	70 - 130	1	30
Hexachlorobutadiene	0.0200	0.01727		mg/Kg		86	70 - 130	1	30
2-Hexanone (MBK)	0.0200	0.01570		mg/Kg		78	70 - 130	4	30
Isopropylbenzene	0.0200	0.01846		mg/Kg		92	70 - 130	1	30
4-Isopropyltoluene	0.0200	0.01789		mg/Kg		89	70 - 130	1	30
Methyl tert-butyl ether	0.0200	0.01762		mg/Kg		88	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01631		mg/Kg		82	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20616/2-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			0.0200	0.01806		mg/Kg		90	70 - 130	0	30
Naphthalene			0.0200	0.02041		mg/Kg		102	70 - 130	5	30
N-Propylbenzene			0.0200	0.01859		mg/Kg		93	70 - 130	0	30
Styrene			0.0200	0.01917		mg/Kg		96	70 - 130	1	30
1,1,1,2-Tetrachloroethane			0.0200	0.01918		mg/Kg		96	70 - 130	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.02057		mg/Kg		103	70 - 130	1	30
Tetrachloroethene			0.0200	0.01812		mg/Kg		91	70 - 130	1	30
Toluene			0.0200	0.01867		mg/Kg		93	70 - 130	1	30
1,2,3-Trichlorobenzene			0.0200	0.01928		mg/Kg		96	70 - 130	2	30
1,2,4-Trichlorobenzene			0.0200	0.01818		mg/Kg		91	70 - 130	2	30
1,3,5-Trichlorobenzene			0.0200	0.01780		mg/Kg		89	70 - 130	1	30
1,1,1-Trichloroethane			0.0200	0.01914		mg/Kg		96	70 - 130	1	30
1,1,2-Trichloroethane			0.0200	0.02029		mg/Kg		101	70 - 130	0	30
Trichloroethene			0.0200	0.01850		mg/Kg		93	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01958		mg/Kg		98	70 - 130	1	30
1,2,3-Trichloropropane			0.0200	0.01854		mg/Kg		93	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0200	0.01859		mg/Kg		93	70 - 130	0	30
1,3,5-Trimethylbenzene			0.0200	0.01863		mg/Kg		93	70 - 130	1	30
Vinyl chloride			0.0200	0.01731		mg/Kg		87	70 - 130	1	30
m,p-Xylene			0.0400	0.04198		mg/Kg		105	70 - 130	1	30
o-Xylene			0.0200	0.01911		mg/Kg		96	70 - 130	0	30
Tetrahydrofuran			0.0200	0.01834		mg/Kg		92	70 - 130	0	30
Ethyl ether			0.0200	0.01708		mg/Kg		85	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.01780		mg/Kg		89	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01760		mg/Kg		88	70 - 130	1	30
di-Isopropyl ether			0.0200	0.01767		mg/Kg		88	70 - 130	0	30
tert-Butanol			0.200	0.1841		mg/Kg		92	70 - 130	1	30
1,4-Dioxane			0.200	0.1957		mg/Kg		98	70 - 130	3	30
trans-1,4-Dichloro-2-butene			0.0200	0.01973	J	mg/Kg		99	70 - 130	5	30
Ethanol			0.400	0.4058	J	mg/Kg		101	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.00500	0.00317	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02162		mg/Kg		108	70 - 130
Acetone	0.0200	0.02439	J	mg/Kg		122	70 - 130
Acrylonitrile	0.0200	0.02229		mg/Kg		111	70 - 130
Benzene	0.0200	0.02109		mg/Kg		105	70 - 130
Bromobenzene	0.0200	0.01959		mg/Kg		98	70 - 130
Bromochloromethane	0.0200	0.02002		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.02108		mg/Kg		105	70 - 130
Bromoform	0.0200	0.02001		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02469		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.01990		mg/Kg		100	70 - 130
n-Butylbenzene	0.0200	0.02248		mg/Kg		112	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	0.0200	0.02155		mg/Kg		108	70 - 130
tert-Butylbenzene	0.0200	0.02024		mg/Kg		101	70 - 130
Carbon disulfide	0.0200	0.02177		mg/Kg		109	70 - 130
Carbon tetrachloride	0.0200	0.02034		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02157		mg/Kg		108	70 - 130
Chloroethane	0.0200	0.02688	*+	mg/Kg		134	70 - 130
Chloroform	0.0200	0.02092		mg/Kg		105	70 - 130
Chloromethane	0.0200	0.02174		mg/Kg		109	70 - 130
2-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
4-Chlorotoluene	0.0200	0.02143		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02250		mg/Kg		112	70 - 130
Dibromochloromethane	0.0200	0.01991		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02036		mg/Kg		102	70 - 130
Dibromomethane	0.0200	0.02094		mg/Kg		105	70 - 130
1,2-Dichlorobenzene	0.0200	0.02118		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02050		mg/Kg		103	70 - 130
1,4-Dichlorobenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.02064		mg/Kg		103	70 - 130
1,1-Dichloroethane	0.0200	0.02142		mg/Kg		107	70 - 130
1,2-Dichloroethane	0.0200	0.02137		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0200	0.02122		mg/Kg		106	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02044		mg/Kg		102	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02092		mg/Kg		105	70 - 130
1,2-Dichloropropane	0.0200	0.02134		mg/Kg		107	70 - 130
1,3-Dichloropropane	0.0200	0.02139		mg/Kg		107	70 - 130
2,2-Dichloropropane	0.0200	0.02112		mg/Kg		106	70 - 130
1,1-Dichloropropene	0.0200	0.02145		mg/Kg		107	70 - 130
cis-1,3-Dichloropropene	0.0200	0.02085		mg/Kg		104	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02089		mg/Kg		104	70 - 130
Ethylbenzene	0.0200	0.02187		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.01916		mg/Kg		96	70 - 130
2-Hexanone (MBK)	0.0200	0.02209		mg/Kg		110	70 - 130
Isopropylbenzene	0.0200	0.02119		mg/Kg		106	70 - 130
4-Isopropyltoluene	0.0200	0.02148		mg/Kg		107	70 - 130
Methyl tert-butyl ether	0.0200	0.02097		mg/Kg		105	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02150		mg/Kg		107	70 - 130
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130
Naphthalene	0.0200	0.02395		mg/Kg		120	70 - 130
N-Propylbenzene	0.0200	0.02205		mg/Kg		110	70 - 130
Styrene	0.0200	0.02086		mg/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02040		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02294		mg/Kg		115	70 - 130
Tetrachloroethene	0.0200	0.01886		mg/Kg		94	70 - 130
Toluene	0.0200	0.02036		mg/Kg		102	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02314		mg/Kg		116	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02111		mg/Kg		106	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02144		mg/Kg		107	70 - 130
1,1,1-Trichloroethane	0.0200	0.02078		mg/Kg		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0200	0.02117		mg/Kg		106	70 - 130
Trichloroethene	0.0200	0.02063		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02132		mg/Kg		107	70 - 130
1,2,3-Trichloropropane	0.0200	0.02233		mg/Kg		112	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02125		mg/Kg		106	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02104		mg/Kg		105	70 - 130
Vinyl chloride	0.0200	0.02439		mg/Kg		122	70 - 130
m,p-Xylene	0.0200	0.02127		mg/Kg		106	70 - 130
o-Xylene	0.0200	0.02098		mg/Kg		105	70 - 130
Tetrahydrofuran	0.0200	0.02224		mg/Kg		111	70 - 130
Ethyl ether	0.0200	0.02125		mg/Kg		106	70 - 130
Tert-amyl methyl ether	0.0200	0.02090		mg/Kg		104	70 - 130
Ethyl tert-butyl ether	0.0200	0.02059		mg/Kg		103	70 - 130
di-Isopropyl ether	0.0200	0.02109		mg/Kg		105	70 - 130
tert-Butanol	0.200	0.2087		mg/Kg		104	70 - 130
1,4-Dioxane	0.200	0.2228		mg/Kg		111	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02169	J	mg/Kg		108	70 - 130
Ethanol	0.400	0.4133	J	mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02213		mg/Kg		111	70 - 130	2	30
Acetone	0.0200	0.02167	J	mg/Kg		108	70 - 130	12	30
Acrylonitrile	0.0200	0.02246		mg/Kg		112	70 - 130	1	30
Benzene	0.0200	0.02181		mg/Kg		109	70 - 130	3	30
Bromobenzene	0.0200	0.02014		mg/Kg		101	70 - 130	3	30
Bromochloromethane	0.0200	0.02033		mg/Kg		102	70 - 130	2	30
Bromodichloromethane	0.0200	0.02140		mg/Kg		107	70 - 130	1	30
Bromoform	0.0200	0.01999		mg/Kg		100	70 - 130	0	30
Bromomethane	0.0200	0.02616	*+	mg/Kg		131	70 - 130	6	30
2-Butanone (MEK)	0.0200	0.02080		mg/Kg		104	70 - 130	4	30
n-Butylbenzene	0.0200	0.02318		mg/Kg		116	70 - 130	3	30
sec-Butylbenzene	0.0200	0.02238		mg/Kg		112	70 - 130	4	30
tert-Butylbenzene	0.0200	0.02094		mg/Kg		105	70 - 130	3	30
Carbon disulfide	0.0200	0.02254		mg/Kg		113	70 - 130	3	30
Carbon tetrachloride	0.0200	0.02100		mg/Kg		105	70 - 130	3	30
Chlorobenzene	0.0200	0.02217		mg/Kg		111	70 - 130	3	30
Chloroethane	0.0200	0.02865	*+	mg/Kg		143	70 - 130	6	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform			0.0200	0.02161		mg/Kg		108	70 - 130	3	30
Chloromethane			0.0200	0.02256		mg/Kg		113	70 - 130	4	30
2-Chlorotoluene			0.0200	0.02163		mg/Kg		108	70 - 130	4	30
4-Chlorotoluene			0.0200	0.02188		mg/Kg		109	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02246		mg/Kg		112	70 - 130	0	30
Dibromochloromethane			0.0200	0.02032		mg/Kg		102	70 - 130	2	30
1,2-Dibromoethane (EDB)			0.0200	0.02096		mg/Kg		105	70 - 130	3	30
Dibromomethane			0.0200	0.02132		mg/Kg		107	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02194		mg/Kg		110	70 - 130	4	30
1,3-Dichlorobenzene			0.0200	0.02093		mg/Kg		105	70 - 130	2	30
1,4-Dichlorobenzene			0.0200	0.02222		mg/Kg		111	70 - 130	4	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.02130		mg/Kg		107	70 - 130	3	30
1,1-Dichloroethane			0.0200	0.02247		mg/Kg		112	70 - 130	5	30
1,2-Dichloroethane			0.0200	0.02195		mg/Kg		110	70 - 130	3	30
1,1-Dichloroethene			0.0200	0.02155		mg/Kg		108	70 - 130	2	30
cis-1,2-Dichloroethene			0.0200	0.02152		mg/Kg		108	70 - 130	5	30
trans-1,2-Dichloroethene			0.0200	0.02154		mg/Kg		108	70 - 130	3	30
1,2-Dichloropropane			0.0200	0.02238		mg/Kg		112	70 - 130	5	30
1,3-Dichloropropane			0.0200	0.02193		mg/Kg		110	70 - 130	3	30
2,2-Dichloropropane			0.0200	0.02152		mg/Kg		108	70 - 130	2	30
1,1-Dichloropropene			0.0200	0.02214		mg/Kg		111	70 - 130	3	30
cis-1,3-Dichloropropene			0.0200	0.02144		mg/Kg		107	70 - 130	3	30
trans-1,3-Dichloropropene			0.0200	0.02168		mg/Kg		108	70 - 130	4	30
Ethylbenzene			0.0200	0.02221		mg/Kg		111	70 - 130	2	30
Hexachlorobutadiene			0.0200	0.01978		mg/Kg		99	70 - 130	3	30
2-Hexanone (MBK)			0.0200	0.02103		mg/Kg		105	70 - 130	5	30
Isopropylbenzene			0.0200	0.02169		mg/Kg		108	70 - 130	2	30
4-Isopropyltoluene			0.0200	0.02239		mg/Kg		112	70 - 130	4	30
Methyl tert-butyl ether			0.0200	0.02159		mg/Kg		108	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.02135		mg/Kg		107	70 - 130	1	30
Methylene Chloride			0.0200	0.02213		mg/Kg		111	70 - 130	3	30
Naphthalene			0.0200	0.02455		mg/Kg		123	70 - 130	2	30
N-Propylbenzene			0.0200	0.02273		mg/Kg		114	70 - 130	3	30
Styrene			0.0200	0.02158		mg/Kg		108	70 - 130	3	30
1,1,1,2-Tetrachloroethane			0.0200	0.02111		mg/Kg		106	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.02247		mg/Kg		112	70 - 130	2	30
Tetrachloroethene			0.0200	0.01921		mg/Kg		96	70 - 130	2	30
Toluene			0.0200	0.02128		mg/Kg		106	70 - 130	4	30
1,2,3-Trichlorobenzene			0.0200	0.02359		mg/Kg		118	70 - 130	2	30
1,2,4-Trichlorobenzene			0.0200	0.02160		mg/Kg		108	70 - 130	2	30
1,3,5-Trichlorobenzene			0.0200	0.02180		mg/Kg		109	70 - 130	2	30
1,1,1-Trichloroethane			0.0200	0.02158		mg/Kg		108	70 - 130	4	30
1,1,2-Trichloroethane			0.0200	0.02162		mg/Kg		108	70 - 130	2	30
Trichloroethene			0.0200	0.02143		mg/Kg		107	70 - 130	4	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02178		mg/Kg		109	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02221		mg/Kg		111	70 - 130	1	30
1,2,4-Trimethylbenzene			0.0200	0.02159		mg/Kg		108	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0200	0.02163		mg/Kg		108	70 - 130	3	30
Vinyl chloride			0.0200	0.02549		mg/Kg		127	70 - 130	4	30
m,p-Xylene			0.0200	0.02195		mg/Kg		110	70 - 130	3	30
o-Xylene			0.0200	0.02157		mg/Kg		108	70 - 130	3	30
Tetrahydrofuran			0.0200	0.02117		mg/Kg		106	70 - 130	5	30
Ethyl ether			0.0200	0.02142		mg/Kg		107	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.02136		mg/Kg		107	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.02108		mg/Kg		105	70 - 130	2	30
di-Isopropyl ether			0.0200	0.02132		mg/Kg		107	70 - 130	1	30
tert-Butanol			0.200	0.1961		mg/Kg		98	70 - 130	6	30
1,4-Dioxane			0.200	0.2075		mg/Kg		104	70 - 130	7	30
trans-1,4-Dichloro-2-butene			0.0200	0.02079	J	mg/Kg		104	70 - 130	4	30
Ethanol			0.400	0.4171	J	mg/Kg		104	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Aniline	ND		0.330	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachlorophenol	0.1786	J	0.330	0.135	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Phenol	ND		0.330	0.0680	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Terphenyl-d14	*79*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.069		mg/Kg		64	40 - 140
1,2,4-Trichlorobenzene	1.67	1.358		mg/Kg		81	40 - 140
1,2-Dichlorobenzene	1.67	1.310		mg/Kg		79	40 - 140
1,3-Dichlorobenzene	1.67	1.311		mg/Kg		79	40 - 140
1,4-Dichlorobenzene	1.67	1.283		mg/Kg		77	40 - 140
1-Methylnaphthalene	1.67	1.449		mg/Kg		87	40 - 140
2,4,5-Trichlorophenol	1.67	1.331		mg/Kg		80	30 - 130
2,4,6-Trichlorophenol	1.67	1.454		mg/Kg		87	30 - 130
2,4-Dichlorophenol	1.67	1.322		mg/Kg		79	30 - 130
2,4-Dimethylphenol	1.67	1.334		mg/Kg		80	30 - 130
2,4-Dinitrophenol	1.67	1.806		mg/Kg		108	30 - 130
2,4-Dinitrotoluene	1.67	1.477		mg/Kg		89	40 - 140
2,6-Dinitrotoluene	1.67	1.457		mg/Kg		87	40 - 140
2-Chloronaphthalene	1.67	1.440		mg/Kg		86	40 - 140
2-Chlorophenol	1.67	1.381		mg/Kg		83	30 - 130
2-Methylnaphthalene	1.67	1.470		mg/Kg		88	40 - 140
2-Methylphenol	1.67	1.501		mg/Kg		90	30 - 130
2-Nitroaniline	1.67	1.463		mg/Kg		88	40 - 140
2-Nitrophenol	1.67	1.405		mg/Kg		84	30 - 130
3 & 4 Methylphenol	1.67	1.515		mg/Kg		91	30 - 130
3,3'-Dichlorobenzidine	1.67	1.974		mg/Kg		118	40 - 140
3-Nitroaniline	1.67	1.047		mg/Kg		63	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.8543		mg/Kg		51	30 - 130
4-Bromophenyl phenyl ether	1.67	1.493		mg/Kg		90	40 - 140
4-Chloro-3-methylphenol	1.67	1.486		mg/Kg		89	30 - 130
4-Chloroaniline	1.67	0.7796		mg/Kg		47	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.358		mg/Kg		81	40 - 140
4-Nitroaniline	1.67	1.510		mg/Kg		91	40 - 140
4-Nitrophenol	1.67	1.370		mg/Kg		82	30 - 130
Acenaphthene	1.67	1.376		mg/Kg		83	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	1.67	1.390		mg/Kg		83	40 - 140
Acetophenone	1.67	1.453		mg/Kg		87	40 - 140
Aniline	1.67	1.116		mg/Kg		67	40 - 140
Anthracene	1.67	1.770		mg/Kg		106	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.593		mg/Kg		96	40 - 140
Benzidine	1.67	1.169		mg/Kg		70	40 - 140
Benzo[a]anthracene	1.67	1.690		mg/Kg		101	40 - 140
Benzo[a]pyrene	1.67	1.554		mg/Kg		93	40 - 140
Benzo[b]fluoranthene	1.67	1.438		mg/Kg		86	40 - 140
Benzo[g,h,i]perylene	1.67	1.634		mg/Kg		98	40 - 140
Benzo[k]fluoranthene	1.67	1.671		mg/Kg		100	40 - 140
Benzoic acid	1.67	0.6923		mg/Kg		42	30 - 130
Benzyl alcohol	1.67	1.316		mg/Kg		79	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.300		mg/Kg		78	40 - 140
Bis(2-chloroethyl)ether	1.67	1.355		mg/Kg		81	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.084		mg/Kg		65	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.752		mg/Kg		105	40 - 140
Butyl benzyl phthalate	1.67	1.664		mg/Kg		100	40 - 140
Carbazole	1.67	1.659		mg/Kg		100	40 - 140
Chrysene	1.67	1.721		mg/Kg		103	40 - 140
Dibenz(a,h)anthracene	1.67	1.512		mg/Kg		91	40 - 140
Dibenzofuran	1.67	1.508		mg/Kg		90	40 - 140
Diethyl phthalate	1.67	1.507		mg/Kg		90	40 - 140
Dimethyl phthalate	1.67	1.468		mg/Kg		88	40 - 140
Di-n-butyl phthalate	1.67	1.805		mg/Kg		108	40 - 140
Di-n-octyl phthalate	1.67	1.763		mg/Kg		106	40 - 140
Fluoranthene	1.67	1.699		mg/Kg		102	40 - 140
Fluorene	1.67	1.344		mg/Kg		81	40 - 140
Hexachlorobenzene	1.67	1.512		mg/Kg		91	40 - 140
Hexachlorobutadiene	1.67	1.169		mg/Kg		70	40 - 140
Hexachlorocyclopentadiene	1.67	1.432		mg/Kg		86	40 - 140
Hexachloroethane	1.67	1.373		mg/Kg		82	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.453		mg/Kg		87	40 - 140
Isophorone	1.67	1.151		mg/Kg		69	40 - 140
Naphthalene	1.67	1.388		mg/Kg		83	40 - 140
Nitrobenzene	1.67	1.475		mg/Kg		88	40 - 140
N-Nitrosodimethylamine	1.67	1.341		mg/Kg		80	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.495		mg/Kg		90	40 - 140
N-Nitrosodiphenylamine	1.67	1.573		mg/Kg		94	40 - 140
Pentachloronitrobenzene	1.67	1.139		mg/Kg		68	40 - 140
Pentachlorophenol	1.67	1.002		mg/Kg		60	30 - 130
Phenanthrene	1.67	1.592		mg/Kg		96	40 - 140
Phenol	1.67	1.528		mg/Kg		92	40 - 140
Pyrene	1.67	1.726		mg/Kg		104	40 - 140
Pyridine	1.67	1.093		mg/Kg		66	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*88*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.063		mg/Kg		64	40 - 140	1	30
1,2,4-Trichlorobenzene			1.67	1.322		mg/Kg		79	40 - 140	3	30
1,2-Dichlorobenzene			1.67	1.266		mg/Kg		76	40 - 140	3	30
1,3-Dichlorobenzene			1.67	1.278		mg/Kg		77	40 - 140	3	30
1,4-Dichlorobenzene			1.67	1.265		mg/Kg		76	40 - 140	1	30
1-Methylnaphthalene			1.67	1.447		mg/Kg		87	40 - 140	0	30
2,4,5-Trichlorophenol			1.67	1.329		mg/Kg		80	30 - 130	0	30
2,4,6-Trichlorophenol			1.67	1.456		mg/Kg		87	30 - 130	0	30
2,4-Dichlorophenol			1.67	1.282		mg/Kg		77	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.324		mg/Kg		79	30 - 130	1	30
2,4-Dinitrophenol			1.67	1.780		mg/Kg		107	30 - 130	1	30
2,4-Dinitrotoluene			1.67	1.493		mg/Kg		90	40 - 140	1	30
2,6-Dinitrotoluene			1.67	1.454		mg/Kg		87	40 - 140	0	30
2-Chloronaphthalene			1.67	1.413		mg/Kg		85	40 - 140	2	30
2-Chlorophenol			1.67	1.348		mg/Kg		81	30 - 130	2	30
2-Methylnaphthalene			1.67	1.442		mg/Kg		87	40 - 140	2	30
2-Methylphenol			1.67	1.469		mg/Kg		88	30 - 130	2	30
2-Nitroaniline			1.67	1.481		mg/Kg		89	40 - 140	1	30
2-Nitrophenol			1.67	1.379		mg/Kg		83	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.445		mg/Kg		87	30 - 130	5	30
3,3'-Dichlorobenzidine			1.67	1.855		mg/Kg		111	40 - 140	6	30
3-Nitroaniline			1.67	0.9972		mg/Kg		60	40 - 140	5	30
4,6-Dinitro-2-methylphenol			1.67	0.9243		mg/Kg		55	30 - 130	8	30
4-Bromophenyl phenyl ether			1.67	1.436		mg/Kg		86	40 - 140	4	30
4-Chloro-3-methylphenol			1.67	1.457		mg/Kg		87	30 - 130	2	30
4-Chloroaniline			1.67	0.7583		mg/Kg		45	40 - 140	3	30
4-Chlorophenyl phenyl ether			1.67	1.359		mg/Kg		82	40 - 140	0	30
4-Nitroaniline			1.67	1.409		mg/Kg		85	40 - 140	7	30
4-Nitrophenol			1.67	1.238		mg/Kg		74	30 - 130	10	30
Acenaphthene			1.67	1.350		mg/Kg		81	40 - 140	2	30
Acenaphthylene			1.67	1.388		mg/Kg		83	40 - 140	0	30
Acetophenone			1.67	1.417		mg/Kg		85	40 - 140	3	30
Aniline			1.67	1.015		mg/Kg		61	40 - 140	9	30
Anthracene			1.67	1.697		mg/Kg		102	40 - 140	4	30
Azobenzene/Diphenyldiazene			1.67	1.578		mg/Kg		95	40 - 140	1	30
Benzidine			1.67	1.298		mg/Kg		78	40 - 140	11	30
Benzo[a]anthracene			1.67	1.622		mg/Kg		97	40 - 140	4	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			1.67	1.491		mg/Kg		89	40 - 140	4	30
Benzo[b]fluoranthene			1.67	1.450		mg/Kg		87	40 - 140	1	30
Benzo[g,h,i]perylene			1.67	1.611		mg/Kg		97	40 - 140	1	30
Benzo[k]fluoranthene			1.67	1.552		mg/Kg		93	40 - 140	7	30
Benzoic acid			1.67	0.7118		mg/Kg		43	30 - 130	3	30
Benzyl alcohol			1.67	1.267		mg/Kg		76	40 - 140	4	30
Bis(2-chloroethoxy)methane			1.67	1.287		mg/Kg		77	40 - 140	1	30
Bis(2-chloroethyl)ether			1.67	1.316		mg/Kg		79	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.249		mg/Kg		75	40 - 140	14	30
Bis(2-ethylhexyl) phthalate			1.67	1.681		mg/Kg		101	40 - 140	4	30
Butyl benzyl phthalate			1.67	1.563		mg/Kg		94	40 - 140	6	30
Carbazole			1.67	1.586		mg/Kg		95	40 - 140	5	30
Chrysene			1.67	1.596		mg/Kg		96	40 - 140	8	30
Dibenz(a,h)anthracene			1.67	1.500		mg/Kg		90	40 - 140	1	30
Dibenzofuran			1.67	1.500		mg/Kg		90	40 - 140	1	30
Diethyl phthalate			1.67	1.459		mg/Kg		88	40 - 140	3	30
Dimethyl phthalate			1.67	1.437		mg/Kg		86	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.725		mg/Kg		104	40 - 140	5	30
Di-n-octyl phthalate			1.67	1.713		mg/Kg		103	40 - 140	3	30
Fluoranthene			1.67	1.612		mg/Kg		97	40 - 140	5	30
Fluorene			1.67	1.340		mg/Kg		80	40 - 140	0	30
Hexachlorobenzene			1.67	1.480		mg/Kg		89	40 - 140	2	30
Hexachlorobutadiene			1.67	1.146		mg/Kg		69	40 - 140	2	30
Hexachlorocyclopentadiene			1.67	1.443		mg/Kg		87	40 - 140	1	30
Hexachloroethane			1.67	1.349		mg/Kg		81	40 - 140	2	30
Indeno[1,2,3-cd]pyrene			1.67	1.447		mg/Kg		87	40 - 140	0	30
Isophorone			1.67	1.140		mg/Kg		68	40 - 140	1	30
Naphthalene			1.67	1.340		mg/Kg		80	40 - 140	3	30
Nitrobenzene			1.67	1.474		mg/Kg		88	40 - 140	0	30
N-Nitrosodimethylamine			1.67	1.347		mg/Kg		81	40 - 140	0	30
N-Nitrosodi-n-propylamine			1.67	1.423		mg/Kg		85	40 - 140	5	30
N-Nitrosodiphenylamine			1.67	1.536		mg/Kg		92	40 - 140	2	30
Pentachloronitrobenzene			1.67	1.099		mg/Kg		66	40 - 140	4	30
Pentachlorophenol			1.67	1.054		mg/Kg		63	30 - 130	5	30
Phenanthrene			1.67	1.519		mg/Kg		91	40 - 140	5	30
Phenol			1.67	1.488		mg/Kg		89	40 - 140	3	30
Pyrene			1.67	1.615		mg/Kg		97	40 - 140	7	30
Pyridine			1.67	1.154		mg/Kg		69	40 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*85*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*76*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660942/1-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Naphthalene	0.03635	J	0.0500	0.0340	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/09/23 07:17	03/09/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*115*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*
a,a,a-Trifluorotoluene (pid)	*114*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*

Lab Sample ID: LCS 480-660942/2-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.477		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.462		mg/Kg		98	70 - 130
Methyl tert-butyl ether	2.50	2.412		mg/Kg		96	70 - 130
m,p-Xylene	5.00	4.982		mg/Kg		100	70 - 130
Naphthalene	2.50	2.249		mg/Kg		90	70 - 130
o-Xylene	2.50	2.465		mg/Kg		99	70 - 130
Toluene	2.50	2.480		mg/Kg		99	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.658		mg/Kg		102	70 - 130
C9-C10 Aromatics	2.50	2.460		mg/Kg		98	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.320		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Lab Sample ID: LCSD 480-660942/3-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene	2.50	2.472		mg/Kg		99	70 - 130	0	25
Methyl tert-butyl ether	2.50	2.445		mg/Kg		98	70 - 130	1	25
m,p-Xylene	5.00	4.933		mg/Kg		99	70 - 130	1	25
Naphthalene	2.50	2.324		mg/Kg		93	70 - 130	3	25
o-Xylene	2.50	2.451		mg/Kg		98	70 - 130	1	25
Toluene	2.50	2.465		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)	7.50	7.534		mg/Kg		100	70 - 130	2	25

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660942/3-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660942

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			2.50	2.414		mg/Kg		97	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.204		mg/Kg		96	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20416/1-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:30	03/11/23 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*
Tetrachloro-m-xylene	*59*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*

Lab Sample ID: LCS 620-20416/2-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20416

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016			0.167	0.1627		mg/Kg		98	40 - 140
PCB-1016			0.167	0.1689		mg/Kg		101	40 - 140
PCB-1260			0.167	0.1706		mg/Kg		102	40 - 140
PCB-1260			0.167	0.1685		mg/Kg		101	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*77*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20416/3-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20416

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1920		mg/Kg		115	40 - 140	17	30
PCB-1016			0.167	0.1877		mg/Kg		113	40 - 140	11	30
PCB-1260			0.167	0.1752		mg/Kg		105	40 - 140	3	30
PCB-1260			0.167	0.1725		mg/Kg		103	40 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*30 - 150*
Tetrachloro-m-xylene	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-352779/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
HFPODA	ND		2.00	1.00	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
DONA	ND		3.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-352779/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
M2-8:2 FTS	*90*		*15 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
M2-6:2 FTS	*93*		*10 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C5 PFHxA	*91*		*10 - 174*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C4 PFHpA	*101*		*10 - 178*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C8 PFOA	*96*		*26 - 159*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C7 PFUnA	*98*		*12 - 173*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C2 PFTeDA	*95*		*10 - 169*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C3 PFHxS	*98*		*24 - 171*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C8 PFOS	*99*		*41 - 154*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d3-NMeFOSAA	*72*		*10 - 178*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d5-NEtFOSAA	*71*		*10 - 193*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C8 FOSA	*80*		*14 - 163*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C4 PFBA	*85*		*28 - 153*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d7-N-MeFOSE-M	*76*		*10 - 179*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d3-NMePFOSA	*69*		*10 - 175*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d9-N-EtFOSE-M	*76*		*10 - 185*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d5-NEtPFOSA	*73*		*10 - 180*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C3 HFPO-DA	*82*		*10 - 169*	*03/13/23 07:29*	*03/22/23 14:55*	*1*

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	24.19		ug/Kg		97	59 - 132
Perfluoroheptanoic acid	25.0	24.04		ug/Kg		96	59 - 137
Perfluorooctanoic acid	25.0	23.76		ug/Kg		95	59 - 131
Perfluorononanoic acid	25.0	23.64		ug/Kg		95	61 - 134
Perfluorodecanoic acid	25.0	21.61		ug/Kg		86	56 - 133
Perfluorotridecanoic acid	25.0	22.95		ug/Kg		92	53 - 143
Perfluorotetradecanoic acid	25.0	21.94		ug/Kg		88	62 - 134
Perfluorobutanesulfonic acid	22.1	21.05		ug/Kg		95	54 - 130
Perfluorohexanesulfonic acid	22.8	20.90		ug/Kg		92	59 - 129
Perfluorooctanesulfonic acid	23.1	21.99		ug/Kg		95	61 - 126
NEtFOSAA	25.0	25.47		ug/Kg		102	57 - 127

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	24.82		ug/Kg		99	60 - 134
10:2 FTS	24.1	24.81		ug/Kg		103	46 - 143
Perfluoropentanesulfonic acid	23.5	21.60		ug/Kg		92	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.17		ug/Kg		89	59 - 132
Perfluorononanesulfonic acid	24.0	22.47		ug/Kg		94	60 - 132
Perfluorodecanesulfonic acid	24.1	22.27		ug/Kg		92	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.37		ug/Kg		88	38 - 145
Perfluorooctanesulfonamide	25.0	23.31		ug/Kg		93	47 - 149
Perfluorohexadecanoic acid	25.0	19.29		ug/Kg		77	38 - 147
Perfluorooctadecanoic acid	25.0	21.82		ug/Kg		87	16 - 160
Perfluorobutanoic acid	25.0	20.91		ug/Kg		84	60 - 128
Perfluoropentanoic acid	25.0	21.11		ug/Kg		84	58 - 134
NMeFOSE	25.0	22.45		ug/Kg		90	60 - 130
NMeFOSA	25.0	21.08		ug/Kg		84	60 - 129
NEtFOSE	25.0	24.56		ug/Kg		98	60 - 126
NEtFOSA	25.0	23.49		ug/Kg		94	60 - 123
HFPODA	25.0	22.74		ug/Kg		91	49 - 135
DONA	23.6	22.98		ug/Kg		97	57 - 137
9Cl-PF3ONS	23.3	23.52		ug/Kg		101	62 - 130
11Cl-PF3OUdS	23.3	23.24		ug/Kg		100	55 - 135
Perfluorododecanoic acid	25.0	22.12		ug/Kg		88	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	22.85		ug/Kg		98	58 - 131
Perfluoroundecanoic acid	25.0	23.22		ug/Kg		93	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.75		ug/Kg		88	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	24.71		ug/Kg		103	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*87*		*10 - 200*
M2-8:2 FTS	*83*		*15 - 200*
M2-6:2 FTS	*91*		*10 - 200*
13C5 PFHxA	*91*		*10 - 174*
13C4 PFHpA	*91*		*10 - 178*
13C8 PFOA	*92*		*26 - 159*
13C9 PFNA	*95*		*26 - 165*
13C6 PFDA	*91*		*26 - 161*
13C7 PFUnA	*90*		*12 - 173*
13C2-PFDoDA	*91*		*11 - 166*
13C2 PFTeDA	*98*		*10 - 169*
13C3 PFBS	*90*		*27 - 179*
13C3 PFHxS	*94*		*24 - 171*
13C8 PFOS	*92*		*41 - 154*
d3-NMeFOSAA	*71*		*10 - 178*
d5-NEtFOSAA	*75*		*10 - 193*
13C8 FOSA	*76*		*14 - 163*
13C4 PFBA	*85*		*28 - 153*
13C5 PFPeA	*88*		*24 - 161*
d7-N-MeFOSE-M	*74*		*10 - 179*
d3-NMePFOSA	*76*		*10 - 175*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	69		10 - 185
d5-NEtPFOSA	72		10 - 180
13C3 HFPO-DA	86		10 - 169

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-351673/1-A
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Arsenic	ND		3.00	1.40	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Barium	ND		0.500	0.150	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Beryllium	ND		0.500	0.100	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Cadmium	ND		0.500	0.100	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Chromium	ND		1.50	0.350	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Lead	ND		1.50	0.600	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Nickel	ND		1.00	0.260	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Selenium	ND		5.00	1.50	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Thallium	ND		3.00	1.30	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Vanadium	ND		1.00	0.430	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Zinc	ND		2.00	0.800	mg/Kg		03/09/23 00:11	03/13/23 18:22	1

Lab Sample ID: LCS 410-351673/2-A
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.04		mg/Kg		100	80 - 120
Arsenic	50.0	50.98		mg/Kg		102	80 - 120
Barium	50.0	49.92		mg/Kg		100	80 - 120
Beryllium	5.00	5.070		mg/Kg		101	80 - 120
Cadmium	5.00	5.003		mg/Kg		100	80 - 120
Chromium	50.0	51.26		mg/Kg		103	80 - 120
Lead	5.00	5.469		mg/Kg		109	80 - 120
Nickel	50.0	50.64		mg/Kg		101	80 - 120
Selenium	10.0	10.29		mg/Kg		103	80 - 120
Silver	5.00	5.340	^3+	mg/Kg		107	80 - 120
Thallium	10.0	10.29		mg/Kg		103	80 - 120
Vanadium	50.0	49.36		mg/Kg		99	80 - 120
Zinc	50.0	49.11		mg/Kg		98	80 - 120

Lab Sample ID: MB 410-351683/1-A
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/09/23 03:44	03/10/23 15:56	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351683/1-A
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.00	1.40	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Barium	ND		0.500	0.150	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Beryllium	ND		0.500	0.100	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Cadmium	ND		0.500	0.100	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Chromium	ND		1.50	0.350	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Lead	ND		1.50	0.600	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Nickel	ND		1.00	0.260	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Selenium	ND		5.00	1.50	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Thallium	ND	^3+	3.00	1.30	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Vanadium	ND		1.00	0.430	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Zinc	ND		2.00	0.800	mg/Kg		03/09/23 03:44	03/10/23 15:56	1

Lab Sample ID: LCS 410-351683/2-A
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.33		mg/Kg		103	80 - 120
Arsenic	50.0	44.66		mg/Kg		89	80 - 120
Barium	50.0	48.90		mg/Kg		98	80 - 120
Beryllium	5.00	4.748		mg/Kg		95	80 - 120
Cadmium	5.00	5.084		mg/Kg		102	80 - 120
Chromium	50.0	50.71		mg/Kg		101	80 - 120
Lead	5.00	4.777		mg/Kg		96	80 - 120
Nickel	50.0	49.17		mg/Kg		98	80 - 120
Selenium	10.0	9.318		mg/Kg		93	80 - 120
Silver	5.00	5.389	^3+	mg/Kg		108	80 - 120
Vanadium	50.0	48.63		mg/Kg		97	80 - 120
Zinc	50.0	46.96		mg/Kg		94	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-351676/1-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/09/23 00:35	03/09/23 07:49	1

Lab Sample ID: LCS 410-351676/2-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1124		mg/Kg		112	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-351677/1-A
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/09/23 23:15	03/10/23 10:46	1

Lab Sample ID: LCS 410-351677/2-A
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351677

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.100	0.1094		mg/Kg		109	80 - 120		

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10124-1 DU
Matrix: Solid
Analysis Batch: 20312

Client Sample ID: 2023-MW-03-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.3			12.1	F3	%				6	5
Percent Solids	88.7			87.9		%				0.8	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

GC/MS VOA

Pre Prep Batch: 20309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	Frozen Preserve	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	Frozen Preserve	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	Frozen Preserve	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	Frozen Preserve	
620-10124-6	Trip Blank-07	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 20544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	8260C	20572
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	8260C	20572
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	8260C	20572
620-10124-6	Trip Blank-07	Total/NA	Solid	8260C	20572
MB 620-20572/3-A	Method Blank	Total/NA	Solid	8260C	20572
LCS 620-20572/1-A	Lab Control Sample	Total/NA	Solid	8260C	20572
LCSD 620-20572/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20572

Prep Batch: 20572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	5035	20309
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	5035	20309
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	5035	20309
620-10124-6	Trip Blank-07	Total/NA	Solid	5035	20309
MB 620-20572/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20572/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20572/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 20595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-3 - ME	2023-MW-03-0406'	Total/NA	Solid	5035	
MB 620-20595/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20595/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20595/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-3 - ME	2023-MW-03-0406'	Total/NA	Solid	8260C	20595
MB 620-20595/3-A	Method Blank	Total/NA	Solid	8260C	20595
LCS 620-20595/1-A	Lab Control Sample	Total/NA	Solid	8260C	20595
LCSD 620-20595/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20595

Prep Batch: 20616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	5035	20309
MB 620-20616/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20616/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20616/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS VOA

Analysis Batch: 20617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	8260C	20616
MB 620-20616/3-A	Method Blank	Total/NA	Solid	8260C	20616
LCS 620-20616/1-A	Lab Control Sample	Total/NA	Solid	8260C	20616
LCSD 620-20616/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20616

Prep Batch: 20675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20675/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20675/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20675/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20675/3-A	Method Blank	Total/NA	Solid	8260C	20675
LCS 620-20675/1-A	Lab Control Sample	Total/NA	Solid	8260C	20675
LCSD 620-20675/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20675

GC/MS Semi VOA

Prep Batch: 20546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	3546	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	3546	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	3546	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	3546	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	3546	
MB 620-20546/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20546/1-A	Method Blank	Total/NA	Solid	8270D	20546
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	8270D	20546
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20546

Analysis Batch: 20626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	8270D	20546
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	8270D	20546
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	8270D	20546
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	8270D	20546
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	8270D	20546

GC VOA

Prep Batch: 660942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	5035A_H	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	5035A_H	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	5035A_H	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 660942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	5035A_H	
MB 480-660942/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 660951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	MAVPH	660942
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	MAVPH	660942
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	MAVPH	660942
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	MAVPH	660942
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	MAVPH	660942
MB 480-660942/1-A	Method Blank	Total/NA	Solid	MAVPH	660942
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660942
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660942

Analysis Batch: 661299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	MA VPH SUM	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	MA VPH SUM	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	MA VPH SUM	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	MA VPH SUM	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	MA VPH SUM	

GC Semi VOA

Prep Batch: 20416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	3540C	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	3540C	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	3540C	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	3540C	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	3540C	
MB 620-20416/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	8082	20416
MB 620-20416/1-A	Method Blank	Total/NA	Solid	8082	20416
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	8082	20416
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20416

Analysis Batch: 20476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	8082	20416
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	8082	20416
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	8082	20416
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	8082	20416

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

LCMS

Prep Batch: 352779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	537 (mod)	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	537 (mod)	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	537 (mod)	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	537 (mod)	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	537 (mod)	
MB 410-352779/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 352924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	Extract Aliquot	352779
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	Extract Aliquot	352779
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	Extract Aliquot	352779
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	Extract Aliquot	352779
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	Extract Aliquot	352779
MB 410-352779/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	352779
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	352779

Analysis Batch: 356249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	EPA 537 (Mod)	352924
MB 410-352779/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	352924
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	352924

Metals

Prep Batch: 351673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	3050B	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	3050B	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	3050B	
MB 410-351673/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351673/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	7471A	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	7471A	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	7471A	
MB 410-351676/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351676/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 351677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	7471A	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	7471A	
MB 410-351677/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-351677/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 351683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	3050B	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	3050B	
MB 410-351683/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351683/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 352229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	7471B	351676
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	7471B	351676
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	7471B	351676
MB 410-351676/1-A	Method Blank	Total/NA	Solid	7471B	351676
LCS 410-351676/2-A	Lab Control Sample	Total/NA	Solid	7471B	351676

Analysis Batch: 352388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	7471B	351677
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	7471B	351677
MB 410-351677/1-A	Method Blank	Total/NA	Solid	7471B	351677
LCS 410-351677/2-A	Lab Control Sample	Total/NA	Solid	7471B	351677

Analysis Batch: 352502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	6010D	351683
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	6010D	351683
MB 410-351683/1-A	Method Blank	Total/NA	Solid	6010D	351683
LCS 410-351683/2-A	Lab Control Sample	Total/NA	Solid	6010D	351683

Analysis Batch: 353155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	6010D	351673
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	6010D	351673
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	6010D	351673
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	6010D	351673
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	6010D	351683
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	6010D	351683
MB 410-351673/1-A	Method Blank	Total/NA	Solid	6010D	351673
LCS 410-351673/2-A	Lab Control Sample	Total/NA	Solid	6010D	351673

General Chemistry

Analysis Batch: 20312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	Moisture	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	Moisture	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	Moisture	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	Moisture	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1 DU	2023-MW-03-0002'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0002' Lab Sample ID: 620-10124-1
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0002' Lab Sample ID: 620-10124-1
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20616	CLR	EET NE	03/16/23 16:25
Total/NA	Analysis	8260C		1	20617	CLR	EET NE	03/16/23 22:10
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 19:29
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 18:14
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 19:43
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 15:28
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:28
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:29

Client Sample ID: 2023-MW-03-0204' Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0204' Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 18:06
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 19:58
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 18:53

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0204' Lab Sample ID: 620-10124-2

Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 20:00
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 15:39
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:22
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:31

Client Sample ID: 2023-MW-03-0406' Lab Sample ID: 620-10124-3

Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0406' Lab Sample ID: 620-10124-3

Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		20595	CLR	EET NE	03/16/23 13:31
Total/NA	Analysis	8260C	ME	1	20596	CLR	EET NE	03/16/23 13:57
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 20:26
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 19:33
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 20:17
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 15:50
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:15
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 20:19
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:27

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0608' Lab Sample ID: 620-10124-4

Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0608' Lab Sample ID: 620-10124-4

Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 18:58
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 20:54
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 20:12
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 20:34
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:01
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 16:55
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 21:06
Total/NA	Prep	7471A			351677	UAMX	ELLE	03/09/23 23:15
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 11:28

Client Sample ID: 2023-MW-03-0810' Lab Sample ID: 620-10124-5

Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0810' Lab Sample ID: 620-10124-5

Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 19:24
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 21:22

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0810' Lab Sample ID: 620-10124-5

Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 20:51
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 07:24
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:12
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 16:52
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 21:03
Total/NA	Prep	7471A			351677	UAMX	ELLE	03/09/23 23:15
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 11:24

Client Sample ID: Trip Blank-07 Lab Sample ID: 620-10124-6

Date Collected: 03/03/23 00:00 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 14:17

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10124-1	2023-MW-03-0002'	Solid	03/03/23 14:20	03/06/23 14:47
620-10124-2	2023-MW-03-0204'	Solid	03/03/23 14:25	03/06/23 14:47
620-10124-3	2023-MW-03-0406'	Solid	03/03/23 14:30	03/06/23 14:47
620-10124-4	2023-MW-03-0608'	Solid	03/03/23 14:35	03/06/23 14:47
620-10124-5	2023-MW-03-0810'	Solid	03/03/23 14:40	03/06/23 14:47
620-10124-6	Trip Blank-07	Solid	03/03/23 00:00	03/06/23 14:47

10124

Chain of Custody Record

623638

eurofins | Environment Testing America

620-10124 Chain of Custody

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Denis McGrath	Site Contact:	Date:	COC No
Company Name Nobis Group	Tel/Email: dmcgrath@nobis-group.com	Lab Contact:	Carrier:	____ of ____ COCs
Address 585 Middlesex St	Analysis Turnaround Time			Sampler: BF+KM
City/State/Zip Lowell, MA 01851	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 978-399-9651	TAT if different from Below Stnd.			Walk-in Client:
Fax	☐ 2 weeks			Lab Sampling
Project Name American Tissue Mill	☐ 1 week			
Site Templeton, MA	☐ 2 days			Job / SDG No
P O # 500001.002	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs 8260	SVOCs 8270	VPH MassDEP	PCBs 8082(soxhlet)	Metals 6010/6020	PFAS 537	Sample Specific Notes
01	2023-MW-03-0002'	3/3/23	14:20	G	S	7			✓	✓	✓	✓	✓	✓	
02	2023-MW-03-0204'	↓	14:25	↓	↓	7			✓	✓	✓	✓	✓	✓	
03	2023-MW-03-0406'	↓	14:30	↓	↓	7			✓	✓	✓	✓	✓	✓	
04	2023-MW-03-0608'	↓	14:35	↓	↓	7			✓	✓	✓	✓	✓	✓	
05	2023-MW-03-0810'	↓	14:40	↓	↓	7			✓	✓	✓	✓	✓	✓	
06	TRIP BLANK - 07	↓	—	↓	↓	3			✓						
									6		6				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MEOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Equis EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____

Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
[signature]	Nobis	3/6/22 12:30	[signature]	EM	3/6/23 12:30
[signature]	EM	3/6/23 14:47	[signature]	GNG	3/6/23 14:47
[signature]			Received in Laboratory by:		

1.4 +0.2 1.6 #6

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8537.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10124-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/15/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-03-0002' (620-10124-1)	3/3/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-03-0204' (620-10124-2)	3/3/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-03-0406' (620-10124-3)	3/3/23	14:30 Eastern		Solid			X	X	X	2	
2023-MW-03-0608' (620-10124-4)	3/3/23	14:35 Eastern		Solid			X	X	X	2	
2023-MW-03-0810' (620-10124-5)	3/3/23	14:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/6/23 15:48	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/7/23 0955	Company ELAT

Custody Seals Intact: ○ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2

mb

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8538.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10124-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/15/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
2023-MW-03-0002' (620-10124-1)	3/3/23	14:20 Eastern		Solid			X	X	1	
2023-MW-03-0204' (620-10124-2)	3/3/23	14:25 Eastern		Solid			X	X	1	
2023-MW-03-0406' (620-10124-3)	3/3/23	14:30 Eastern		Solid			X	X	1	
2023-MW-03-0608' (620-10124-4)	3/3/23	14:35 Eastern		Solid			X	X	1	
2023-MW-03-0810' (620-10124-5)	3/3/23	14:40 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/4/23 16:40	ENE	Fedex		
2				[signature]	3-7-23 1000	TAB
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10124-1

Login Number: 10124
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10124-1

Login Number: 10124
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/07/23 11:21 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10124-1

Login Number: 10124
List Number: 3
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/07/23 04:24 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

May 8, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620100511
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review:

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 (mod.)

36/Soil Samples: 2023-MW-01-0406, 2023-MW-01-0608, 2023-MW-01-0810, 2023-MW-01-1012, 2023-MW-02-0002, 2023-MW-02-0204, 2023-MW-02-0406, 2023-MW-02-0608, 2023-MW-02-0810, 2023-MW-02-1012, 2023-SB-16-0002, 2023-SB-16-0204, 2023-SB-16-0406, 2023-SB-16-0608, 2023-SB-16-0810, 2023-SB-16-1012, 2023-SB-15-0002, 2023-SB-15-0204, 2023-SB-15-0406, 2023-SB-15-0608, 2023-SB-15-0810, 2023-SB-15-1012, 2023-FD-03, 2023-SB-14-0002, 2023-SB-14-0204, 2023-SB-14-0406, 2023-SB-14-0608, 2023-SB-14-0810, 2023-SB-14-1012, 2023-SB-13-0002, 2023-SB-13-0204, 2023-FD-04, 2023-SB-13-0406, 2023-SB-13-0608, 2023-SB-13-0810, 2023-SB-13-1012
2/Field Duplicate Pairs: 2023-SB-16-0204 / 2023-FD-03 and 2023-SB-13-0204 / 2023-FD-04
3/Solid Trip Blanks: TB-01, TB-02, TB-03

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on February 27, 2023 and March 1, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D, Polychlorinated Biphenyls by EPA Method 8082, VPHs by MassDEP-VPH, MCP-14 Metals/Mercury by EPA Method 6010D/7471B, and PFAS by EPA Method 537 mod. by Eurofins New England in North Kingstown, RI, Eurofins Northeast in Amherst, NY (MassDEP-VPH analyses), and Eurofins Lancaster Laboratory in Lancaster, PA (for MCP-14 metals/mercury, mercury, and PFAS analyses).

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund

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Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020); USEPA's Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Preservation and Technical Holding Times
	• Blanks
	• Surrogates (organic analyses only)
NA	• Internal Standards
	• Matrix Spike Analysis
*	• Laboratory Duplicates
	• Laboratory Control Samples (LCS)
*	• Field Duplicates
NA	• ICP Serial Dilutions (metals only)
NA	• Performance Evaluation (PE) Samples
NA	• Target Analyte Identification
*	• Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Non-detect results for benzidine were rejected (R) in several soil samples due to low LCS/LCSD and/or MS/MSD recovery. Non-detect results for two PFAS compounds were rejected (R) in select samples due to low surrogate recoveries.

RLs for non-detect results for 1,1,2,2-tetrachloroethane and dibromochloromethane exceeded their associated PALs in the samples analyzed from the methanol-preserved vials (medium level) due to holding time exceedances of the low level (unpreserved) vials. In addition, RLs for non-detect thallium results exceed the PAL in several samples due to required sample dilutions. Site objectives may be impacted.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for MS/MSD exceedances and trip blank contamination.

SVOCs:
Results for benzidine were rejected in several soil samples due to LCS/LCSD and/or MS/MSD exceedances. Results were qualified for LCS/LCSD and MS/MSD exceedances and laboratory blank contamination.

PCBs:
Results were qualified for MS/MSD recovery exceedances.

MassDEP-VPH:
Results were qualified for laboratory blank contamination.

MCP-14 Metals and Mercury:
Qualification of the data was not required.

PFAS:
Results were rejected for low surrogate recovery and qualified for surrogate recovery non-conformances.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
Antimony	mg/kg	4 U	5.53 U	5.13 U	8.99 U	4.71 U
Arsenic	mg/kg	2.29 J	2.3 J	2.54 J	3.93 J	3.43
Barium	mg/kg	17.5	24.8	13	17	14.2
Beryllium	mg/kg	0.349 J	0.294 J	0.239 J	0.299 J	0.224 J
Cadmium	mg/kg	0.4 U	0.553 U	0.513 U	0.899 U	0.471 U
Chromium	mg/kg	7.44	6.05	3.84	5.2	5.13
Copper	mg/kg	16 U	22.1 U	20.5 U	3.59 U	1.88 U
Lead	mg/kg	3.58	3.21	2.92	2.77	2.45
Mercury	mg/kg	0.0706 U	0.0709 U	0.0619 U	0.0658 U	0.0672 U
Nickel	mg/kg	2.97	3.37	1.77	2.53	1.74
Selenium	mg/kg	4 U	5.53 U	5.13 U	8.99 U	4.71 U
Silver	mg/kg	0.801 U	1.11 U	1.03 U	1.8 U	0.941 U
Thallium	mg/kg	2.4 U	3.32 U	3.08 U	5.39 U	2.82 U
Vanadium	mg/kg	9.35	9.15	6.15	7.87	6.07
Zinc	mg/kg	29.9	13.9	8.39	9.79	7.07

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Antimony	mg/kg	4.52 U	5.29 U	2.23 J	5.09 U	4.98 U
Arsenic	mg/kg	2.85	8.66	11.2	1.98 J	2.38 J
Barium	mg/kg	12.9	95	120	12.5	17.7
Beryllium	mg/kg	0.216 J	1.23	1.52	0.191 J	0.21 J
Cadmium	mg/kg	0.452 U	0.529 U	0.457 U	0.509 U	0.498 U
Chromium	mg/kg	6.84	26.3	35.3	3.82	4.13
Copper	mg/kg	1.81 U	21.1 U	18.3 U	2.03 U	1.99 U
Lead	mg/kg	3.46	11.7	13.9	2.29	3.1
Mercury	mg/kg	0.0651 U	0.0701 U	0.0782 U	0.0593 U	0.0592 U
Nickel	mg/kg	2.4	14.9	20.8	1.8	2.45
Selenium	mg/kg	4.52 U	5.29 U	4.57 U	5.09 U	4.98 U
Silver	mg/kg	0.905 U	1.06 U	0.913 U	1.02 U	0.996 U
Thallium	mg/kg	2.71 U	31.7 U	27.4 U	3.05 U	2.99 U
Vanadium	mg/kg	7.29	43	57.7	5.44	6.1
Zinc	mg/kg	8.84	58.8	77.8	7.46	9.08

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Antimony	mg/kg	4.98 U	4.15 U	4.92 U	4.31 U	5.16 U
Arsenic	mg/kg	2.74 J	1.69 J	1.98 J	2.06 J	2.74 J
Barium	mg/kg	13.3	14.3	13.8	11.3	14.7
Beryllium	mg/kg	0.143 J	0.191 J	0.153 J	0.179 J	0.189 J
Cadmium	mg/kg	0.498 U	0.415 U	0.492 U	0.431 U	0.516 U
Chromium	mg/kg	4.29	3.87	3.77	3.53	9.25
Copper	mg/kg	1.99 U	1.66 U	1.97 U	1.72 U	2.07 U
Lead	mg/kg	2.05	2.5	1.87	1.9	2.45
Mercury	mg/kg	0.0603 U	0.0666 U	0.0622 U	0.064 U	0.0696 U
Nickel	mg/kg	1.51	2.19	1.5	1.54	2.57
Selenium	mg/kg	4.98 U	4.15 U	4.92 U	4.31 U	5.16 U
Silver	mg/kg	0.996 U	0.829 U	0.985 U	0.861 U	1.03 U
Thallium	mg/kg	2.99 U	2.49 U	2.95 U	2.58 U	3.1 U
Vanadium	mg/kg	4.85	5.8	5.3	4.39	6.91
Zinc	mg/kg	7.74	33.3	8.34	5.63	9.28

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Antimony	mg/kg	5 U	4.26 U	4.91 U	3.5 U	3.58 U
Arsenic	mg/kg	3.47	2.29 J	1.68 J	1.39 J	2.21
Barium	mg/kg	16.2	13.6	15.1	9.33	18.4
Beryllium	mg/kg	0.261 J	0.273 J	0.191 J	0.141 J	0.229 J
Cadmium	mg/kg	0.5 U	0.426 U	0.491 U	0.35 U	0.358 U
Chromium	mg/kg	5.23	4.11	4.14	6.73	9.02
Copper	mg/kg	20 U	1.7 U	19.6 U	1.4 U	14.3 U
Lead	mg/kg	2.75	2.79	1.85	1.64	2.22
Mercury	mg/kg	0.0624 U	0.0618 U	0.0589 U	0.0618 U	0.0607 U
Nickel	mg/kg	2.13	4.15	2.49	1.68	4.45
Selenium	mg/kg	5 U	4.26 U	4.91 U	3.5 U	3.58 U
Silver	mg/kg	1 U	0.851 U	0.982 U	0.7 U	0.716 U
Thallium	mg/kg	3 U	2.55 U	2.95 U	2.1 U	2.15 U
Vanadium	mg/kg	7.78	6.1	6.3	3.52	7.44
Zinc	mg/kg	9.24	10	9.29	4.81	12.9

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Antimony	mg/kg	5.61 U	5.54 U	4.55 U	4.16 U	4.77 U
Arsenic	mg/kg	2.65 J	2.13 J	2.61 J	12.8	4.84
Barium	mg/kg	16.4	25	13	29.4	11.9
Beryllium	mg/kg	0.164 J	0.296 J	0.157 J	0.201 J	0.209 J
Cadmium	mg/kg	0.561 U	0.554 U	0.455 U	0.416 U	0.477 U
Chromium	mg/kg	3.95	5.75	4.27	4.55	4.88
Copper	mg/kg	2.24 U	22.2 U	1.82 U	1.41 J	19.1 U
Lead	mg/kg	2.22	2.51	1.96	9.6	2.64
Mercury	mg/kg	0.064 U	0.0738 U	0.0697 U	0.0594 U	0.0636 U
Nickel	mg/kg	1.68	3.28	1.76	2.34	2.17
Selenium	mg/kg	5.61 U	5.54 U	4.55 U	4.16 U	4.77 U
Silver	mg/kg	1.12 U	1.11 U	0.91 U	0.832 U	0.955 U
Thallium	mg/kg	3.36 U	3.33 U	2.73 U	2.49 U	2.86 U
Vanadium	mg/kg	5.96	8.72	5.28	7.12	7.54
Zinc	mg/kg	7.71	12.8	8.2	14.3	9.04

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Antimony	mg/kg	4.98 U	4.97 U	4.7 U	4.95 U	4.28 U
Arsenic	mg/kg	4.86	2.32 J	5.16	2.75 J	10.1
Barium	mg/kg	10.9	16.8	22.5	14.9	103
Beryllium	mg/kg	0.187 J	0.308 J	0.304 J	0.238 J	1.44
Cadmium	mg/kg	0.498 U	0.497 U	0.47 U	0.495 U	0.428 U
Chromium	mg/kg	4.44	7.2	6.88	5.8	29.1
Copper	mg/kg	19.9 U	19.9 U	18.8 U	19.8 U	17.1 U
Lead	mg/kg	2.32	3.12	4.23	2.88	12.6
Mercury	mg/kg	0.0634 U	0.0633 U	0.0601 U	0.0615 U	0.0742 U
Nickel	mg/kg	1.87	2.49	4.08	2.68	15
Selenium	mg/kg	4.98 U	4.97 U	4.7 U	4.95 U	4.28 U
Silver	mg/kg	0.997 U	0.993 U	0.94 U	0.99 U	0.856 U
Thallium	mg/kg	2.99 U	2.98 U	2.82 U	2.97 U	25.7 U
Vanadium	mg/kg	6.79	8.57	10.1	8.38	47.9
Zinc	mg/kg	8.56	10.1	13.8	11.8	60.6

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Antimony	mg/kg	4.6 U	4.76 U	4.49 U	4.72 U	4.48 U
Arsenic	mg/kg	1.48 J	4.78	3.12	3.48	2.21 J
Barium	mg/kg	14.8	39.3	20.9	21.3	11.9
Beryllium	mg/kg	0.185 J	0.397 J	0.451	0.357 J	0.244 J
Cadmium	mg/kg	0.46 U	0.476 U	0.449 U	0.472 U	0.448 U
Chromium	mg/kg	8.48	12	7.41	7.88	4.17
Copper	mg/kg	1.84 U	19 U	18 U	18.9 U	1.79 U
Lead	mg/kg	1.8	6.28	7.54	4.14	2.8
Mercury	mg/kg	0.0652 U	0.0575 U	0.0408 J	0.0664 U	0.0588 U
Nickel	mg/kg	2.53	5.07	2.77	3.44	1.95
Selenium	mg/kg	4.6 U	4.76 U	4.49 U	4.72 U	4.48 U
Silver	mg/kg	0.92 U	0.952 U	0.898 U	0.944 U	0.895 U
Thallium	mg/kg	2.76 U	2.86 U	2.69 U	2.83 U	2.69 U
Vanadium	mg/kg	5.11	19.3	13.4	10.9	5.17
Zinc	mg/kg	17.1	22.7	16.3	17.1	9.08

DATA SUMMARY TABLE

Analysis		Metals in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
Antimony	mg/kg	4.74 U
Arsenic	mg/kg	2.61 J
Barium	mg/kg	13.6
Beryllium	mg/kg	0.242 J
Cadmium	mg/kg	0.474 U
Chromium	mg/kg	4.15
Copper	mg/kg	1.9 U
Lead	mg/kg	2.09
Mercury	mg/kg	0.0608 U
Nickel	mg/kg	1.71
Selenium	mg/kg	4.74 U
Silver	mg/kg	0.949 U
Thallium	mg/kg	2.85 U
Vanadium	mg/kg	4.91
Zinc	mg/kg	7.71

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
Aroclor 1016	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U
Aroclor 1221	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U
Aroclor 1232	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U
Aroclor 1242	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U
Aroclor 1248	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U
Aroclor 1254	mg/kg	0.054 J	0.0248 U	0.212	0.0363	0.0277
Aroclor 1260	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U
Aroclor 1262	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U
Aroclor 1268	mg/kg	0.0225 U	0.0248 U	0.0212 U	0.022 U	0.0219 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Aroclor 1016	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U
Aroclor 1221	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U
Aroclor 1232	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U
Aroclor 1242	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U
Aroclor 1248	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U
Aroclor 1254	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.088	0.0169 J
Aroclor 1260	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U
Aroclor 1262	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U
Aroclor 1268	mg/kg	0.0216 U	0.0234 U	0.0254 U	0.0204 U	0.0205 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Aroclor 1016	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1221	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1232	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1242	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1248	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1254	mg/kg	1.09	0.0235 U	0.0208 U	0.0818	0.0321
Aroclor 1260	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1262	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1268	mg/kg	0.206 U	0.0235 U	0.0208 U	0.0185 U	0.0228 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Aroclor 1016	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U
Aroclor 1221	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U
Aroclor 1232	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U
Aroclor 1242	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U
Aroclor 1248	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U
Aroclor 1254	mg/kg	0.0332	0.137	0.0196 U	0.02 U	0.0829
Aroclor 1260	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U
Aroclor 1262	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U
Aroclor 1268	mg/kg	0.0216 U	0.021 U	0.0196 U	0.02 U	0.0205 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Aroclor 1016	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U
Aroclor 1221	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U
Aroclor 1232	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U
Aroclor 1242	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U
Aroclor 1248	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U
Aroclor 1254	mg/kg	0.0217 U	0.0243 U	0.0229 U	10.3	0.0181 J
Aroclor 1260	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U
Aroclor 1262	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U
Aroclor 1268	mg/kg	0.0217 U	0.0243 U	0.0229 U	0.42 U	0.0208 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Aroclor 1016	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1221	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1232	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1242	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1248	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1254	mg/kg	0.0217	0.0182 J	0.141	0.0205 U	0.0244 U
Aroclor 1260	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1262	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1268	mg/kg	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Aroclor 1016	mg/kg	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U
Aroclor 1221	mg/kg	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U
Aroclor 1232	mg/kg	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U
Aroclor 1242	mg/kg	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U
Aroclor 1248	mg/kg	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U
Aroclor 1254	mg/kg	0.0199 J	0.0309 J	0.0233 U	0.0228 U	0.0204 U
Aroclor 1260	mg/kg	0.0233 U	0.0144 J	0.0233 U	0.0228 U	0.0204 U
Aroclor 1262	mg/kg	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U
Aroclor 1268	mg/kg	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
Aroclor 1016	mg/kg	0.0215 U
Aroclor 1221	mg/kg	0.0215 U
Aroclor 1232	mg/kg	0.0215 U
Aroclor 1242	mg/kg	0.0215 U
Aroclor 1248	mg/kg	0.0215 U
Aroclor 1254	mg/kg	0.0215 U
Aroclor 1260	mg/kg	0.0215 U
Aroclor 1262	mg/kg	0.0215 U
Aroclor 1268	mg/kg	0.0215 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
10:2 FTS	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.46 U	3.5 U	3.08 U	3.34 U	3.14 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
6:2 Fluorotelomer sulfonate	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
8:2 Fluorotelomer sulfonate	ug/kg	3.46 U	3.5 U	3.08 U	3.34 U	3.14 U
9Cl-PF3ONS	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.31 UJ	2.33 UJ	2.05 UJ	2.23 UJ	2.09 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.31 U	2.33 U	2.05 UJ	2.23 U	2.09 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.31 UJ	2.33 UJ	R	2.23 UJ	2.09 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.31 U	2.33 U	2.05 UJ	2.23 U	2.09 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
Perfluorodecane Sulfonate	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
10:2 FTS	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.01 U	3.44 U	3.61 U	2.96 U	3.05 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
6:2 Fluorotelomer sulfonate	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
8:2 Fluorotelomer sulfonate	ug/kg	3.01 U	3.44 U	3.61 U	2.96 U	3.05 U
9Cl-PF3ONS	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.01 U	2.29 UJ	2.41 UJ	1.98 UJ	2.03 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.01 U	2.29 UJ	2.41 UJ	1.98 UJ	2.03 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
Perfluorodecane Sulfonate	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
10:2 FTS	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.02 U	3.54 U	3.01 U	3.22 U	3.46 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
6:2 Fluorotelomer sulfonate	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
8:2 Fluorotelomer sulfonate	ug/kg	3.02 U	3.54 U	3.01 U	3.22 U	3.46 U
9Cl-PF3ONS	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.01 UJ	2.36 U	2.01 U	2.15 U	2.3 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.01 UJ	2.36 U	2.01 U	2.15 U	2.3 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
Perfluorodecane Sulfonate	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
10:2 FTS	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.23 U	3.1 U	2.92 U	2.83 U	3.08 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
6:2 Fluorotelomer sulfonate	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
8:2 Fluorotelomer sulfonate	ug/kg	3.23 U	3.1 U	2.92 U	2.83 U	3.08 U
9Cl-PF3ONS	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.16 UJ	2.07 UJ	1.95 UJ	1.89 U	2.05 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.16 UJ	2.07 UJ	1.95 UJ	1.89 U	2.05 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
Perfluorodecane Sulfonate	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
10:2 FTS	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.21 U	3.62 U	3.46 U	3.09 U	3.12 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.14 U	2.41 U	2.31 U	2.06 UJ	2.08 UJ
6:2 Fluorotelomer sulfonate	ug/kg	2.14 U	2.41 U	2.31 U	2.06 UJ	2.08 UJ
8:2 Fluorotelomer sulfonate	ug/kg	3.21 U	3.62 U	3.46 U	3.09 UJ	3.12 UJ
9Cl-PF3ONS	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 UJ
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.14 U	2.41 U	2.31 U	R	R
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.14 U	2.41 U	2.31 U	R	R
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 UJ
Perfluorodecane Sulfonate	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
10:2 FTS	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.05 U	2.95 U	2.85 U	3.11 U	3.56 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.03 UJ	1.97 UJ	1.9 U	2.08 U	2.37 U
6:2 Fluorotelomer sulfonate	ug/kg	2.03 UJ	1.97 UJ	1.9 U	2.08 U	2.37 U
8:2 Fluorotelomer sulfonate	ug/kg	3.05 UJ	2.95 UJ	2.85 U	3.11 U	3.56 U
9Cl-PF3ONS	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.03 U	1.97 UJ	1.9 U	2.08 U	2.37 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	R	R	1.9 UJ	2.08 UJ	2.37 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	R	R	1.9 UJ	2.08 UJ	2.37 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.03 UJ	1.97 UJ	1.9 U	2.08 U	2.37 U
Perfluorodecane Sulfonate	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
10:2 FTS	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.43 U	3.08 U	3.36 U	3.25 U	2.97 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U
6:2 Fluorotelomer sulfonate	ug/kg	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U
8:2 Fluorotelomer sulfonate	ug/kg	3.43 U	3.08 U	3.36 UJ	3.25 U	2.97 U
9Cl-PF3ONS	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.29 U	2.06 UJ	2.24 UJ	2.16 UJ	1.98 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.29 U	2.06 UJ	2.24 UJ	2.16 UJ	R
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U
Perfluorodecane Sulfonate	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
10:2 FTS	ug/kg	2 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.601 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2 UJ
6:2 Fluorotelomer sulfonate	ug/kg	2 UJ
8:2 Fluorotelomer sulfonate	ug/kg	3 UJ
9Cl-PF3ONS	ug/kg	2 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	R
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	R
N-methylperfluoro-1-octanesulfonamide	ug/kg	2 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2 UJ
Perfluorodecane Sulfonate	ug/kg	0.601 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.31 U	2.33 U	2.05 U	2.23 U	2.09 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluoroheptane sulfonate	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorohexadecanoic acid	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.692 U	0.7 U	0.71	0.669 U	0.628 U
Perfluorononanesulfonic acid	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorononanoic acid (PFNA)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorooctadecanoic acid	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluorooctylsulfonamide	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluoropentanoic Acid	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.692 U	0.7 U	0.615 U	0.669 U	0.628 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.01 U	2.29 U	2.41 U	1.98 U	2.03 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluoroheptane sulfonate	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorohexadecanoic acid	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorononanesulfonic acid	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorononanoic acid (PFNA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorooctadecanoic acid	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluorooctylsulfonamide	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluoropentanoic Acid	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.602 U	0.688 U	0.722 U	0.593 U	0.609 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.01 U	2.36 U	2.01 U	2.15 U	2.3 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluoroheptane sulfonate	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorohexadecanoic acid	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorononanesulfonic acid	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorononanoic acid (PFNA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorooctadecanoic acid	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluorooctylsulfonamide	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluoropentanoic Acid	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.603 U	0.707 U	0.602 U	0.644 U	0.691 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.16 U	2.07 U	1.95 U	1.89 U	2.05 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluoroheptane sulfonate	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorohexadecanoic acid	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorononanesulfonic acid	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorononanoic acid (PFNA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorooctadecanoic acid	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluorooctylsulfonamide	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluoropentanoic Acid	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.647 U	0.62 U	0.584 U	0.567 U	0.615 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.14 U	2.41 U	2.31 U	2.06 U	2.08 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ
Perfluoroheptane sulfonate	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ
Perfluorohexadecanoic acid	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ
Perfluorononanesulfonic acid	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluorononanoic acid (PFNA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluorooctadecanoic acid	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ
Perfluorooctylsulfonamide	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluoropentanoic Acid	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.642 U	0.724 U	0.693 U	0.619 U	0.623 UJ

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoroheptane sulfonate	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorohexadecanoic acid	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorononanesulfonic acid	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorononanoic acid (PFNA)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorooctadecanoic acid	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorooctylsulfonamide	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluoropentanoic Acid	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluoroheptane sulfonate	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluorohexadecanoic acid	ug/kg	0.686 U	0.617 U	0.299 J	0.649 U	0.594 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluorononanesulfonic acid	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
Perfluorononanoic acid (PFNA)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
Perfluorooctadecanoic acid	ug/kg	0.686 U	0.617 U	0.386 J	0.649 U	0.594 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluorooctylsulfonamide	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
Perfluoropentanoic Acid	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.601 UJ
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.601 U
Perfluoroheptane sulfonate	ug/kg	0.601 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.601 UJ
Perfluorohexadecanoic acid	ug/kg	0.601 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.601 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.601 UJ
Perfluorononanesulfonic acid	ug/kg	0.601 U
Perfluorononanoic acid (PFNA)	ug/kg	0.601 UJ
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.601 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.601 U
Perfluorooctadecanoic acid	ug/kg	0.601 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.601 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.601 UJ
Perfluorooctylsulfonamide	ug/kg	0.601 U
Perfluoropentanoic Acid	ug/kg	0.601 UJ
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.601 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.601 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
1,2,4-Trichlorobenzene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
1,2-Dichlorobenzene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
1,3-Dichlorobenzene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
1,4-Dichlorobenzene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
2,4,5-Trichlorophenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
2,4,6-Trichlorophenol	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
2,4-Dichlorophenol	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
2,4-Dimethylphenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
2,4-Dinitrophenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
2,4-Dinitrotoluene	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
2,6-Dinitrotoluene	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
2-Chloronaphthalene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
2-Chlorophenol	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
2-Methylnaphthalene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
2-Methylphenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
2-Nitroaniline	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
2-Nitrophenol	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
3 & 4 Methylphenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
3,3'-Dichlorobenzidine	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
1,2,4-Trichlorobenzene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
1,2-Dichlorobenzene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
1,3-Dichlorobenzene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
1,4-Dichlorobenzene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
2,4,5-Trichlorophenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
2,4,6-Trichlorophenol	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
2,4-Dichlorophenol	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
2,4-Dimethylphenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
2,4-Dinitrophenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
2,4-Dinitrotoluene	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
2,6-Dinitrotoluene	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
2-Chloronaphthalene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
2-Chlorophenol	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
2-Methylnaphthalene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
2-Methylphenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
2-Nitroaniline	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
2-Nitrophenol	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
3 & 4 Methylphenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
3,3'-Dichlorobenzidine	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
1,2,4-Trichlorobenzene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
1,2-Dichlorobenzene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
1,3-Dichlorobenzene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
1,4-Dichlorobenzene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
2,4,5-Trichlorophenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
2,4,6-Trichlorophenol	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
2,4-Dichlorophenol	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
2,4-Dimethylphenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
2,4-Dinitrophenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
2,4-Dinitrotoluene	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
2,6-Dinitrotoluene	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
2-Chloronaphthalene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
2-Chlorophenol	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
2-Methylnaphthalene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
2-Methylphenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
2-Nitroaniline	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
2-Nitrophenol	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
3 & 4 Methylphenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
3,3'-Dichlorobenzidine	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
1,2,4-Trichlorobenzene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
1,2-Dichlorobenzene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
1,3-Dichlorobenzene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
1,4-Dichlorobenzene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
2,4,5-Trichlorophenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
2,4,6-Trichlorophenol	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
2,4-Dichlorophenol	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
2,4-Dimethylphenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
2,4-Dinitrophenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
2,4-Dinitrotoluene	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
2,6-Dinitrotoluene	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
2-Chloronaphthalene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
2-Chlorophenol	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
2-Methylnaphthalene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
2-Methylphenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
2-Nitroaniline	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
2-Nitrophenol	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
3 & 4 Methylphenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
3,3'-Dichlorobenzidine	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
1,2,4-Trichlorobenzene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
1,2-Dichlorobenzene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
1,3-Dichlorobenzene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
1,4-Dichlorobenzene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
2,4,5-Trichlorophenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
2,4,6-Trichlorophenol	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
2,4-Dichlorophenol	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
2,4-Dimethylphenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
2,4-Dinitrophenol	mg/kg	0.376 U	0.398 U	0.391 U	1.21	0.346 U
2,4-Dinitrotoluene	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
2,6-Dinitrotoluene	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
2-Chloronaphthalene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
2-Chlorophenol	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
2-Methylnaphthalene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
2-Methylphenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
2-Nitroaniline	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
2-Nitrophenol	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
3 & 4 Methylphenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
3,3'-Dichlorobenzidine	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,2,4-Trichlorobenzene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,2-Dichlorobenzene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,3-Dichlorobenzene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,4-Dichlorobenzene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,4,5-Trichlorophenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,4,6-Trichlorophenol	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,4-Dichlorophenol	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,4-Dimethylphenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,4-Dinitrophenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,4-Dinitrotoluene	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,6-Dinitrotoluene	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2-Chloronaphthalene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2-Chlorophenol	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2-Methylnaphthalene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
2-Methylphenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2-Nitroaniline	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2-Nitrophenol	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
3 & 4 Methylphenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
3,3'-Dichlorobenzidine	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
1,2,4-Trichlorobenzene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
1,2-Dichlorobenzene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
1,3-Dichlorobenzene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
1,4-Dichlorobenzene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
2,4,5-Trichlorophenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
2,4,6-Trichlorophenol	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
2,4-Dichlorophenol	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
2,4-Dimethylphenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
2,4-Dinitrophenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
2,4-Dinitrotoluene	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
2,6-Dinitrotoluene	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
2-Chloronaphthalene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
2-Chlorophenol	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
2-Methylnaphthalene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
2-Methylphenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
2-Nitroaniline	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
2-Nitrophenol	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
3 & 4 Methylphenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
3,3'-Dichlorobenzidine	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.354 U
1,2,4-Trichlorobenzene	mg/kg	0.354 U
1,2-Dichlorobenzene	mg/kg	0.354 U
1,3-Dichlorobenzene	mg/kg	0.354 U
1,4-Dichlorobenzene	mg/kg	0.354 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.179 U
2,4,5-Trichlorophenol	mg/kg	0.354 U
2,4,6-Trichlorophenol	mg/kg	0.179 U
2,4-Dichlorophenol	mg/kg	0.179 U
2,4-Dimethylphenol	mg/kg	0.354 U
2,4-Dinitrophenol	mg/kg	0.354 U
2,4-Dinitrotoluene	mg/kg	0.179 U
2,6-Dinitrotoluene	mg/kg	0.179 U
2-Chloronaphthalene	mg/kg	0.354 U
2-Chlorophenol	mg/kg	0.179 U
2-Methylnaphthalene	mg/kg	0.0716 U
2-Methylphenol	mg/kg	0.354 U
2-Nitroaniline	mg/kg	0.354 U
2-Nitrophenol	mg/kg	0.179 U
3 & 4 Methylphenol	mg/kg	0.354 U
3,3'-Dichlorobenzidine	mg/kg	0.354 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
3-Nitroaniline	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
4,6-Dinitro-2-methylphenol	mg/kg	0.341 J	0.414 UJ	0.689 U	0.359 U	0.727 U
4-Bromophenyl-phenylether	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
4-Chloro-3-methylphenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
4-Chloroaniline	mg/kg	0.388 U	0.209 U	0.349 UJ	0.182 UJ	0.368 UJ
4-Chlorophenyl-phenylether	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
4-Nitroaniline	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
4-Nitrophenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Acenaphthene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Acenaphthylene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Acetophenone	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Aniline	mg/kg	0.767 U	0.414 U	0.689 UJ	0.359 UJ	0.727 UJ
Anthracene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Azobenzene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.0915 J	0.0836 U	0.139 U	0.0726 U	0.147 U
Benzo(a)pyrene	mg/kg	0.123 J	0.0836 U	0.139 U	0.0726 U	0.147 U
Benzo(b)fluoranthene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Benzo(g,h,i)perylene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Benzo(k)fluoranthene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Benzoic Acid	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
3-Nitroaniline	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
4,6-Dinitro-2-methylphenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
4-Bromophenyl-phenylether	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
4-Chloro-3-methylphenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
4-Chloroaniline	mg/kg	0.179 UJ	0.201 UJ	0.216 UJ	0.336 UJ	0.172 UJ
4-Chlorophenyl-phenylether	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
4-Nitroaniline	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
4-Nitrophenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Acenaphthene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Acenaphthylene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Acetophenone	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Aniline	mg/kg	0.354 UJ	0.397 UJ	0.427 UJ	0.665 UJ	0.34 UJ
Anthracene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Azobenzene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Benzo(a)pyrene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Benzo(b)fluoranthene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Benzo(g,h,i)perylene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Benzo(k)fluoranthene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Benzoic Acid	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
3-Nitroaniline	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
4,6-Dinitro-2-methylphenol	mg/kg	0.343 U	0.393 UJ	0.346 U	0.37 U	0.393 U
4-Bromophenyl-phenylether	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
4-Chloro-3-methylphenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
4-Chloroaniline	mg/kg	0.174 UJ	0.199 U	0.175 UJ	0.187 UJ	0.199 UJ
4-Chlorophenyl-phenylether	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
4-Nitroaniline	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
4-Nitrophenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Acenaphthene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Acenaphthylene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Acetophenone	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Aniline	mg/kg	0.343 UJ	0.393 U	0.346 UJ	0.37 UJ	0.393 UJ
Anthracene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Azobenzene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Benzo(a)pyrene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Benzo(b)fluoranthene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Benzo(g,h,i)perylene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Benzo(k)fluoranthene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Benzoic Acid	mg/kg	0.343 U	0.393 U	0.346 U	1.36 J	0.393 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
3-Nitroaniline	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
4,6-Dinitro-2-methylphenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
4-Bromophenyl-phenylether	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
4-Chloro-3-methylphenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
4-Chloroaniline	mg/kg	0.183 UJ	0.175 UJ	0.17 UJ	0.169 UJ	0.17 UJ
4-Chlorophenyl-phenylether	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
4-Nitroaniline	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
4-Nitrophenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Acenaphthene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Acenaphthylene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Acetophenone	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Aniline	mg/kg	0.362 UJ	0.345 UJ	0.336 UJ	0.333 UJ	0.336 UJ
Anthracene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Azobenzene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Benzo(a)pyrene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Benzo(b)fluoranthene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Benzo(g,h,i)perylene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Benzo(k)fluoranthene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Benzoic Acid	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
3-Nitroaniline	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
4,6-Dinitro-2-methylphenol	mg/kg	0.376 U	0.398 UJ	0.391 U	0.704 U	0.346 U
4-Bromophenyl-phenylether	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
4-Chloro-3-methylphenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
4-Chloroaniline	mg/kg	0.19 UJ	0.201 U	0.198 UJ	0.356 UJ	0.175 UJ
4-Chlorophenyl-phenylether	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
4-Nitroaniline	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
4-Nitrophenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Acenaphthene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
Acenaphthylene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
Acetophenone	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Aniline	mg/kg	0.376 UJ	0.398 U	0.391 UJ	0.704 UJ	0.346 UJ
Anthracene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
Azobenzene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Benzidine	mg/kg	R	R	R	1.62 J	R
Benzo(a)anthracene	mg/kg	0.076 U	0.0805 U	0.079 U	0.19	0.07 U
Benzo(a)pyrene	mg/kg	0.076 U	0.0805 U	0.079 U	0.13 J	0.07 U
Benzo(b)fluoranthene	mg/kg	0.076 U	0.0805 U	0.079 U	0.211	0.07 U
Benzo(g,h,i)perylene	mg/kg	0.076 U	0.0805 U	0.079 U	0.114 J	0.07 U
Benzo(k)fluoranthene	mg/kg	0.076 U	0.0805 U	0.079 U	0.171	0.07 U
Benzoic Acid	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
3-Nitroaniline	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4,6-Dinitro-2-methylphenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Bromophenyl-phenylether	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Chloro-3-methylphenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Chloroaniline	mg/kg	0.172 UJ	0.177 UJ	0.338 UJ	0.176 UJ	0.209 UJ
4-Chlorophenyl-phenylether	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Nitroaniline	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
4-Nitrophenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Acenaphthene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Acenaphthylene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Acetophenone	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Aniline	mg/kg	0.34 UJ	0.35 UJ	0.667 UJ	0.347 UJ	0.413 UJ
Anthracene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Azobenzene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(a)pyrene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(b)fluoranthene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(g,h,i)perylene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(k)fluoranthene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzoic Acid	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
3-Nitroaniline	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
4,6-Dinitro-2-methylphenol	mg/kg	0.757 UJ	0.672 UJ	0.385 UJ	0.383 UJ	0.332 UJ
4-Bromophenyl-phenylether	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
4-Chloro-3-methylphenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
4-Chloroaniline	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
4-Chlorophenyl-phenylether	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
4-Nitroaniline	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
4-Nitrophenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Acenaphthene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Acenaphthylene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Acetophenone	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Aniline	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Anthracene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Azobenzene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Benzidine	mg/kg	R	R	R	R	R
Benzo(a)anthracene	mg/kg	0.153 U	0.136 U	0.0514 J	0.0775 U	0.0672 U
Benzo(a)pyrene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Benzo(b)fluoranthene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Benzo(g,h,i)perylene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Benzo(k)fluoranthene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Benzoic Acid	mg/kg	0.757 U	0.672 U	1.2 J	0.383 U	0.332 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
3-Nitroaniline	mg/kg	0.354 U
4,6-Dinitro-2-methylphenol	mg/kg	0.354 UJ
4-Bromophenyl-phenylether	mg/kg	0.354 U
4-Chloro-3-methylphenol	mg/kg	0.354 U
4-Chloroaniline	mg/kg	0.179 U
4-Chlorophenyl-phenylether	mg/kg	0.354 U
4-Nitroaniline	mg/kg	0.179 U
4-Nitrophenol	mg/kg	0.354 U
Acenaphthene	mg/kg	0.0716 U
Acenaphthylene	mg/kg	0.0716 U
Acetophenone	mg/kg	0.179 U
Aniline	mg/kg	0.354 U
Anthracene	mg/kg	0.0716 U
Azobenzene	mg/kg	0.354 U
Benzidine	mg/kg	R
Benzo(a)anthracene	mg/kg	0.0716 U
Benzo(a)pyrene	mg/kg	0.0716 U
Benzo(b)fluoranthene	mg/kg	0.0716 U
Benzo(g,h,i)perylene	mg/kg	0.0716 U
Benzo(k)fluoranthene	mg/kg	0.0716 U
Benzoic Acid	mg/kg	0.354 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
Benzyl Alcohol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Bis(2-chloroethoxy)methane	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Bis(2-chloroethyl)ether	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
bis-(2-chloroisopropyl)ether	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.388 U	0.209 U	1.11	0.332	0.368 U
Butylbenzylphthalate	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Carbazole	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Chrysene	mg/kg	0.106 J	0.0836 U	0.139 U	0.0726 U	0.147 U
Dibenz(a,h)anthracene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Dibenzofuran	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Diethylphthalate	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Dimethylphthalate	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Di-N-Butylphthalate	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Di-N-Octyl Phthalate	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Fluoranthene	mg/kg	0.0928 J	0.0836 U	0.139 U	0.0726 U	0.147 U
Fluorene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Hexachlorobenzene	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Hexachlorobutadiene	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Hexachlorocyclopentadiene	mg/kg	0.388 UJ	0.209 UJ	0.349 UJ	0.182 UJ	0.368 UJ
Hexachloroethane	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Benzyl Alcohol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Bis(2-chloroethoxy)methane	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Bis(2-chloroethyl)ether	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
bis-(2-chloroisopropyl)ether	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.179 U	0.201 U	0.216 U	0.0999 J	0.162 J
Butylbenzylphthalate	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Carbazole	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Chrysene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Dibenz(a,h)anthracene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Dibenzofuran	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Diethylphthalate	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Dimethylphthalate	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Di-N-Butylphthalate	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Di-N-Octyl Phthalate	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Fluoranthene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Fluorene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Hexachlorobenzene	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Hexachlorobutadiene	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Hexachlorocyclopentadiene	mg/kg	0.179 UJ	0.201 UJ	0.216 UJ	0.336 UJ	0.172 UJ
Hexachloroethane	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Benzyl Alcohol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Bis(2-chloroethoxy)methane	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Bis(2-chloroethyl)ether	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
bis-(2-chloroisopropyl)ether	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.17 J
Butylbenzylphthalate	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Carbazole	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Chrysene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Dibenz(a,h)anthracene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Dibenzofuran	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Diethylphthalate	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Dimethylphthalate	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Di-N-Butylphthalate	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Di-N-Octyl Phthalate	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Fluoranthene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Fluorene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Hexachlorobenzene	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Hexachlorobutadiene	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Hexachlorocyclopentadiene	mg/kg	0.174 UJ	0.199 UJ	0.175 UJ	0.187 UJ	0.199 UJ
Hexachloroethane	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Benzyl Alcohol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Bis(2-chloroethoxy)methane	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Bis(2-chloroethyl)ether	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
bis-(2-chloroisopropyl)ether	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.405	0.0974 J	0.17 U	0.169 U	0.17 U
Butylbenzylphthalate	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Carbazole	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Chrysene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Dibenz(a,h)anthracene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Dibenzofuran	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Diethylphthalate	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Dimethylphthalate	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Di-N-Butylphthalate	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Di-N-Octyl Phthalate	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Fluoranthene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Fluorene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Hexachlorobenzene	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Hexachlorobutadiene	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Hexachlorocyclopentadiene	mg/kg	0.183 UJ	0.175 UJ	0.17 UJ	0.169 UJ	0.17 UJ
Hexachloroethane	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Benzyl Alcohol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Bis(2-chloroethoxy)methane	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Bis(2-chloroethyl)ether	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
bis-(2-chloroisopropyl)ether	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.19 U	0.201 U	0.198 U	8.64	0.175 U
Butylbenzylphthalate	mg/kg	0.376 U	0.398 U	0.391 U	1.53	0.346 U
Carbazole	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Chrysene	mg/kg	0.076 U	0.0805 U	0.079 U	0.296	0.07 U
Dibenz(a,h)anthracene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
Dibenzofuran	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Diethylphthalate	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Dimethylphthalate	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Di-N-Butylphthalate	mg/kg	0.376 U	0.398 U	0.391 U	1.71	0.346 U
Di-N-Octyl Phthalate	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Fluoranthene	mg/kg	0.076 U	0.0805 U	0.079 U	0.423	0.07 U
Fluorene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
Hexachlorobenzene	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Hexachlorobutadiene	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Hexachlorocyclopentadiene	mg/kg	0.19 UJ	0.201 UJ	0.198 UJ	0.356 UJ	0.175 UJ
Hexachloroethane	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Benzyl Alcohol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Bis(2-chloroethoxy)methane	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Bis(2-chloroethyl)ether	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
bis-(2-chloroisopropyl)ether	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.172 U	0.177 U	0.315 J	0.176 U	0.209 U
Butylbenzylphthalate	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Carbazole	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Chrysene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Dibenz(a,h)anthracene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Dibenzofuran	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Diethylphthalate	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Dimethylphthalate	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Di-N-Butylphthalate	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Di-N-Octyl Phthalate	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Fluoranthene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Fluorene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Hexachlorobenzene	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Hexachlorobutadiene	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Hexachlorocyclopentadiene	mg/kg	0.172 UJ	0.177 UJ	0.338 UJ	0.176 UJ	0.209 UJ
Hexachloroethane	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzyl Alcohol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Bis(2-chloroethoxy)methane	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Bis(2-chloroethyl)ether	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
bis-(2-chloroisopropyl)ether	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Butylbenzylphthalate	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Carbazole	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Chrysene	mg/kg	0.153 U	0.0827 J	0.0577 J	0.0775 U	0.0672 U
Dibenz(a,h)anthracene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Dibenzofuran	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Diethylphthalate	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Dimethylphthalate	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Di-N-Butylphthalate	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Di-N-Octyl Phthalate	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Fluoranthene	mg/kg	0.153 U	0.187	0.133	0.0775 U	0.0672 U
Fluorene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Hexachlorobenzene	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Hexachlorobutadiene	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Hexachlorocyclopentadiene	mg/kg	0.383 UJ	0.34 UJ	0.195 UJ	0.194 UJ	0.168 UJ
Hexachloroethane	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
Benzyl Alcohol	mg/kg	0.354 U
Bis(2-chloroethoxy)methane	mg/kg	0.354 U
Bis(2-chloroethyl)ether	mg/kg	0.179 U
bis-(2-chloroisopropyl)ether	mg/kg	0.179 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.179 U
Butylbenzylphthalate	mg/kg	0.354 U
Carbazole	mg/kg	0.179 U
Chrysene	mg/kg	0.0716 U
Dibenz(a,h)anthracene	mg/kg	0.0716 U
Dibenzofuran	mg/kg	0.179 U
Diethylphthalate	mg/kg	0.354 U
Dimethylphthalate	mg/kg	0.354 U
Di-N-Butylphthalate	mg/kg	0.354 U
Di-N-Octyl Phthalate	mg/kg	0.354 U
Fluoranthene	mg/kg	0.0716 U
Fluorene	mg/kg	0.0716 U
Hexachlorobenzene	mg/kg	0.179 U
Hexachlorobutadiene	mg/kg	0.179 U
Hexachlorocyclopentadiene	mg/kg	0.179 UJ
Hexachloroethane	mg/kg	0.179 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0716 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
Isophorone	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
Naphthalene	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Naphthalene, 1-methyl-	mg/kg	0.155 U	0.0836 U	0.139 U	0.0726 U	0.147 U
Nitrobenzene	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.388 U	0.209 U	0.349 U	0.182 U	0.368 U
N-Nitrosodiphenylamine	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Pentachloronitrobenzene	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Pentachlorophenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Phenanthrene	mg/kg	0.0968 J	0.0836 U	0.139 U	0.0726 U	0.147 U
Phenol	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U
Pyrene	mg/kg	0.213	0.0836 U	0.139 U	0.0726 U	0.147 U
Pyridine	mg/kg	0.767 U	0.414 U	0.689 U	0.359 U	0.727 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Isophorone	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
Naphthalene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Naphthalene, 1-methyl-	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Nitrobenzene	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.179 U	0.201 U	0.216 U	0.336 U	0.172 U
N-Nitrosodiphenylamine	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Pentachloronitrobenzene	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Pentachlorophenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Phenanthrene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Phenol	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U
Pyrene	mg/kg	0.0715 U	0.0802 U	0.0862 U	0.134 U	0.0688 U
Pyridine	mg/kg	0.354 U	0.397 U	0.427 U	0.665 U	0.34 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Isophorone	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
Naphthalene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Naphthalene, 1-methyl-	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Nitrobenzene	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.174 U	0.199 U	0.175 U	0.187 U	0.199 U
N-Nitrosodiphenylamine	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Pentachloronitrobenzene	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Pentachlorophenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Phenanthrene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Phenol	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U
Pyrene	mg/kg	0.0694 U	0.0794 U	0.07 U	0.0747 U	0.0794 U
Pyridine	mg/kg	0.343 U	0.393 U	0.346 U	0.37 U	0.393 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Isophorone	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
Naphthalene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Naphthalene, 1-methyl-	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Nitrobenzene	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.183 U	0.175 U	0.17 U	0.169 U	0.17 U
N-Nitrosodiphenylamine	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Pentachloronitrobenzene	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Pentachlorophenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Phenanthrene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Phenol	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U
Pyrene	mg/kg	0.0732 U	0.0697 U	0.0679 U	0.0674 U	0.0679 U
Pyridine	mg/kg	0.362 U	0.345 U	0.336 U	0.333 U	0.336 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Isophorone	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
Naphthalene	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
Naphthalene, 1-methyl-	mg/kg	0.076 U	0.0805 U	0.079 U	0.142 U	0.07 U
Nitrobenzene	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.19 U	0.201 U	0.198 U	0.356 U	0.175 U
N-Nitrosodiphenylamine	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Pentachloronitrobenzene	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Pentachlorophenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Phenanthrene	mg/kg	0.076 U	0.0805 U	0.079 U	0.16	0.07 U
Phenol	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U
Pyrene	mg/kg	0.076 U	0.0805 U	0.079 U	0.379	0.07 U
Pyridine	mg/kg	0.376 U	0.398 U	0.391 U	0.704 U	0.346 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Isophorone	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Naphthalene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Naphthalene, 1-methyl-	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Nitrobenzene	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
N-Nitrosodiphenylamine	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Pentachloronitrobenzene	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Pentachlorophenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Phenanthrene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Phenol	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Pyrene	mg/kg	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Pyridine	mg/kg	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Isophorone	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
Naphthalene	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Naphthalene, 1-methyl-	mg/kg	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U
Nitrobenzene	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U
N-Nitrosodiphenylamine	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Pentachloronitrobenzene	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Pentachlorophenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Phenanthrene	mg/kg	0.153 U	0.167	0.0723 J	0.0775 U	0.0672 U
Phenol	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U
Pyrene	mg/kg	0.153 U	0.203	0.171	0.0775 U	0.0672 U
Pyridine	mg/kg	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
Isophorone	mg/kg	0.179 U
Naphthalene	mg/kg	0.0716 U
Naphthalene, 1-methyl-	mg/kg	0.0716 U
Nitrobenzene	mg/kg	0.179 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.179 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.179 U
N-Nitrosodiphenylamine	mg/kg	0.354 U
Pentachloronitrobenzene	mg/kg	0.354 U
Pentachlorophenol	mg/kg	0.354 U
Phenanthrene	mg/kg	0.0716 U
Phenol	mg/kg	0.354 U
Pyrene	mg/kg	0.0716 U
Pyridine	mg/kg	0.354 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
1,1,1,2-Tetrachloroethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,1,1-Trichloroethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,1,2,2-Tetrachloroethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,1,2-Trichloroethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,1-Dichloroethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,1-Dichloroethene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,1-Dichloropropene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,2,3-Trichlorobenzene	mg/kg	0.056 U	0.0633 U	0.00449 UJ	0.00569 UJ	0.00505 UJ
1,2,3-Trichloropropane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,2,4-Trichlorobenzene	mg/kg	0.056 U	0.0633 U	0.00449 UJ	0.00569 UJ	0.00505 UJ
1,2,4-Trimethylbenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,2-Dibromo-3-chloropropane	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
1,2-Dibromoethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,2-Dichlorobenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,2-Dichloroethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,2-Dichloropropane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,3,5-Trichlorobenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,3,5-Trimethylbenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,3-Dichlorobenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,3-Dichloropropane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,1,1-Trichloroethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,1,2-Trichloroethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,1-Dichloroethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,1-Dichloroethene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,1-Dichloropropene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,2,3-Trichlorobenzene	mg/kg	0.00569 UJ	0.00564 UJ	0.00528 UJ	0.00537 UJ	0.00507 UJ
1,2,3-Trichloropropane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,2,4-Trichlorobenzene	mg/kg	0.00569 UJ	0.00564 UJ	0.00528 UJ	0.00537 UJ	0.00507 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
1,2-Dibromoethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,2-Dichlorobenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,2-Dichloroethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,2-Dichloropropane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,3,5-Trichlorobenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,3,5-Trimethylbenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,3-Dichlorobenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,3-Dichloropropane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,1,1-Trichloroethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,1,2-Trichloroethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,1-Dichloroethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,1-Dichloroethene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,1-Dichloropropene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,2,3-Trichlorobenzene	mg/kg	0.00522 UJ	0.051 U	0.00555 UJ	0.00551 UJ	0.00528 UJ
1,2,3-Trichloropropane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,2,4-Trichlorobenzene	mg/kg	0.00522 UJ	0.051 U	0.00555 UJ	0.00551 UJ	0.00528 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
1,2-Dibromoethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dichlorobenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dichloroethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dichloropropane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,3,5-Trichlorobenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,3,5-Trimethylbenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,3-Dichlorobenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,3-Dichloropropane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,1,1-Trichloroethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,1,2-Trichloroethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,1-Dichloroethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,1-Dichloroethene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,1-Dichloropropene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,2,3-Trichlorobenzene	mg/kg	0.00587 UJ	0.00495 UJ	0.00484 UJ	0.00511 UJ	0.0052 UJ
1,2,3-Trichloropropane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,2,4-Trichlorobenzene	mg/kg	0.00587 UJ	0.00495 UJ	0.00484 UJ	0.00511 UJ	0.0052 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
1,2-Dibromoethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,2-Dichlorobenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,2-Dichloroethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,2-Dichloropropane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,3,5-Trichlorobenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,3,5-Trimethylbenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,3-Dichlorobenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,3-Dichloropropane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,1,1-Trichloroethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,1,2-Trichloroethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,1-Dichloroethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,1-Dichloroethene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,1-Dichloropropene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,2,3-Trichlorobenzene	mg/kg	0.00574 UJ	0.0476 U	0.00496 UJ	0.00494 UJ	0.00553 UJ
1,2,3-Trichloropropane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,2,4-Trichlorobenzene	mg/kg	0.00574 UJ	0.0476 U	0.00496 UJ	0.00494 UJ	0.00553 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
1,2-Dibromoethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,2-Dichlorobenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,2-Dichloroethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,2-Dichloropropane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,3,5-Trichlorobenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,3,5-Trimethylbenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,3-Dichlorobenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,3-Dichloropropane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,1-Trichloroethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,2-Trichloroethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1-Dichloroethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1-Dichloroethene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1-Dichloropropene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2,3-Trichlorobenzene	mg/kg	0.00571 UJ	0.00503 UJ	0.00483 UJ	0.00505 UJ	0.00521 UJ
1,2,3-Trichloropropane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2,4-Trichlorobenzene	mg/kg	0.00571 UJ	0.00503 UJ	0.00483 UJ	0.00505 UJ	0.00521 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
1,2-Dibromoethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dichlorobenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dichloroethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dichloropropane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3,5-Trichlorobenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3,5-Trimethylbenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3-Dichlorobenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3-Dichloropropane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,1,1-Trichloroethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,1,2-Trichloroethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,1-Dichloroethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,1-Dichloroethene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,1-Dichloropropene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2,3-Trichlorobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2,3-Trichloropropane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2,4-Trichlorobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2,4-Trimethylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
1,2-Dibromoethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2-Dichlorobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2-Dichloroethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,2-Dichloropropane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,3,5-Trichlorobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,3,5-Trimethylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,3-Dichlorobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,3-Dichloropropane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.0513 U
1,1,1-Trichloroethane	mg/kg	0.0513 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0513 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0513 U
1,1,2-Trichloroethane	mg/kg	0.0513 U
1,1-Dichloroethane	mg/kg	0.0513 U
1,1-Dichloroethene	mg/kg	0.0513 U
1,1-Dichloropropene	mg/kg	0.0513 U
1,2,3-Trichlorobenzene	mg/kg	0.0513 U
1,2,3-Trichloropropane	mg/kg	0.0513 U
1,2,4-Trichlorobenzene	mg/kg	0.0513 U
1,2,4-Trimethylbenzene	mg/kg	0.0513 U
1,2-Dibromo-3-chloropropane	mg/kg	0.103 U
1,2-Dibromoethane	mg/kg	0.0513 U
1,2-Dichlorobenzene	mg/kg	0.0513 U
1,2-Dichloroethane	mg/kg	0.0513 U
1,2-Dichloropropane	mg/kg	0.0513 U
1,3,5-Trichlorobenzene	mg/kg	0.0513 U
1,3,5-Trimethylbenzene	mg/kg	0.0513 U
1,3-Dichlorobenzene	mg/kg	0.0513 U
1,3-Dichloropropane	mg/kg	0.0513 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
1,3-Dichloropropene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,4-Dichlorobenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
1,4-Dioxane	mg/kg	1.12 U	1.27 U	0.0898 U	0.114 U	0.101 U
2,2-Dichloropropane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
2-Butanone	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
2-Chlorotoluene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
2-Hexanone	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
4-Chlorotoluene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
4-Isopropyltoluene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
4-Methyl-2-pentanone	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
Acetone	mg/kg	0.56 U	0.633 U	0.0449 U	0.0569 U	0.0505 U
Acrylonitrile	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Benzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Bromobenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Bromochloromethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Bromodichloromethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Bromoform	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Bromomethane	mg/kg	0.112 UJ	0.127 UJ	0.00898 U	0.0114 U	0.0101 U
Carbon disulfide	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
Carbon tetrachloride	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Chlorobenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,3-Dichloropropene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,4-Dichlorobenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
1,4-Dioxane	mg/kg	0.114 U	0.113 U	0.106 U	0.107 U	0.101 U
2,2-Dichloropropane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
2-Butanone	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
2-Chlorotoluene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
2-Hexanone	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
4-Chlorotoluene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
4-Isopropyltoluene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
4-Methyl-2-pentanone	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
Acetone	mg/kg	0.0569 U	0.0564 U	0.0528 U	0.0537 U	0.0507 U
Acrylonitrile	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Benzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Bromobenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Bromochloromethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Bromodichloromethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Bromoform	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Bromomethane	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
Carbon disulfide	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
Carbon tetrachloride	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Chlorobenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
1,3-Dichloropropene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,4-Dichlorobenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
1,4-Dioxane	mg/kg	0.104 U	1.02 U	0.111 U	0.11 U	0.106 U
2,2-Dichloropropane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
2-Butanone	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
2-Chlorotoluene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
2-Hexanone	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
4-Chlorotoluene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
4-Isopropyltoluene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
4-Methyl-2-pentanone	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
Acetone	mg/kg	0.0522 U	0.392 J	0.0555 U	0.0551 U	0.0528 U
Acrylonitrile	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Benzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Bromobenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Bromochloromethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Bromodichloromethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Bromoform	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Bromomethane	mg/kg	0.0104 U	0.102 UJ	0.0111 U	0.011 U	0.0106 U
Carbon disulfide	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
Carbon tetrachloride	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Chlorobenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U

U – not detected; J – estimated value; R – rejected; EB – detected in equipment blank; N – tentatively identified; + biased high; - biased low

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,3-Dichloropropene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,4-Dichlorobenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
1,4-Dioxane	mg/kg	0.117 U	0.0989 U	0.0967 U	0.102 U	0.104 U
2,2-Dichloropropane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
2-Butanone	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
2-Chlorotoluene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
2-Hexanone	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
4-Chlorotoluene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
4-Isopropyltoluene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
4-Methyl-2-pentanone	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
Acetone	mg/kg	0.0587 U	0.0495 U	0.0484 U	0.0511 U	0.052 U
Acrylonitrile	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Benzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Bromobenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Bromochloromethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Bromodichloromethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Bromoform	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Bromomethane	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
Carbon disulfide	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
Carbon tetrachloride	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Chlorobenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
1,3-Dichloropropene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,4-Dichlorobenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
1,4-Dioxane	mg/kg	0.115 U	0.953 U	0.0993 U	0.0988 U	0.111 U
2,2-Dichloropropane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
2-Butanone	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
2-Chlorotoluene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
2-Hexanone	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
4-Chlorotoluene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
4-Isopropyltoluene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
4-Methyl-2-pentanone	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
Acetone	mg/kg	0.0574 U	0.121 J	0.0496 U	0.0494 U	0.0553 U
Acrylonitrile	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Benzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Bromobenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Bromochloromethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Bromodichloromethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Bromoform	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Bromomethane	mg/kg	0.0115 U	0.0953 UJ	0.00993 U	0.00988 U	0.0111 U
Carbon disulfide	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
Carbon tetrachloride	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Chlorobenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
1,3-Dichloropropene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,4-Dichlorobenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,4-Dioxane	mg/kg	0.114 U	0.101 U	0.0966 U	0.101 U	0.104 U
2,2-Dichloropropane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
2-Butanone	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
2-Chlorotoluene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
2-Hexanone	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
4-Chlorotoluene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
4-Isopropyltoluene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
4-Methyl-2-pentanone	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Acetone	mg/kg	0.0571 U	0.0503 U	0.0483 U	0.0505 U	0.0521 U
Acrylonitrile	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Benzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromobenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromochloromethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromodichloromethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromoform	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromomethane	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Carbon disulfide	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Carbon tetrachloride	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Chlorobenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
1,3-Dichloropropene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,4-Dichlorobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
1,4-Dioxane	mg/kg	0.926 U	1.12 U	0.995 U	1.31 U	0.775 U
2,2-Dichloropropane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
2-Butanone	mg/kg	0.0926 U	0.112 U	0.0995 U	0.0884 J	0.0775 U
2-Chlorotoluene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
2-Hexanone	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
4-Chlorotoluene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
4-Isopropyltoluene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
4-Methyl-2-pentanone	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
Acetone	mg/kg	0.0913 J	0.559 U	0.498 U	0.216 J	0.388 U
Acrylonitrile	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Benzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Bromobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Bromochloromethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Bromodichloromethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Bromoform	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Bromomethane	mg/kg	0.0926 UJ	0.112 UJ	0.0995 UJ	0.131 UJ	0.0775 UJ
Carbon disulfide	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
Carbon tetrachloride	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Chlorobenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
1,3-Dichloropropene	mg/kg	0.0513 U
1,4-Dichlorobenzene	mg/kg	0.0513 U
1,4-Dioxane	mg/kg	1.03 U
2,2-Dichloropropane	mg/kg	0.0513 U
2-Butanone	mg/kg	0.103 U
2-Chlorotoluene	mg/kg	0.0513 U
2-Hexanone	mg/kg	0.103 U
4-Chlorotoluene	mg/kg	0.0513 U
4-Isopropyltoluene	mg/kg	0.0513 U
4-Methyl-2-pentanone	mg/kg	0.103 U
Acetone	mg/kg	0.513 U
Acrylonitrile	mg/kg	0.0513 U
Benzene	mg/kg	0.0513 U
Bromobenzene	mg/kg	0.0513 U
Bromochloromethane	mg/kg	0.0513 U
Bromodichloromethane	mg/kg	0.0513 U
Bromoform	mg/kg	0.0513 U
Bromomethane	mg/kg	0.103 UJ
Carbon disulfide	mg/kg	0.103 U
Carbon tetrachloride	mg/kg	0.0513 U
Chlorobenzene	mg/kg	0.0513 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
Chloroethane	mg/kg	0.112 UJ	0.127 UJ	0.00898 U	0.0114 U	0.0101 U
Chloroform	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Chloromethane	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
cis-1,2-Dichloroethene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
cis-1,3-Dichloropropene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Dibromochloromethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Dibromomethane	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Dichlorodifluoromethane	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
Diethyl ether	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Diisopropyl Ether	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Ethanol	mg/kg	11.2 UJ	12.7 UJ	0.898 U	1.14 U	1.01 U
Ethylbenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Hexachlorobutadiene	mg/kg	0.056 U	0.0633 U	0.00898 UJ	0.0114 UJ	0.0101 UJ
Isopropylbenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
m,p-Xylene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Methyl tert-butyl ether	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Methylene chloride	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
Naphthalene	mg/kg	0.056 U	0.0633 U	0.00449 UJ	0.00569 UJ	0.00505 UJ
n-Butylbenzene	mg/kg	0.056 U	0.0633 U	0.00898 U	0.0114 U	0.0101 U
n-Propylbenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
o-Xylene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Chloroethane	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
Chloroform	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Chloromethane	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
cis-1,2-Dichloroethene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
cis-1,3-Dichloropropene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Dibromochloromethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Dibromomethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Dichlorodifluoromethane	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
Diethyl ether	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Diisopropyl Ether	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Ethanol	mg/kg	1.14 U	1.13 U	1.06 U	1.07 U	1.01 U
Ethylbenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Hexachlorobutadiene	mg/kg	0.0114 UJ	0.0113 UJ	0.0106 UJ	0.0107 UJ	0.0101 UJ
Isopropylbenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
m,p-Xylene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Methyl tert-butyl ether	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Methylene chloride	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
Naphthalene	mg/kg	0.00569 UJ	0.00564 UJ	0.00528 UJ	0.00537 UJ	0.00507 UJ
n-Butylbenzene	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
n-Propylbenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
o-Xylene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Chloroethane	mg/kg	0.0104 U	0.102 UJ	0.0111 U	0.011 U	0.0106 U
Chloroform	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Chloromethane	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
cis-1,2-Dichloroethene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
cis-1,3-Dichloropropene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Dibromochloromethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Dibromomethane	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Dichlorodifluoromethane	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
Diethyl ether	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Diisopropyl Ether	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Ethanol	mg/kg	1.04 U	10.2 UJ	1.11 U	1.1 U	1.06 U
Ethylbenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Hexachlorobutadiene	mg/kg	0.0104 UJ	0.051 U	0.0111 UJ	0.011 UJ	0.0106 UJ
Isopropylbenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
m,p-Xylene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Methyl tert-butyl ether	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Methylene chloride	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
Naphthalene	mg/kg	0.00522 UJ	0.051 U	0.00555 UJ	0.00551 UJ	0.00528 UJ
n-Butylbenzene	mg/kg	0.0104 U	0.051 U	0.0111 U	0.011 U	0.0106 U
n-Propylbenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
o-Xylene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Chloroethane	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
Chloroform	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Chloromethane	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
cis-1,2-Dichloroethene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
cis-1,3-Dichloropropene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Dibromochloromethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Dibromomethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Dichlorodifluoromethane	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
Diethyl ether	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Diisopropyl Ether	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Ethanol	mg/kg	1.17 U	0.989 U	0.967 U	1.02 U	1.04 U
Ethylbenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Hexachlorobutadiene	mg/kg	0.0117 UJ	0.00989 UJ	0.00967 UJ	0.0102 UJ	0.0104 UJ
Isopropylbenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
m,p-Xylene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Methyl tert-butyl ether	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Methylene chloride	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
Naphthalene	mg/kg	0.00587 UJ	0.00495 UJ	0.00484 UJ	0.00511 UJ	0.0052 UJ
n-Butylbenzene	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
n-Propylbenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
o-Xylene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Chloroethane	mg/kg	0.0115 U	0.0953 UJ	0.00993 U	0.00988 U	0.0111 U
Chloroform	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Chloromethane	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
cis-1,2-Dichloroethene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
cis-1,3-Dichloropropene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Dibromochloromethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Dibromomethane	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Dichlorodifluoromethane	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
Diethyl ether	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Diisopropyl Ether	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Ethanol	mg/kg	1.15 U	9.53 UJ	0.993 U	0.988 U	1.11 U
Ethylbenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Hexachlorobutadiene	mg/kg	0.0115 UJ	0.0476 U	0.00993 UJ	0.00988 UJ	0.0111 UJ
Isopropylbenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
m,p-Xylene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Methyl tert-butyl ether	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Methylene chloride	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
Naphthalene	mg/kg	0.00574 UJ	0.0476 U	0.00496 UJ	0.00494 UJ	0.00553 UJ
n-Butylbenzene	mg/kg	0.0115 U	0.0476 U	0.00993 U	0.00988 U	0.0111 U
n-Propylbenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
o-Xylene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Chloroethane	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Chloroform	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Chloromethane	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
cis-1,2-Dichloroethene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
cis-1,3-Dichloropropene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Dibromochloromethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Dibromomethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Dichlorodifluoromethane	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Diethyl ether	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Diisopropyl Ether	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Ethanol	mg/kg	1.14 U	1.01 U	0.966 U	1.01 U	1.04 U
Ethylbenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Hexachlorobutadiene	mg/kg	0.0114 UJ	0.0101 UJ	0.00966 UJ	0.0101 UJ	0.0104 UJ
Isopropylbenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
m,p-Xylene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Methyl tert-butyl ether	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Methylene chloride	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Naphthalene	mg/kg	0.00571 UJ	0.00503 UJ	0.00483 UJ	0.00505 UJ	0.00521 UJ
n-Butylbenzene	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
n-Propylbenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
o-Xylene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Chloroethane	mg/kg	0.0926 UJ	0.112 UJ	0.0995 UJ	0.131 UJ	0.0775 UJ
Chloroform	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Chloromethane	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
cis-1,2-Dichloroethene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
cis-1,3-Dichloropropene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Dibromochloromethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Dibromomethane	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Dichlorodifluoromethane	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
Diethyl ether	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Diisopropyl Ether	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Ethanol	mg/kg	9.26 UJ	11.2 UJ	9.95 UJ	13.1 UJ	7.75 UJ
Ethylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Hexachlorobutadiene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Isopropylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
m,p-Xylene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Methyl tert-butyl ether	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Methylene chloride	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
Naphthalene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
n-Butylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
n-Propylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
o-Xylene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
Chloroethane	mg/kg	0.103 UJ
Chloroform	mg/kg	0.0513 U
Chloromethane	mg/kg	0.103 U
cis-1,2-Dichloroethene	mg/kg	0.0513 U
cis-1,3-Dichloropropene	mg/kg	0.0513 U
Dibromochloromethane	mg/kg	0.0513 U
Dibromomethane	mg/kg	0.0513 U
Dichlorodifluoromethane	mg/kg	0.103 U
Diethyl ether	mg/kg	0.0513 U
Diisopropyl Ether	mg/kg	0.0513 U
Ethanol	mg/kg	10.3 UJ
Ethylbenzene	mg/kg	0.0513 U
Hexachlorobutadiene	mg/kg	0.0513 U
Isopropylbenzene	mg/kg	0.0513 U
m,p-Xylene	mg/kg	0.0513 U
Methyl tert-butyl ether	mg/kg	0.0513 U
Methylene chloride	mg/kg	0.103 U
Naphthalene	mg/kg	0.0513 U
n-Butylbenzene	mg/kg	0.0513 U
n-Propylbenzene	mg/kg	0.0513 U
o-Xylene	mg/kg	0.0513 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
sec-Butylbenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Styrene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
tert-Amyl methyl ether	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
tert-Butyl Alcohol	mg/kg	1.12 UJ	1.27 UJ	0.0898 U	0.114 U	0.101 U
Tert-Butyl Ethyl Ether	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
tert-Butylbenzene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Tetrachloroethene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Tetrahydrofuran	mg/kg	0.112 U	0.127 U	0.00898 U	0.0114 U	0.0101 U
Toluene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
trans-1,2-Dichloroethene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
trans-1,3-Dichloropropene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
trans-1,4-Dichlorobutene	mg/kg	0.28 U	0.317 U	0.0225 U	0.0285 U	0.0252 U
Trichloroethene	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Trichlorofluoromethane	mg/kg	0.056 UJ	0.0633 UJ	0.00449 U	0.00569 U	0.00505 U
Vinyl chloride	mg/kg	0.056 U	0.0633 U	0.00449 U	0.00569 U	0.00505 U
Xylene (total)	mg/kg	0.168 U	0.19 U	0.0135 U	0.0171 U	0.0151 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
sec-Butylbenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Styrene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
tert-Amyl methyl ether	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
tert-Butyl Alcohol	mg/kg	0.114 U	0.113 U	0.106 U	0.107 U	0.101 U
Tert-Butyl Ethyl Ether	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
tert-Butylbenzene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Tetrachloroethene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Tetrahydrofuran	mg/kg	0.0114 U	0.0113 U	0.0106 U	0.0107 U	0.0101 U
Toluene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
trans-1,2-Dichloroethene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
trans-1,3-Dichloropropene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
trans-1,4-Dichlorobutene	mg/kg	0.0285 U	0.0282 U	0.0264 U	0.0269 U	0.0253 U
Trichloroethene	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Trichlorofluoromethane	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Vinyl chloride	mg/kg	0.00569 U	0.00564 U	0.00528 U	0.00537 U	0.00507 U
Xylene (total)	mg/kg	0.0171 U	0.0169 U	0.0159 U	0.0161 U	0.0152 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
sec-Butylbenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Styrene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
tert-Amyl methyl ether	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
tert-Butyl Alcohol	mg/kg	0.104 U	1.02 UJ	0.111 U	0.11 U	0.106 U
Tert-Butyl Ethyl Ether	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
tert-Butylbenzene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Tetrachloroethene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Tetrahydrofuran	mg/kg	0.0104 U	0.102 U	0.0111 U	0.011 U	0.0106 U
Toluene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
trans-1,2-Dichloroethene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
trans-1,3-Dichloropropene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
trans-1,4-Dichlorobutene	mg/kg	0.0261 U	0.255 U	0.0278 U	0.0276 U	0.0264 U
Trichloroethene	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Trichlorofluoromethane	mg/kg	0.00522 U	0.051 UJ	0.00555 U	0.00551 U	0.00528 U
Vinyl chloride	mg/kg	0.00522 U	0.051 U	0.00555 U	0.00551 U	0.00528 U
Xylene (total)	mg/kg	0.0157 U	0.153 U	0.0167 U	0.0165 U	0.0158 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
sec-Butylbenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Styrene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
tert-Amyl methyl ether	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
tert-Butyl Alcohol	mg/kg	0.117 U	0.0989 U	0.0967 U	0.102 U	0.104 U
Tert-Butyl Ethyl Ether	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
tert-Butylbenzene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Tetrachloroethene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Tetrahydrofuran	mg/kg	0.0117 U	0.00989 U	0.00967 U	0.0102 U	0.0104 U
Toluene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
trans-1,2-Dichloroethene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
trans-1,3-Dichloropropene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
trans-1,4-Dichlorobutene	mg/kg	0.0293 U	0.0247 U	0.0242 U	0.0255 U	0.026 U
Trichloroethene	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Trichlorofluoromethane	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Vinyl chloride	mg/kg	0.00587 U	0.00495 U	0.00484 U	0.00511 U	0.0052 U
Xylene (total)	mg/kg	0.0176 U	0.0148 U	0.0145 U	0.0153 U	0.0156 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
sec-Butylbenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Styrene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
tert-Amyl methyl ether	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
tert-Butyl Alcohol	mg/kg	0.115 U	0.953 UJ	0.0993 U	0.0988 U	0.111 U
Tert-Butyl Ethyl Ether	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
tert-Butylbenzene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Tetrachloroethene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Tetrahydrofuran	mg/kg	0.0115 U	0.0953 U	0.00993 U	0.00988 U	0.0111 U
Toluene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
trans-1,2-Dichloroethene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
trans-1,3-Dichloropropene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
trans-1,4-Dichlorobutene	mg/kg	0.0287 U	0.238 U	0.0248 U	0.0247 U	0.0277 U
Trichloroethene	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Trichlorofluoromethane	mg/kg	0.00574 U	0.0476 UJ	0.00496 U	0.00494 U	0.00553 U
Vinyl chloride	mg/kg	0.00574 U	0.0476 U	0.00496 U	0.00494 U	0.00553 U
Xylene (total)	mg/kg	0.0172 U	0.143 U	0.0149 U	0.0148 U	0.0166 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
sec-Butylbenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Styrene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
tert-Amyl methyl ether	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
tert-Butyl Alcohol	mg/kg	0.114 U	0.101 U	0.0966 U	0.101 U	0.104 U
Tert-Butyl Ethyl Ether	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
tert-Butylbenzene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Tetrachloroethene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Tetrahydrofuran	mg/kg	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Toluene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
trans-1,2-Dichloroethene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
trans-1,3-Dichloropropene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
trans-1,4-Dichlorobutene	mg/kg	0.0286 U	0.0251 U	0.0241 U	0.0252 U	0.0261 U
Trichloroethene	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Trichlorofluoromethane	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Vinyl chloride	mg/kg	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Xylene (total)	mg/kg	0.0171 U	0.0151 U	0.0145 U	0.0151 U	0.0156 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
sec-Butylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Styrene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
tert-Amyl methyl ether	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
tert-Butyl Alcohol	mg/kg	0.926 UJ	1.12 UJ	0.995 UJ	1.31 UJ	0.775 UJ
Tert-Butyl Ethyl Ether	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
tert-Butylbenzene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Tetrachloroethene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Tetrahydrofuran	mg/kg	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U
Toluene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
trans-1,2-Dichloroethene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
trans-1,3-Dichloropropene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
trans-1,4-Dichlorobutene	mg/kg	0.231 U	0.28 U	0.249 U	0.327 U	0.194 U
Trichloroethene	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Trichlorofluoromethane	mg/kg	0.0463 UJ	0.0559 UJ	0.0498 UJ	0.0653 UJ	0.0388 UJ
Vinyl chloride	mg/kg	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U
Xylene (total)	mg/kg	0.139 U	0.168 U	0.149 U	0.196 U	0.116 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
sec-Butylbenzene	mg/kg	0.0513 U
Styrene	mg/kg	0.0513 U
tert-Amyl methyl ether	mg/kg	0.0513 U
tert-Butyl Alcohol	mg/kg	1.03 UJ
Tert-Butyl Ethyl Ether	mg/kg	0.0513 U
tert-Butylbenzene	mg/kg	0.0513 U
Tetrachloroethene	mg/kg	0.0513 U
Tetrahydrofuran	mg/kg	0.103 U
Toluene	mg/kg	0.0513 U
trans-1,2-Dichloroethene	mg/kg	0.0513 U
trans-1,3-Dichloropropene	mg/kg	0.0513 U
trans-1,4-Dichlorobutene	mg/kg	0.256 U
Trichloroethene	mg/kg	0.0513 U
Trichlorofluoromethane	mg/kg	0.0513 UJ
Vinyl chloride	mg/kg	0.0513 U
Xylene (total)	mg/kg	0.154 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10051-1	620-10051-10	620-10051-11	620-10051-12	620-10051-13
Field Sample ID		2023-MW-01-0406	2023-MW-02-1012	2023-SB-16-0002	2023-SB-16-0204	2023-SB-16-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	03/01/23	03/01/23	03/01/23
Benzene	mg/kg	0.081 U	0.0688 U	0.0734 U	0.0551 U	0.0536 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.405 U	0.344 U	0.367 U	0.276 U	0.268 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.405 U	0.344 U	0.367 U	0.276 U	0.268 U
C9-C10 Aromatics	mg/kg	0.405 U	0.0866 J	0.367 U	0.276 U	0.268 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.405 U	0.344 U	0.367 U	0.276 U	0.268 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.405 U	0.178 J	0.367 U	0.276 U	0.268 U
Ethylbenzene	mg/kg	0.081 U	0.0688 U	0.0734 U	0.0551 U	0.0536 U
m,p-Xylene	mg/kg	0.162 U	0.138 U	0.147 U	0.11 U	0.107 U
Methyl tert-butyl ether	mg/kg	0.081 U	0.0688 U	0.0734 U	0.0551 U	0.0536 U
Naphthalene	mg/kg	0.101 U	0.0743 U	0.0734 U	0.0551 U	0.0536 U
o-Xylene	mg/kg	0.081 U	0.0688 U	0.0734 U	0.0551 U	0.0536 U
Toluene	mg/kg	0.081 U	0.0688 U	0.0734 U	0.0551 U	0.0536 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10051-14	620-10051-15	620-10051-16	620-10051-17	620-10051-18
Field Sample ID		2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012	2023-SB-15-0002	2023-SB-15-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Benzene	mg/kg	0.052 U	0.0668 U	0.0531 U	0.0504 U	0.0519 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.26 U	0.334 U	0.265 U	0.252 U	0.26 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.26 U	0.334 U	0.265 U	0.252 U	0.26 U
C9-C10 Aromatics	mg/kg	0.26 U	0.334 U	0.265 U	0.252 U	0.26 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.26 U	0.334 U	0.265 U	0.252 U	0.26 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.26 U	0.334 U	0.265 U	0.252 U	0.26 U
Ethylbenzene	mg/kg	0.052 U	0.0668 U	0.0531 U	0.0504 U	0.0519 U
m,p-Xylene	mg/kg	0.104 U	0.134 U	0.106 U	0.101 U	0.104 U
Methyl tert-butyl ether	mg/kg	0.052 U	0.0668 U	0.0531 U	0.0504 U	0.0519 U
Naphthalene	mg/kg	0.052 U	0.0668 U	0.0531 U	0.0376 J	0.0519 U
o-Xylene	mg/kg	0.052 U	0.0668 U	0.0531 U	0.0504 U	0.0519 U
Toluene	mg/kg	0.052 U	0.0668 U	0.0531 U	0.0504 U	0.0519 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10051-19	620-10051-2	620-10051-20	620-10051-21	620-10051-22
Field Sample ID		2023-SB-15-0406	2023-MW-01-0608	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Benzene	mg/kg	0.0385 U	0.0553 U	0.0687 U	0.0505 U	0.053 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.193 U	0.276 U	0.343 U	0.252 U	0.265 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.193 U	0.276 U	0.343 U	0.252 U	0.265 U
C9-C10 Aromatics	mg/kg	0.193 U	0.276 U	0.343 U	0.252 U	0.265 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.193 U	0.276 U	0.343 U	0.252 U	0.265 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.193 U	0.276 U	0.343 U	0.252 U	0.265 U
Ethylbenzene	mg/kg	0.0385 U	0.0553 U	0.0687 U	0.0505 U	0.053 U
m,p-Xylene	mg/kg	0.077 U	0.111 U	0.137 U	0.101 U	0.106 U
Methyl tert-butyl ether	mg/kg	0.0385 U	0.0553 U	0.0687 U	0.0505 U	0.053 U
Naphthalene	mg/kg	0.0385 U	0.0553 U	0.0534 J	0.0505 U	0.053 U
o-Xylene	mg/kg	0.0385 U	0.0553 U	0.0687 U	0.0505 U	0.053 U
Toluene	mg/kg	0.0385 U	0.0553 U	0.0687 U	0.0505 U	0.053 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10051-23	620-10051-25	620-10051-26	620-10051-27	620-10051-28
Field Sample ID		2023-FD-03	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-16-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Benzene	mg/kg	0.101 U	0.155 U	0.0523 U	0.0505 U	0.0509 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.503 U	0.773 U	0.261 U	0.253 U	0.255 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.503 U	0.773 U	0.261 U	0.253 U	0.255 U
C9-C10 Aromatics	mg/kg	0.503 U	0.773 U	0.261 U	0.253 U	0.255 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.503 U	0.773 U	0.261 U	0.253 U	0.255 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.503 U	0.773 U	0.261 U	0.253 U	0.255 U
Ethylbenzene	mg/kg	0.101 U	0.155 U	0.0523 U	0.0505 U	0.0509 U
m,p-Xylene	mg/kg	0.201 U	0.309 U	0.105 U	0.101 U	0.102 U
Methyl tert-butyl ether	mg/kg	0.101 U	0.155 U	0.0523 U	0.0505 U	0.0509 U
Naphthalene	mg/kg	0.101 U	0.114 J	0.0523 U	0.0505 U	0.0509 U
o-Xylene	mg/kg	0.101 U	0.155 U	0.0523 U	0.0505 U	0.0509 U
Toluene	mg/kg	0.101 U	0.155 U	0.0523 U	0.0505 U	0.0509 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10051-29	620-10051-3	620-10051-30	620-10051-32	620-10051-33
Field Sample ID		2023-SB-14-0810	2023-MW-01-0810	2023-SB-14-1012	2023-SB-13-0002	2023-SB-13-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	02/27/23	03/01/23	03/01/23	03/01/23
Benzene	mg/kg	0.0568 U	0.0502 U	0.0523 U	0.0501 U	0.0533 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.284 U	0.251 U	0.261 U	0.251 U	0.267 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.284 U	0.251 U	0.261 U	0.251 U	0.267 U
C9-C10 Aromatics	mg/kg	0.284 U	0.251 U	0.261 U	0.251 U	0.267 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.284 U	0.251 U	0.261 U	0.251 U	0.267 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.284 U	0.251 U	0.261 U	0.251 U	0.267 U
Ethylbenzene	mg/kg	0.0568 U	0.0502 U	0.0523 U	0.0501 U	0.0533 U
m,p-Xylene	mg/kg	0.114 U	0.1 U	0.105 U	0.1 U	0.107 U
Methyl tert-butyl ether	mg/kg	0.0568 U	0.0502 U	0.0523 U	0.0501 U	0.0533 U
Naphthalene	mg/kg	0.0568 U	0.0502 U	0.0523 U	0.0501 U	0.0533 U
o-Xylene	mg/kg	0.0568 U	0.0502 U	0.0523 U	0.0501 U	0.0533 U
Toluene	mg/kg	0.0568 U	0.0502 U	0.0523 U	0.0501 U	0.0533 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10051-34	620-10051-35	620-10051-36	620-10051-37	620-10051-38
Field Sample ID		2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-13-0204				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23	03/01/23	03/01/23
Benzene	mg/kg	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C9-C10 Aromatics	mg/kg	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
Ethylbenzene	mg/kg	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
m,p-Xylene	mg/kg	0.111 U	0.105 U	0.109 U	0.0961 U	0.101 U
Methyl tert-butyl ether	mg/kg	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
Naphthalene	mg/kg	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
o-Xylene	mg/kg	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
Toluene	mg/kg	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10051-4	620-10051-5	620-10051-6	620-10051-7	620-10051-8
Field Sample ID		2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
Benzene	mg/kg	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.77 U	0.737 U	0.389 U	0.717 U	0.262 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.77 U	0.737 U	0.389 U	0.717 U	0.262 U
C9-C10 Aromatics	mg/kg	0.77 U	0.737 U	0.389 U	3.9	0.262 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.77 U	0.737 U	0.389 U	3.44	0.262 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.77 U	0.737 U	0.389 U	7.34	0.262 U
Ethylbenzene	mg/kg	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U
m,p-Xylene	mg/kg	0.308 U	0.295 U	0.156 U	0.287 U	0.105 U
Methyl tert-butyl ether	mg/kg	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U
Naphthalene	mg/kg	0.154 U	0.147 U	0.0778 U	1.37	0.0523 U
o-Xylene	mg/kg	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U
Toluene	mg/kg	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U

DATA SUMMARY TABLE

Analysis		VPH in Soil
Lab Sample ID		620-10051-9
Field Sample ID		2023-MW-02-0810
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	02/27/23
Benzene	mg/kg	0.0521 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.26 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.26 U
C9-C10 Aromatics	mg/kg	0.26 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.26 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.26 U
Ethylbenzene	mg/kg	0.0521 U
m,p-Xylene	mg/kg	0.104 U
Methyl tert-butyl ether	mg/kg	0.0521 U
Naphthalene	mg/kg	0.0521 U
o-Xylene	mg/kg	0.0521 U
Toluene	mg/kg	0.0521 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix		
Lab Sample ID		620-10051-24	620-10051-31	620-10051-39
Field Sample ID		Trip Blank-01	Trip Blank-02	Trip Blank-03
Sample Type		TB	TB	TB
Parent Sample ID				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23
1,1,1,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U
1,1,1-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U	0.005 U	0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.005 U	0.005 U	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U	0.005 U	0.005 U
1,1-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U
1,1-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U
1,2,3-Trichlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,2,3-Trichloropropane	mg/kg	0.005 U	0.005 U	0.005 U
1,2,4-Trichlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,2,4-Trimethylbenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,2-Dibromo-3-chloropropane	mg/kg	0.01 U	0.01 U	0.01 U
1,2-Dibromoethane	mg/kg	0.005 U	0.005 U	0.005 U
1,2-Dichlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U	0.005 U	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U
1,3,5-Trichlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,3,5-Trimethylbenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,3-Dichlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,3-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix		
Lab Sample ID		620-10051-24	620-10051-31	620-10051-39
Field Sample ID		Trip Blank-01	Trip Blank-02	Trip Blank-03
Sample Type		TB	TB	TB
Parent Sample ID				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23
1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U
1,4-Dichlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U
1,4-Dioxane	mg/kg	0.1 U	0.1 U	0.1 U
2,2-Dichloropropane	mg/kg	0.005 U	0.005 U	0.005 U
2-Butanone	mg/kg	0.01 U	0.01 U	0.01 U
2-Chlorotoluene	mg/kg	0.005 U	0.005 U	0.005 U
2-Hexanone	mg/kg	0.01 U	0.01 U	0.01 U
4-Chlorotoluene	mg/kg	0.005 U	0.005 U	0.005 U
4-Isopropyltoluene	mg/kg	0.005 U	0.005 U	0.005 U
4-Methyl-2-pentanone	mg/kg	0.01 U	0.01 U	0.01 U
Acetone	mg/kg	0.05 U	0.05 U	0.05 U
Acrylonitrile	mg/kg	0.005 U	0.005 U	0.005 U
Benzene	mg/kg	0.005 U	0.005 U	0.005 U
Bromobenzene	mg/kg	0.005 U	0.005 U	0.005 U
Bromochloromethane	mg/kg	0.005 U	0.005 U	0.005 U
Bromodichloromethane	mg/kg	0.005 U	0.005 U	0.005 U
Bromoform	mg/kg	0.005 U	0.005 U	0.005 U
Bromomethane	mg/kg	0.01 U	0.01 U	0.01 U
Carbon disulfide	mg/kg	0.01 U	0.01 U	0.01 U
Carbon tetrachloride	mg/kg	0.005 U	0.005 U	0.005 U
Chlorobenzene	mg/kg	0.005 U	0.005 U	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix		
Lab Sample ID		620-10051-24	620-10051-31	620-10051-39
Field Sample ID		Trip Blank-01	Trip Blank-02	Trip Blank-03
Sample Type		TB	TB	TB
Parent Sample ID				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23
Chloroethane	mg/kg	0.01 U	0.01 U	0.01 U
Chloroform	mg/kg	0.005 U	0.005 U	0.005 U
Chloromethane	mg/kg	0.01 U	0.01 U	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U
cis-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U
Dibromochloromethane	mg/kg	0.005 U	0.005 U	0.005 U
Dibromomethane	mg/kg	0.005 U	0.005 U	0.005 U
Dichlorodifluoromethane	mg/kg	0.01 U	0.01 U	0.01 U
Diethyl ether	mg/kg	0.005 U	0.005 U	0.005 U
Diisopropyl Ether	mg/kg	0.005 U	0.005 U	0.005 U
Ethanol	mg/kg	1 U	1 U	1 U
Ethylbenzene	mg/kg	0.005 U	0.005 U	0.005 U
Hexachlorobutadiene	mg/kg	0.01 U	0.01 U	0.01 U
Isopropylbenzene	mg/kg	0.005 U	0.005 U	0.005 U
m,p-Xylene	mg/kg	0.005 U	0.005 U	0.005 U
Methyl tert-butyl ether	mg/kg	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/kg	0.00377 J	0.00476 J	0.00771 J
Naphthalene	mg/kg	0.005 U	0.005 U	0.005 U
n-Butylbenzene	mg/kg	0.01 U	0.01 U	0.01 U
n-Propylbenzene	mg/kg	0.005 U	0.005 U	0.005 U
o-Xylene	mg/kg	0.005 U	0.005 U	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix		
Lab Sample ID		620-10051-24	620-10051-31	620-10051-39
Field Sample ID		Trip Blank-01	Trip Blank-02	Trip Blank-03
Sample Type		TB	TB	TB
Parent Sample ID				
Sample Date	**Units**	03/01/23	03/01/23	03/01/23
sec-Butylbenzene	mg/kg	0.005 U	0.005 U	0.005 U
Styrene	mg/kg	0.005 U	0.005 U	0.005 U
tert-Amyl methyl ether	mg/kg	0.005 U	0.005 U	0.005 U
tert-Butyl Alcohol	mg/kg	0.1 U	0.1 U	0.1 U
Tert-Butyl Ethyl Ether	mg/kg	0.005 U	0.005 U	0.005 U
tert-Butylbenzene	mg/kg	0.005 U	0.005 U	0.005 U
Tetrachloroethene	mg/kg	0.005 U	0.005 U	0.005 U
Tetrahydrofuran	mg/kg	0.01 U	0.01 U	0.01 U
Toluene	mg/kg	0.005 U	0.005 U	0.005 U
trans-1,2-Dichloroethene	mg/kg	0.005 U	0.005 U	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U	0.005 U	0.005 U
trans-1,4-Dichlorobutene	mg/kg	0.025 U	0.025 U	0.025 U
Trichloroethene	mg/kg	0.005 U	0.005 U	0.005 U
Trichlorofluoromethane	mg/kg	0.005 U	0.005 U	0.005 U
Vinyl chloride	mg/kg	0.005 U	0.005 U	0.005 U
Xylene (total)	mg/kg	0.015 U	0.015 U	0.015 U

Data Review Qualification Actions
American Tissue Mill
SDG 620100511

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Methylene chloride	2023-SB-15-1012	Trip blank contamination	RL (U)	
	Hexachlorobutadiene, naphthalene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene	All SB samples	MS recovery, RPD	UJ	No detected results.
	Bromomethane, chloroethane, trichlorofluoromethane, tert-butyl alcohol, ethanol	All MW soil samples	MS/MSD recovery	UJ	No detected results.
	Acetone	All MW soil samples	MS recovery, RPD	J / A	
SVOCs					
	Pentachlorophenol	2023-MW-01-0608	Laboratory blank contamination	RL (U)	
	Benzidine	620-10051-1 through 620-10051-17	LCS/LCSD recovery	R	No detected results.
	Benzidine	2023-SB-13-0002	LCS/LCSD RPD	J	
	4-Chlororaniline, aniline	All SB samples	MS/MSD recovery	UJ	No detected results.
	Benzidine	All SB samples	MS/MSD recovery (< 10%)	J / R	
	Benzoic acid	All soil samples (SB and MW)	MS/MSD recovery	J / A	
	Hexachlorocyclopentadiene	All SB samples	MS/MSD recoveries	UJ	No detected results.
	Hexachlorocyclopentadiene	All MW soil samples	MS/MSD recovery	UJ	No detected results.
	4,6-Dinitro-2-methylphenol	All MW soil samples	MSD recovery	J / UJ	
	Benzidine	All MW soil samples	MS/MSD recoveries	R	No detected results.

Data Review Qualification Actions
American Tissue Mill
SDG 620100511

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PCBs					
	Aroclors 1254, 1260	All MW soil samples	MS/MSD recoveries	J / A	
MassDEP-VPH					
	Naphthalene	2023-MW-01-0608, 2023-MW-02-0204	Laboratory blank contamination	RL (U)	
	Naphthalene	2023-MW-01-0406, 2023-MW-02-1012	Laboratory blank contamination	Result (U)	
MCP-14 Metals / Mercury					
	Qualification of the data was not required.				
PFAS					
	NMeFOSAA, NEtFOSAA	2023-MW-01-0406, 2023-MW-02-0002, 2023-MW-02-0204, 2023-MW-02-0406, 2023-MW-02-1012, 2023-SB-16-0204, 2023-SB-16-0406, 2023-SB-16-0810, 2023-SB-16-1012, 2023-SB-15-0002, 2023-SB-15-0204, 2023-SB-15-0406, 2023-FD-03, 2023-SB-14-0002, 2023-SB-14-0204, 2023-SB-14-0608, 2023-SB-13-0608, 2023-SB-13-0810, 2023-SB-13-1012	Surrogate recovery	UJ	
	NMeFOSAA	2023-MW-02-0608, 2023-SB-16-0002	Surrogate recovery (< 10%)	R	

Data Review Qualification Actions
American Tissue Mill
SDG 620100511

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	NEtFOSAA	2023-MW-02-0608, 2023-SB-16-0002	Surrogate recovery	UJ	
	NMeFOSAA, NEtFOSAA	2023-MW-02-0810, 2023-SB-13-0002, 2023-SB-13-0204, 2023-FD-04, 2023-SB-13-0406	Surrogate recovery (< 10%)	R	
	4:2 FTS, 8:2 FTS, 6:2 FTS	2023-MW-02-0204, 2023-MW-02-0810, 2023-SB-13-0002, 2023-SB-13-0204, 2023-FD-04, 2023-SB-13-0406	Surrogate recovery	UJ	
	PFHxA, PFHpA, PFOA, PFNA, PFDA, PFBA, PFPeA	2023-MW-02-0204, 2023-MW-02-0810, 2023-SB-13-0204, 2023-FD-04, 2023-SB-13-0406	Surrogate recovery	UJ	
	PFUnA, PFDoA	2023-MW-02-0204, 2023-SB-13-0204, 2023-FD-04, 2023-SB-13-0406	Surrogate recovery	UJ	
	PFTeDA	2023-MW-02-0204, 2023-FD-04, 2023-SB-13-0406	Surrogate recovery	UJ	
	HFPO-DA	2023-MW-02-0204, 2023-SB-13-0204, 2023-SB-13-0406	Surrogate recovery	UJ	
	NMePFOSA, NEtPFOSA	2023-SB-16-0002	Surrogate recovery	UJ	

MW - Monitoring Well
ND Non-Detect
SB- Soil Boring
PFPeA - Perfluoropentanoic acid
PFDoDA / PFDoA - Perfluorododecanoic acid
NEtPFOSA - N-ethylperfluoro-1-octanesulfonamide
NMePFOSA - N-methylperfluoro-1-octanesulfonamide

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 03/28/2023
Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins New England, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (Metals and PFAS); Eurofins Northeast, Amherst, NY (MassDEP-VPH)
SDG: 620100511
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Thirty-six (36) soil samples were listed on the COC for SDG 620100511, including two field duplicate samples. Three trip blank samples were also included on the COC. The samples were collected on 02/27/2023 and 03/01/2023 and received at the Eurofins New England laboratory on 03/01/2023 at 1.2 °C. Samples for MassDEP-VPH analysis were subsequently shipped to Eurofins Northeast Laboratory and samples for MCP-14 metals/mercury and PFAS analyses were shipped to Eurofins Lancaster Laboratory for analysis. Samples were received at Eurofins Northeast on 03/02/2023 at 2.1 °C. Samples were received at Eurofins Lancaster Laboratory on 03/02/2023 at 2.1 and 2.3 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-01-0406	620-10051-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-01-0608	620-10051-2	
2023-MW-01-0810	620-10051-3	
2023-MW-01-1012	620-10051-4	
2023-MW-02-0002	620-10051-5	
2023-MW-02-0204	620-10051-6	
2023-MW-02-0406	620-10051-7	
2023-MW-02-0608	620-10051-8	
2023-MW-02-0810	620-10051-9	
2023-MW-02-1012	620-10051-10	
2023-SB-16-0002	620-10051-11	
2023-SB-16-0204	620-10051-12	
2023-SB-16-0406	620-10051-13	
2023-SB-16-0608	620-10051-14	
2023-SB-16-0810	620-10051-15	
2023-SB-16-1012	620-10051-16	
2023-SB-15-0002	620-10051-17	
2023-SB-15-0204	620-10051-18	

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2023-SB-15-0406	620-10051-19	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-SB-15-0608	620-10051-20	
2023-SB-15-0810	620-10051-21	
2023-SB-15-1012	620-10051-22	
2023-FD-03	620-10051-23	
2023-SB-14-0002	620-10051-25	
2023-SB-14-0204	620-10051-26	
2023-SB-14-0406	620-10051-27	
2023-SB-14-0608	620-10051-28	
2023-SB-14-0810	620-10051-29	
2023-SB-14-1012	620-10051-30	
2023-SB-13-0002	620-10051-32	
2023-SB-13-0204	620-10051-33	
2023-FD-04	620-10051-34	
2023-SB-13-0406	620-10051-35	
2023-SB-13-0608	620-10051-36	
2023-SB-13-0810	620-10051-37	
2023-SB-13-1012	620-10051-38	
Trip Blank-01	620-10051-24	VOCs
Trip Blank-02	620-10051-31	
Trip Blank-03	620-10051-39	

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (soil) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for several additional VOCs were also reported by the laboratory. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1'-biphenyl. Based on the QAPPA (February 2023), 1,1'-biphenyl is not a compound of concern for the site. Results for several additional SVOCs were also reported by the laboratory. No actions are required.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory. Results for MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

MassDEP-VPH: Results for all VPH parameters specified on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which does not include these analytes.

PFAS: Results for all PFAS compounds on Table 2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for Hg; within 180 days for all other analytes) were met.

PFAS: Samples were extracted within the QAPP-specified holding time of 28 days from collection. Samples were analyzed within 40 days of extraction. No actions are taken.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Laboratory and Field Blanks

VOCs: Acetone was detected in VOC laboratory method blank MB 620-20327/3-A at < reporting limit (RL). This laboratory blank was associated with QC samples only; therefore, no blank actions are required.

Three trip blank samples are associated with the soil samples of this SDG (Trip Blank-01, Trip Blank-02, and Trip Blank-03, all collected on 03/01/2023). Methylene chloride was detected in all three trip blanks at concentrations < RLs. The maximum detected concentration (0.00771 mg/kg) was detected in Trip Blank-03. Results for methylene chloride were non-detect in all soil samples except 2023-SB-15-1012 (620-10051-22), where methylene chloride was detected at a concentration < RL. Based on the National Functional Guidelines (NFGs, 2020), the detected result for methylene chloride in sample 2023-SB-15-1012 (620-10051-22) was qualified as non-detect at the RL (RL [U]) due to trip blank contamination.

SVOCs: Results for laboratory blanks were all non-detect except for laboratory blank MB 620-20241/1-A, where pentachlorophenol was detected at a concentration < RL. This blank is associated with samples 620-10051-1 through -17. Results for pentachlorophenol were non-detect in all associated soil samples except 2023-MW-01-0608 (620-10051-2) at a concentration < RL (0.203 mg/kg). Based on the NFGs (2020), the detected result for pentachlorophenol in

sample (2023-MW-01-0608) 620-10051-2 was qualified as non-detect at the RL (RL [U]) due to laboratory blank contamination.

PCBs: Results for all PCB laboratory method blanks were non-detect. No blank actions are required.

MassDEP-VPH: Naphthalene was detected in laboratory blank MB 480-660379/1-A at < RL (0.03935 mg/kg). This laboratory blank is associated with samples 620-10051-1 through -16, 620-10051-18, and 620-10051-19. Naphthalene was detected at concentrations < RL in associated samples 620-10051-2 and 620-10051-6 at < RL. Based on the NFGs (2020) for VOC analysis, the detected naphthalene results in samples 620-10051-2 and 620-10051-6 are qualified as non-detect at the RL (RL [U]). Naphthalene was also detected in associated samples 620-1500-1 and 620-10051-10 at > RL and > the blank concentration. Based on the NFGs (2020) for the VOC analysis, professional judgement was used to qualify the detected results for naphthalene in samples 620-1500-1 and 620-10051-10 as non-detect at the concentration detected (U). The naphthalene detection in associated sample 620-10051-7 was > 10x the blank level; therefore, the naphthalene concentration in the method blank is considered to have an insignificant impact on the associated sample concentration; no action is taken for this sample.

MCP-14 Metals/Mercury: Results for all metals laboratory method blanks were non-detect. No blank actions are required.

Results for mercury were non-detect in the laboratory method blanks. No blank actions are required.

PFAS: Results for PFAS were non-detect in all laboratory method blanks. No blank actions are required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

SVOC: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-130% for soil. No actions are required.

PCBs: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-150% on both analytical columns except for the recoveries in sample 2023-SB-13-0002 (620-10051-32. Surrogates were diluted out of the sample due to a 20x dilution factor required to report Aroclor 1254. No actions are required.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.

PFAS: Percent recoveries of several surrogates were below the Program QAPP limits of 50-150% in several samples. Results for all PFAS compounds were non-detect in all soil samples. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), associated PFAS compound results were qualified as estimated (UJ) in the affected samples. For samples with surrogate recoveries < 10%, results for the associated compounds were rejected (R) in the affected samples. Refer to the Data Review Qualification Actions Table for details.

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover. All percent LCS/LCSD recoveries meet the Program QAPP recovery limits except for dichlorodifluoromethane in the analysis of LCS/LCSD pair 620-20238/1-A and 2-A, where the recoveries were 65% and 69%, respectively. The MCP CAM identifies dichlorodifluoromethane as “potentially difficult”; therefore, the recovery limits of 40-160% apply for this compound and the recovery meets the expanded limits. No actions are required.

SVOCs: The percent recoveries of benzidine in LCS/LCSD pair 620-20241/2-A and 3-A were below the Program QAPP and MCP CAM limits of 40-140% for base/neutral compounds (22% and 21%, respectively). Benzidine is not an MCP CAM compound identified as “potentially difficult”. RPDs met the QAPP limit of ≤ 30%. This LCS/LCSD pair is associated with samples 620-10051-1 through 620-10051-17. Results for benzidine are non-detect in all associated samples. Based on the NFGs (2020), the non-detect results for benzidine are rejected (R) in soil samples 620-10051-1 through 620-10051-17 due to the low recoveries in the associated LCS/LCSD pair. Project objectives may be impacted.

Percent recoveries in the LCS/LCSD pair 620-20399/2-A and 3-A met the Program QAPP recovery and RPD limits except for the RPD for benzidine, which exceeded the QAPP limit of ≤ 30% (40%). This LCS/LCSD pair is associated with samples 620-10051-18 through -23, 620-10051-25 through – 30, 620-10051-32 through -38. Benzidine results were non-detect in all associated soil samples except for sample 620-10051-32 (2023-SB-13-0002), where benzidine was detected above the RL. Professional judgement based on the NFGs (2020) for the SVOC MS/MSD RPD actions (in the absence of LCS/LCSD RPD action guidance) was used to qualify the detected benzidine result in sample 620-10051-32 as estimated (J) and accept the non-detect results in the associated samples. Note that non-detect benzidine results in these samples were subsequently rejected (R) due to MS/MSD recoveries, as discussed below.

PCBs: Percent recoveries of Aroclors 1016 and 1260 met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30% in all LCS/LCSD pairs. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pair 480-660379/2-A and 3-A and 480-660381/2-A and 3-A meet the Program QAPP recovery limits of 70-130%. All RPDs meet the Program QAPP RPD limit of ≤ 25%. No action is required.

MCP-14 Metals/Mercury: Percent recoveries for all metals and mercury LCS analyses were within the limits of 80-120%. The Program QAPP and MCP CAM recovery limits for soil are within

vendor 95% confidence limits. Vendor limits were not presented in the laboratory report; the laboratory used 80-120% as recovery limits based on MassDEP CAM Method 6010D for aqueous samples. Professional judgement was used to accept sample results for metals and mercury unqualified for LCS performance since recoveries were all within 80-120% limits.

PFAS: Percent recoveries for all PFAS LCS analyses met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS results. An LCSD was not analyzed for the PFAS analysis since MSD and/or laboratory duplicate analyses were provided in the laboratory report. Per the Program QAPP, an LCSD for the PFAS analysis is only required if MSD analyses are not provided. No actions are required.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix unless otherwise indicated.

Based on professional judgement, qualifications were applied to soil boring (SB) and monitoring well (MW) samples separately since MS/MSD analyses were performed for each sample type.

VOCs: MS/MSD analyses were performed on sample 2023-SB-15-0002 (620-10051-17). Percent recoveries for hexachlorobutadiene, naphthalene, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene were less than the Program QAPP limits of 70-130% but greater than 20% in the MS analysis. Results for these compounds were non-detect in all soil boring (SB) samples. Based on the NFGs (2020), non-detect results for hexachlorobutadiene, naphthalene, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene were qualified as estimated (UJ) in all SB samples.

The RPD for the recoveries of 2-butanone exceeded the Program QAPP limit of ≤ 30% (35%). 2-Butanone was not detected in the SB samples. Based on the NFGs (2020), non-detect results for 2-butanone are accepted unqualified.

Percent recoveries for chlorobenzene, chloroethane, 1,1-dichloroethene, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, and m/p-xylene exceeded the limits of 70-130% in the MSD analysis. Results for these compounds are non-detect in all SB samples. Based on the NFGs (2020), the non-detects for these compounds are accepted unqualified since the potential bias is high.

MS/MSD analyses were also performed on sample 2023-MW-01-0406 (620-10051-1). Recoveries for bromomethane, chloroethane, trichlorofluoromethane, tert-butyl alcohol, and ethanol were < 70-130% but > 20% in the MS and/or MSD analyses. Results for these compounds were non-detect in all monitoring well (MW) soil samples. Based on the NFGs (2020), non-detects for bromomethane, chloroethane, trichlorofluoromethane, tert-butyl alcohol, and ethanol were qualified as estimated (UJ) in all MW soil samples due to the low recoveries. The RPD for the trichlorofluoromethane recoveries exceeded 30% (31%). Results for trichlorofluoromethane were non-detect in all MW soil samples; therefore, based on the NFGs (2020), no action is required.

The MS recovery for acetone exceeded the 70-130% limits (132%) and the RPD for the MS/MSD recoveries exceeded 30% (35%). Detected results for acetone are qualified as estimated (J) and non-detect results are accepted unqualified in all MW soil samples since the potential bias is high.

SVOCs: MS/MSD analyses were performed on sample 2023-SB-15-0002 (620-10051-17). Percent recoveries for 4-chloroaniline and aniline were below the Program QAPP limits of 40-140% for base/neutral compounds but > 10% in both the MS and MSD analyses. Results for these compounds were non-detect in all SB samples. Based on the NFGs (2020), the non-detect results for 4-chloroailine and aniline are qualified as estimated (UJ) in all SB samples due to the low recoveries in the MS/MSD analyses.

Recoveries of benzidine were < 10% in the MS and MSD analyses (0%). Based on the NFGs (2020), detected results are qualified as estimated (J) and non-detect results are rejected (R) in all SB samples due to recoveries < 10%. Recoveries for benzoic acid exceeded the Program QAPP limits of 30-130% for acid compounds in the MS and MSD analyses (162% and 181%, respectively). Detected results for benzoic acid are qualified as estimated (J) and non-detect results are accepted unqualified in all SB samples, based on the NFGs (2020) since the potential bias is high.

Recoveries for hexachlorocyclopentadiene were below the 40-140% Program QAPP limits for base/neutral compounds (22% in both the MS and MSD). Results for hexachlorocyclopentadiene were non-detect in the SB samples. Therefore, the non-detect results for hexachlorocyclopentadiene were qualified as estimated (UJ) in all SB samples due to the low recovery.

MS/MSD analyses were also performed on sample 2023-MW-01-0406 (620-10051-1). Recoveries of 2,4-dinitrophenol and benzoic acid exceeded the Program QAPP limits of 30-130% for acid compounds (191% and 254%, respectively). 2,4-Dinitrophenol was not detected in the MW soil samples. The non-detect results for 2,4-dinitrophenol are accepted unqualified in all MW soil samples since the potential bias is high. Based on the NFGs (2020), detected results for benzoic acid are qualified as estimated (J) in all MW soil samples. Non-detect results for benzoic acid are accepted unqualified in all MW soil samples since the potential bias is high.

The recovery of 4,6-dinitro-2-methylphenol was below the Program QAPP limits of 30-130% for acid compounds in the MSD analysis (25%). Based on the NFGs (2020), detected and non-detect results are qualified as estimated (J/UJ) in all MW soil samples due to the low recovery.

Benzidine recoveries were 0% in both the MS and MSD analyses. Results for benzidine were non-detect in all MW soil samples. Based on the NFGs (2020), the non-detect results for benzidine are rejected (R) in all MW soil samples due to percent recoveries < 10%.

Recoveries for hexachlorocyclopentadiene were below the 40-140% Program QAPP limits for base/neutral compounds (13% and 8%, respectively). Hexachlorocyclopentadiene results were non-detect in all MW soil samples. Based on the NFGs (2020), the non-detect results for hexachlorocyclopentadiene are qualified as estimated (UJ) in all MW soil samples since the MS recovery was > 10%. The RPD exceeded the Program QAPP limit of ≤ 30% (46%). No action is required since all results were non-detect and already rejected.

PCBs: Only Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, actions were applied to associated Aroclors:

If only 1016/1260 spiked into the MS/MSD, apply actions to the following Aroclors:
If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on sample 2023-MW-01-0406 (620-10051-1). Recoveries for Aroclor 1260 exceeded the Program QAPP limits of 40-140% (162% and 182%, respectively). Detected results for Aroclors 1248, 1254, 1260, 1262, and 1268 are qualified as estimated (J) and non-detect results for these Aroclors are accepted unqualified in all MW soil samples since the potential bias is high. Note that all MW soil sample results were non-detect for Aroclors 1248, 1262, and 1268.

MS/MSD analyses were also performed on sample 2023-SB-15-0002 (620-10051-17). Percent recoveries of Aroclors 1016 and 1260 were within the Program QAPP limits of 40-140% and the RPDs met the Program QAPP limit of ≤ 30%. No actions are required.

MassDEP-VPH: MS/MSD analyses were performed on sample 2023-MW-01-0406 (620-10051-1) and 2023-SB-15-0002 (620-10051-17). Recoveries and RPDs met the Program QAPP limits of 70-130% recovery and ≤ 50% RPD. No actions are required.

MS/MSD analyses were also performed on sample 2023-SB-15-0002 (620-10051-17). Recoveries met the Program QAPP limits of 70-130% recovery and no actions are required. The RPDs reported by the laboratory all exceeded the Program QAPP limit of ≤ 25% due primarily to the different spiking levels used for the MS and MSD samples. Therefore, precision could not be evaluated meaningfully based on the concentrations recovered. Professional judgement was used to evaluate precision by comparing the percent recoveries between the MS and MSD analyses. Percent recoveries between the MS and MSD analyses were similar and precision is deemed acceptable. No actions are taken.

MCP-14 Metals/Mercury: MS/MSD analyses for MCP-14 metals was performed on samples 2023-MW-01-0406 (620-10051-1) and 2023-SB-15-0002 (620-10051-17). Percent recoveries and RPDs met the Program QAPP limits of 75-125% recovery and RPD ≤ 35%. No actions are required.

MS/MSD analyses for mercury were also performed on samples 2023-MW-01-0406 (620-10051-1) and 2023-SB-15-0002 (620-10051-17). Percent recoveries and RPDs met the Program QAPP limits of 75-125% recovery and RPD ≤ 35%. No actions are required.

PFAS: MS/MSD analyses were performed on samples 2023-MW-01-0406 (620-10051-1) and 2023-SB-15-0002 (620-10051-17). Percent recoveries and RPDs for all PFAS compounds met the laboratory-established limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include MS/MSD recovery limits for PFAS. Therefore, the laboratory-established recovery and RPD limits were used to evaluate the MS/MSD results. No actions are required.

8. Laboratory Duplicates (metals only)

MCP-14 Metals/Mercury: Laboratory duplicate analyses were performed on samples 2023-MW-01-0406 (620-10051-1) and 2023-SB-15-0002 (620-10051-17).

Program QAPP laboratory duplicate criteria (≤ 35% RPD) were met for all analytes for the duplicate analyses performed on samples 2023-MW-01-0406 and 2023-SB-15-0002. No actions are required.

Laboratory duplicate analyses for mercury were also performed on samples 2023-MW-01-0406 (620-10051-1) and 2023-SB-15-0002 (620-10051-17). Program QAPP laboratory duplicate

criteria (≤ 35% RPD) were met for mercury in the duplicate analyses for both samples. No actions are required.

Note that Table 2-12-2 of the Program QAPP lists a laboratory duplicate as a QC sample for the PFAS analysis with no associated QC limit. A laboratory duplicate analysis was not reported by the laboratory for the PFAS analysis. The EPA Data Review and Validation Guidelines for PFAS Analyzed using EPA Method 537 (2018) does not include discussion of laboratory duplicate analyses. No actions are taken.

9. Serial Dilution (metals only)

MCP-14 Metals/Mercury: A serial dilution analysis was not performed for this SDG. The Massachusetts CAM requires a serial dilution analysis on samples used for MS/MSD analyses where analytes are detected at > 50x RL. MS/MSD analyses were performed on samples 2023-MW-01-0406 (620-10051-1) and 2023-SB-15-0002 (620-10051-17). Detected analyte results were < 50x RL for both samples. No actions are required. Note there are no serial dilution criteria included in the Program QAPP.

10. Field Duplicate Precision

Field duplicate pairs 2023-SB-16-0204 (620-10051-12) / 2023-FD-03 (620-10051-23) and 2023-SB-13-0204 (620-10051-33) / 2023-FD-04 (620-10051-34) are associated with the soil samples of this SDG. Acceptable field duplicate precision is an RPD of ≤ 50% for results > 5x RL and an absolute difference < 4x RL for results < 5x RL, based on the Region 1 Supplement (2020).

Based on the Region 1 Supplement (2020), qualifications are applied to all field samples with similar matrix unless otherwise indicated.

Field duplicate precision criteria were met for the VOC, SVOC, PCB, MassDEP VPH, MCP-14 Metals/Mercury, and PFAS analyses for both field duplicate pairs. No actions are required.

11. Internal Standards

Not assessed for S2AVM data review.

12. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections. No action is taken.

13. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

14. Reporting Limits

RLs for non-detect results for SVOCs, PCBs, and MassDEP-VPH analyses met the Project Action Levels (PALs) for the site.

RLs for non-detect VOC results meet PALs except for 1,1,2,2-tetrachloroethane and dibromochloromethane in the samples analyzed from the methanol-preserved vials (medium level) due to holding time exceedances of the low level (unpreserved) vials. Samples 620-10051-1 through 620-10051-10 were analyzed using the medium-level preserved vials.

RLs for non-detect MCP-14 metals/merury results met the PALs for the site except for the thallium RLs in samples 2023-SB-13-1012 (620-10051-38), 2023-SB-16-0810 (620-10051-15), and 2023-SB-16-1012 (620-10051-16), where the PAL of 8 mg/kg was exceeded (25.7 mg/kg, 31.7 mg/kg, and 27.4 mg/kg, respectively). The thallium results are based on a 10x sample dilution required for these samples. No action is required.

Note there are no PALs associated with the PFAS analysis.

15. Other

EPA Region 1 Supplement (2020) criterion for percent solids content (> 30%) was met for all soil samples. No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620100511 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-16-0204**		**2023-FD-03**				
	620-10051-12		**620-10051-23**				
1,1,1,2-Tetrachloroethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,1,1-Trichloroethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,1,2,2-Tetrachloroethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,1,2-Trichloroethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,1-Dichloroethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,1-Dichloroethene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,1-Dichloropropene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2,3-Trichlorobenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2,3-Trichloropropane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2,4-Trichlorobenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2,4-Trimethylbenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2-Dibromo-3-chloropropane	0.0114	U	0.0117	U	2.60		Ok - both ND
1,2-Dibromoethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2-Dichlorobenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2-Dichloroethane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,2-Dichloropropane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,3,5-Trichlorobenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,3,5-Trimethylbenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,3-Dichlorobenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,3-Dichloropropane	0.00569	U	0.00587	U	3.11		Ok - both ND
1,3-Dichloropropene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,4-Dichlorobenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
1,4-Dioxane	0.114	U	0.117	U	2.60		Ok - both ND
2,2-Dichloropropane	0.00569	U	0.00587	U	3.11		Ok - both ND
2-Butanone	0.0114	U	0.0117	U	2.60		Ok - both ND
2-Chlorotoluene	0.00569	U	0.00587	U	3.11		Ok - both ND
2-Hexanone	0.0114	U	0.0117	U	2.60		Ok - both ND
4-Chlorotoluene	0.00569	U	0.00587	U	3.11		Ok - both ND
4-Isopropyltoluene	0.00569	U	0.00587	U	3.11		Ok - both ND
4-Methyl-2-pentanone	0.0114	U	0.0117	U	2.60		Ok - both ND
Acetone	0.0569	U	0.0587	U	3.11		Ok - both ND
Acrylonitrile	0.0569	U	0.0587	U	3.11		Ok - both ND
Benzene	0.0569	U	0.0587	U	3.11		Ok - both ND
Bromobenzene	0.0569	U	0.0587	U	3.11		Ok - both ND
Bromochloromethane	0.0569	U	0.0587	U	3.11		Ok - both ND
Bromodichloromethane	0.0569	U	0.0587	U	3.11		Ok - both ND
Bromoform	0.0569	U	0.0587	U	3.11		Ok - both ND
Bromomethane	0.0114	U	0.0117	U	2.60		Ok - both ND
Carbon disulfide	0.0114	U	0.0117	U	2.60		Ok - both ND
Carbon tetrachloride	0.00569	U	0.00587	U	3.11		Ok - both ND
Chlorobenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
Chloroethane	0.0114	U	0.0117	U	2.60		Ok - both ND
Chloroform	0.00569	U	0.00587	U	3.11		Ok - both ND
Chloromethane	0.0114	U	0.0117	U	2.60		Ok - both ND
cis-1,2-Dichloroethene	0.00569	U	0.00587	U	3.11		Ok - both ND
cis-1,3-Dichloropropene	0.00569	U	0.00587	U	3.11		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Dibromochloromethane	0.00569	U	0.00587	U	3.11		Ok - both ND
Dibromomethane	0.00569	U	0.00587	U	3.11		Ok - both ND
Dichlorodifluoromethane	0.0114	U	0.0117	U	2.60		Ok - both ND
Diethyl ether	0.00569	U	0.00587	U	3.11		Ok - both ND
Diisopropyl Ether	0.00569	U	0.00587	U	3.11		Ok - both ND
Ethanol	1.14	U	1.17	U	2.60		Ok - both ND
Ethylbenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
Hexachlorobutadiene	0.0114	U	0.0117	U	2.60		Ok - both ND
Isopropylbenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
m,p-Xylene	0.00569	U	0.00587	U	3.11		Ok - both ND
Methyl tert-butyl ether	0.00569	U	0.00587	U	3.11		Ok - both ND
Methylene chloride	0.0114	U	0.0117	U	2.60		Ok - both ND
Naphthalene	0.00569	U	0.00587	U	3.11		Ok - both ND
n-Butylbenzene	0.0114	U	0.0117	U	2.60		Ok - both ND
n-Propylbenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
o-Xylene	0.00569	U	0.00587	U	3.11		Ok - both ND
sec-Butylbenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
Styrene	0.00569	U	0.00587	U	3.11		Ok - both ND
tert-Amyl methyl ether	0.00569	U	0.00587	U	3.11		Ok - both ND
tert-Butyl Alcohol	0.114	U	0.117	U	2.60		Ok - both ND
Tert-Butyl Ethyl Ether	0.00569	U	0.00587	U	3.11		Ok - both ND
tert-Butylbenzene	0.00569	U	0.00587	U	3.11		Ok - both ND
Tetrachloroethene	0.00569	U	0.00587	U	3.11		Ok - both ND
Tetrahydrofuran	0.0114	U	0.0117	U	2.60		Ok - both ND
Toluene	0.00569	U	0.00587	U	3.11		Ok - both ND
trans-1,2-Dichloroethene	0.00569	U	0.00587	U	3.11		Ok - both ND
trans-1,3-Dichloropropene	0.00569	U	0.00587	U	3.11		Ok - both ND
trans-1,4-Dichlorobutene	0.0285	U	0.0293	U	2.77		Ok - both ND
Trichloroethene	0.00569	U	0.00587	U	3.11		Ok - both ND
Trichlorofluoromethane	0.00569	U	0.00587	U	3.11		Ok - both ND
Vinyl chloride	0.00569	U	0.00587	U	3.11		Ok - both ND
Xylene (total)	0.0171	U	0.0176	U	2.88		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-16-0204**		**2023-FD-03**				
	620-10051-12		**620-10051-23**				
1,2,4,5-Tetrachlorobenzene	0.359	U	0.362	U	0.83		Ok - both ND
1,2,4-Trichlorobenzene	0.359	U	0.362	U	0.83		Ok - both ND
1,2-Dichlorobenzene	0.359	U	0.362	U	0.83		Ok - both ND
1,3-Dichlorobenzene	0.359	U	0.362	U	0.83		Ok - both ND
1,4-Dichlorobenzene	0.359	U	0.362	U	0.83		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.182	U	0.183	U	0.55		Ok - both ND
2,4,5-Trichlorophenol	0.359	U	0.362	U	0.83		Ok - both ND
2,4,6-Trichlorophenol	0.182	U	0.183	U	0.55		Ok - both ND
2,4-Dichlorophenol	0.182	U	0.183	U	0.55		Ok - both ND
2,4-Dimethylphenol	0.359	U	0.362	U	0.83		Ok - both ND
2,4-Dinitrophenol	0.359	U	0.362	U	0.83		Ok - both ND
2,4-Dinitrotoluene	0.182	U	0.183	U	0.55		Ok - both ND
2,6-Dinitrotoluene	0.182	U	0.183	U	0.55		Ok - both ND
2-Chloronaphthalene	0.359	U	0.362	U	0.83		Ok - both ND
2-Chlorophenol	0.182	U	0.183	U	0.55		Ok - both ND
2-Methylnaphthalene	0.0726	U	0.0732	U	0.82		Ok - both ND
2-Methylphenol	0.359	U	0.362	U	0.83		Ok - both ND
2-Nitroaniline	0.359	U	0.362	U	0.83		Ok - both ND
2-Nitrophenol	0.182	U	0.183	U	0.55		Ok - both ND
3 & 4 Methylphenol	0.359	U	0.362	U	0.83		Ok - both ND
3,3'-Dichlorobenzidine	0.359	U	0.362	U	0.83		Ok - both ND
3-Nitroaniline	0.359	U	0.362	U	0.83		Ok - both ND
4,6-Dinitro-2-methylphenol	0.359	U	0.362	U	0.83		Ok - both ND
4-Bromophenyl-phenylether	0.359	U	0.362	U	0.83		Ok - both ND
4-Chloro-3-methylphenol	0.359	U	0.362	U	0.83		Ok - both ND
4-Chloroaniline	0.182	U	0.183	U	0.55		Ok - both ND
4-Chlorophenyl-phenylether	0.359	U	0.362	U	0.83		Ok - both ND
4-Nitroaniline	0.182	U	0.183	U	0.55		Ok - both ND
4-Nitrophenol	0.359	U	0.362	U	0.83		Ok - both ND
Acenaphthene	0.0726	U	0.0732	U	0.82		Ok - both ND
Acenaphthylene	0.0726	U	0.0732	U	0.82		Ok - both ND
Acetophenone	0.182	U	0.183	U	0.55		Ok - both ND
Aniline	0.359	U	0.362	U	0.83		Ok - both ND
Anthracene	0.0726	U	0.0732	U	0.82		Ok - both ND
Azobenzene	0.359	U	0.362	U	0.83		Ok - both ND
Benzidine	0.718	U	0.724	U	0.83		Ok - both ND
Benzo(a)anthracene	0.0726	U	0.0732	U	0.82		Ok - both ND
Benzo(a)pyrene	0.0726	U	0.0732	U	0.82		Ok - both ND
Benzo(b)fluoranthene	0.0726	U	0.0732	U	0.82		Ok - both ND
Benzo(g,h,i)perylene	0.0726	U	0.0732	U	0.82		Ok - both ND
Benzo(k)fluoranthene	0.0726	U	0.0732	U	0.82		Ok - both ND
Benzoic Acid	0.359	U	0.362	U	0.83		Ok - both ND
Benzyl Alcohol	0.359	U	0.362	U	0.83		Ok - both ND
Bis(2-chloroethoxy)methane	0.359	U	0.362	U	0.83		Ok - both ND
Bis(2-chloroethyl)ether	0.182	U	0.183	U	0.55		Ok - both ND
Bis(2-chloroisopropyl)ether	0.182	U	0.183	U	0.55		Ok - both ND
Bis(2-ethylhexyl)phthalate	0.332		0.405		19.81	0.07	Ok - abs diff < 4x RL
Butylbenzylphthalate	0.359	U	0.362	U	0.83		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Carbazole	0.182	U	0.183	U	0.55		Ok - both ND
Chrysene	0.0726	U	0.0732	U	0.82		Ok - both ND
Dibenz(a,h)anthracene	0.0726	U	0.0732	U	0.82		Ok - both ND
Dibenzofuran	0.182	U	0.183	U	0.55		Ok - both ND
Diethylphthalate	0.359	U	0.362	U	0.83		Ok - both ND
Dimethylphthalate	0.359	U	0.362	U	0.83		Ok - both ND
Di-N-Butylphthalate	0.359	U	0.362	U	0.83		Ok - both ND
Di-N-Octyl Phthalate	0.359	U	0.362	U	0.83		Ok - both ND
Fluoranthene	0.0726	U	0.0732	U	0.82		Ok - both ND
Fluorene	0.0726	U	0.0732	U	0.82		Ok - both ND
Hexachlorobenzene	0.182	U	0.183	U	0.55		Ok - both ND
Hexachlorobutadiene	0.182	U	0.183	U	0.55		Ok - both ND
Hexachlorocyclopentadiene	0.182	U	0.183	U	0.55		Ok - both ND
Hexachloroethane	0.182	U	0.183	U	0.55		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.0726	U	0.0732	U	0.82		Ok - both ND
Isophorone	0.182	U	0.183	U	0.55		Ok - both ND
Naphthalene	0.0726	U	0.0732	U	0.82		Ok - both ND
Naphthalene, 1-methyl-	0.0726	U	0.0732	U	0.82		Ok - both ND
Nitrobenzene	0.182	U	0.183	U	0.55		Ok - both ND
N-Nitrosodimethylamine (NDMA)	0.182	U	0.183	U	0.55		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.182	U	0.183	U	0.55		Ok - both ND
N-Nitrosodiphenylamine	0.359	U	0.362	U	0.83		Ok - both ND
Pentachloronitrobenzene	0.359	U	0.362	U	0.83		Ok - both ND
Pentachlorophenol	0.359	U	0.362	U	0.83		Ok - both ND
Phenanthrene	0.0726	U	0.0732	U	0.82		Ok - both ND
Phenol	0.359	U	0.362	U	0.83		Ok - both ND
Pyrene	0.0726	U	0.0732	U	0.82		Ok - both ND
Pyridine	0.359	U	0.362	U	0.83		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-16-0204**		**2023-FD-03**				
	620-10051-12		**620-10051-23**				
Aroclor 1016	0.022	U	0.0216	U	-1.83		Ok - both ND
Aroclor 1221	0.022	U	0.0216	U	-1.83		Ok - both ND
Aroclor 1232	0.022	U	0.0216	U	-1.83		Ok - both ND
Aroclor 1242	0.022	U	0.0216	U	-1.83		Ok - both ND
Aroclor 1248	0.022	U	0.0216	U	-1.83		Ok - both ND
Aroclor 1254	0.0363		0.0332		-8.92	-0.003	Ok - abs diff < 4x RL
Aroclor 1260	0.022	U	0.0216	U	-1.83		Ok - both ND
Aroclor 1262	0.022	U	0.0216	U	-1.83		Ok - both ND
Aroclor 1268	0.022	U	0.0216	U	-1.83		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-16-0204**		**2023-FD-03**				
	620-10051-12		**620-10051-23**				
Benzene	0.101	U	0.0551	U	-58.81		Ok - both ND
C5-C8 Aliphatics (adjusted)	0.503	U	0.276	U	-58.28		Ok - both ND
C5-C8 Aliphatics (unadjusted)	0.503	U	0.276	U	-58.28		Ok - both ND
C9-C10 Aromatics	0.503	U	0.276	U	-58.28		Ok - both ND
C9-C12 Aliphatics (adjusted)	0.503	U	0.276	U	-58.28		Ok - both ND
C9-C12 Aliphatics (unadjusted)	0.503	U	0.276	U	-58.28		Ok - both ND
Ethylbenzene	0.101	U	0.0551	U	-58.81		Ok - both ND
m,p-Xylene	0.201	U	0.11	U	-58.52		Ok - both ND
Methyl tert-butyl ether	0.101	U	0.0551	U	-58.81		Ok - both ND
Naphthalene	0.101	U	0.0551	U	-58.81		Ok - both ND
o-Xylene	0.101	U	0.0551	U	-58.81		Ok - both ND
Toluene	0.101	U	0.0551	U	-58.81		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-16-0204**		**2023-FD-03**				
	620-10051-12		**620-10051-23**				
Antimony	5	U	8.99	U	57.04		Ok - both ND
Arsenic	3.47		3.93	J	12.43	0.46	Ok - abs diff < 4x RL
Barium	16.2		17		4.82		Ok - RPD < 50%
Beryllium	0.261	J	0.299	J	13.57		Ok - both < RL
Cadmium	0.5	U	0.899	U	57.04		Ok - both ND
Chromium	5.23		5.2		-0.58	-0.03	Ok - abs diff < 4x RL
Copper	20	U	3.59	U	-139.13		Ok - both ND
Lead	2.75		2.77		0.72	0.02	Ok - abs diff < 4x RL
Mercury	0.0624	U	0.0658	U	5.30		Ok - both ND
Nickel	2.13		2.53		17.17	0.40	Ok - abs diff < 4x RL
Selenium	5	U	8.99	U	57.04		Ok - both ND
Silver	1	U	1.8	U	57.14		Ok - both ND
Thallium	3	U	5.39	U	56.97		Ok - both ND
Vanadium	7.78		7.87		1.15	0.09	Ok - abs diff < 4x RL
Zinc	9.24		9.79		5.78	0.55	Ok - abs diff < 4x RL

Field Duplicate Evaluation

SDG: 620100511 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-16-0204**		**2023-FD-03**				
	620-10051-12		**620-10051-23**				
10:2 FTS	2.16	U	2.23	U	3.19		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.647	U	0.669	U	3.34		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.16	U	2.23	U	3.19		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.16	U	2.23	U	3.19		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.23	U	3.34	U	3.35		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.16	U	2.23	U	3.19		Ok - both ND
6:2 Fluorotelomer sulfonate	2.16	U	2.23	U	3.19		Ok - both ND
8:2 Fluorotelomer sulfonate	3.23	U	3.34	U	3.35		Ok - both ND
9Cl-PF3ONS	2.16	U	2.23	U	3.19		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.16	U	2.23	U	3.19		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.16	U	2.23	U	3.19		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	2.16	U	2.23	U	3.19		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.16	U	2.23	U	3.19		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.16	U	2.23	U	3.19		Ok - both ND
Perfluorobutanesulfonic acid (PFBS)	2.16	U	2.23	U	3.19		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.16	U	2.23	U	3.19		Ok - both ND
Perfluorodecane Sulfonate	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.16	U	2.23	U	3.19		Ok - both ND
Perfluorododecanoic Acid (PFDoA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluoroheptane sulfonate	0.647	U	0.669	U	3.34		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorohexadecanoic acid	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorohexanesulfonic acid (PFHxS)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorononanesulfonic acid	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorononanoic acid (PFNA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluoro-n-tridecanoic acid (PFTrDA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorooctadecanoic acid	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorooctanesulfonic acid (PFOS)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluorooctylsulfonamide	0.647	U	0.669	U	3.34		Ok - both ND
Perfluoropentanoic Acid	0.647	U	0.669	U	3.34		Ok - both ND
Perfluoropetanesulfonic acid (PFPeS)	0.647	U	0.669	U	3.34		Ok - both ND
Perfluoroundecanoic Acid (PFUna)	0.647	U	0.669	U	3.34		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-13-0204**		**2023-FD-04**				
	620-10051-33		**620-10051-34**				
1,1,1,2-Tetrachloroethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,1,1-Trichloroethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,1,2,2-Tetrachloroethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,1,2-Trichloroethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,1-Dichloroethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,1-Dichloroethene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,1-Dichloropropene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2,3-Trichlorobenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2,3-Trichloropropane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2,4-Trichlorobenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2,4-Trimethylbenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2-Dibromo-3-chloropropane	0.0111	U	0.0114	U	2.67		Ok - both ND
1,2-Dibromoethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2-Dichlorobenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2-Dichloroethane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,2-Dichloropropane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,3,5-Trichlorobenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,3,5-Trimethylbenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,3-Dichlorobenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,3-Dichloropropane	0.00553	U	0.00571	U	3.20		Ok - both ND
1,3-Dichloropropene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,4-Dichlorobenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
1,4-Dioxane	0.111	U	0.114	U	2.67		Ok - both ND
2,2-Dichloropropane	0.00553	U	0.00571	U	3.20		Ok - both ND
2-Butanone	0.0111	U	0.0114	U	2.67		Ok - both ND
2-Chlorotoluene	0.00553	U	0.00571	U	3.20		Ok - both ND
2-Hexanone	0.0111	U	0.0114	U	2.67		Ok - both ND
4-Chlorotoluene	0.00553	U	0.00571	U	3.20		Ok - both ND
4-Isopropyltoluene	0.00553	U	0.00571	U	3.20		Ok - both ND
4-Methyl-2-pentanone	0.0111	U	0.0114	U	2.67		Ok - both ND
Acetone	0.0553	U	0.0571	U	3.20		Ok - both ND
Acrylonitrile	0.0553	U	0.00571	U	-162.56		Ok - both ND
Benzene	0.0553	U	0.00571	U	-162.56		Ok - both ND
Bromobenzene	0.0553	U	0.00571	U	-162.56		Ok - both ND
Bromochloromethane	0.0553	U	0.00571	U	-162.56		Ok - both ND
Bromodichloromethane	0.0553	U	0.00571	U	-162.56		Ok - both ND
Bromoform	0.0553	U	0.00571	U	-162.56		Ok - both ND
Bromomethane	0.0111	U	0.0114	U	2.67		Ok - both ND
Carbon disulfide	0.0111	U	0.0114	U	2.67		Ok - both ND
Carbon tetrachloride	0.00553	U	0.00571	U	3.20		Ok - both ND
Chlorobenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
Chloroethane	0.0111	U	0.0114	U	2.67		Ok - both ND
Chloroform	0.00553	U	0.00571	U	3.20		Ok - both ND
Chloromethane	0.0111	U	0.0114	U	2.67		Ok - both ND
cis-1,2-Dichloroethene	0.00553	U	0.00571	U	3.20		Ok - both ND
cis-1,3-Dichloropropene	0.00553	U	0.00571	U	3.20		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Dibromochloromethane	0.00553	U	0.00571	U	3.20		Ok - both ND
Dibromomethane	0.00553	U	0.00571	U	3.20		Ok - both ND
Dichlorodifluoromethane	0.0111	U	0.0114	U	2.67		Ok - both ND
Diethyl ether	0.00553	U	0.00571	U	3.20		Ok - both ND
Diisopropyl Ether	0.00553	U	0.00571	U	3.20		Ok - both ND
Ethanol	1.11	U	1.14	U	2.67		Ok - both ND
Ethylbenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
Hexachlorobutadiene	0.0111	U	0.0114	U	2.67		Ok - both ND
Isopropylbenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
m,p-Xylene	0.00553	U	0.00571	U	3.20		Ok - both ND
Methyl tert-butyl ether	0.00553	U	0.00571	U	3.20		Ok - both ND
Methylene chloride	0.0111	U	0.0114	U	2.67		Ok - both ND
Naphthalene	0.00553	U	0.00571	U	3.20		Ok - both ND
n-Butylbenzene	0.0111	U	0.0114	U	2.67		Ok - both ND
n-Propylbenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
o-Xylene	0.00553	U	0.00571	U	3.20		Ok - both ND
sec-Butylbenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
Styrene	0.00553	U	0.00571	U	3.20		Ok - both ND
tert-Amyl methyl ether	0.00553	U	0.00571	U	3.20		Ok - both ND
tert-Butyl Alcohol	0.111	U	0.114	U	2.67		Ok - both ND
Tert-Butyl Ethyl Ether	0.00553	U	0.00571	U	3.20		Ok - both ND
tert-Butylbenzene	0.00553	U	0.00571	U	3.20		Ok - both ND
Tetrachloroethene	0.00553	U	0.00571	U	3.20		Ok - both ND
Tetrahydrofuran	0.0111	U	0.0114	U	2.67		Ok - both ND
Toluene	0.00553	U	0.00571	U	3.20		Ok - both ND
trans-1,2-Dichloroethene	0.00553	U	0.00571	U	3.20		Ok - both ND
trans-1,3-Dichloropropene	0.00553	U	0.00571	U	3.20		Ok - both ND
trans-1,4-Dichlorobutene	0.0277	U	0.0286	U	3.20		Ok - both ND
Trichloroethene	0.00553	U	0.00571	U	3.20		Ok - both ND
Trichlorofluoromethane	0.00553	U	0.00571	U	3.20		Ok - both ND
Vinyl chloride	0.00553	U	0.00571	U	3.20		Ok - both ND
Xylene (total)	0.0166	U	0.0171	U	2.97		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-13-0204**		**2023-FD-04**				
	620-10051-33		**620-10051-34**				
1,2,4,5-Tetrachlorobenzene	0.346	U	0.34	U	-1.75		Ok - both ND
1,2,4-Trichlorobenzene	0.346	U	0.34	U	-1.75		Ok - both ND
1,2-Dichlorobenzene	0.346	U	0.34	U	-1.75		Ok - both ND
1,3-Dichlorobenzene	0.346	U	0.34	U	-1.75		Ok - both ND
1,4-Dichlorobenzene	0.346	U	0.34	U	-1.75		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.175	U	0.172	U	-1.73		Ok - both ND
2,4,5-Trichlorophenol	0.346	U	0.34	U	-1.75		Ok - both ND
2,4,6-Trichlorophenol	0.175	U	0.172	U	-1.73		Ok - both ND
2,4-Dichlorophenol	0.175	U	0.172	U	-1.73		Ok - both ND
2,4-Dimethylphenol	0.346	U	0.34	U	-1.75		Ok - both ND
2,4-Dinitrophenol	0.346	U	0.34	U	-1.75		Ok - both ND
2,4-Dinitrotoluene	0.175	U	0.172	U	-1.73		Ok - both ND
2,6-Dinitrotoluene	0.175	U	0.172	U	-1.73		Ok - both ND
2-Chloronaphthalene	0.346	U	0.34	U	-1.75		Ok - both ND
2-Chlorophenol	0.175	U	0.172	U	-1.73		Ok - both ND
2-Methylnaphthalene	0.07	U	0.0688	U	-1.73		Ok - both ND
2-Methylphenol	0.346	U	0.34	U	-1.75		Ok - both ND
2-Nitroaniline	0.346	U	0.34	U	-1.75		Ok - both ND
2-Nitrophenol	0.175	U	0.172	U	-1.73		Ok - both ND
3 & 4 Methylphenol	0.346	U	0.34	U	-1.75		Ok - both ND
3,3'-Dichlorobenzidine	0.346	U	0.34	U	-1.75		Ok - both ND
3-Nitroaniline	0.346	U	0.34	U	-1.75		Ok - both ND
4,6-Dinitro-2-methylphenol	0.346	U	0.34	U	-1.75		Ok - both ND
4-Bromophenyl-phenylether	0.346	U	0.34	U	-1.75		Ok - both ND
4-Chloro-3-methylphenol	0.346	U	0.34	U	-1.75		Ok - both ND
4-Chloroaniline	0.175	U	0.172	U	-1.73		Ok - both ND
4-Chlorophenyl-phenylether	0.346	U	0.34	U	-1.75		Ok - both ND
4-Nitroaniline	0.175	U	0.172	U	-1.73		Ok - both ND
4-Nitrophenol	0.346	U	0.34	U	-1.75		Ok - both ND
Acenaphthene	0.07	U	0.0688	U	-1.73		Ok - both ND
Acenaphthylene	0.07	U	0.0688	U	-1.73		Ok - both ND
Acetophenone	0.175	U	0.172	U	-1.73		Ok - both ND
Aniline	0.346	U	0.34	U	-1.75		Ok - both ND
Anthracene	0.07	U	0.0688	U	-1.73		Ok - both ND
Azobenzene	0.346	U	0.34	U	-1.75		Ok - both ND
Benzidine	0.692	U	0.681	U	-1.60		Ok - both ND
Benzo(a)anthracene	0.07	U	0.0688	U	-1.73		Ok - both ND
Benzo(a)pyrene	0.07	U	0.0688	U	-1.73		Ok - both ND
Benzo(b)fluoranthene	0.07	U	0.0688	U	-1.73		Ok - both ND
Benzo(g,h,i)perylene	0.07	U	0.0688	U	-1.73		Ok - both ND
Benzo(k)fluoranthene	0.07	U	0.0688	U	-1.73		Ok - both ND
Benzoic Acid	0.346	U	0.34	U	-1.75		Ok - both ND
Benzyl Alcohol	0.346	U	0.34	U	-1.75		Ok - both ND
Bis(2-chloroethoxy)methane	0.346	U	0.34	U	-1.75		Ok - both ND
Bis(2-chloroethyl)ether	0.175	U	0.172	U	-1.73		Ok - both ND
Bis(2-chloroisopropyl	0.175	U	0.172	U	-1.73		Ok - both ND
Bis(2-ethylhexyl)phthalate	0.175	U	0.172	U	-1.73		Ok - both ND
Butylbenzylphthalate	0.346	U	0.34	U	-1.75		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Carbazole	0.175	U	0.172	U	-1.73		Ok - both ND
Chrysene	0.07	U	0.0688	U	-1.73		Ok - both ND
Dibenz(a,h)anthracene	0.07	U	0.0688	U	-1.73		Ok - both ND
Dibenzofuran	0.175	U	0.172	U	-1.73		Ok - both ND
Diethylphthalate	0.346	U	0.34	U	-1.75		Ok - both ND
Dimethylphthalate	0.346	U	0.34	U	-1.75		Ok - both ND
Di-N-Butylphthalate	0.346	U	0.34	U	-1.75		Ok - both ND
Di-N-Octyl Phthalate	0.346	U	0.34	U	-1.75		Ok - both ND
Fluoranthene	0.07	U	0.0688	U	-1.73		Ok - both ND
Fluorene	0.07	U	0.0688	U	-1.73		Ok - both ND
Hexachlorobenzene	0.175	U	0.172	U	-1.73		Ok - both ND
Hexachlorobutadiene	0.175	U	0.172	U	-1.73		Ok - both ND
Hexachlorocyclopentadiene	0.175	U	0.172	U	-1.73		Ok - both ND
Hexachloroethane	0.175	U	0.172	U	-1.73		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.07	U	0.0688	U	-1.73		Ok - both ND
Isophorone	0.175	U	0.172	U	-1.73		Ok - both ND
Naphthalene	0.07	U	0.0688	U	-1.73		Ok - both ND
Naphthalene, 1-methyl-	0.07	U	0.0688	U	-1.73		Ok - both ND
Nitrobenzene	0.175	U	0.172	U	-1.73		Ok - both ND
(NDMA)	0.175	U	0.172	U	-1.73		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.175	U	0.172	U	-1.73		Ok - both ND
N-Nitrosodiphenylamine	0.346	U	0.34	U	-1.75		Ok - both ND
Pentachloronitrobenzene	0.346	U	0.34	U	-1.75		Ok - both ND
Pentachlorophenol	0.346	U	0.34	U	-1.75		Ok - both ND
Phenanthrene	0.07	U	0.0688	U	-1.73		Ok - both ND
Phenol	0.346	U	0.34	U	-1.75		Ok - both ND
Pyrene	0.07	U	0.0688	U	-1.73		Ok - both ND
Pyridine	0.346	U	0.34	U	-1.75		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-13-0204**		**2023-FD-04**				
	620-10051-33		**620-10051-34**				
Aroclor 1016	0.0208	U	0.021	U	0.96		Ok - both ND
Aroclor 1221	0.0208	U	0.021	U	0.96		Ok - both ND
Aroclor 1232	0.0208	U	0.021	U	0.96		Ok - both ND
Aroclor 1242	0.0208	U	0.021	U	0.96		Ok - both ND
Aroclor 1248	0.0208	U	0.021	U	0.96		Ok - both ND
Aroclor 1254	0.0181	J	0.0217		18.09	0.004	Ok - abs diff < 4x RL
Aroclor 1260	0.0208	U	0.021	U	0.96		Ok - both ND
Aroclor 1262	0.0208	U	0.021	U	0.96		Ok - both ND
Aroclor 1268	0.0208	U	0.021	U	0.96		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-13-0204**		**2023-FD-04**				
	620-10051-33		**620-10051-34**				
Benzene	0.0533	U	0.0557	U	4.40		Ok - both ND
C5-C8 Aliphatics (adjusted)	0.267	U	0.278	U	4.04		Ok - both ND
C5-C8 Aliphatics (unadjusted)	0.267	U	0.278	U	4.04		Ok - both ND
C9-C10 Aromatics	0.267	U	0.278	U	4.04		Ok - both ND
C9-C12 Aliphatics (adjusted)	0.267	U	0.278	U	4.04		Ok - both ND
C9-C12 Aliphatics (unadjusted)	0.267	U	0.278	U	4.04		Ok - both ND
Ethylbenzene	0.0533	U	0.0557	U	4.40		Ok - both ND
m,p-Xylene	0.107	U	0.111	U	3.67		Ok - both ND
Methyl tert-butyl ether	0.0533	U	0.0557	U	4.40		Ok - both ND
Naphthalene	0.0533	U	0.0557	U	4.40		Ok - both ND
o-Xylene	0.0533	U	0.0557	U	4.40		Ok - both ND
Toluene	0.0533	U	0.0557	U	4.40		Ok - both ND

Field Duplicate Evaluation

SDG: 620100511 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-13-0204**		**2023-FD-04**				
	620-10051-33		**620-10051-34**				
Antimony	4.77	U	4.98	U	4.31		Ok - both ND
Arsenic	4.84		4.86		0.41	0.02	Ok - abs diff < 4x RL
Barium	11.9		10.9		-8.77		Ok - RPD < 50%
Beryllium	0.209	J	0.187	J	-11.11		Ok - both < RL
Cadmium	0.477	U	0.498	U	4.31		Ok - both ND
Chromium	4.88		4.44		-9.44	-0.44	Ok - abs diff < 4x RL
Copper	19.1	U	19.9	U	4.10		Ok - both ND
Lead	2.64		2.32		-12.90	-0.32	Ok - abs diff < 4x RL
Mercury	0.0636	U	0.0634	U	-0.31		Ok - both ND
Nickel	2.17		1.87		-14.85	-0.30	Ok - abs diff < 4x RL
Selenium	4.77	U	4.98	U	4.31		Ok - both ND
Silver	0.955	U	0.997	U	4.30		Ok - both ND
Thallium	2.86	U	2.99	U	4.44		Ok - both ND
Vanadium	7.54		6.79		-10.47	-0.75	Ok - RPD < 50%
Zinc	9.04		8.56		-5.45	-0.48	Ok - abs diff < 4x RL

Field Duplicate Evaluation

SDG: 620100511 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-13-0204**		**2023-FD-04**				
	620-10051-33		**620-10051-34**				
10:2 FTS	2.08	U	2.03	U	-2.43		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.623	U	0.609	U	-2.27		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.08	U	2.03	U	-2.43		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.08	U	2.03	U	-2.43		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.12	U	3.05	U	-2.27		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.08	U	2.03	U	-2.43		Ok - both ND
6:2 Fluorotelomer sulfonate	2.08	U	2.03	U	-2.43		Ok - both ND
8:2 Fluorotelomer sulfonate	3.12	U	3.05	U	-2.27		Ok - both ND
9Cl-PF3ONS	2.08	U	2.03	U	-2.43		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.08	U	2.03	U	-2.43		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.08	U	2.03	U	-2.43		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	2.08	U	2.03	U	-2.43		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.08	U	2.03	U	-2.43		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.08	U	2.03	U	-2.43		Ok - both ND
Perfluorobutanesulfonic acid (PFBS)	2.08	U	2.03	U	-2.43		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.08	U	2.03	U	-2.43		Ok - both ND
Perfluorodecane Sulfonate	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.08	U	2.03	U	-2.43		Ok - both ND
Perfluorododecanoic Acid (PFDoA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluoroheptane sulfonate	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorohexadecanoic acid	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorohexanesulfonic acid (PFHxS)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorononanesulfonic acid	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorononanoic acid (PFNA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluoro-n-tridecanoic acid (PFTrDA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorooctadecanoic acid	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorooctanesulfonic acid (PFOS)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluorooctylsulfonamide	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluoropentanoic Acid	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluoropetanesulfonic acid (PFPeS)	0.623	U	0.609	U	-2.27		Ok - both ND
Perfluoroundecanoic Acid (PFUna)	0.623	U	0.609	U	-2.27		Ok - both ND

620-10051 Chain of Custody

10051

Chain of Custody Record

eurofins | Environment Testing

	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 3
Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 3 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010D/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							F, J		F					
01	2023-MW-01-0406'	2/27/23	13:40	G	Solid		Y	✓	✓	✓	✓	✓	✓		
02	2023-MW-01-0608'		13:45		Solid			✓	✓	✓	✓	✓	✓		
03	2023-MW-01-0810'		13:50		Solid			✓	✓	✓	✓	✓	✓		
04	2023-MW-01-1012'		13:55		Solid			✓	✓	✓	✓	✓	✓		
05	2023-MW-02-0002'		15:00		Solid			✓	✓	✓	✓	✓	✓		
06	2023-MW-02-0204'		15:05		Solid			✓	✓	✓	✓	✓	✓		
07	2023-MW-02-0406'		15:10		Solid			✓	✓	✓	✓	✓	✓		
08	2023-MW-02-0608'		15:15		Solid			✓	✓	✓	✓	✓	✓		
09	2023-MW-02-0810'		15:20		Solid			✓	✓	✓	✓	✓	✓		
10	2023-MW-02-1012'	↓	15:25		Solid			✓	✓	✓	✓	✓	✓		
11	2023-SB-16-0002'	3/1/23	08:55	↓	Solid			✓	✓	✓	✓	✓	✓		

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time: 3/1/23 14:15	Company	Received by:	Date/Time: 3/1/23 1415	Company: EWE
Relinquished by:	Date/Time: 3/1/23 16:29	Company EWE	Received by:	Date/Time: 3/1/23 16:29	Company: GHD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.0 +0.2 1_2#5

3/22/2023

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone: 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 4
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 4 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							FJ		F					
12	2023-SB-16 - 0204'	3/1/23	09:00	G	Solid			✓	✓	✓	✓	✓	✓		
13	2023-SB-16 - 0406'		09:05		Solid			✓	✓	✓	✓	✓	✓		
14	2023-SB-16 - 0608'		09:10		Solid			✓	✓	✓	✓	✓	✓		
15	2023-SB-16 - 0810'		09:15		Solid			✓	✓	✓	✓	✓	✓		
16	2023-SB-16 - 1012'		09:20		Solid			✓	✓	✓	✓	✓	✓		
17	2023-SB-15 - 0002'		10:00		Solid	Y		✓	✓	✓	✓	✓	✓		
18	2023-SB-15-0204'		10:05		Solid			✓	✓	✓	✓	✓	✓		
19	2023-SB-15-0406'		10:10		Solid			✓	✓	✓	✓	✓	✓		
20	2023-SB-15-0608'		10:15		Solid			✓	✓	✓	✓	✓	✓		
21	2023-SB-15-0810'		10:20		Solid			✓	✓	✓	✓	✓	✓		
22	2023-SB-15-1012'	↓	10:25	↓	Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EQuIS EDD

Special Instructions/QC Requirements. email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 14:15	ENE	[signature]	3/1/23 1415	ENE
2	[signature]	3/1/23 16:19	ENE		3/1/23 16:19	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks. 1.0 to 2 1.2 FTS

Ver: 06/08/2021

3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF+KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.5
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 5 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S 00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PUBS 8082 (50nm LOQ)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							FJ		F					
3	2023-FD-03	3/1/23	08:00	G	Solid			✓	✓	✓	✓	✓	✓		
4	TRIP BLANK-01				Solid			✓							
25	2023-SB-14-0002'		11:20		Solid			✓	✓	✓	✓	✓	✓		
26	2023-SB-14-0204'		11:25		Solid			✓	✓	✓	✓	✓	✓		
27	2023-SB-14-0406'		11:30		Solid			✓	✓	✓	✓	✓	✓		
28	2023-SB-14-0608'		11:35		Solid			✓	✓	✓	✓	✓	✓		
29	2023-SB-14-0810'		11:40		Solid			✓	✓	✓	✓	✓	✓		
30	2023-SB-14-1012'		11:45		Solid			✓	✓	✓	✓	✓	✓		
31	TRIP BLANK-02				Solid			✓							
32	2023-SB-13-0002'		12:50		Solid			✓	✓	✓	✓	✓	✓		
33	2023-SB-13-0204'		12:55		Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to ~~dmcgrath~~ dmcgrath@nobis-group.com

Empty Kit Relinquished by: ~~Equis~~	Date:	Time	Method of Shipment:
Relinquished by: BFR	Date/Time: 3/1/23 14:15	Company: ENE	Received by: BFR
Relinquished by: BFR	Date/Time: 3/1/23 16:29	Company: ENE	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.0 +0.2 1.2 #6

Ver: 06/08/2021

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3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 6
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 6 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes.
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
				Preservation Code:				J		F					
34	2023-FD-04	3/1/23	08 05	G	Solid			✓	✓	✓	✓	✓	✓		
35	2023-SB-13-0406'		13:00		Solid			✓	✓	✓	✓	✓	✓		
36	2023-SB-13-0608'		13:05		Solid			✓	✓	✓	✓	✓	✓		
37	2023-SB-13-0810'		13:10		Solid			✓	✓	✓	✓	✓	✓		
38	2023-SB-13-1012'		13:15		Solid			✓	✓	✓	✓	✓	✓		
39	TRIP BLANK-03				Solid			✓							
					Solid										
					Solid										
					Solid										
					Solid										
					Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3/1/23 14:15			3/1/23 14:15	Eurofins
2		3/1/23 16:29	ENE		3/1/23 16:29	Eurofins
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.0 to .8 1.2 IR6

Ver: 06/08/2021

3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-01-0406' (620-10051-1)	2/27/23	13:40 Eastern		Solid			X	X	X	2	
2023-MW-01-0406' (620-10051-1MS)	2/27/23	13:40 Eastern	MS	Solid			X	X	X	2	
2023-MW-01-0406' (620-10051-1MSD)	2/27/23	13:40 Eastern	MSD	Solid			X	X	X	2	
2023-MW-01-0608' (620-10051-2)	2/27/23	13:45 Eastern		Solid			X	X	X	2	
2023-MW-01-0810' (620-10051-3)	2/27/23	13:50 Eastern		Solid			X	X	X	2	
2023-MW-01-1012' (620-10051-4)	2/27/23	13:55 Eastern		Solid			X	X	X	2	
2023-MW-02-0002' (620-10051-5)	2/27/23	15:00 Eastern		Solid			X	X	X	2	
2023-MW-02-0204' (620-10051-6)	2/27/23	15:05 Eastern		Solid			X	X	X	2	
2023-MW-02-0406' (620-10051-7)	2/27/23	15:10 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 18:00	ET			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-02-0608' (620-10051-8)	2/27/23	15:15 Eastern		Solid			X	X	X	2	
2023-MW-02-0810' (620-10051-9)	2/27/23	15:20 Eastern		Solid			X	X	X	2	
2023-MW-02-1012' (620-10051-10)	2/27/23	15:25 Eastern		Solid			X	X	X	2	
2023-SB-16-0002' (620-10051-11)	3/1/23	08:55 Eastern		Solid			X	X	X	1	
2023-SB-16-0204' (620-10051-12)	3/1/23	09:00 Eastern		Solid			X	X	X	2	
2023-SB-16-0406' (620-10051-13)	3/1/23	09:05 Eastern		Solid			X	X	X	2	
2023-SB-16-0608' (620-10051-14)	3/1/23	09:10 Eastern		Solid			X	X	X	2	
2023-SB-16-0810' (620-10051-15)	3/1/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-16-1012' (620-10051-16)	3/1/23	09:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 18:00	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-02-0608' (620-10051-8)	2/27/23	15:15 Eastern		Solid			X	X	X	2	
2023-MW-02-0810' (620-10051-9)	2/27/23	15:20 Eastern		Solid			X	X	X	2	
2023-MW-02-1012' (620-10051-10)	2/27/23	15:25 Eastern		Solid			X	X	X	2	
2023-SB-16-0002' (620-10051-11)	3/1/23	08:55 Eastern		Solid			X	X	X	1	
2023-SB-16-0204' (620-10051-12)	3/1/23	09:00 Eastern		Solid			X	X	X	2	
2023-SB-16-0406' (620-10051-13)	3/1/23	09:05 Eastern		Solid			X	X	X	2	
2023-SB-16-0608' (620-10051-14)	3/1/23	09:10 Eastern		Solid			X	X	X	2	
2023-SB-16-0810' (620-10051-15)	3/1/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-16-1012' (620-10051-16)	3/1/23	09:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 18:00	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-15-0002' (620-10051-17)	3/1/23	10:00 Eastern		Solid			X	X	X	2	
2023-SB-15-0002' (620-10051-17MS)	3/1/23	10:00 Eastern	MS	Solid			X	X	X	2	
2023-SB-15-0002' (620-10051-17MSD)	3/1/23	10:00 Eastern	MSD	Solid			X	X	X	2	
2023-SB-15-0204' (620-10051-18)	3/1/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-15-0406' (620-10051-19)	3/1/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-15-0608' (620-10051-20)	3/1/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-15-0810' (620-10051-21)	3/1/23	10:20 Eastern		Solid			X	X	X	2	
2023-SB-15-1012' (620-10051-22)	3/1/23	10:25 Eastern		Solid			X	X	X	2	
2023-FD-03 (620-10051-23)	3/1/23	08:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 18:00	ELET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ELET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-14-0002' (620-10051-25)	3/1/23	11:20 Eastern		Solid			X	X	X	2	
2023-SB-14-0204' (620-10051-26)	3/1/23	11:25 Eastern		Solid			X	X	X	2	
2023-SB-14-0406' (620-10051-27)	3/1/23	11:30 Eastern		Solid			X	X	X	2	
2023-SB-14-0608' (620-10051-28)	3/1/23	11:35 Eastern		Solid			X	X	X	3	
2023-SB-14-0810' (620-10051-29)	3/1/23	11:40 Eastern		Solid			X	X	X	2	
2023-SB-14-1012' (620-10051-30)	3/1/23	11:45 Eastern		Solid			X	X	X	2	
2023-SB-13-0002' (620-10051-32)	3/1/23	12:50 Eastern		Solid			X	X	X	2	
2023-SB-13-0204' (620-10051-33)	3/1/23	12:55 Eastern		Solid			X	X	X	2	
2023-FD-04 (620-10051-34)	3/1/23	08:05 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 1800	ELT			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 0905	Company ELLET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
Preservation Code:											
2023-SB-13-0406' (620-10051-35)	3/1/23	13:00 Eastern		Solid			X	X	X	2	
2023-SB-13-0608' (620-10051-36)	3/1/23	13:05 Eastern		Solid			X	X	X	1	
2023-SB-13-0810' (620-10051-37)	3/1/23	13:10 Eastern		Solid			X	X	X	2	
2023-SB-13-1012' (620-10051-38)	3/1/23	13:15 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 1600	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

IM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCl; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-01-0406' (620-10051-1)	2/27/23	13:40 Eastern		Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MS)	2/27/23	13:40 Eastern	MS	Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MSD)	2/27/23	13:40 Eastern	MSD	Solid			X	X	1	
2023-MW-01-0608' (620-10051-2)	2/27/23	13:45 Eastern		Solid			X	X	1	
2023-MW-01-0810' (620-10051-3)	2/27/23	13:50 Eastern		Solid			X	X	1	
2023-MW-01-1012' (620-10051-4)	2/27/23	13:55 Eastern		Solid			X	X	1	
2023-MW-02-0002' (620-10051-5)	2/27/23	15:00 Eastern		Solid			X	X	1	
2023-MW-02-0204' (620-10051-6)	2/27/23	15:05 Eastern		Solid			X	X	1	
2023-MW-02-0406' (620-10051-7)	2/27/23	15:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 18:00	Eurofins	[signature]		
2				[signature]	3-2-23 950	TAB
3						

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCl; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-01-0406' (620-10051-1)	2/27/23	13:40 Eastern		Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MS)	2/27/23	13:40 Eastern	MS	Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MSD)	2/27/23	13:40 Eastern	MSD	Solid			X	X	1	
2023-MW-01-0608' (620-10051-2)	2/27/23	13:45 Eastern		Solid			X	X	1	
2023-MW-01-0810' (620-10051-3)	2/27/23	13:50 Eastern		Solid			X	X	1	
2023-MW-01-1012' (620-10051-4)	2/27/23	13:55 Eastern		Solid			X	X	1	
2023-MW-02-0002' (620-10051-5)	2/27/23	15:00 Eastern		Solid			X	X	1	
2023-MW-02-0204' (620-10051-6)	2/27/23	15:05 Eastern		Solid			X	X	1	
2023-MW-02-0406' (620-10051-7)	2/27/23	15:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 18:00	Eurofins	[signature]		
2				[signature]	3-2-23 950	TAB
3						

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-02-0608' (620-10051-8)	2/27/23	15:15 Eastern		Solid			X	X	1	
2023-MW-02-0810' (620-10051-9)	2/27/23	15:20 Eastern		Solid			X	X	1	
2023-MW-02-1012' (620-10051-10)	2/27/23	15:25 Eastern		Solid			X	X	1	
2023-SB-16-0002' (620-10051-11)	3/1/23	08:55 Eastern		Solid			X	X	1	
2023-SB-16-0204' (620-10051-12)	3/1/23	09:00 Eastern		Solid			X	X	1	
2023-SB-16-0406' (620-10051-13)	3/1/23	09:05 Eastern		Solid			X	X	1	
2023-SB-16-0608' (620-10051-14)	3/1/23	09:10 Eastern		Solid			X	X	1	
2023-SB-16-0810' (620-10051-15)	3/1/23	09:15 Eastern		Solid			X	X	1	
2023-SB-16-1012' (620-10051-16)	3/1/23	09:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	3/1/23 18:00	EUE	[signature]		
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-15-0002' (620-10051-17)	3/1/23	10:00 Eastern		Solid			X	X	1	
2023-SB-15-0002' (620-10051-17MS)	3/1/23	10:00 Eastern	MS	Solid			X	X	1	
2023-SB-15-0002' (620-10051-17MSD)	3/1/23	10:00 Eastern	MSD	Solid			X	X	1	
2023-SB-15-0204' (620-10051-18)	3/1/23	10:05 Eastern		Solid			X	X	1	
2023-SB-15-0406' (620-10051-19)	3/1/23	10:10 Eastern		Solid			X	X	1	
2023-SB-15-0608' (620-10051-20)	3/1/23	10:15 Eastern		Solid			X	X	1	
2023-SB-15-0810' (620-10051-21)	3/1/23	10:20 Eastern		Solid			X	X	1	
2023-SB-15-1012' (620-10051-22)	3/1/23	10:25 Eastern		Solid			X	X	1	
2023-FD-03 (620-10051-23)	3/1/23	08:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 11:00	Eur	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by: pg	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-14-0002' (620-10051-25)	3/1/23	11:20 Eastern		Solid			X	X	1	
2023-SB-14-0204' (620-10051-26)	3/1/23	11:25 Eastern		Solid			X	X	1	
2023-SB-14-0406' (620-10051-27)	3/1/23	11:30 Eastern		Solid			X	X	1	
2023-SB-14-0608' (620-10051-28)	3/1/23	11:35 Eastern		Solid			X	X	1	
2023-SB-14-0810' (620-10051-29)	3/1/23	11:40 Eastern		Solid			X	X	1	
2023-SB-14-1012' (620-10051-30)	3/1/23	11:45 Eastern		Solid			X	X	1	
2023-SB-13-0002' (620-10051-32)	3/1/23	12:50 Eastern		Solid			X	X	1	
2023-SB-13-0204' (620-10051-33)	3/1/23	12:55 Eastern		Solid			X	X	1	
2023-FD-04 (620-10051-34)	3/1/23	08:05 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/1/23 1810	EuE	pg		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-13-0406' (620-10051-35)	3/1/23	13:00 Eastern		Solid			X	X	1	
2023-SB-13-0608' (620-10051-36)	3/1/23	13:05 Eastern		Solid			X	X	1	
2023-SB-13-0810' (620-10051-37)	3/1/23	13:10 Eastern		Solid			X	X	1	
2023-SB-13-1012' (620-10051-38)	3/1/23	13:15 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/1/23 18:00	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10051-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

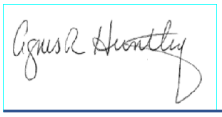
my EOL

Eurofins New England

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10051-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10051-1 through 620-10051-39

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes ☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/22/2023

Job ID: 620-10051-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10051-1

Comments
No additional comments.

Receipt
The samples were received on 3/1/2023 4:29 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2º C.

Receipt Exceptions
The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): 2023-SB-16-0002' (620-10051-11).
The laboratory received 2 total containers, while the COC lists 1 total containers.

The laboratory did not receive methanol vials for the 3 trip blanks:
Trip Blank-01 (620-10051-24), Trip Blank-02 (620-10051-31) and Trip Blank-03 (620-10051-39)

One or more containers for the following sample was received empty: 2023-MW-02-0608' (620-10051-8).

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 2023-MW-01-0406' (620-10051-1), 2023-MW-01-0406' (620-10051-1[MS]), 2023-MW-01-0406' (620-10051-1[MSD]), 2023-MW-01-0608' (620-10051-2), 2023-MW-01-0810' (620-10051-3), 2023-MW-01-1012' (620-10051-4), 2023-MW-02-0002' (620-10051-5), 2023-MW-02-0204' (620-10051-6), 2023-MW-02-0406' (620-10051-7), 2023-MW-02-0608' (620-10051-8), 2023-MW-02-0810' (620-10051-9) and 2023-MW-02-1012' (620-10051-10). Client was contacted and instructed the laboratory to analyze using the methanol vial.

GC/MS VOA
Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20238 and analytical batch 620-20239 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike duplicate (MSD) recoveries for preparation batch 620-20240 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20323 exhibited % difference of > 20% for the following analyte: Naphthalene; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20322 and analytical batch 620-20323 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 620-20322 and analytical batch 620-20323 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20240 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Job ID: 620-10051-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: (620-10080-C-1-D). The sample(s) shows evidence of matrix interference.

Method 8260C: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 620-20198 and 620-20327 and analytical batch 620-20328 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 620-20198 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20349/4) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 2,4-Dinitrophenol, Benzidine, Bis(2-ethylhexyl) phthalate, Carbazole, Di-n-butyl phthalate, Di-n-octyl phthalate and Pentachloronitrobenzene.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20241 and analytical batch 620-20349 recovered outside control limits for the following analyte: Benzidine. MCP allows for <10% of analytes to fall outside of control limits. The affected target analyte recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compound was not detected in the samples, the data have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20241 and analytical batch 620-20349 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 2023-MW-01-0406' (620-10051-1[MS]), 2023-MW-01-0406' (620-10051-1[MSD]), 2023-SB-16-1012' (620-10051-16) and 2023-SB-15-0002' (620-10051-17[MSD]). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20349 recovered above the upper control limit for Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate. The following samples had detections above the reporting limit for these analytes: 2023-SB-15-0002' (620-10051-17). The results are considered bias high.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20386/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, Benzidine, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachlorobutadiene and Pentachloronitrobenzene.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20442/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 4,6-Dinitro-2-methylphenol, Benzidine, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachlorobutadiene and Pentachloronitrobenzene.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20399 and analytical batch 620-20442 recovered outside control limits for the following analytes: Benzidine. The individual percent recoveries are within acceptance criteria.

Job ID: 620-10051-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20495/2) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Pentachloronitrobenzene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-660379 and analytical batch 480-660382 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The following Trap and Gas Chromatographic column was used for the analysis of MAVPH for the affected samples: 2023-MW-01-0406' (620-10051-1), 2023-MW-01-0406' (620-10051-1[MS]), 2023-MW-01-0406' (620-10051-1[MSD]), 2023-MW-01-0608' (620-10051-2), 2023-MW-01-0810' (620-10051-3), 2023-MW-01-1012' (620-10051-4), 2023-MW-02-0002' (620-10051-5), 2023-MW-02-0204' (620-10051-6), 2023-MW-02-0406' (620-10051-7), 2023-MW-02-0608' (620-10051-8), 2023-MW-02-0810' (620-10051-9), 2023-MW-02-1012' (620-10051-10), 2023-SB-16-0002' (620-10051-11), 2023-SB-16-0204' (620-10051-12), 2023-SB-16-0406' (620-10051-13), 2023-SB-16-0608' (620-10051-14), 2023-SB-16-0810' (620-10051-15), 2023-SB-16-1012' (620-10051-16), 2023-SB-15-0002' (620-10051-17), 2023-SB-15-0002' (620-10051-17[MS]), 2023-SB-15-0002' (620-10051-17[MSD]), 2023-SB-15-0204' (620-10051-18), 2023-SB-15-0406' (620-10051-19), 2023-SB-15-0608' (620-10051-20), 2023-SB-15-0810' (620-10051-21), 2023-SB-15-1012' (620-10051-22), 2023-FD-03 (620-10051-23), 2023-SB-14-0002' (620-10051-25), 2023-SB-14-0204' (620-10051-26), 2023-SB-14-0406' (620-10051-27), 2023-SB-14-0608' (620-10051-28), 2023-SB-14-0810' (620-10051-29), 2023-SB-14-1012' (620-10051-30), 2023-SB-13-0002' (620-10051-32), 2023-SB-13-0204' (620-10051-33), 2023-FD-04 (620-10051-34), 2023-SB-13-0406' (620-10051-35), 2023-SB-13-0608' (620-10051-36), 2023-SB-13-0810' (620-10051-37) and 2023-SB-13-1012' (620-10051-38)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20226 and analytical batch 620-20249 were outside control limits for PCB-1260. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) and laboratory control sample duplicate recovery was within acceptance limits.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: 2023-SB-13-0002' (620-10051-32). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-01-0406' (620-10051-1), 2023-MW-02-0406' (620-10051-7), 2023-MW-02-1012' (620-10051-10), 2023-SB-16-0002' (620-10051-11) and 2023-SB-14-0608' (620-10051-28). Elevated reporting limits (RLs) are provided.

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-01-0810' (620-10051-3), 2023-MW-02-0002' (620-10051-5), 2023-MW-02-0204' (620-10051-6), 2023-SB-16-0810' (620-10051-15) and 2023-SB-13-0608' (620-10051-36). Elevated reporting limits (RLs) are provided.

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-SB-16-1012' (620-10051-16), 2023-FD-03 (620-10051-23), 2023-SB-14-0204' (620-10051-26), 2023-SB-13-0204' (620-10051-33), 2023-FD-04 (620-10051-34), 2023-SB-13-0406' (620-10051-35), 2023-SB-13-0810' (620-10051-37) and 2023-SB-13-1012' (620-10051-38). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method 537 (modified): The recovery for the labeled isotope: d3-NMeFOSAA in the following sample: 2023-MW-02-0608' (620-10051-8)

Job ID: 620-10051-1 (Continued)

Laboratory: Eurofins New England (Continued)

and 2023-SB-16-0002' (620-10051-11) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s) is again outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope: d3-NMeFOSAA and d5-NEtFOSAA in the following sample: 2023-MW-02-0810' (620-10051-9), 2023-SB-13-0002' (620-10051-32), 2023-SB-13-0204' (620-10051-33), 2023-FD-04 (620-10051-34) and 2023-SB-13-0406' (620-10051-35) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s) is again outside the QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-20201 was outside control limits for percent moisture. Sample matrix interference and/or non-homogeneity are suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0406' — Lab Sample ID: 620-10051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,6-Dinitro-2-methylphenol	0.341	J F1	0.767	0.138	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0915	J	0.155	0.0872	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.123	J	0.155	0.111	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.106	J	0.155	0.0877	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0928	J	0.155	0.0909	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0968	J	0.155	0.0879	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.213		0.155	0.0856	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.101	B	0.0810	0.0551	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0540		0.0225	0.0175	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.29	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	17.5		0.400	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.349	J	0.400	0.0801	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.44		1.20	0.280	mg/Kg	1	☼	6010D	Total/NA
Lead	3.58		1.20	0.480	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.97		0.801	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.35		0.801	0.344	mg/Kg	1	☼	6010D	Total/NA
Zinc	29.9	^5-	1.60	0.641	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-0608' — Lab Sample ID: 620-10051-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.392	J	0.510	0.0643	mg/Kg	1	☼	8260C	Total/NA
Pentachlorophenol	0.203	J B	0.393	0.161	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0424	J B	0.0553	0.0376	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	1.69	J	2.49	1.16	mg/Kg	1	☼	6010D	Total/NA
Barium	14.3		0.415	0.124	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.191	J	0.415	0.0829	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.87		1.24	0.290	mg/Kg	1	☼	6010D	Total/NA
Lead	2.50		1.24	0.498	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.19		0.829	0.216	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.80		0.829	0.357	mg/Kg	1	☼	6010D	Total/NA
Zinc	33.3		1.66	0.663	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-0810' — Lab Sample ID: 620-10051-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.121	J	0.476	0.0600	mg/Kg	1	☼	8260C	Total/NA
Arsenic	2.13	J	3.33	1.55	mg/Kg	1	☼	6010D	Total/NA
Barium	25.0		0.554	0.166	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.296	J	0.554	0.111	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.75		1.66	0.388	mg/Kg	1	☼	6010D	Total/NA
Lead	2.51		1.66	0.665	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.28		1.11	0.288	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.72		1.11	0.477	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.8		2.22	0.887	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-1012' — Lab Sample ID: 620-10051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0913	J	0.463	0.0583	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.0199	J	0.0233	0.0181	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.48	J	2.76	1.29	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-01-1012' (Continued)
Lab Sample ID: 620-10051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	14.8		0.460	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.185	J	0.460	0.0920	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.48		1.38	0.322	mg/Kg	1	☼	6010D	Total/NA
Lead	1.80		1.38	0.552	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.53		0.920	0.239	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.11		0.920	0.395	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.1	^5-	1.84	0.736	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0002'
Lab Sample ID: 620-10051-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.0827	J	0.136	0.0768	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.187		0.136	0.0797	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.167		0.136	0.0770	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.203		0.136	0.0750	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0309		0.0205	0.0159	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.0144	J	0.0205	0.00440	mg/Kg	1	☼	8082	Total/NA
Arsenic	4.78		2.86	1.33	mg/Kg	1	☼	6010D	Total/NA
Barium	39.3		0.476	0.143	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.397	J	0.476	0.0952	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.0		1.43	0.333	mg/Kg	1	☼	6010D	Total/NA
Lead	6.28		1.43	0.571	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.07		0.952	0.248	mg/Kg	1	☼	6010D	Total/NA
Vanadium	19.3		0.952	0.410	mg/Kg	1	☼	6010D	Total/NA
Zinc	22.7		1.90	0.762	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0204'
Lab Sample ID: 620-10051-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0514	J	0.0779	0.0438	mg/Kg	1	☼	8270D	Total/NA
Benzoic acid	1.20		0.385	0.265	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0577	J	0.0779	0.0440	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.133		0.0779	0.0456	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0723	J	0.0779	0.0441	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.171		0.0779	0.0430	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0711	J B	0.0778	0.0529	mg/Kg	1	☼	MAVPH	Total/NA
Perfluorohexadecanoic acid	0.299	J	0.671	0.224	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Perfluorooctadecanoic acid	0.386	J	0.671	0.224	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	3.12		2.69	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	20.9		0.449	0.135	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.451		0.449	0.0898	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.41		1.35	0.314	mg/Kg	1	☼	6010D	Total/NA
Lead	7.54		1.35	0.539	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.77		0.898	0.234	mg/Kg	1	☼	6010D	Total/NA
Vanadium	13.4		0.898	0.386	mg/Kg	1	☼	6010D	Total/NA
Zinc	16.3		1.80	0.719	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0408	J	0.0711	0.0237	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-02-0406'
Lab Sample ID: 620-10051-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.216	J	0.653	0.0823	mg/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-02-0406' (Continued)
Lab Sample ID: 620-10051-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0884	J	0.131	0.0299	mg/Kg	1	☼	8260C	Total/NA
C9-C12 Aliphatics (adjusted)	3.44		0.717	0.307	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	1.37	B	0.143	0.0975	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	3.90		0.717	0.100	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	7.34		0.717	0.307	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	3.48		2.83	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	21.3		0.472	0.142	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.357	J	0.472	0.0944	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.88		1.42	0.330	mg/Kg	1	☼	6010D	Total/NA
Lead	4.14		1.42	0.566	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.44		0.944	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.9		0.944	0.406	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.1	^5-	1.89	0.755	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0608'
Lab Sample ID: 620-10051-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.21	J	2.69	1.25	mg/Kg	1	☼	6010D	Total/NA
Barium	11.9		0.448	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.244	J	0.448	0.0895	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.17		1.34	0.313	mg/Kg	1	☼	6010D	Total/NA
Lead	2.80		1.34	0.537	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.95		0.895	0.233	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.17		0.895	0.385	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.08	^5-	1.79	0.716	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0810'
Lab Sample ID: 620-10051-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.61	J	2.85	1.33	mg/Kg	1	☼	6010D	Total/NA
Barium	13.6		0.474	0.142	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.242	J	0.474	0.0949	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.15		1.42	0.332	mg/Kg	1	☼	6010D	Total/NA
Lead	2.09		1.42	0.569	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.71		0.949	0.247	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.91		0.949	0.408	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.71	^5-	1.90	0.759	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-1012'
Lab Sample ID: 620-10051-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0743	B	0.0688	0.0468	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.0866	J	0.344	0.0482	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.178	J	0.344	0.147	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	2.30	J	3.32	1.55	mg/Kg	1	☼	6010D	Total/NA
Barium	24.8		0.553	0.166	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.294	J	0.553	0.111	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.05		1.66	0.387	mg/Kg	1	☼	6010D	Total/NA
Lead	3.21		1.66	0.664	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.37		1.11	0.288	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.15		1.11	0.476	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.9	^5-	2.21	0.885	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'

Lab Sample ID: 620-10051-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	1.11		0.349	0.0888	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.212		0.0212	0.0165	mg/Kg	1	☼	8082	Total/NA
Perfluorohexanoic acid	0.710		0.615	0.205	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	2.54	J	3.08	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.513	0.154	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.239	J	0.513	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.84		1.54	0.359	mg/Kg	1	☼	6010D	Total/NA
Lead	2.92		1.54	0.615	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.77		1.03	0.267	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.15		1.03	0.441	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.39	^5-	2.05	0.821	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-0204'

Lab Sample ID: 620-10051-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.332		0.182	0.0462	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0363		0.0220	0.0171	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.93	J	5.39	2.52	mg/Kg	1	☼	6010D	Total/NA
Barium	17.0		0.899	0.270	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.299	J	0.899	0.180	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.20		2.70	0.629	mg/Kg	1	☼	6010D	Total/NA
Lead	2.77		2.70	1.08	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.53		1.80	0.467	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.87		1.80	0.773	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.79	^5-	3.59	1.44	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-0406'

Lab Sample ID: 620-10051-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0277		0.0219	0.0170	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.43		2.82	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	14.2		0.471	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.224	J	0.471	0.0941	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.13		1.41	0.329	mg/Kg	1	☼	6010D	Total/NA
Lead	2.45		1.41	0.565	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.74		0.941	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.07		0.941	0.405	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.07	^5-	1.88	0.753	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-0608'

Lab Sample ID: 620-10051-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.85		2.71	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	12.9		0.452	0.136	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.216	J	0.452	0.0905	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.84		1.36	0.317	mg/Kg	1	☼	6010D	Total/NA
Lead	3.46		1.36	0.543	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.40		0.905	0.235	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.29		0.905	0.389	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.84		1.81	0.724	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'

Lab Sample ID: 620-10051-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.66		3.17	1.48	mg/Kg	1	☼	6010D	Total/NA
Barium	95.0		0.529	0.159	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.23		0.529	0.106	mg/Kg	1	☼	6010D	Total/NA
Chromium	26.3		1.59	0.370	mg/Kg	1	☼	6010D	Total/NA
Lead	11.7		1.59	0.634	mg/Kg	1	☼	6010D	Total/NA
Nickel	14.9		1.06	0.275	mg/Kg	1	☼	6010D	Total/NA
Vanadium	43.0		1.06	0.455	mg/Kg	1	☼	6010D	Total/NA
Zinc	58.8		2.11	0.846	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-1012'

Lab Sample ID: 620-10051-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.23	J	4.57	1.55	mg/Kg	1	☼	6010D	Total/NA
Arsenic	11.2		2.74	1.28	mg/Kg	1	☼	6010D	Total/NA
Barium	120		0.457	0.137	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.52		0.457	0.0913	mg/Kg	1	☼	6010D	Total/NA
Chromium	35.3		1.37	0.320	mg/Kg	1	☼	6010D	Total/NA
Lead	13.9		1.37	0.548	mg/Kg	1	☼	6010D	Total/NA
Nickel	20.8		0.913	0.237	mg/Kg	1	☼	6010D	Total/NA
Vanadium	57.7		0.913	0.393	mg/Kg	1	☼	6010D	Total/NA
Zinc	77.8		1.83	0.731	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0002'

Lab Sample ID: 620-10051-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.0999	J	0.336	0.0856	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0376	J	0.0504	0.0343	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0880		0.0204	0.0159	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.98	J	3.05	1.42	mg/Kg	1	☼	6010D	Total/NA
Barium	12.5		0.509	0.153	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.191	J	0.509	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.82		1.53	0.356	mg/Kg	1	☼	6010D	Total/NA
Lead	2.29		1.53	0.610	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.80		1.02	0.264	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.44		1.02	0.437	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.46		2.03	0.814	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0204'

Lab Sample ID: 620-10051-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.162	J	0.172	0.0438	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0169	J	0.0205	0.0160	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.38	J	2.99	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	17.7		0.498	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.210	J	0.498	0.0996	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.13		1.49	0.349	mg/Kg	1	☼	6010D	Total/NA
Lead	3.10		1.49	0.598	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.45		0.996	0.259	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.10		0.996	0.428	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.08		1.99	0.797	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'

Lab Sample ID: 620-10051-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.09		0.206	0.161	mg/Kg	10	☼	8082	Total/NA
Arsenic	2.74	J	2.99	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	13.3		0.498	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.143	J	0.498	0.0996	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.29		1.49	0.348	mg/Kg	1	☼	6010D	Total/NA
Lead	2.05		1.49	0.597	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.51		0.996	0.259	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.85		0.996	0.428	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.74		1.99	0.797	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0608'

Lab Sample ID: 620-10051-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0534	J	0.0687	0.0467	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	1.98	J	2.95	1.38	mg/Kg	1	☼	6010D	Total/NA
Barium	13.8		0.492	0.148	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.153	J	0.492	0.0985	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.77		1.48	0.345	mg/Kg	1	☼	6010D	Total/NA
Lead	1.87		1.48	0.591	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.50		0.985	0.256	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.30		0.985	0.423	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.34		1.97	0.788	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0810'

Lab Sample ID: 620-10051-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	1.36		0.370	0.254	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0818		0.0185	0.0144	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.06	J	2.58	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	11.3		0.431	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.179	J	0.431	0.0861	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.53		1.29	0.302	mg/Kg	1	☼	6010D	Total/NA
Lead	1.90		1.29	0.517	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.54		0.861	0.224	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.39		0.861	0.370	mg/Kg	1	☼	6010D	Total/NA
Zinc	5.63	^5-	1.72	0.689	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-1012'

Lab Sample ID: 620-10051-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00518	J	0.0106	0.00283	mg/Kg	1	☼	8260C	Total/NA
Bis(2-ethylhexyl) phthalate	0.170	J	0.199	0.0506	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0321		0.0228	0.0177	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.74	J	3.10	1.45	mg/Kg	1	☼	6010D	Total/NA
Barium	14.7		0.516	0.155	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.189	J	0.516	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.25		1.55	0.361	mg/Kg	1	☼	6010D	Total/NA
Lead	2.45		1.55	0.620	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.57		1.03	0.269	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.91		1.03	0.444	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.28		2.07	0.826	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03 — Lab Sample ID: 620-10051-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.405		0.183	0.0466	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0332		0.0216	0.0168	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.47		3.00	1.40	mg/Kg	1	☼	6010D	Total/NA
Barium	16.2		0.500	0.150	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.261	J	0.500	0.100	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.23		1.50	0.350	mg/Kg	1	☼	6010D	Total/NA
Lead	2.75		1.50	0.600	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.13		1.00	0.260	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.78		1.00	0.430	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.24		2.00	0.800	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-01 — Lab Sample ID: 620-10051-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00377	J	0.0100	0.00268	mg/Kg	1		8260C	Total/NA

Client Sample ID: 2023-SB-14-0002' — Lab Sample ID: 620-10051-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.0974	J	0.175	0.0444	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.114	J	0.155	0.105	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.137		0.0210	0.0163	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.29	J	2.55	1.19	mg/Kg	1	☼	6010D	Total/NA
Barium	13.6		0.426	0.128	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.273	J	0.426	0.0851	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.11		1.28	0.298	mg/Kg	1	☼	6010D	Total/NA
Lead	2.79		1.28	0.511	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.15		0.851	0.221	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.10		0.851	0.366	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.0		1.70	0.681	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0204' — Lab Sample ID: 620-10051-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.68	J	2.95	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	15.1		0.491	0.147	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.191	J	0.491	0.0982	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.14		1.47	0.344	mg/Kg	1	☼	6010D	Total/NA
Lead	1.85		1.47	0.589	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.982	0.255	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.30		0.982	0.422	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.29		1.96	0.785	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0406' — Lab Sample ID: 620-10051-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.39	J	2.10	0.980	mg/Kg	1	☼	6010D	Total/NA
Barium	9.33		0.350	0.105	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.141	J	0.350	0.0700	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.73		1.05	0.245	mg/Kg	1	☼	6010D	Total/NA
Lead	1.64		1.05	0.420	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.68		0.700	0.182	mg/Kg	1	☼	6010D	Total/NA
Vanadium	3.52		0.700	0.301	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-14-0406' (Continued) — Lab Sample ID: 620-10051-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	4.81		1.40	0.560	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0608' — Lab Sample ID: 620-10051-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0829		0.0205	0.0159	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.21		2.15	1.00	mg/Kg	1	☼	6010D	Total/NA
Barium	18.4		0.358	0.107	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.229	J	0.358	0.0716	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.02		1.07	0.251	mg/Kg	1	☼	6010D	Total/NA
Lead	2.22		1.07	0.430	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.45		0.716	0.186	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.44		0.716	0.308	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.9	^5-	1.43	0.573	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0810' — Lab Sample ID: 620-10051-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.65	J	3.36	1.57	mg/Kg	1	☼	6010D	Total/NA
Barium	16.4		0.561	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.164	J	0.561	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.95		1.68	0.392	mg/Kg	1	☼	6010D	Total/NA
Lead	2.22		1.68	0.673	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.68		1.12	0.292	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.96		1.12	0.482	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.71		2.24	0.897	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-1012' — Lab Sample ID: 620-10051-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.61	J	2.73	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.455	0.136	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.157	J	0.455	0.0910	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.27		1.36	0.318	mg/Kg	1	☼	6010D	Total/NA
Lead	1.96		1.36	0.546	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.76		0.910	0.237	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.28		0.910	0.391	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.20		1.82	0.728	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-02 — Lab Sample ID: 620-10051-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00476	J	0.0100	0.00268	mg/Kg	1		8260C	Total/NA

Client Sample ID: 2023-SB-13-0002' — Lab Sample ID: 620-10051-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	1.21		0.704	0.185	mg/Kg	1	☼	8270D	Total/NA
Benzidine	1.62	*1	1.41	0.209	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.190		0.142	0.0801	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.130	J	0.142	0.102	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.211		0.142	0.118	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.114	J	0.142	0.111	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-13-0002' (Continued) — Lab Sample ID: 620-10051-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.171		0.142	0.111	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	8.64		1.78	0.454	mg/Kg	5	☼	8270D	Total/NA
Butyl benzyl phthalate	1.53		0.704	0.0707	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.296		0.142	0.0805	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	1.71		0.704	0.0754	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.423		0.142	0.0835	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.160		0.142	0.0807	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.379		0.142	0.0786	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	10.3		0.420	0.327	mg/Kg	20	☼	8082	Total/NA
Arsenic	12.8		2.49	1.16	mg/Kg	1	☼	6010D	Total/NA
Barium	29.4		0.416	0.125	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.201	J	0.416	0.0832	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.55		1.25	0.291	mg/Kg	1	☼	6010D	Total/NA
Lead	9.60		1.25	0.499	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.34		0.832	0.216	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.12		0.832	0.358	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.3		1.66	0.665	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0204' — Lab Sample ID: 620-10051-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0181	J	0.0208	0.0162	mg/Kg	1	☼	8082	Total/NA
Arsenic	4.84		2.86	1.34	mg/Kg	1	☼	6010D	Total/NA
Barium	11.9		0.477	0.143	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.209	J	0.477	0.0955	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.88		1.43	0.334	mg/Kg	1	☼	6010D	Total/NA
Lead	2.64		1.43	0.573	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.17		0.955	0.248	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.54		0.955	0.411	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.04		1.91	0.764	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-04 — Lab Sample ID: 620-10051-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0217		0.0210	0.0163	mg/Kg	1	☼	8082	Total/NA
Arsenic	4.86		2.99	1.40	mg/Kg	1	☼	6010D	Total/NA
Barium	10.9		0.498	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.187	J	0.498	0.0997	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.44		1.49	0.349	mg/Kg	1	☼	6010D	Total/NA
Lead	2.32		1.49	0.598	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.87		0.997	0.259	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.79		0.997	0.429	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.56		1.99	0.797	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0406' — Lab Sample ID: 620-10051-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0182	J	0.0212	0.0165	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.32	J	2.98	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	16.8		0.497	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.308	J	0.497	0.0993	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.20		1.49	0.348	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-13-0406' (Continued) — Lab Sample ID: 620-10051-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.12		1.49	0.596	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.993	0.258	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.57		0.993	0.427	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.1		1.99	0.794	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0608' — Lab Sample ID: 620-10051-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.315	J	0.338	0.0859	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.141		0.0203	0.0158	mg/Kg	1	☼	8082	Total/NA
Arsenic	5.16		2.82	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	22.5		0.470	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.304	J	0.470	0.0940	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.88		1.41	0.329	mg/Kg	1	☼	6010D	Total/NA
Lead	4.23		1.41	0.564	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.08		0.940	0.244	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.1		0.940	0.404	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.8		1.88	0.752	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0810' — Lab Sample ID: 620-10051-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.75	J	2.97	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	14.9		0.495	0.148	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.238	J	0.495	0.0990	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.80		1.48	0.346	mg/Kg	1	☼	6010D	Total/NA
Lead	2.88		1.48	0.594	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.68		0.990	0.257	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.38		0.990	0.426	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.8		1.98	0.792	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-1012' — Lab Sample ID: 620-10051-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.1		2.57	1.20	mg/Kg	1	☼	6010D	Total/NA
Barium	103		0.428	0.128	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.44		0.428	0.0856	mg/Kg	1	☼	6010D	Total/NA
Chromium	29.1		1.28	0.300	mg/Kg	1	☼	6010D	Total/NA
Lead	12.6		1.28	0.513	mg/Kg	1	☼	6010D	Total/NA
Nickel	15.0		0.856	0.223	mg/Kg	1	☼	6010D	Total/NA
Vanadium	47.9		0.856	0.368	mg/Kg	1	☼	6010D	Total/NA
Zinc	60.6		1.71	0.685	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-03 — Lab Sample ID: 620-10051-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00771	J	0.0100	0.00268	mg/Kg	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0406'
Date Collected: 02/27/23 13:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-1
Matrix: Solid
Percent Solids: 85.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0560	0.0307	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Acetone	ND	F1 F2	0.560	0.0706	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Acrylonitrile	ND		0.0560	0.0202	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Benzene	ND		0.0560	0.00896	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromobenzene	ND		0.0560	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromochloromethane	ND		0.0560	0.00801	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromodichloromethane	ND		0.0560	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromoform	ND		0.0560	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromomethane	ND	F1	0.112	0.0277	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2-Butanone (MEK)	ND		0.112	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
n-Butylbenzene	ND		0.0560	0.0224	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
sec-Butylbenzene	ND		0.0560	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
tert-Butylbenzene	ND		0.0560	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Carbon disulfide	ND		0.112	0.0207	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Carbon tetrachloride	ND		0.0560	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chlorobenzene	ND		0.0560	0.00678	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chloroethane	ND	F1	0.112	0.0250	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chloroform	ND		0.0560	0.00661	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chloromethane	ND		0.112	0.0666	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2-Chlorotoluene	ND		0.0560	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
4-Chlorotoluene	ND		0.0560	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dibromo-3-Chloropropane	ND		0.112	0.0221	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Dibromochloromethane	ND		0.0560	0.00885	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dibromoethane (EDB)	ND		0.0560	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Dibromomethane	ND		0.0560	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dichlorobenzene	ND		0.0560	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3-Dichlorobenzene	ND		0.0560	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,4-Dichlorobenzene	ND		0.0560	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Dichlorodifluoromethane (Freon 12)	ND		0.112	0.0734	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1-Dichloroethane	ND		0.0560	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dichloroethane	ND		0.0560	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1-Dichloroethene	ND		0.0560	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
cis-1,2-Dichloroethene	ND		0.0560	0.0187	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
trans-1,2-Dichloroethene	ND		0.0560	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dichloropropane	ND		0.0560	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3-Dichloropropane	ND		0.0560	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2,2-Dichloropropane	ND		0.0560	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1-Dichloropropene	ND		0.0560	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
cis-1,3-Dichloropropene	ND		0.0560	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
trans-1,3-Dichloropropene	ND		0.0560	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethylbenzene	ND		0.0560	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Hexachlorobutadiene	ND		0.0560	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2-Hexanone (MBK)	ND		0.112	0.0372	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Isopropylbenzene	ND		0.0560	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
4-Isopropyltoluene	ND		0.0560	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Methyl tert-butyl ether	ND		0.0560	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.112	0.0401	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Methylene Chloride	ND		0.112	0.0478	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Naphthalene	ND		0.0560	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1

Client Sample ID: 2023-MW-01-0406'
Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 85.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0560	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Styrene	ND		0.0560	0.00739	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,1,2-Tetrachloroethane	ND		0.0560	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.0560	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Tetrachloroethene	ND		0.0560	0.0176	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Toluene	ND		0.0560	0.00902	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,3-Trichlorobenzene	ND		0.0560	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,4-Trichlorobenzene	ND		0.0560	0.00924	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3,5-Trichlorobenzene	ND		0.0560	0.00885	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,1-Trichloroethane	ND		0.0560	0.0136	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,2-Trichloroethane	ND		0.0560	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Trichloroethene	ND		0.0560	0.00958	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Trichlorofluoromethane (Freon 11)	ND	F1 F2	0.0560	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,3-Trichloropropane	ND		0.0560	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,4-Trimethylbenzene	ND		0.0560	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3,5-Trimethylbenzene	ND		0.0560	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Vinyl chloride	ND		0.0560	0.0276	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
m,p-Xylene	ND		0.0560	0.0329	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
o-Xylene	ND		0.0560	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Tetrahydrofuran	ND		0.112	0.0409	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethyl ether	ND		0.0560	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Tert-amyl methyl ether	ND		0.0560	0.0310	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethyl tert-butyl ether	ND		0.0560	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
di-Isopropyl ether	ND		0.0560	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
tert-Butanol	ND	F1	1.12	0.795	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,4-Dioxane	ND		1.12	0.330	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
trans-1,4-Dichloro-2-butene	ND		0.280	0.0370	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethanol	ND	F1	11.2	0.963	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3-Dichloropropene, Total	ND		0.0560	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Xylenes, Total	ND		0.168	0.168	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.767	0.136	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,2,4-Trichlorobenzene	ND		0.767	0.176	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,2-Dichlorobenzene	ND		0.767	0.148	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,3-Dichlorobenzene	ND		0.767	0.186	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,4-Dichlorobenzene	ND		0.767	0.181	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1-Methylnaphthalene	ND		0.155	0.130	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4,5-Trichlorophenol	ND		0.767	0.0879	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4,6-Trichlorophenol	ND		0.388	0.0949	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4-Dichlorophenol	ND		0.388	0.155	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4-Dimethylphenol	ND		0.767	0.113	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4-Dinitrophenol	ND	F1	0.767	0.202	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0406'
Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 85.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.388	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,6-Dinitrotoluene	ND		0.388	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Chloronaphthalene	ND		0.767	0.177	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Chlorophenol	ND		0.388	0.159	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Methylnaphthalene	ND		0.155	0.115	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Methylphenol	ND		0.767	0.112	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Nitroaniline	ND		0.767	0.0730	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Nitrophenol	ND		0.388	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
3 & 4 Methylphenol	ND		0.767	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
3,3'-Dichlorobenzidine	ND		0.767	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
3-Nitroaniline	ND		0.767	0.0686	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4,6-Dinitro-2-methylphenol	**0.341**	**J F1**	0.767	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Bromophenyl phenyl ether	ND		0.767	0.0867	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Chloro-3-methylphenol	ND		0.767	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Chloroaniline	ND		0.388	0.0588	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Chlorophenyl phenyl ether	ND		0.767	0.0821	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Nitroaniline	ND		0.388	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Nitrophenol	ND		0.767	0.267	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Acenaphthene	ND		0.155	0.124	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Acenaphthylene	ND		0.155	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Acetophenone	ND		0.388	0.0946	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Aniline	ND		0.767	0.0588	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Anthracene	ND		0.155	0.0898	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Azobenzene/Diphenyldiazene	ND		0.767	0.131	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzidine	ND	*- F1	1.53	0.227	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[a]anthracene	**0.0915**	**J**	0.155	0.0872	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[a]pyrene	**0.123**	**J**	0.155	0.111	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[b]fluoranthene	ND		0.155	0.129	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[g,h,i]perylene	ND		0.155	0.121	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[k]fluoranthene	ND		0.155	0.121	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzoic acid	ND	F1	0.767	0.528	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzyl alcohol	ND		0.767	0.139	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Bis(2-chloroethoxy)methane	ND		0.767	0.133	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Bis(2-chloroethyl)ether	ND		0.388	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
bis (2-chloroisopropyl) ether	ND		0.388	0.173	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Bis(2-ethylhexyl) phthalate	ND		0.388	0.0988	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Butyl benzyl phthalate	ND		0.767	0.0770	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Carbazole	ND		0.388	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Chrysene	**0.106**	**J**	0.155	0.0877	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Dibenz(a,h)anthracene	ND		0.155	0.118	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Dibenzofuran	ND		0.388	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Diethyl phthalate	ND		0.767	0.0842	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Dimethyl phthalate	ND		0.767	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Di-n-butyl phthalate	ND		0.767	0.0821	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Di-n-octyl phthalate	ND		0.767	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Fluoranthene	**0.0928**	**J**	0.155	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Fluorene	ND		0.155	0.142	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Hexachlorobenzene	ND		0.388	0.108	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Hexachlorobutadiene	ND		0.388	0.194	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1

Client Sample ID: 2023-MW-01-0406' **Lab Sample ID: 620-10051-1**
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND	F2 F1	0.388	0.148	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Hexachloroethane	ND		0.388	0.153	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Indeno[1,2,3-cd]pyrene	ND		0.155	0.132	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Isophorone	ND		0.388	0.106	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Naphthalene	ND		0.155	0.149	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Nitrobenzene	ND		0.388	0.179	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
N-Nitrosodimethylamine	ND		0.388	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
N-Nitrosodi-n-propylamine	ND		0.388	0.155	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
N-Nitrosodiphenylamine	ND		0.767	0.0979	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pentachloronitrobenzene	ND		0.767	0.121	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pentachlorophenol	ND		0.767	0.314	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Phenanthrene	**0.0968**	**J**	0.155	0.0879	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Phenol	ND		0.767	0.158	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pyrene	**0.213**		0.155	0.0856	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pyridine	ND		0.767	0.182	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
Nitrobenzene-d5 (Surr)	*53*		*30 - 130*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
Phenol-d5 (Surr)	*74*		*15 - 110*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
2,4,6-Tribromophenol (Surr)	*110*		*15 - 110*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 22:03*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.405	0.207	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.405	0.173	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Ethylbenzene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Methyl tert-butyl ether	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
m,p-Xylene	ND		0.162	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Naphthalene	**0.101**	**B**	0.0810	0.0551	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
o-Xylene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Toluene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
C5-C8 Aliphatics (unadjusted)	ND		0.405	0.207	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
C9-C10 Aromatics	ND		0.405	0.0567	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
C9-C12 Aliphatics (unadjusted)	ND		0.405	0.173	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 10:22*	*1*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 10:22*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1221	ND		0.0225	0.00666	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1232	ND		0.0225	0.00624	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1

Client Sample ID: 2023-MW-01-0406' **Lab Sample ID: 620-10051-1**
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0225	0.00356	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1248	ND		0.0225	0.00704	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1254	**0.0540**		0.0225	0.0175	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1262	ND		0.0225	0.00525	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1260	ND	F1	0.0225	0.00485	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1268	ND		0.0225	0.00480	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoroheptanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorononanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorodecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorotridecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorotetradecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorobutanesulfonic acid	ND		2.31	0.462	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorohexanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NEtFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NMeFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
10:2 FTS	ND		2.31	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoropentanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoroheptanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorononanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorodecanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctanesulfonamide	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorohexadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorobutanoic acid	ND		2.31	0.923	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoropentanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NMeFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NMeFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NEtFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NEtFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
HFPODA	ND		2.31	1.15	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
DONA	ND		3.46	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
9Cl-PF3ONS	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
11Cl-PF3OUdS	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorododecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
4:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoroundecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0406' **Lab Sample ID: 620-10051-1**
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*59*		*10 - 200*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
M2-8:2 FTS	*73*		*15 - 200*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
M2-6:2 FTS	*62*		*10 - 200*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C5 PFHxA	*76*		*10 - 174*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C4 PFHpA	*79*		*10 - 178*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C8 PFOA	*76*		*26 - 159*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C9 PFNA	*76*		*26 - 165*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C6 PFDA	*73*		*26 - 161*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C2-PFDoDA	*80*		*11 - 166*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C2 PFTeDA	*77*		*10 - 169*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C3 PFBS	*82*		*27 - 179*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C3 PFHxS	*84*		*24 - 171*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C8 PFOS	*87*		*41 - 154*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C8 FOSA	*101*		*14 - 163*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C4 PFBA	*72*		*28 - 153*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C5 PFPeA	*71*		*24 - 161*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C3 HFPO-DA	*66*		*10 - 169*	*03/03/23 07:14*	*03/14/23 23:40*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.00	1.36	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Arsenic	**2.29**	**J**	2.40	1.12	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Barium	**17.5**		0.400	0.120	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Beryllium	**0.349**	**J**	0.400	0.0801	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Cadmium	ND		0.400	0.0801	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Chromium	**7.44**		1.20	0.280	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Lead	**3.58**		1.20	0.480	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Nickel	**2.97**		0.801	0.208	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Selenium	ND		4.00	1.20	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Silver	ND	^3+	0.801	0.320	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Vanadium	**9.35**		0.801	0.344	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Zinc	**29.9**	**^5-**	1.60	0.641	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0706	0.0235	mg/Kg	☼	03/06/23 22:34	03/07/23 18:29	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0406'
Date Collected: 02/27/23 13:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-1
Matrix: Solid
Percent Solids: 85.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.0		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	85.0		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0608'
Date Collected: 02/27/23 13:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-2
Matrix: Solid
Percent Solids: 83.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0510	0.0280	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Acetone	**0.392**	**J**	0.510	0.0643	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Acrylonitrile	ND		0.0510	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Benzene	ND		0.0510	0.00816	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromobenzene	ND		0.0510	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromochloromethane	ND		0.0510	0.00729	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromodichloromethane	ND		0.0510	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromoform	ND		0.0510	0.0109	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromomethane	ND		0.102	0.0252	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2-Butanone (MEK)	ND		0.102	0.0233	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
n-Butylbenzene	ND		0.0510	0.0204	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
sec-Butylbenzene	ND		0.0510	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
tert-Butylbenzene	ND		0.0510	0.0208	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Carbon disulfide	ND		0.102	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Carbon tetrachloride	ND		0.0510	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chlorobenzene	ND		0.0510	0.00617	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chloroethane	ND		0.102	0.0227	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chloroform	ND		0.0510	0.00602	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chloromethane	ND		0.102	0.0607	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2-Chlorotoluene	ND		0.0510	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
4-Chlorotoluene	ND		0.0510	0.00923	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dibromo-3-Chloropropane	ND		0.102	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Dibromochloromethane	ND		0.0510	0.00806	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dibromoethane (EDB)	ND		0.0510	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Dibromomethane	ND		0.0510	0.00959	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dichlorobenzene	ND		0.0510	0.00918	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3-Dichlorobenzene	ND		0.0510	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,4-Dichlorobenzene	ND		0.0510	0.00913	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.102	0.0668	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1-Dichloroethane	ND		0.0510	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dichloroethane	ND		0.0510	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1-Dichloroethene	ND		0.0510	0.0131	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
cis-1,2-Dichloroethene	ND		0.0510	0.0170	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
trans-1,2-Dichloroethene	ND		0.0510	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dichloropropane	ND		0.0510	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3-Dichloropropane	ND		0.0510	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2,2-Dichloropropane	ND		0.0510	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1-Dichloropropene	ND		0.0510	0.0156	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
cis-1,3-Dichloropropene	ND		0.0510	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
trans-1,3-Dichloropropene	ND		0.0510	0.0208	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethylbenzene	ND		0.0510	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Hexachlorobutadiene	ND		0.0510	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2-Hexanone (MBK)	ND		0.102	0.0339	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Isopropylbenzene	ND		0.0510	0.0185	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
4-Isopropyltoluene	ND		0.0510	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Methyl tert-butyl ether	ND		0.0510	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.102	0.0365	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Methylene Chloride	ND		0.102	0.0436	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Naphthalene	ND		0.0510	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0608'
Date Collected: 02/27/23 13:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-2
Matrix: Solid
Percent Solids: 83.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0510	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Styrene	ND		0.0510	0.00673	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,1,2-Tetrachloroethane	ND		0.0510	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,2,2-Tetrachloroethane	ND		0.0510	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Tetrachloroethene	ND		0.0510	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Toluene	ND		0.0510	0.00821	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,3-Trichlorobenzene	ND		0.0510	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,4-Trichlorobenzene	ND		0.0510	0.00842	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3,5-Trichlorobenzene	ND		0.0510	0.00806	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,1-Trichloroethane	ND		0.0510	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,2-Trichloroethane	ND		0.0510	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Trichloroethene	ND		0.0510	0.00872	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Trichlorofluoromethane (Freon 11)	ND		0.0510	0.0231	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,3-Trichloropropane	ND		0.0510	0.0235	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,4-Trimethylbenzene	ND		0.0510	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3,5-Trimethylbenzene	ND		0.0510	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Vinyl chloride	ND		0.0510	0.0251	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
m,p-Xylene	ND		0.0510	0.0300	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
o-Xylene	ND		0.0510	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Tetrahydrofuran	ND		0.102	0.0373	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethyl ether	ND		0.0510	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Tert-amyl methyl ether	ND		0.0510	0.0282	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethyl tert-butyl ether	ND		0.0510	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
di-Isopropyl ether	ND		0.0510	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
tert-Butanol	ND		1.02	0.724	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,4-Dioxane	ND		1.02	0.300	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
trans-1,4-Dichloro-2-butene	ND		0.255	0.0337	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethanol	ND		10.2	0.877	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3-Dichloropropene, Total	ND		0.0510	0.0208	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Xylenes, Total	ND		0.153	0.153	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.393	0.0699	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,2,4-Trichlorobenzene	ND		0.393	0.0900	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,2-Dichlorobenzene	ND		0.393	0.0757	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,3-Dichlorobenzene	ND		0.393	0.0952	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,4-Dichlorobenzene	ND		0.393	0.0925	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1-Methylnaphthalene	ND		0.0794	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4,5-Trichlorophenol	ND		0.393	0.0450	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4,6-Trichlorophenol	ND		0.199	0.0486	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4-Dichlorophenol	ND		0.199	0.0792	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4-Dimethylphenol	ND		0.393	0.0576	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4-Dinitrophenol	ND		0.393	0.103	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0608'
Date Collected: 02/27/23 13:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-2
Matrix: Solid
Percent Solids: 83.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,6-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Chloronaphthalene	ND		0.393	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Chlorophenol	ND		0.199	0.0813	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Methylnaphthalene	ND		0.0794	0.0587	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Methylphenol	ND		0.393	0.0574	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Nitroaniline	ND		0.393	0.0374	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Nitrophenol	ND		0.199	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
3 & 4 Methylphenol	ND		0.393	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
3,3'-Dichlorobenzidine	ND		0.393	0.0649	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
3-Nitroaniline	ND		0.393	0.0351	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4,6-Dinitro-2-methylphenol	ND		0.393	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Bromophenyl phenyl ether	ND		0.393	0.0444	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Chloro-3-methylphenol	ND		0.393	0.0769	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Chloroaniline	ND		0.199	0.0301	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Chlorophenyl phenyl ether	ND		0.393	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Nitroaniline	ND		0.199	0.0628	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Nitrophenol	ND		0.393	0.137	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Acenaphthene	ND		0.0794	0.0634	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Acenaphthylene	ND		0.0794	0.0522	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Acetophenone	ND		0.199	0.0485	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Aniline	ND		0.393	0.0301	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Anthracene	ND		0.0794	0.0460	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Azobenzene/Diphenyldiazene	ND		0.393	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzidine	ND	*-	0.786	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[a]anthracene	ND		0.0794	0.0447	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[a]pyrene	ND		0.0794	0.0568	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[b]fluoranthene	ND		0.0794	0.0659	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[g,h,i]perylene	ND		0.0794	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[k]fluoranthene	ND		0.0794	0.0618	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzoic acid	ND		0.393	0.270	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzyl alcohol	ND		0.393	0.0712	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Bis(2-chloroethoxy)methane	ND		0.393	0.0684	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Bis(2-chloroethyl)ether	ND		0.199	0.0650	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
bis (2-chloroisopropyl) ether	ND		0.199	0.0885	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Bis(2-ethylhexyl) phthalate	ND		0.199	0.0506	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Butyl benzyl phthalate	ND		0.393	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Carbazole	ND		0.199	0.0520	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Chrysene	ND		0.0794	0.0449	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Dibenz(a,h)anthracene	ND		0.0794	0.0606	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Dibenzofuran	ND		0.199	0.0688	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Diethyl phthalate	ND		0.393	0.0431	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Dimethyl phthalate	ND		0.393	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Di-n-butyl phthalate	ND		0.393	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Di-n-octyl phthalate	ND		0.393	0.0649	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Fluoranthene	ND		0.0794	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Fluorene	ND		0.0794	0.0725	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Hexachlorobenzene	ND		0.199	0.0551	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Hexachlorobutadiene	ND		0.199	0.0992	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1

Client Sample ID: 2023-MW-01-0608' **Lab Sample ID: 620-10051-2**
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.199	0.0760	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Hexachloroethane	ND		0.199	0.0781	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Indeno[1,2,3-cd]pyrene	ND		0.0794	0.0674	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Isophorone	ND		0.199	0.0544	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Naphthalene	ND		0.0794	0.0762	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Nitrobenzene	ND		0.199	0.0918	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
N-Nitrosodimethylamine	ND		0.199	0.0522	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
N-Nitrosodi-n-propylamine	ND		0.199	0.0792	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
N-Nitrosodiphenylamine	ND		0.393	0.0501	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pentachloronitrobenzene	ND		0.393	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pentachlorophenol	**0.203**	**J B**	0.393	0.161	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Phenanthrene	ND		0.0794	0.0450	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Phenol	ND		0.393	0.0810	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pyrene	ND		0.0794	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pyridine	ND		0.393	0.0930	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
Phenol-d5 (Surr)	*87*		*15 - 110*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*15 - 110*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/03/23 08:01*	*03/08/23 13:32*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.276	0.142	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.276	0.118	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Ethylbenzene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Methyl tert-butyl ether	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Naphthalene	**0.0424**	**J B**	0.0553	0.0376	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
o-Xylene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Toluene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
C5-C8 Aliphatics (unadjusted)	ND		0.276	0.142	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
C9-C10 Aromatics	ND		0.276	0.0387	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
C9-C12 Aliphatics (unadjusted)	ND		0.276	0.118	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 12:20*	*1*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 12:20*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0235	0.0169	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1221	ND		0.0235	0.00693	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1232	ND		0.0235	0.00650	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1

Client Sample ID: 2023-MW-01-0608' **Lab Sample ID: 620-10051-2**
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0235	0.00371	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1248	ND		0.0235	0.00733	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1254	ND		0.0235	0.0183	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1262	ND		0.0235	0.00547	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1260	ND		0.0235	0.00504	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1268	ND		0.0235	0.00500	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoroheptanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorononanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorodecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorotridecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorotetradecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorobutanesulfonic acid	ND		2.36	0.472	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorohexanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NEtFOSAA	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NMeFOSAA	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
10:2 FTS	ND		2.36	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoropentanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoroheptanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorononanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorodecanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctanesulfonamide	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorohexadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorobutanoic acid	ND		2.36	0.943	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoropentanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NMeFOSE	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NMeFOSA	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NEtFOSE	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NEtFOSA	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
HFPODA	ND		2.36	1.18	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
DONA	ND		3.54	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
9Cl-PF3ONS	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
11Cl-PF3OUdS	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorododecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
4:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoroundecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0608' **Lab Sample ID: 620-10051-2**
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
8:2 Fluorotelomer sulfonic acid	ND		3.54	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
M2-8:2 FTS	*113*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C5 PFHxA	*115*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C4 PFHpA	*121*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C2 PFTeDA	*119*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C3 PFBS	*114*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C8 PFOS	*115*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d3-NMeFOSAA	*124*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d5-NEtFOSAA	*119*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C4 PFBA	*120*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C5 PFPeA	*119*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C3 HFPO-DA	*103*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:13*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.15	1.41	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Arsenic	**1.69**	**J**	2.49	1.16	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Barium	**14.3**		0.415	0.124	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Beryllium	**0.191**	**J**	0.415	0.0829	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Cadmium	ND		0.415	0.0829	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Chromium	**3.87**		1.24	0.290	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Lead	**2.50**		1.24	0.498	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Nickel	**2.19**		0.829	0.216	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Selenium	ND		4.15	1.24	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Silver	ND	^3+	0.829	0.332	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Thallium	ND		2.49	1.08	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Vanadium	**5.80**		0.829	0.357	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Zinc	**33.3**		1.66	0.663	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0666	0.0222	mg/Kg	☼	03/05/23 20:31	03/06/23 17:42	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0608'
Date Collected: 02/27/23 13:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-2
Matrix: Solid
Percent Solids: 83.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.8		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	83.2		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0476	0.0261	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Acetone	**0.121**	**J**	0.476	0.0600	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Acrylonitrile	ND		0.0476	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Benzene	ND		0.0476	0.00762	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromobenzene	ND		0.0476	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromochloromethane	ND		0.0476	0.00681	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromodichloromethane	ND		0.0476	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromoform	ND		0.0476	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromomethane	ND		0.0953	0.0235	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2-Butanone (MEK)	ND		0.0953	0.0218	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
n-Butylbenzene	ND		0.0476	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
sec-Butylbenzene	ND		0.0476	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
tert-Butylbenzene	ND		0.0476	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Carbon disulfide	ND		0.0953	0.0176	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Carbon tetrachloride	ND		0.0476	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chlorobenzene	ND		0.0476	0.00576	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chloroethane	ND		0.0953	0.0212	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chloroform	ND		0.0476	0.00562	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chloromethane	ND		0.0953	0.0567	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2-Chlorotoluene	ND		0.0476	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
4-Chlorotoluene	ND		0.0476	0.00862	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dibromo-3-Chloropropane	ND		0.0953	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Dibromochloromethane	ND		0.0476	0.00753	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dibromoethane (EDB)	ND		0.0476	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Dibromomethane	ND		0.0476	0.00896	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dichlorobenzene	ND		0.0476	0.00858	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3-Dichlorobenzene	ND		0.0476	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,4-Dichlorobenzene	ND		0.0476	0.00853	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Dichlorodifluoromethane (Freon 12)	ND		0.0953	0.0624	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1-Dichloroethane	ND		0.0476	0.0110	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dichloroethane	ND		0.0476	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1-Dichloroethene	ND		0.0476	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
cis-1,2-Dichloroethene	ND		0.0476	0.0159	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
trans-1,2-Dichloroethene	ND		0.0476	0.0109	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dichloropropane	ND		0.0476	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3-Dichloropropane	ND		0.0476	0.0151	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2,2-Dichloropropane	ND		0.0476	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1-Dichloropropene	ND		0.0476	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
cis-1,3-Dichloropropene	ND		0.0476	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
trans-1,3-Dichloropropene	ND		0.0476	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethylbenzene	ND		0.0476	0.00996	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Hexachlorobutadiene	ND		0.0476	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2-Hexanone (MBK)	ND		0.0953	0.0317	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Isopropylbenzene	ND		0.0476	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
4-Isopropyltoluene	ND		0.0476	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Methyl tert-butyl ether	ND		0.0476	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0953	0.0341	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Methylene Chloride	ND		0.0953	0.0407	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Naphthalene	ND		0.0476	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1

Client Sample ID: 2023-MW-01-0810' **Lab Sample ID: 620-10051-3**
Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0476	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Styrene	ND		0.0476	0.00629	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,1,2-Tetrachloroethane	ND		0.0476	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,2,2-Tetrachloroethane	ND		0.0476	0.0151	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Tetrachloroethene	ND		0.0476	0.0150	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Toluene	ND		0.0476	0.00767	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,3-Trichlorobenzene	ND		0.0476	0.0111	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,4-Trichlorobenzene	ND		0.0476	0.00786	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3,5-Trichlorobenzene	ND		0.0476	0.00753	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,1-Trichloroethane	ND		0.0476	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,2-Trichloroethane	ND		0.0476	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Trichloroethene	ND		0.0476	0.00815	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Trichlorofluoromethane (Freon 11)	ND		0.0476	0.0215	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,3-Trichloropropane	ND		0.0476	0.0220	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,4-Trimethylbenzene	ND		0.0476	0.0121	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3,5-Trimethylbenzene	ND		0.0476	0.00996	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Vinyl chloride	ND		0.0476	0.0234	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
m,p-Xylene	ND		0.0476	0.0280	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
o-Xylene	ND		0.0476	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Tetrahydrofuran	ND		0.0953	0.0348	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethyl ether	ND		0.0476	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Tert-amyl methyl ether	ND		0.0476	0.0263	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethyl tert-butyl ether	ND		0.0476	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
di-Isopropyl ether	ND		0.0476	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
tert-Butanol	ND		0.953	0.677	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,4-Dioxane	ND		0.953	0.281	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
trans-1,4-Dichloro-2-butene	ND		0.238	0.0314	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethanol	ND		9.53	0.819	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3-Dichloropropene, Total	ND		0.0476	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Xylenes, Total	ND		0.143	0.143	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.398	0.0708	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,2,4-Trichlorobenzene	ND		0.398	0.0912	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,2-Dichlorobenzene	ND		0.398	0.0767	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,3-Dichlorobenzene	ND		0.398	0.0964	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,4-Dichlorobenzene	ND		0.398	0.0937	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1-Methylnaphthalene	ND		0.0805	0.0676	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4,5-Trichlorophenol	ND		0.398	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4,6-Trichlorophenol	ND		0.201	0.0492	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4-Dichlorophenol	ND		0.201	0.0802	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4-Dimethylphenol	ND		0.398	0.0584	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4-Dinitrophenol	ND		0.398	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0472	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,6-Dinitrotoluene	ND		0.201	0.0472	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Chloronaphthalene	ND		0.398	0.0921	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Chlorophenol	ND		0.201	0.0824	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Methylnaphthalene	ND		0.0805	0.0595	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Methylphenol	ND		0.398	0.0582	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Nitroaniline	ND		0.398	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Nitrophenol	ND		0.201	0.0715	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
3 & 4 Methylphenol	ND		0.398	0.0754	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
3,3'-Dichlorobenzidine	ND		0.398	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
3-Nitroaniline	ND		0.398	0.0356	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4,6-Dinitro-2-methylphenol	ND		0.398	0.0715	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Bromophenyl phenyl ether	ND		0.398	0.0450	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Chloro-3-methylphenol	ND		0.398	0.0779	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Chloroaniline	ND		0.201	0.0305	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Chlorophenyl phenyl ether	ND		0.398	0.0426	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Nitroaniline	ND		0.201	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Nitrophenol	ND		0.398	0.139	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Acenaphthene	ND		0.0805	0.0642	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Acenaphthylene	ND		0.0805	0.0528	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Acetophenone	ND		0.201	0.0491	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Aniline	ND		0.398	0.0305	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Anthracene	ND		0.0805	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Azobenzene/Diphenyldiazene	ND		0.398	0.0679	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzidine	ND	*-	0.796	0.118	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[a]anthracene	ND		0.0805	0.0452	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[a]pyrene	ND		0.0805	0.0575	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[b]fluoranthene	ND		0.0805	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[g,h,i]perylene	ND		0.0805	0.0629	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[k]fluoranthene	ND		0.0805	0.0626	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzoic acid	ND		0.398	0.274	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzyl alcohol	ND		0.398	0.0721	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Bis(2-chloroethoxy)methane	ND		0.398	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Bis(2-chloroethyl)ether	ND		0.201	0.0659	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0896	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0513	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Butyl benzyl phthalate	ND		0.398	0.0399	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Carbazole	ND		0.201	0.0527	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Chrysene	ND		0.0805	0.0455	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Dibenz(a,h)anthracene	ND		0.0805	0.0614	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Dibenzofuran	ND		0.201	0.0697	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Diethyl phthalate	ND		0.398	0.0437	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Dimethyl phthalate	ND		0.398	0.0519	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Di-n-butyl phthalate	ND		0.398	0.0426	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Di-n-octyl phthalate	ND		0.398	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Fluoranthene	ND		0.0805	0.0472	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Fluorene	ND		0.0805	0.0735	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Hexachlorobenzene	ND		0.201	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1

Client Sample ID: 2023-MW-01-0810' **Lab Sample ID: 620-10051-3**
Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0770	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Hexachloroethane	ND		0.201	0.0791	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Indeno[1,2,3-cd]pyrene	ND		0.0805	0.0683	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Isophorone	ND		0.201	0.0551	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Naphthalene	ND		0.0805	0.0772	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Nitrobenzene	ND		0.201	0.0930	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
N-Nitrosodimethylamine	ND		0.201	0.0528	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0802	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
N-Nitrosodiphenylamine	ND		0.398	0.0508	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pentachloronitrobenzene	ND		0.398	0.0629	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pentachlorophenol	ND		0.398	0.163	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Phenanthrene	ND		0.0805	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Phenol	ND		0.398	0.0820	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pyrene	ND		0.0805	0.0444	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pyridine	ND		0.398	0.0942	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
Phenol-d5 (Surr)	*79*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:00*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.251	0.128	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.251	0.107	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Ethylbenzene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Methyl tert-butyl ether	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Naphthalene	ND		0.0502	0.0341	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
o-Xylene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Toluene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
C5-C8 Aliphatics (unadjusted)	ND		0.251	0.128	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
C9-C10 Aromatics	ND		0.251	0.0351	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
C9-C12 Aliphatics (unadjusted)	ND		0.251	0.107	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:00*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:00*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0243	0.0175	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1221	ND		0.0243	0.00718	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1232	ND		0.0243	0.00673	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0243	0.00384	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1248	ND		0.0243	0.00760	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1254	ND		0.0243	0.0189	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1262	ND		0.0243	0.00566	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1260	ND		0.0243	0.00523	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1268	ND		0.0243	0.00518	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoroheptanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorononanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorodecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorotridecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorotetradecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorobutanesulfonic acid	ND		2.41	0.482	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorohexanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NEtFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NMeFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
10:2 FTS	ND		2.41	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoropentanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoroheptanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorononanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorodecanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctanesulfonamide	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorohexadecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctadecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorobutanoic acid	ND		2.41	0.965	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoropentanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NMeFOSE	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NMeFOSA	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NEtFOSE	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NEtFOSA	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
HFPODA	ND		2.41	1.21	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
DONA	ND		3.62	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
9Cl-PF3ONS	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
11Cl-PF3OUdS	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorododecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
4:2 Fluorotelomer sulfonic acid	ND		2.41	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoroundecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1

Client Sample ID: 2023-MW-01-0810' **Lab Sample ID: 620-10051-3**
Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.41	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
8:2 Fluorotelomer sulfonic acid	ND		3.62	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*96*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
M2-8:2 FTS	*115*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C5 PFHxA	*109*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C8 PFOA	*106*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C9 PFNA	*106*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C2 PFTeDA	*107*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C3 PFBS	*103*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d3-NMeFOSAA	*117*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d5-NEtFOSAA	*118*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d7-N-MeFOSE-M	*100*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d9-N-EtFOSE-M	*99*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d5-NEtPFOSA	*100*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C3 HFPO-DA	*99*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.54	1.88	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Arsenic	**2.13**	**J**	3.33	1.55	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Barium	**25.0**		0.554	0.166	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Beryllium	**0.296**	**J**	0.554	0.111	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Cadmium	ND		0.554	0.111	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Chromium	**5.75**		1.66	0.388	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Lead	**2.51**		1.66	0.665	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Nickel	**3.28**		1.11	0.288	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Selenium	ND		5.54	1.66	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Silver	ND	^3+	1.11	0.443	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Thallium	ND		3.33	1.44	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Vanadium	**8.72**		1.11	0.477	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Zinc	**12.8**		2.22	0.887	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0738	0.0246	mg/Kg	☼	03/05/23 20:11	03/06/23 13:03	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	81.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-1012'
Date Collected: 02/27/23 13:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-4
Matrix: Solid
Percent Solids: 85.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0463	0.0254	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Acetone	**0.0913**	**J**	0.463	0.0583	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Acrylonitrile	ND		0.0463	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Benzene	ND		0.0463	0.00741	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromobenzene	ND		0.0463	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromochloromethane	ND		0.0463	0.00662	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromodichloromethane	ND		0.0463	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromoform	ND		0.0463	0.00990	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromomethane	ND		0.0926	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2-Butanone (MEK)	ND		0.0926	0.0212	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
n-Butylbenzene	ND		0.0463	0.0185	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
sec-Butylbenzene	ND		0.0463	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
tert-Butylbenzene	ND		0.0463	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Carbon disulfide	ND		0.0926	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Carbon tetrachloride	ND		0.0463	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chlorobenzene	ND		0.0463	0.00560	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chloroethane	ND		0.0926	0.0206	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chloroform	ND		0.0463	0.00546	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chloromethane	ND		0.0926	0.0551	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2-Chlorotoluene	ND		0.0463	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
4-Chlorotoluene	ND		0.0463	0.00838	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dibromo-3-Chloropropane	ND		0.0926	0.0183	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Dibromochloromethane	ND		0.0463	0.00731	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dibromoethane (EDB)	ND		0.0463	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Dibromomethane	ND		0.0463	0.00870	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dichlorobenzene	ND		0.0463	0.00833	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3-Dichlorobenzene	ND		0.0463	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,4-Dichlorobenzene	ND		0.0463	0.00828	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Dichlorodifluoromethane (Freon 12)	ND		0.0926	0.0606	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1-Dichloroethane	ND		0.0463	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dichloroethane	ND		0.0463	0.0121	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1-Dichloroethene	ND		0.0463	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
cis-1,2-Dichloroethene	ND		0.0463	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
trans-1,2-Dichloroethene	ND		0.0463	0.0106	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dichloropropane	ND		0.0463	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3-Dichloropropane	ND		0.0463	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2,2-Dichloropropane	ND		0.0463	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1-Dichloropropene	ND		0.0463	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
cis-1,3-Dichloropropene	ND		0.0463	0.0109	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
trans-1,3-Dichloropropene	ND		0.0463	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethylbenzene	ND		0.0463	0.00967	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Hexachlorobutadiene	ND		0.0463	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2-Hexanone (MBK)	ND		0.0926	0.0308	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Isopropylbenzene	ND		0.0463	0.0168	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
4-Isopropyltoluene	ND		0.0463	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Methyl tert-butyl ether	ND		0.0463	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		0.0926	0.0331	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Methylene Chloride	ND		0.0926	0.0395	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Naphthalene	ND		0.0463	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0463	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Styrene	ND		0.0463	0.00611	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,1,2-Tetrachloroethane	ND		0.0463	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,2,2-Tetrachloroethane	ND		0.0463	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Tetrachloroethene	ND		0.0463	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Toluene	ND		0.0463	0.00745	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,3-Trichlorobenzene	ND		0.0463	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,4-Trichlorobenzene	ND		0.0463	0.00764	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3,5-Trichlorobenzene	ND		0.0463	0.00731	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,1-Trichloroethane	ND		0.0463	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,2-Trichloroethane	ND		0.0463	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Trichloroethene	ND		0.0463	0.00791	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Trichlorofluoromethane (Freon 11)	ND		0.0463	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,3-Trichloropropane	ND		0.0463	0.0213	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,4-Trimethylbenzene	ND		0.0463	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3,5-Trimethylbenzene	ND		0.0463	0.00967	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Vinyl chloride	ND		0.0463	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
m,p-Xylene	ND		0.0463	0.0272	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
o-Xylene	ND		0.0463	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Tetrahydrofuran	ND		0.0926	0.0338	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethyl ether	ND		0.0463	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Tert-amyl methyl ether	ND		0.0463	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethyl tert-butyl ether	ND		0.0463	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
di-Isopropyl ether	ND		0.0463	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
tert-Butanol	ND		0.926	0.657	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,4-Dioxane	ND		0.926	0.273	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
trans-1,4-Dichloro-2-butene	ND		0.231	0.0305	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethanol	ND		9.26	0.796	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3-Dichloropropene, Total	ND		0.0463	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Xylenes, Total	ND		0.139	0.139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.757	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,2,4-Trichlorobenzene	ND		0.757	0.173	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,2-Dichlorobenzene	ND		0.757	0.146	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,3-Dichlorobenzene	ND		0.757	0.183	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,4-Dichlorobenzene	ND		0.757	0.178	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1-Methylnaphthalene	ND		0.153	0.128	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4,5-Trichlorophenol	ND		0.757	0.0867	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4,6-Trichlorophenol	ND		0.383	0.0936	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4-Dichlorophenol	ND		0.383	0.152	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4-Dimethylphenol	ND		0.757	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4-Dinitrophenol	ND		0.757	0.199	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-1012'
Date Collected: 02/27/23 13:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-4
Matrix: Solid
Percent Solids: 85.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.383	0.0897	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,6-Dinitrotoluene	ND		0.383	0.0897	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Chloronaphthalene	ND		0.757	0.175	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Chlorophenol	ND		0.383	0.157	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Methylnaphthalene	ND		0.153	0.113	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Methylphenol	ND		0.757	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Nitroaniline	ND		0.757	0.0720	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Nitrophenol	ND		0.383	0.136	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
3 & 4 Methylphenol	ND		0.757	0.143	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
3,3'-Dichlorobenzidine	ND		0.757	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
3-Nitroaniline	ND		0.757	0.0676	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4,6-Dinitro-2-methylphenol	ND		0.757	0.136	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Bromophenyl phenyl ether	ND		0.757	0.0855	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Chloro-3-methylphenol	ND		0.757	0.148	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Chloroaniline	ND		0.383	0.0580	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Chlorophenyl phenyl ether	ND		0.757	0.0809	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Nitroaniline	ND		0.383	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Nitrophenol	ND		0.757	0.264	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Acenaphthene	ND		0.153	0.122	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Acenaphthylene	ND		0.153	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Acetophenone	ND		0.383	0.0933	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Aniline	ND		0.757	0.0580	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Anthracene	ND		0.153	0.0885	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Azobenzene/Diphenyldiazene	ND		0.757	0.129	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzidine	ND	*-	1.51	0.224	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[a]anthracene	ND		0.153	0.0860	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[a]pyrene	ND		0.153	0.109	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[b]fluoranthene	ND		0.153	0.127	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[g,h,i]perylene	ND		0.153	0.119	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[k]fluoranthene	ND		0.153	0.119	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzoic acid	ND		0.757	0.521	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzyl alcohol	ND		0.757	0.137	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Bis(2-chloroethoxy)methane	ND		0.757	0.132	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Bis(2-chloroethyl)ether	ND		0.383	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
bis (2-chloroisopropyl) ether	ND		0.383	0.170	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Bis(2-ethylhexyl) phthalate	ND		0.383	0.0975	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Butyl benzyl phthalate	ND		0.757	0.0759	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Carbazole	ND		0.383	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Chrysene	ND		0.153	0.0864	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Dibenz(a,h)anthracene	ND		0.153	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Dibenzofuran	ND		0.383	0.133	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Diethyl phthalate	ND		0.757	0.0830	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Dimethyl phthalate	ND		0.757	0.0986	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Di-n-butyl phthalate	ND		0.757	0.0809	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Di-n-octyl phthalate	ND		0.757	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Fluoranthene	ND		0.153	0.0897	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Fluorene	ND		0.153	0.140	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Hexachlorobenzene	ND		0.383	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Hexachlorobutadiene	ND		0.383	0.191	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.383	0.146	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Hexachloroethane	ND		0.383	0.150	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Indeno[1,2,3-cd]pyrene	ND		0.153	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Isophorone	ND		0.383	0.105	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Naphthalene	ND		0.153	0.147	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Nitrobenzene	ND		0.383	0.177	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
N-Nitrosodimethylamine	ND		0.383	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
N-Nitrosodi-n-propylamine	ND		0.383	0.152	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
N-Nitrosodiphenylamine	ND		0.757	0.0965	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pentachloronitrobenzene	ND		0.757	0.119	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pentachlorophenol	ND		0.757	0.310	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Phenanthrene	ND		0.153	0.0867	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Phenol	ND		0.757	0.156	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pyrene	ND		0.153	0.0844	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pyridine	ND		0.757	0.179	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
Nitrobenzene-d5 (Surr)	*49*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
Terphenyl-d14	*63*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:46*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.770	0.394	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.770	0.329	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Ethylbenzene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Methyl tert-butyl ether	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
m,p-Xylene	ND		0.308	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Naphthalene	ND		0.154	0.105	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
o-Xylene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Toluene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.770	0.394	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
C9-C10 Aromatics	ND		0.770	0.108	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
C9-C12 Aliphatics (unadjusted)	ND		0.770	0.329	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:39*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0233	0.0168	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1221	ND		0.0233	0.00688	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1232	ND		0.0233	0.00645	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0233	0.00368	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1248	ND		0.0233	0.00728	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1254	**0.0199**	**J**	0.0233	0.0181	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1262	ND		0.0233	0.00542	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1260	ND		0.0233	0.00501	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1268	ND		0.0233	0.00496	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*
Tetrachloro-m-xylene	*64*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoroheptanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorononanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorodecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorotridecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorotetradecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorobutanesulfonic acid	ND		2.29	0.457	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorohexanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
10:2 FTS	ND		2.29	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoropentanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoroheptanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorononanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorodecanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctanesulfonamide	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorohexadecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctadecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorobutanoic acid	ND		2.29	0.914	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoropentanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NMeFOSE	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NMeFOSA	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NEtFOSE	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NEtFOSA	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
HFPODA	ND		2.29	1.14	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
DONA	ND		3.43	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
11Cl-PF3OUdS	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorododecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoroundecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.43	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
M2-8:2 FTS	*124*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
M2-6:2 FTS	*117*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C5 PFHxA	*123*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C4 PFHpA	*124*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C8 PFOA	*125*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C9 PFNA	*120*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C2-PFDoDA	*123*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C3 PFBS	*121*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C3 PFHxS	*121*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C8 PFOS	*120*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d3-NMeFOSAA	*130*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d5-NEtFOSAA	*133*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C8 FOSA	*125*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C4 PFBA	*123*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C5 PFPeA	*126*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d3-NMePFOSA	*111*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d9-N-EtFOSE-M	*111*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d5-NEtPFOSA	*113*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C3 HFPO-DA	*123*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.60	1.56	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Arsenic	**1.48**	**J**	2.76	1.29	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Barium	**14.8**		0.460	0.138	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Beryllium	**0.185**	**J**	0.460	0.0920	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Cadmium	ND		0.460	0.0920	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Chromium	**8.48**		1.38	0.322	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Lead	**1.80**		1.38	0.552	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Nickel	**2.53**		0.920	0.239	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Selenium	ND		4.60	1.38	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Silver	ND	^3+	0.920	0.368	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Thallium	ND		2.76	1.20	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Vanadium	**5.11**		0.920	0.395	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Zinc	**17.1**	**^5-**	1.84	0.736	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0652	0.0217	mg/Kg	☼	03/05/23 20:11	03/06/23 13:05	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-1012'
Date Collected: 02/27/23 13:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-4
Matrix: Solid
Percent Solids: 85.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.0		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	85.0		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0559	0.0307	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Acetone	ND		0.559	0.0705	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Acrylonitrile	ND		0.0559	0.0202	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Benzene	ND		0.0559	0.00895	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromobenzene	ND		0.0559	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromochloromethane	ND		0.0559	0.00800	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromodichloromethane	ND		0.0559	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromoform	ND		0.0559	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromomethane	ND		0.112	0.0276	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2-Butanone (MEK)	ND		0.112	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
n-Butylbenzene	ND		0.0559	0.0224	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
sec-Butylbenzene	ND		0.0559	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
tert-Butylbenzene	ND		0.0559	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Carbon disulfide	ND		0.112	0.0207	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Carbon tetrachloride	ND		0.0559	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chlorobenzene	ND		0.0559	0.00677	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chloroethane	ND		0.112	0.0250	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chloroform	ND		0.0559	0.00660	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chloromethane	ND		0.112	0.0666	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2-Chlorotoluene	ND		0.0559	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
4-Chlorotoluene	ND		0.0559	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dibromo-3-Chloropropane	ND		0.112	0.0221	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Dibromochloromethane	ND		0.0559	0.00884	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dibromoethane (EDB)	ND		0.0559	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Dibromomethane	ND		0.0559	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dichlorobenzene	ND		0.0559	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3-Dichlorobenzene	ND		0.0559	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,4-Dichlorobenzene	ND		0.0559	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Dichlorodifluoromethane (Freon 12)	ND		0.112	0.0733	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1-Dichloroethane	ND		0.0559	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dichloroethane	ND		0.0559	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1-Dichloroethene	ND		0.0559	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
cis-1,2-Dichloroethene	ND		0.0559	0.0186	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
trans-1,2-Dichloroethene	ND		0.0559	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dichloropropane	ND		0.0559	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3-Dichloropropane	ND		0.0559	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2,2-Dichloropropane	ND		0.0559	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1-Dichloropropene	ND		0.0559	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
cis-1,3-Dichloropropene	ND		0.0559	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
trans-1,3-Dichloropropene	ND		0.0559	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethylbenzene	ND		0.0559	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Hexachlorobutadiene	ND		0.0559	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2-Hexanone (MBK)	ND		0.112	0.0372	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Isopropylbenzene	ND		0.0559	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
4-Isopropyltoluene	ND		0.0559	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Methyl tert-butyl ether	ND		0.0559	0.0168	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.112	0.0401	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Methylene Chloride	ND		0.112	0.0478	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Naphthalene	ND		0.0559	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0559	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Styrene	ND		0.0559	0.00738	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,1,2-Tetrachloroethane	ND		0.0559	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,2,2-Tetrachloroethane	ND		0.0559	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Tetrachloroethene	ND		0.0559	0.0176	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Toluene	ND		0.0559	0.00901	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,3-Trichlorobenzene	ND		0.0559	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,4-Trichlorobenzene	ND		0.0559	0.00923	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3,5-Trichlorobenzene	ND		0.0559	0.00884	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,1-Trichloroethane	ND		0.0559	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,2-Trichloroethane	ND		0.0559	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Trichloroethene	ND		0.0559	0.00957	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Trichlorofluoromethane (Freon 11)	ND		0.0559	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,3-Trichloropropane	ND		0.0559	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,4-Trimethylbenzene	ND		0.0559	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3,5-Trimethylbenzene	ND		0.0559	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Vinyl chloride	ND		0.0559	0.0275	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
m,p-Xylene	ND		0.0559	0.0329	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
o-Xylene	ND		0.0559	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Tetrahydrofuran	ND		0.112	0.0409	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethyl ether	ND		0.0559	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Tert-amyl methyl ether	ND		0.0559	0.0309	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethyl tert-butyl ether	ND		0.0559	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
di-Isopropyl ether	ND		0.0559	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
tert-Butanol	ND		1.12	0.794	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,4-Dioxane	ND		1.12	0.330	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
trans-1,4-Dichloro-2-butene	ND		0.280	0.0369	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethanol	ND		11.2	0.962	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3-Dichloropropene, Total	ND		0.0559	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Xylenes, Total	ND		0.168	0.168	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.672	0.120	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,2,4-Trichlorobenzene	ND		0.672	0.154	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,2-Dichlorobenzene	ND		0.672	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,3-Dichlorobenzene	ND		0.672	0.163	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,4-Dichlorobenzene	ND		0.672	0.158	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1-Methylnaphthalene	ND		0.136	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4,5-Trichlorophenol	ND		0.672	0.0770	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4,6-Trichlorophenol	ND		0.340	0.0831	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4-Dichlorophenol	ND		0.340	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4-Dimethylphenol	ND		0.672	0.0986	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4-Dinitrophenol	ND		0.672	0.177	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.340	0.0797	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,6-Dinitrotoluene	ND		0.340	0.0797	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Chloronaphthalene	ND		0.672	0.155	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Chlorophenol	ND		0.340	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Methylnaphthalene	ND		0.136	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Methylphenol	ND		0.672	0.0982	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Nitroaniline	ND		0.672	0.0640	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Nitrophenol	ND		0.340	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
3 & 4 Methylphenol	ND		0.672	0.127	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
3,3'-Dichlorobenzidine	ND		0.672	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
3-Nitroaniline	ND		0.672	0.0601	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4,6-Dinitro-2-methylphenol	ND		0.672	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Bromophenyl phenyl ether	ND		0.672	0.0760	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Chloro-3-methylphenol	ND		0.672	0.132	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Chloroaniline	ND		0.340	0.0515	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Chlorophenyl phenyl ether	ND		0.672	0.0719	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Nitroaniline	ND		0.340	0.107	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Nitrophenol	ND		0.672	0.234	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Acenaphthene	ND		0.136	0.108	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Acenaphthylene	ND		0.136	0.0892	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Acetophenone	ND		0.340	0.0829	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Aniline	ND		0.672	0.0515	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Anthracene	ND		0.136	0.0786	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Azobenzene/Diphenyldiazene	ND		0.672	0.115	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzidine	ND	*-	1.34	0.199	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[a]anthracene	ND		0.136	0.0764	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[a]pyrene	ND		0.136	0.0972	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[b]fluoranthene	ND		0.136	0.113	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[g,h,i]perylene	ND		0.136	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[k]fluoranthene	ND		0.136	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzoic acid	ND		0.672	0.463	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzyl alcohol	ND		0.672	0.122	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Bis(2-chloroethoxy)methane	ND		0.672	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Bis(2-chloroethyl)ether	ND		0.340	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
bis (2-chloroisopropyl) ether	ND		0.340	0.151	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Bis(2-ethylhexyl) phthalate	ND		0.340	0.0866	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Butyl benzyl phthalate	ND		0.672	0.0674	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Carbazole	ND		0.340	0.0890	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Chrysene	**0.0827**	**J**	0.136	0.0768	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Dibenz(a,h)anthracene	ND		0.136	0.104	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Dibenzofuran	ND		0.340	0.118	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Diethyl phthalate	ND		0.672	0.0738	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Dimethyl phthalate	ND		0.672	0.0876	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Di-n-butyl phthalate	ND		0.672	0.0719	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Di-n-octyl phthalate	ND		0.672	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Fluoranthene	**0.187**		0.136	0.0797	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Fluorene	ND		0.136	0.124	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Hexachlorobenzene	ND		0.340	0.0943	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Hexachlorobutadiene	ND		0.340	0.170	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1

Client Sample ID: 2023-MW-02-0002' Lab Sample ID: 620-10051-5

Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.340	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Hexachloroethane	ND		0.340	0.134	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Indeno[1,2,3-cd]pyrene	ND		0.136	0.115	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Isophorone	ND		0.340	0.0931	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Naphthalene	ND		0.136	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Nitrobenzene	ND		0.340	0.157	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
N-Nitrosodimethylamine	ND		0.340	0.0892	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
N-Nitrosodi-n-propylamine	ND		0.340	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
N-Nitrosodiphenylamine	ND		0.672	0.0858	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pentachloronitrobenzene	ND		0.672	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pentachlorophenol	ND		0.672	0.275	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Phenanthrene	**0.167**		0.136	0.0770	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Phenol	ND		0.672	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pyrene	**0.203**		0.136	0.0750	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pyridine	ND		0.672	0.159	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
2-Fluorophenol (Surr)	*83*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
Nitrobenzene-d5 (Surr)	*53*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
2,4,6-Tribromophenol (Surr)	*96*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.737	0.378	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.737	0.316	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Ethylbenzene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Methyl tert-butyl ether	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
m,p-Xylene	ND		0.295	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Naphthalene	ND		0.147	0.100	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
o-Xylene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Toluene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
C5-C8 Aliphatics (unadjusted)	ND		0.737	0.378	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
C9-C10 Aromatics	ND		0.737	0.103	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
C9-C12 Aliphatics (unadjusted)	ND		0.737	0.316	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 14:19*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 14:19*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0147	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1221	ND		0.0205	0.00604	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1232	ND		0.0205	0.00567	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1

Client Sample ID: 2023-MW-02-0002' **Lab Sample ID: 620-10051-5**
Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00323	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1248	ND		0.0205	0.00639	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1254	**0.0309**		0.0205	0.0159	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1262	ND		0.0205	0.00477	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1260	**0.0144**	**J**	0.0205	0.00440	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1268	ND		0.0205	0.00436	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoroheptanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorononanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorodecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorotridecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorotetradecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorobutanesulfonic acid	ND		2.06	0.411	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorohexanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NEtFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NMeFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
10:2 FTS	ND		2.06	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoropentanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoroheptanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorononanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorodecanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctanesulfonamide	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorohexadecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctadecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorobutanoic acid	ND		2.06	0.822	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoropentanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NMeFOSE	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NMeFOSA	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NEtFOSE	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NEtFOSA	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
HFPODA	ND		2.06	1.03	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
DONA	ND		3.08	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
9Cl-PF3ONS	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
11Cl-PF3OUdS	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorododecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.06	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoroundecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1

Client Sample ID: 2023-MW-02-0002' **Lab Sample ID: 620-10051-5**
Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.06	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C5 PFHxA	*85*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C4 PFHpA	*85*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C8 PFOA	*87*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C9 PFNA	*98*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C6 PFDA	*91*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C7 PFUnA	*90*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C2-PFDoDA	*90*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C3 PFBS	*92*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C3 PFHxS	*95*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d5-NEtFOSAA	*20*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C8 FOSA	*92*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C4 PFBA	*78*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C5 PFPeA	*84*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d3-NMePFOSA	*77*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d9-N-EtFOSE-M	*85*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d5-NEtPFOSA	*79*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C3 HFPO-DA	*80*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.76	1.62	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Arsenic	**4.78**		2.86	1.33	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Barium	**39.3**		0.476	0.143	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Beryllium	**0.397**	**J**	0.476	0.0952	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Cadmium	ND		0.476	0.0952	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Chromium	**12.0**		1.43	0.333	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Lead	**6.28**		1.43	0.571	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Nickel	**5.07**		0.952	0.248	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Selenium	ND		4.76	1.43	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Silver	ND	^3+	0.952	0.381	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Thallium	ND		2.86	1.24	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Vanadium	**19.3**		0.952	0.410	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Zinc	**22.7**		1.90	0.762	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0575	0.0192	mg/Kg	☼	03/05/23 20:11	03/06/23 13:07	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	96.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0204'
Lab Sample ID: 620-10051-6
Date Collected: 02/27/23 15:05
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 84.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0498	0.0273	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Acetone	ND		0.498	0.0627	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Acrylonitrile	ND		0.0498	0.0180	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Benzene	ND		0.0498	0.00796	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromobenzene	ND		0.0498	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromochloromethane	ND		0.0498	0.00712	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromodichloromethane	ND		0.0498	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromoform	ND		0.0498	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromomethane	ND		0.0995	0.0246	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2-Butanone (MEK)	ND		0.0995	0.0227	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
n-Butylbenzene	ND		0.0498	0.0199	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
sec-Butylbenzene	ND		0.0498	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
tert-Butylbenzene	ND		0.0498	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Carbon disulfide	ND		0.0995	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Carbon tetrachloride	ND		0.0498	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chlorobenzene	ND		0.0498	0.00602	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chloroethane	ND		0.0995	0.0222	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chloroform	ND		0.0498	0.00587	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chloromethane	ND		0.0995	0.0592	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2-Chlorotoluene	ND		0.0498	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
4-Chlorotoluene	ND		0.0498	0.00901	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dibromo-3-Chloropropane	ND		0.0995	0.0197	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Dibromochloromethane	ND		0.0498	0.00786	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dibromoethane (EDB)	ND		0.0498	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Dibromomethane	ND		0.0498	0.00936	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dichlorobenzene	ND		0.0498	0.00896	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3-Dichlorobenzene	ND		0.0498	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,4-Dichlorobenzene	ND		0.0498	0.00891	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Dichlorodifluoromethane (Freon 12)	ND		0.0995	0.0652	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1-Dichloroethane	ND		0.0498	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dichloroethane	ND		0.0498	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1-Dichloroethene	ND		0.0498	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
cis-1,2-Dichloroethene	ND		0.0498	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
trans-1,2-Dichloroethene	ND		0.0498	0.0113	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dichloropropane	ND		0.0498	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3-Dichloropropane	ND		0.0498	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2,2-Dichloropropane	ND		0.0498	0.0131	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1-Dichloropropene	ND		0.0498	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
cis-1,3-Dichloropropene	ND		0.0498	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
trans-1,3-Dichloropropene	ND		0.0498	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethylbenzene	ND		0.0498	0.0104	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Hexachlorobutadiene	ND		0.0498	0.0159	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2-Hexanone (MBK)	ND		0.0995	0.0331	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Isopropylbenzene	ND		0.0498	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
4-Isopropyltoluene	ND		0.0498	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Methyl tert-butyl ether	ND		0.0498	0.0150	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.0995	0.0356	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Methylene Chloride	ND		0.0995	0.0425	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Naphthalene	ND		0.0498	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0204'
Date Collected: 02/27/23 15:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-6
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0498	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Styrene	ND		0.0498	0.00657	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,1,2-Tetrachloroethane	ND		0.0498	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,2,2-Tetrachloroethane	ND		0.0498	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Tetrachloroethene	ND		0.0498	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Toluene	ND		0.0498	0.00801	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,3-Trichlorobenzene	ND		0.0498	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,4-Trichlorobenzene	ND		0.0498	0.00821	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3,5-Trichlorobenzene	ND		0.0498	0.00786	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,1-Trichloroethane	ND		0.0498	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,2-Trichloroethane	ND		0.0498	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Trichloroethene	ND		0.0498	0.00851	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Trichlorofluoromethane (Freon 11)	ND		0.0498	0.0225	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,3-Trichloropropane	ND		0.0498	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,4-Trimethylbenzene	ND		0.0498	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3,5-Trimethylbenzene	ND		0.0498	0.0104	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Vinyl chloride	ND		0.0498	0.0245	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
m,p-Xylene	ND		0.0498	0.0293	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
o-Xylene	ND		0.0498	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Tetrahydrofuran	ND		0.0995	0.0364	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethyl ether	ND		0.0498	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Tert-amyl methyl ether	ND		0.0498	0.0275	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethyl tert-butyl ether	ND		0.0498	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
di-Isopropyl ether	ND		0.0498	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
tert-Butanol	ND		0.995	0.707	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,4-Dioxane	ND		0.995	0.293	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
trans-1,4-Dichloro-2-butene	ND		0.249	0.0329	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethanol	ND		9.95	0.856	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3-Dichloropropene, Total	ND		0.0498	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Xylenes, Total	ND		0.149	0.149	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.385	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,2,4-Trichlorobenzene	ND		0.385	0.0883	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,2-Dichlorobenzene	ND		0.385	0.0742	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,3-Dichlorobenzene	ND		0.385	0.0933	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,4-Dichlorobenzene	ND		0.385	0.0907	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1-Methylnaphthalene	ND		0.0779	0.0654	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4,5-Trichlorophenol	ND		0.385	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4,6-Trichlorophenol	ND		0.195	0.0476	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4-Dichlorophenol	ND		0.195	0.0776	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4-Dimethylphenol	ND		0.385	0.0565	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4-Dinitrophenol	ND		0.385	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0204'
Date Collected: 02/27/23 15:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-6
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.195	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,6-Dinitrotoluene	ND		0.195	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Chloronaphthalene	ND		0.385	0.0891	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Chlorophenol	ND		0.195	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Methylnaphthalene	ND		0.0779	0.0576	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Methylphenol	ND		0.385	0.0563	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Nitroaniline	ND		0.385	0.0367	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Nitrophenol	ND		0.195	0.0692	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
3 & 4 Methylphenol	ND		0.385	0.0730	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
3,3'-Dichlorobenzidine	ND		0.385	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
3-Nitroaniline	ND		0.385	0.0344	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4,6-Dinitro-2-methylphenol	ND		0.385	0.0692	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Bromophenyl phenyl ether	ND		0.385	0.0435	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Chloro-3-methylphenol	ND		0.385	0.0754	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Chloroaniline	ND		0.195	0.0295	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Chlorophenyl phenyl ether	ND		0.385	0.0412	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Nitroaniline	ND		0.195	0.0615	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Nitrophenol	ND		0.385	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Acenaphthene	ND		0.0779	0.0621	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Acenaphthylene	ND		0.0779	0.0511	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Acetophenone	ND		0.195	0.0475	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Aniline	ND		0.385	0.0295	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Anthracene	ND		0.0779	0.0451	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Azobenzene/Diphenyldiazene	ND		0.385	0.0657	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzidine	ND	*-	0.770	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[a]anthracene	**0.0514**	**J**	0.0779	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[a]pyrene	ND		0.0779	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[b]fluoranthene	ND		0.0779	0.0646	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[g,h,i]perylene	ND		0.0779	0.0608	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[k]fluoranthene	ND		0.0779	0.0606	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzoic acid	**1.20**		0.385	0.265	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzyl alcohol	ND		0.385	0.0698	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Bis(2-chloroethoxy)methane	ND		0.385	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Bis(2-chloroethyl)ether	ND		0.195	0.0637	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
bis (2-chloroisopropyl) ether	ND		0.195	0.0867	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Bis(2-ethylhexyl) phthalate	ND		0.195	0.0496	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Butyl benzyl phthalate	ND		0.385	0.0386	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Carbazole	ND		0.195	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Chrysene	**0.0577**	**J**	0.0779	0.0440	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Dibenz(a,h)anthracene	ND		0.0779	0.0594	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Dibenzofuran	ND		0.195	0.0675	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Diethyl phthalate	ND		0.385	0.0423	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Dimethyl phthalate	ND		0.385	0.0502	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Di-n-butyl phthalate	ND		0.385	0.0412	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Di-n-octyl phthalate	ND		0.385	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Fluoranthene	**0.133**		0.0779	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Fluorene	ND		0.0779	0.0711	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Hexachlorobenzene	ND		0.195	0.0541	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Hexachlorobutadiene	ND		0.195	0.0972	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1

Client Sample ID: 2023-MW-02-0204' **Lab Sample ID: 620-10051-6**
Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.195	0.0745	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Hexachloroethane	ND		0.195	0.0766	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0779	0.0661	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Isophorone	ND		0.195	0.0534	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Naphthalene	ND		0.0779	0.0747	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Nitrobenzene	ND		0.195	0.0900	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
N-Nitrosodimethylamine	ND		0.195	0.0511	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
N-Nitrosodi-n-propylamine	ND		0.195	0.0776	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
N-Nitrosodiphenylamine	ND		0.385	0.0491	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pentachloronitrobenzene	ND		0.385	0.0608	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pentachlorophenol	ND		0.385	0.158	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Phenanthrene	**0.0723**	**J**	0.0779	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Phenol	ND		0.385	0.0794	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pyrene	**0.171**		0.0779	0.0430	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pyridine	ND		0.385	0.0912	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
2-Fluorophenol (Surr)	*78*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
Terphenyl-d14	*56*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.389	0.199	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.389	0.166	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Ethylbenzene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Methyl tert-butyl ether	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
m,p-Xylene	ND		0.156	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Naphthalene	**0.0711**	**J B**	0.0778	0.0529	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
o-Xylene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Toluene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
C5-C8 Aliphatics (unadjusted)	ND		0.389	0.199	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
C9-C10 Aromatics	ND		0.389	0.0544	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
C9-C12 Aliphatics (unadjusted)	ND		0.389	0.166	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/03/23 07:17*	*03/03/23 15:37*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/03/23 07:17*	*03/03/23 15:37*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0233	0.0168	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1221	ND		0.0233	0.00690	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1232	ND		0.0233	0.00647	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1

Client Sample ID: 2023-MW-02-0204' **Lab Sample ID: 620-10051-6**
Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0233	0.00369	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1248	ND		0.0233	0.00729	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1254	ND		0.0233	0.0182	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1262	ND		0.0233	0.00544	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1260	ND		0.0233	0.00502	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1268	ND		0.0233	0.00497	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoroheptanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorononanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorodecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorotridecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorotetradecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorobutanesulfonic acid	ND		2.24	0.447	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorohexanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NEtFOSAA	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NMeFOSAA	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
10:2 FTS	ND		2.24	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoropentanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoroheptanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorononanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorodecanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctanesulfonamide	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorohexadecanoic acid	**0.299**	**J**	0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctadecanoic acid	**0.386**	**J**	0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorobutanoic acid	ND		2.24	0.895	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoropentanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NMeFOSE	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NMeFOSA	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NEtFOSE	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NEtFOSA	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
HFPODA	ND		2.24	1.12	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
DONA	ND		3.36	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
9Cl-PF3ONS	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
11Cl-PF3OUdS	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorododecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.24	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoroundecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1

Client Sample ID: 2023-MW-02-0204' **Lab Sample ID: 620-10051-6**
Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.24	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.36	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*32*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
M2-6:2 FTS	*35*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C5 PFHxA	*36*		*10 - 174*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C4 PFHpA	*42*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C8 PFOA	*40*		*26 - 159*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C9 PFNA	*39*		*26 - 165*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C6 PFDA	*40*		*26 - 161*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C7 PFUnA	*48*		*12 - 173*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C2-PFDoDA	*44*		*11 - 166*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C2 PFTeDA	*47*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C3 PFBS	*64*		*27 - 179*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C3 PFHxS	*74*		*24 - 171*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C8 PFOS	*67*		*41 - 154*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d5-NEtFOSAA	*28*		*10 - 193*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C8 FOSA	*122*		*14 - 163*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C4 PFBA	*33*		*28 - 153*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C5 PFPeA	*34*		*24 - 161*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d9-N-EtFOSE-M	*124*		*10 - 185*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C3 HFPO-DA	*44*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.49	1.53	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Arsenic	**3.12**		2.69	1.26	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Barium	**20.9**		0.449	0.135	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Beryllium	**0.451**		0.449	0.0898	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Cadmium	ND		0.449	0.0898	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Chromium	**7.41**		1.35	0.314	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Lead	**7.54**		1.35	0.539	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Nickel	**2.77**		0.898	0.234	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Selenium	ND		4.49	1.35	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Silver	ND	^3+	0.898	0.359	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Thallium	ND		2.69	1.17	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Vanadium	**13.4**		0.898	0.386	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Zinc	**16.3**		1.80	0.719	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0408**	**J**	0.0711	0.0237	mg/Kg	☼	03/05/23 20:11	03/06/23 13:09	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0204'
Date Collected: 02/27/23 15:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-6
Matrix: Solid
Percent Solids: 84.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	84.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'
Date Collected: 02/27/23 15:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-7
Matrix: Solid
Percent Solids: 84.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0653	0.0358	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Acetone	**0.216**	**J**	0.653	0.0823	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Acrylonitrile	ND		0.0653	0.0236	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Benzene	ND		0.0653	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromobenzene	ND		0.0653	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromochloromethane	ND		0.0653	0.00934	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromodichloromethane	ND		0.0653	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromoform	ND		0.0653	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromomethane	ND		0.131	0.0323	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2-Butanone (MEK)	**0.0884**	**J**	0.131	0.0299	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
n-Butylbenzene	ND		0.0653	0.0261	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
sec-Butylbenzene	ND		0.0653	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
tert-Butylbenzene	ND		0.0653	0.0267	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Carbon disulfide	ND		0.131	0.0242	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Carbon tetrachloride	ND		0.0653	0.0195	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chlorobenzene	ND		0.0653	0.00790	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chloroethane	ND		0.131	0.0291	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chloroform	ND		0.0653	0.00771	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chloromethane	ND		0.131	0.0777	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2-Chlorotoluene	ND		0.0653	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
4-Chlorotoluene	ND		0.0653	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dibromo-3-Chloropropane	ND		0.131	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Dibromochloromethane	ND		0.0653	0.0103	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dibromoethane (EDB)	ND		0.0653	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Dibromomethane	ND		0.0653	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dichlorobenzene	ND		0.0653	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3-Dichlorobenzene	ND		0.0653	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,4-Dichlorobenzene	ND		0.0653	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Dichlorodifluoromethane (Freon 12)	ND		0.131	0.0856	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1-Dichloroethane	ND		0.0653	0.0151	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dichloroethane	ND		0.0653	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1-Dichloroethene	ND		0.0653	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
cis-1,2-Dichloroethene	ND		0.0653	0.0218	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
trans-1,2-Dichloroethene	ND		0.0653	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dichloropropane	ND		0.0653	0.0227	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3-Dichloropropane	ND		0.0653	0.0206	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2,2-Dichloropropane	ND		0.0653	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1-Dichloropropene	ND		0.0653	0.0200	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
cis-1,3-Dichloropropene	ND		0.0653	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
trans-1,3-Dichloropropene	ND		0.0653	0.0266	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethylbenzene	ND		0.0653	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Hexachlorobutadiene	ND		0.0653	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2-Hexanone (MBK)	ND		0.131	0.0434	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Isopropylbenzene	ND		0.0653	0.0237	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
4-Isopropyltoluene	ND		0.0653	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Methyl tert-butyl ether	ND		0.0653	0.0197	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.131	0.0468	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Methylene Chloride	ND		0.131	0.0558	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Naphthalene	ND		0.0653	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1

Client Sample ID: 2023-MW-02-0406'
Lab Sample ID: 620-10051-7
Date Collected: 02/27/23 15:10
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 84.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0653	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Styrene	ND		0.0653	0.00862	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,1,2-Tetrachloroethane	ND		0.0653	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,2,2-Tetrachloroethane	ND		0.0653	0.0207	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Tetrachloroethene	ND		0.0653	0.0206	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Toluene	ND		0.0653	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,3-Trichlorobenzene	ND		0.0653	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,4-Trichlorobenzene	ND		0.0653	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3,5-Trichlorobenzene	ND		0.0653	0.0103	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,1-Trichloroethane	ND		0.0653	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,2-Trichloroethane	ND		0.0653	0.0202	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Trichloroethene	ND		0.0653	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Trichlorofluoromethane (Freon 11)	ND		0.0653	0.0295	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,3-Trichloropropane	ND		0.0653	0.0301	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,4-Trimethylbenzene	ND		0.0653	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3,5-Trimethylbenzene	ND		0.0653	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Vinyl chloride	ND		0.0653	0.0321	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
m,p-Xylene	ND		0.0653	0.0384	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
o-Xylene	ND		0.0653	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Tetrahydrofuran	ND		0.131	0.0477	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethyl ether	ND		0.0653	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Tert-amyl methyl ether	ND		0.0653	0.0361	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethyl tert-butyl ether	ND		0.0653	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
di-Isopropyl ether	ND		0.0653	0.0211	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
tert-Butanol	ND		1.31	0.928	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,4-Dioxane	ND		1.31	0.385	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
trans-1,4-Dichloro-2-butene	ND		0.327	0.0431	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethanol	ND		13.1	1.12	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3-Dichloropropene, Total	ND		0.0653	0.0266	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Xylenes, Total	ND		0.196	0.196	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.383	0.0682	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,2,4-Trichlorobenzene	ND		0.383	0.0878	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,2-Dichlorobenzene	ND		0.383	0.0739	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,3-Dichlorobenzene	ND		0.383	0.0928	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,4-Dichlorobenzene	ND		0.383	0.0903	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1-Methylnaphthalene	ND		0.0775	0.0651	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4,5-Trichlorophenol	ND		0.383	0.0439	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4,6-Trichlorophenol	ND		0.194	0.0474	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4-Dichlorophenol	ND		0.194	0.0773	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4-Dimethylphenol	ND		0.383	0.0562	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4-Dinitrophenol	ND		0.383	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'
Date Collected: 02/27/23 15:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-7
Matrix: Solid
Percent Solids: 84.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.194	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,6-Dinitrotoluene	ND		0.194	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Chloronaphthalene	ND		0.383	0.0886	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Chlorophenol	ND		0.194	0.0793	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Methylnaphthalene	ND		0.0775	0.0573	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Methylphenol	ND		0.383	0.0560	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Nitroaniline	ND		0.383	0.0365	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Nitrophenol	ND		0.194	0.0689	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
3 & 4 Methylphenol	ND		0.383	0.0726	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
3,3'-Dichlorobenzidine	ND		0.383	0.0633	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
3-Nitroaniline	ND		0.383	0.0343	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4,6-Dinitro-2-methylphenol	ND		0.383	0.0689	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Bromophenyl phenyl ether	ND		0.383	0.0433	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Chloro-3-methylphenol	ND		0.383	0.0751	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Chloroaniline	ND		0.194	0.0294	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Chlorophenyl phenyl ether	ND		0.383	0.0410	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Nitroaniline	ND		0.194	0.0612	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Nitrophenol	ND		0.383	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Acenaphthene	ND		0.0775	0.0618	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Acenaphthylene	ND		0.0775	0.0509	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Acetophenone	ND		0.194	0.0473	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Aniline	ND		0.383	0.0294	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Anthracene	ND		0.0775	0.0448	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Azobenzene/Diphenyldiazene	ND		0.383	0.0654	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzidine	ND	*-	0.767	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[a]anthracene	ND		0.0775	0.0436	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[a]pyrene	ND		0.0775	0.0554	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[b]fluoranthene	ND		0.0775	0.0642	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[g,h,i]perylene	ND		0.0775	0.0605	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[k]fluoranthene	ND		0.0775	0.0603	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzoic acid	ND		0.383	0.264	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzyl alcohol	ND		0.383	0.0695	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Bis(2-chloroethoxy)methane	ND		0.383	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Bis(2-chloroethyl)ether	ND		0.194	0.0634	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
bis (2-chloroisopropyl) ether	ND		0.194	0.0863	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Bis(2-ethylhexyl) phthalate	ND		0.194	0.0494	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Butyl benzyl phthalate	ND		0.383	0.0385	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Carbazole	ND		0.194	0.0508	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Chrysene	ND		0.0775	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Dibenz(a,h)anthracene	ND		0.0775	0.0591	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Dibenzofuran	ND		0.194	0.0672	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Diethyl phthalate	ND		0.383	0.0421	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Dimethyl phthalate	ND		0.383	0.0500	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Di-n-butyl phthalate	ND		0.383	0.0410	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Di-n-octyl phthalate	ND		0.383	0.0633	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Fluoranthene	ND		0.0775	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Fluorene	ND		0.0775	0.0708	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Hexachlorobenzene	ND		0.194	0.0538	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Hexachlorobutadiene	ND		0.194	0.0968	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1

Client Sample ID: 2023-MW-02-0406' **Lab Sample ID: 620-10051-7**
Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.194	0.0741	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Hexachloroethane	ND		0.194	0.0762	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Indeno[1,2,3-cd]pyrene	ND		0.0775	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Isophorone	ND		0.194	0.0531	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Naphthalene	ND		0.0775	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Nitrobenzene	ND		0.194	0.0896	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
N-Nitrosodimethylamine	ND		0.194	0.0509	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
N-Nitrosodi-n-propylamine	ND		0.194	0.0773	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
N-Nitrosodiphenylamine	ND		0.383	0.0489	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pentachloronitrobenzene	ND		0.383	0.0605	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pentachlorophenol	ND		0.383	0.157	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Phenanthrene	ND		0.0775	0.0439	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Phenol	ND		0.383	0.0790	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pyrene	ND		0.0775	0.0428	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pyridine	ND		0.383	0.0907	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
2-Fluorophenol (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
Nitrobenzene-d5 (Surr)	*48*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
Phenol-d5 (Surr)	*65*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:58*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.717	0.367	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	**3.44**		0.717	0.307	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Ethylbenzene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Methyl tert-butyl ether	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
m,p-Xylene	ND		0.287	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Naphthalene	**1.37**	**B**	0.143	0.0975	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
o-Xylene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Toluene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
C5-C8 Aliphatics (unadjusted)	ND		0.717	0.367	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
C9-C10 Aromatics	**3.90**		0.717	0.100	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
C9-C12 Aliphatics (unadjusted)	**7.34**		0.717	0.307	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:17*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:17*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0165	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1221	ND		0.0228	0.00675	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1232	ND		0.0228	0.00633	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1

Client Sample ID: 2023-MW-02-0406' **Lab Sample ID: 620-10051-7**
Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00361	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1248	ND		0.0228	0.00714	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1254	ND		0.0228	0.0178	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1260	ND		0.0228	0.00491	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1268	ND		0.0228	0.00487	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoroheptanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorononanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorodecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorotridecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorotetradecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorobutanesulfonic acid	ND		2.16	0.433	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorohexanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NEtFOSAA	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NMeFOSAA	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
10:2 FTS	ND		2.16	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoropentanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoroheptanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorononanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorodecanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctanesulfonamide	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorohexadecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctadecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorobutanoic acid	ND		2.16	0.866	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoropentanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NMeFOSE	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NMeFOSA	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NEtFOSE	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NEtFOSA	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
HFPODA	ND		2.16	1.08	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
DONA	ND		3.25	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
9Cl-PF3ONS	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
11Cl-PF3OUdS	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorododecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
4:2 Fluorotelomer sulfonic acid	ND		2.16	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoroundecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1

Client Sample ID: 2023-MW-02-0406' **Lab Sample ID: 620-10051-7**
Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.16	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
M2-8:2 FTS	*129*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
M2-6:2 FTS	*119*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C5 PFHxA	*105*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C4 PFHpA	*116*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C6 PFDA	*124*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C2-PFDoDA	*131*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C3 PFBS	*133*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C3 PFHxS	*149*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C8 PFOS	*131*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d3-NMeFOSAA	*11*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d5-NEtFOSAA	*14*		*10 - 193*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C8 FOSA	*89*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C5 PFPeA	*90*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d7-N-MeFOSE-M	*80*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d3-NMePFOSA	*73*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d5-NEtPFOSA	*71*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C3 HFPO-DA	*93*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:08*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.72	1.60	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Arsenic	**3.48**		2.83	1.32	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Barium	**21.3**		0.472	0.142	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Beryllium	**0.357**	**J**	0.472	0.0944	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Cadmium	ND		0.472	0.0944	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Chromium	**7.88**		1.42	0.330	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Lead	**4.14**		1.42	0.566	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Nickel	**3.44**		0.944	0.245	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Selenium	ND		4.72	1.42	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Silver	ND	^3+	0.944	0.378	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Thallium	ND		2.83	1.23	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Vanadium	**10.9**		0.944	0.406	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Zinc	**17.1**	**^5-**	1.89	0.755	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0664	0.0221	mg/Kg	☼	03/05/23 20:31	03/06/23 17:37	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'
Date Collected: 02/27/23 15:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-7
Matrix: Solid
Percent Solids: 84.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	84.8		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0608'
Lab Sample ID: 620-10051-8
Date Collected: 02/27/23 15:15
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0388	0.0212	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Acetone	ND		0.388	0.0488	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Acrylonitrile	ND		0.0388	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Benzene	ND		0.0388	0.00620	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromobenzene	ND		0.0388	0.00876	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromochloromethane	ND		0.0388	0.00554	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromodichloromethane	ND		0.0388	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromoform	ND		0.0388	0.00830	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromomethane	ND		0.0775	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2-Butanone (MEK)	ND		0.0775	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
n-Butylbenzene	ND		0.0388	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
sec-Butylbenzene	ND		0.0388	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
tert-Butylbenzene	ND		0.0388	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Carbon disulfide	ND		0.0775	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Carbon tetrachloride	ND		0.0388	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chlorobenzene	ND		0.0388	0.00469	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chloroethane	ND		0.0775	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chloroform	ND		0.0388	0.00457	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chloromethane	ND		0.0775	0.0461	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2-Chlorotoluene	ND		0.0388	0.00961	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
4-Chlorotoluene	ND		0.0388	0.00702	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dibromo-3-Chloropropane	ND		0.0775	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Dibromochloromethane	ND		0.0388	0.00612	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dibromoethane (EDB)	ND		0.0388	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Dibromomethane	ND		0.0388	0.00729	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dichlorobenzene	ND		0.0388	0.00698	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3-Dichlorobenzene	ND		0.0388	0.00965	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,4-Dichlorobenzene	ND		0.0388	0.00694	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Dichlorodifluoromethane (Freon 12)	ND		0.0775	0.0508	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1-Dichloroethane	ND		0.0388	0.00895	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dichloroethane	ND		0.0388	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1-Dichloroethene	ND		0.0388	0.00992	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
cis-1,2-Dichloroethene	ND		0.0388	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
trans-1,2-Dichloroethene	ND		0.0388	0.00884	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dichloropropane	ND		0.0388	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3-Dichloropropane	ND		0.0388	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2,2-Dichloropropane	ND		0.0388	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1-Dichloropropene	ND		0.0388	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
cis-1,3-Dichloropropene	ND		0.0388	0.00915	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
trans-1,3-Dichloropropene	ND		0.0388	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethylbenzene	ND		0.0388	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Hexachlorobutadiene	ND		0.0388	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2-Hexanone (MBK)	ND		0.0775	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Isopropylbenzene	ND		0.0388	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
4-Isopropyltoluene	ND		0.0388	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Methyl tert-butyl ether	ND		0.0388	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
4-Methyl-2-pentanone (MIBK)	ND		0.0775	0.0278	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Methylene Chloride	ND		0.0775	0.0331	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Naphthalene	ND		0.0388	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0608'
Date Collected: 02/27/23 15:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-8
Matrix: Solid
Percent Solids: 97.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0388	0.00965	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Styrene	ND		0.0388	0.00512	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,1,2-Tetrachloroethane	ND		0.0388	0.00934	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,2,2-Tetrachloroethane	ND		0.0388	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Tetrachloroethene	ND		0.0388	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Toluene	ND		0.0388	0.00624	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,3-Trichlorobenzene	ND		0.0388	0.00903	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,4-Trichlorobenzene	ND		0.0388	0.00640	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3,5-Trichlorobenzene	ND		0.0388	0.00612	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,1-Trichloroethane	ND		0.0388	0.00938	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,2-Trichloroethane	ND		0.0388	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Trichloroethene	ND		0.0388	0.00663	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Trichlorofluoromethane (Freon 11)	ND		0.0388	0.0175	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,3-Trichloropropane	ND		0.0388	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,4-Trimethylbenzene	ND		0.0388	0.00981	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3,5-Trimethylbenzene	ND		0.0388	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Vinyl chloride	ND		0.0388	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
m,p-Xylene	ND		0.0388	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
o-Xylene	ND		0.0388	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Tetrahydrofuran	ND		0.0775	0.0283	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethyl ether	ND		0.0388	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Tert-amyl methyl ether	ND		0.0388	0.0214	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethyl tert-butyl ether	ND		0.0388	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
di-Isopropyl ether	ND		0.0388	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
tert-Butanol	ND		0.775	0.550	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,4-Dioxane	ND		0.775	0.228	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
trans-1,4-Dichloro-2-butene	ND		0.194	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethanol	ND		7.75	0.667	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3-Dichloropropene, Total	ND		0.0388	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Xylenes, Total	ND		0.116	0.116	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.332	0.0591	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,2,4-Trichlorobenzene	ND		0.332	0.0762	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,2-Dichlorobenzene	ND		0.332	0.0641	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,3-Dichlorobenzene	ND		0.332	0.0805	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,4-Dichlorobenzene	ND		0.332	0.0783	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1-Methylnaphthalene	ND		0.0672	0.0564	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4,5-Trichlorophenol	ND		0.332	0.0381	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4,6-Trichlorophenol	ND		0.168	0.0411	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4-Dichlorophenol	ND		0.168	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4-Dimethylphenol	ND		0.332	0.0488	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4-Dinitrophenol	ND		0.332	0.0874	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0608'
Date Collected: 02/27/23 15:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-8
Matrix: Solid
Percent Solids: 97.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.168	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,6-Dinitrotoluene	ND		0.168	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Chloronaphthalene	ND		0.332	0.0769	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Chlorophenol	ND		0.168	0.0688	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Methylnaphthalene	ND		0.0672	0.0497	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Methylphenol	ND		0.332	0.0486	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Nitroaniline	ND		0.332	0.0316	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Nitrophenol	ND		0.168	0.0597	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
3 & 4 Methylphenol	ND		0.332	0.0630	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
3,3'-Dichlorobenzidine	ND		0.332	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
3-Nitroaniline	ND		0.332	0.0297	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4,6-Dinitro-2-methylphenol	ND		0.332	0.0597	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Bromophenyl phenyl ether	ND		0.332	0.0376	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Chloro-3-methylphenol	ND		0.332	0.0651	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Chloroaniline	ND		0.168	0.0255	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Chlorophenyl phenyl ether	ND		0.332	0.0356	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Nitroaniline	ND		0.168	0.0531	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Nitrophenol	ND		0.332	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Acenaphthene	ND		0.0672	0.0536	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Acenaphthylene	ND		0.0672	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Acetophenone	ND		0.168	0.0410	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Aniline	ND		0.332	0.0255	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Anthracene	ND		0.0672	0.0389	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Azobenzene/Diphenyldiazene	ND		0.332	0.0567	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzidine	ND	*-	0.665	0.0984	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[a]anthracene	ND		0.0672	0.0378	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[a]pyrene	ND		0.0672	0.0481	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[b]fluoranthene	ND		0.0672	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[g,h,i]perylene	ND		0.0672	0.0525	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[k]fluoranthene	ND		0.0672	0.0523	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzoic acid	ND		0.332	0.229	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzyl alcohol	ND		0.332	0.0602	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Bis(2-chloroethoxy)methane	ND		0.332	0.0578	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Bis(2-chloroethyl)ether	ND		0.168	0.0550	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
bis (2-chloroisopropyl) ether	ND		0.168	0.0749	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Bis(2-ethylhexyl) phthalate	ND		0.168	0.0428	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Butyl benzyl phthalate	ND		0.332	0.0333	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Carbazole	ND		0.168	0.0440	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Chrysene	ND		0.0672	0.0380	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Dibenz(a,h)anthracene	ND		0.0672	0.0513	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Dibenzofuran	ND		0.168	0.0582	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Diethyl phthalate	ND		0.332	0.0365	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Dimethyl phthalate	ND		0.332	0.0433	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Di-n-butyl phthalate	ND		0.332	0.0356	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Di-n-octyl phthalate	ND		0.332	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Fluoranthene	ND		0.0672	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Fluorene	ND		0.0672	0.0614	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Hexachlorobenzene	ND		0.168	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Hexachlorobutadiene	ND		0.168	0.0839	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.168	0.0643	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Hexachloroethane	ND		0.168	0.0661	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0672	0.0570	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Isophorone	ND		0.168	0.0460	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Naphthalene	ND		0.0672	0.0645	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Nitrobenzene	ND		0.168	0.0777	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
N-Nitrosodimethylamine	ND		0.168	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
N-Nitrosodi-n-propylamine	ND		0.168	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
N-Nitrosodiphenylamine	ND		0.332	0.0424	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pentachloronitrobenzene	ND		0.332	0.0525	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pentachlorophenol	ND		0.332	0.136	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Phenanthrene	ND		0.0672	0.0381	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Phenol	ND		0.332	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pyrene	ND		0.0672	0.0371	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pyridine	ND		0.332	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
Phenol-d5 (Surr)	*72*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:27*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.262	0.134	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.262	0.112	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Ethylbenzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Methyl tert-butyl ether	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Naphthalene	ND		0.0523	0.0356	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
o-Xylene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Toluene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
C5-C8 Aliphatics (unadjusted)	ND		0.262	0.134	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
C9-C10 Aromatics	ND		0.262	0.0366	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
C9-C12 Aliphatics (unadjusted)	ND		0.262	0.112	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:56*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:56*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0204	0.0147	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1221	ND		0.0204	0.00604	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1232	ND		0.0204	0.00566	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0204	0.00323	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1248	ND		0.0204	0.00639	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1254	ND		0.0204	0.0159	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1262	ND		0.0204	0.00476	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1260	ND		0.0204	0.00439	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1268	ND		0.0204	0.00435	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoroheptanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorononanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorodecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorotridecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorotetradecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorobutanesulfonic acid	ND		1.98	0.396	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorohexanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NEtFOSAA	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NMeFOSAA	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
10:2 FTS	ND		1.98	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoropentanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoroheptanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorononanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorodecanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctanesulfonamide	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorohexadecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctadecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorobutanoic acid	ND		1.98	0.792	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoropentanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NMeFOSE	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NMeFOSA	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NEtFOSE	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NEtFOSA	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
HFPODA	ND		1.98	0.990	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
DONA	ND		2.97	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
9Cl-PF3ONS	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
11Cl-PF3OUdS	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorododecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
4:2 Fluorotelomer sulfonic acid	ND		1.98	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoroundecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.98	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
8:2 Fluorotelomer sulfonic acid	ND		2.97	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*77*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
M2-8:2 FTS	*84*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
M2-6:2 FTS	*86*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C5 PFHxA	*82*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C4 PFHpA	*86*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C8 PFOA	*85*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C9 PFNA	*76*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C6 PFDA	*85*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C7 PFUnA	*88*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C2-PFDoDA	*89*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C2 PFTeDA	*87*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C3 PFBS	*121*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C3 PFHxS	*132*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C8 PFOS	*118*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d3-NMeFOSAA	*9*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C8 FOSA	*128*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C4 PFBA	*76*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C5 PFPeA	*73*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d7-N-MeFOSE-M	*123*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d3-NMePFOSA	*100*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d9-N-EtFOSE-M	*125*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d5-NEtPFOSA	*101*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C3 HFPO-DA	*104*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:19*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoroheptanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorononanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorodecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorotridecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorotetradecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorobutanesulfonic acid	ND		1.87	0.374	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorohexanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NEtFOSAA	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NMeFOSAA	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
10:2 FTS	ND		1.87	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoropentanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoroheptanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorononanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorodecanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctanesulfonamide	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctadecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorobutanoic acid	ND		1.87	0.749	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoropentanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NMeFOSE	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NMeFOSA	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NEtFOSE	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NEtFOSA	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
HFPODA	ND		1.87	0.936	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
DONA	ND		2.81	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
9Cl-PF3ONS	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
11Cl-PF3OUdS	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorododecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
4:2 Fluorotelomer sulfonic acid	ND		1.87	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoroundecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
6:2 Fluorotelomer sulfonic acid	ND		1.87	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
8:2 Fluorotelomer sulfonic acid	ND		2.81	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*43*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
M2-8:2 FTS	*53*		*15 - 200*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
M2-6:2 FTS	*51*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C5 PFHxA	*51*		*10 - 174*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C4 PFHpA	*53*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C8 PFOA	*54*		*26 - 159*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C9 PFNA	*53*		*26 - 165*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C6 PFDA	*51*		*26 - 161*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C7 PFUnA	*53*		*12 - 173*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C2-PFDoDA	*52*		*11 - 166*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C2 PFTeDA	*56*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C3 PFBS	*74*		*27 - 179*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C3 PFHxS	*77*		*24 - 171*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C8 PFOS	*81*		*41 - 154*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d3-NMeFOSAA	*7*	**5-*	*10 - 178*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d5-NEtFOSAA	*9*	**5-*	*10 - 193*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C8 FOSA	*100*		*14 - 163*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C4 PFBA	*48*		*28 - 153*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C5 PFPeA	*50*		*24 - 161*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C3 HFPO-DA	*59*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.48	1.52	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Arsenic	**2.21**	**J**	2.69	1.25	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Barium	**11.9**		0.448	0.134	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Beryllium	**0.244**	**J**	0.448	0.0895	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.448	0.0895	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Chromium	**4.17**		1.34	0.313	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Lead	**2.80**		1.34	0.537	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Nickel	**1.95**		0.895	0.233	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Selenium	ND		4.48	1.34	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Silver	ND	^3+	0.895	0.358	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Thallium	ND		2.69	1.16	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Vanadium	**5.17**		0.895	0.385	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Zinc	**9.08**	**^5-**	1.79	0.716	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0588	0.0196	mg/Kg	☼	03/05/23 20:31	03/06/23 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.9**		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	**97.1**		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0810'
Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9
Matrix: Solid
Percent Solids: 92.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0513	0.0281	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Acetone	ND		0.513	0.0646	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Acrylonitrile	ND		0.0513	0.0185	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Benzene	ND		0.0513	0.00821	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromobenzene	ND		0.0513	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromochloromethane	ND		0.0513	0.00733	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromodichloromethane	ND		0.0513	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromoform	ND		0.0513	0.0110	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromomethane	ND		0.103	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2-Butanone (MEK)	ND		0.103	0.0234	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
n-Butylbenzene	ND		0.0513	0.0205	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
sec-Butylbenzene	ND		0.0513	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
tert-Butylbenzene	ND		0.0513	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Carbon disulfide	ND		0.103	0.0190	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Carbon tetrachloride	ND		0.0513	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chlorobenzene	ND		0.0513	0.00621	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chloroethane	ND		0.103	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chloroform	ND		0.0513	0.00605	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chloromethane	ND		0.103	0.0610	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2-Chlorotoluene	ND		0.0513	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
4-Chlorotoluene	ND		0.0513	0.00928	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dibromo-3-Chloropropane	ND		0.103	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Dibromochloromethane	ND		0.0513	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dibromoethane (EDB)	ND		0.0513	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Dibromomethane	ND		0.0513	0.00964	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dichlorobenzene	ND		0.0513	0.00923	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3-Dichlorobenzene	ND		0.0513	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,4-Dichlorobenzene	ND		0.0513	0.00918	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Dichlorodifluoromethane (Freon 12)	ND		0.103	0.0672	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1-Dichloroethane	ND		0.0513	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dichloroethane	ND		0.0513	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1-Dichloroethene	ND		0.0513	0.0131	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
cis-1,2-Dichloroethene	ND		0.0513	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
trans-1,2-Dichloroethene	ND		0.0513	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dichloropropane	ND		0.0513	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3-Dichloropropane	ND		0.0513	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2,2-Dichloropropane	ND		0.0513	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1-Dichloropropene	ND		0.0513	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
cis-1,3-Dichloropropene	ND		0.0513	0.0121	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
trans-1,3-Dichloropropene	ND		0.0513	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethylbenzene	ND		0.0513	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Hexachlorobutadiene	ND		0.0513	0.0164	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2-Hexanone (MBK)	ND		0.103	0.0341	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Isopropylbenzene	ND		0.0513	0.0186	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
4-Isopropyltoluene	ND		0.0513	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Methyl tert-butyl ether	ND		0.0513	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.103	0.0367	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Methylene Chloride	ND		0.103	0.0438	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Naphthalene	ND		0.0513	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1

Client Sample ID: 2023-MW-02-0810'
Lab Sample ID: 620-10051-9
Date Collected: 02/27/23 15:20
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 92.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0513	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Styrene	ND		0.0513	0.00677	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,1,2-Tetrachloroethane	ND		0.0513	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,2,2-Tetrachloroethane	ND		0.0513	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Tetrachloroethene	ND		0.0513	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Toluene	ND		0.0513	0.00826	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,3-Trichlorobenzene	ND		0.0513	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,4-Trichlorobenzene	ND		0.0513	0.00846	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3,5-Trichlorobenzene	ND		0.0513	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,1-Trichloroethane	ND		0.0513	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,2-Trichloroethane	ND		0.0513	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Trichloroethene	ND		0.0513	0.00877	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Trichlorofluoromethane (Freon 11)	ND		0.0513	0.0232	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,3-Trichloropropane	ND		0.0513	0.0236	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,4-Trimethylbenzene	ND		0.0513	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3,5-Trimethylbenzene	ND		0.0513	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Vinyl chloride	ND		0.0513	0.0252	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
m,p-Xylene	ND		0.0513	0.0302	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
o-Xylene	ND		0.0513	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Tetrahydrofuran	ND		0.103	0.0375	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethyl ether	ND		0.0513	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Tert-amyl methyl ether	ND		0.0513	0.0284	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethyl tert-butyl ether	ND		0.0513	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
di-Isopropyl ether	ND		0.0513	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
tert-Butanol	ND		1.03	0.728	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,4-Dioxane	ND		1.03	0.302	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
trans-1,4-Dichloro-2-butene	ND		0.256	0.0339	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethanol	ND		10.3	0.882	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3-Dichloropropene, Total	ND		0.0513	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Xylenes, Total	ND		0.154	0.154	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.354	0.0630	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,2,4-Trichlorobenzene	ND		0.354	0.0811	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,2-Dichlorobenzene	ND		0.354	0.0682	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,3-Dichlorobenzene	ND		0.354	0.0857	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,4-Dichlorobenzene	ND		0.354	0.0834	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1-Methylnaphthalene	ND		0.0716	0.0601	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4,5-Trichlorophenol	ND		0.354	0.0406	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4,6-Trichlorophenol	ND		0.179	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4-Dichlorophenol	ND		0.179	0.0714	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4-Dimethylphenol	ND		0.354	0.0519	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4-Dinitrophenol	ND		0.354	0.0931	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0810'
Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9
Matrix: Solid
Percent Solids: 92.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,6-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Chloronaphthalene	ND		0.354	0.0819	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Chlorophenol	ND		0.179	0.0733	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Methylnaphthalene	ND		0.0716	0.0529	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Methylphenol	ND		0.354	0.0517	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Nitroaniline	ND		0.354	0.0337	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Nitrophenol	ND		0.179	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
3 & 4 Methylphenol	ND		0.354	0.0671	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
3,3'-Dichlorobenzidine	ND		0.354	0.0585	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
3-Nitroaniline	ND		0.354	0.0317	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4,6-Dinitro-2-methylphenol	ND		0.354	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Bromophenyl phenyl ether	ND		0.354	0.0400	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Chloro-3-methylphenol	ND		0.354	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Chlorophenyl phenyl ether	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Nitroaniline	ND		0.179	0.0566	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Nitrophenol	ND		0.354	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Acenaphthene	ND		0.0716	0.0571	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Acenaphthylene	ND		0.0716	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Acetophenone	ND		0.179	0.0437	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Aniline	ND		0.354	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Anthracene	ND		0.0716	0.0414	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Azobenzene/Diphenyldiazene	ND		0.354	0.0604	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzidine	ND	*-	0.708	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[a]anthracene	ND		0.0716	0.0402	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[a]pyrene	ND		0.0716	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[b]fluoranthene	ND		0.0716	0.0593	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[g,h,i]perylene	ND		0.0716	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[k]fluoranthene	ND		0.0716	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzoic acid	ND		0.354	0.244	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzyl alcohol	ND		0.354	0.0642	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Bis(2-chloroethoxy)methane	ND		0.354	0.0616	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Bis(2-chloroethyl)ether	ND		0.179	0.0586	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Bis(2-ethylhexyl) phthalate	ND		0.179	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Butyl benzyl phthalate	ND		0.354	0.0355	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Carbazole	ND		0.179	0.0469	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Chrysene	ND		0.0716	0.0405	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Dibenz(a,h)anthracene	ND		0.0716	0.0546	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Dibenzofuran	ND		0.179	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Diethyl phthalate	ND		0.354	0.0388	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Dimethyl phthalate	ND		0.354	0.0461	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Di-n-butyl phthalate	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Di-n-octyl phthalate	ND		0.354	0.0585	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Fluoranthene	ND		0.0716	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Fluorene	ND		0.0716	0.0654	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Hexachlorobenzene	ND		0.179	0.0497	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Hexachlorobutadiene	ND		0.179	0.0894	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1

Client Sample ID: 2023-MW-02-0810' **Lab Sample ID: 620-10051-9**
Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Hexachloroethane	ND		0.179	0.0704	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0716	0.0607	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Isophorone	ND		0.179	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Naphthalene	ND		0.0716	0.0687	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Nitrobenzene	ND		0.179	0.0827	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
N-Nitrosodimethylamine	ND		0.179	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0714	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
N-Nitrosodiphenylamine	ND		0.354	0.0452	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pentachloronitrobenzene	ND		0.354	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pentachlorophenol	ND		0.354	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Phenanthrene	ND		0.0716	0.0406	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Phenol	ND		0.354	0.0730	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pyrene	ND		0.0716	0.0395	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pyridine	ND		0.354	0.0838	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
Terphenyl-d14	*71*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:56*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Ethylbenzene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Methyl tert-butyl ether	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Naphthalene	ND		0.0521	0.0354	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
o-Xylene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Toluene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
C9-C10 Aromatics	ND		0.260	0.0365	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 17:36*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/03/23 07:17*	*03/03/23 17:36*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0215	0.0155	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1221	ND		0.0215	0.00635	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1232	ND		0.0215	0.00595	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1

Client Sample ID: 2023-MW-02-0810' **Lab Sample ID: 620-10051-9**
Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0215	0.00339	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1248	ND		0.0215	0.00671	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1254	ND		0.0215	0.0167	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1262	ND		0.0215	0.00501	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1260	ND		0.0215	0.00462	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1268	ND		0.0215	0.00458	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoroheptanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorononanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorodecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorotridecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorotetradecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorobutanesulfonic acid	ND		2.00	0.401	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorohexanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NEtFOSAA	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NMeFOSAA	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
10:2 FTS	ND		2.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoropentanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoroheptanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorononanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorodecanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctanesulfonamide	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorohexadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorobutanoic acid	ND		2.00	0.801	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoropentanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NMeFOSE	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NMeFOSA	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NEtFOSE	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NEtFOSA	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
HFPODA	ND		2.00	1.00	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
DONA	ND		3.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
11Cl-PF3OUdS	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorododecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoroundecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1

Client Sample ID: 2023-MW-02-0810'
Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9
Matrix: Solid
Percent Solids: 92.5

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*34*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
M2-6:2 FTS	*38*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C5 PFHxA	*47*		*10 - 174*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C4 PFHpA	*49*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C8 PFOA	*47*		*26 - 159*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C9 PFNA	*46*		*26 - 165*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C6 PFDA	*49*		*26 - 161*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C7 PFUnA	*53*		*12 - 173*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C2-PFDoDA	*50*		*11 - 166*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C2 PFTeDA	*53*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C3 PFBS	*67*		*27 - 179*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C3 PFHxS	*72*		*24 - 171*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C8 PFOS	*76*		*41 - 154*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d3-NMeFOSAA	*4*	*5-	*10 - 178*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d5-NEtFOSAA	*5*	*5-	*10 - 193*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C4 PFBA	*42*		*28 - 153*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C5 PFPeA	*42*		*24 - 161*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d7-N-MeFOSE-M	*92*		*10 - 179*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C3 HFPO-DA	*56*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoroheptanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorononanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorodecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorotridecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorotetradecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorobutanesulfonic acid	ND		2.00	0.401	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorohexanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NEtFOSAA	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NMeFOSAA	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
10:2 FTS	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoropentanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoroheptanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorononanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorodecanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctanesulfonamide	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1

Client Sample ID: 2023-MW-02-0810' **Lab Sample ID: 620-10051-9**
Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorobutanoic acid	ND		2.00	0.801	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoropentanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NMeFOSE	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NMeFOSA	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NEtFOSE	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NEtFOSA	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
HFPODA	ND		2.00	1.00	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
DONA	ND		3.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
11Cl-PF3OUdS	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorododecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoroundecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*50*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
M2-8:2 FTS	*56*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
M2-6:2 FTS	*55*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C5 PFHxA	*66*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C4 PFHpA	*67*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C8 PFOA	*67*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C9 PFNA	*62*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C6 PFDA	*66*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C7 PFUnA	*67*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C2-PFDoDA	*63*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C2 PFTeDA	*68*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C3 PFBS	*102*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C8 FOSA	*118*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C4 PFBA	*58*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C5 PFPeA	*55*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d7-N-MeFOSE-M	*110*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d3-NMePFOSA	*60*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d5-NEtPFOSA	*64*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C3 HFPO-DA	*67*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.74	1.61	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Arsenic	**2.61**	**J**	2.85	1.33	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Barium	**13.6**		0.474	0.142	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Beryllium	**0.242**	**J**	0.474	0.0949	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0810'

Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9

Matrix: Solid
Percent Solids: 92.5

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.474	0.0949	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Chromium	**4.15**		1.42	0.332	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Lead	**2.09**		1.42	0.569	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Nickel	**1.71**		0.949	0.247	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Selenium	ND		4.74	1.42	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Silver	ND	^3+	0.949	0.379	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Thallium	ND		2.85	1.23	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Vanadium	**4.91**		0.949	0.408	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Zinc	**7.71**	**^5-**	1.90	0.759	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0608	0.0203	mg/Kg	☼	03/05/23 20:11	03/06/23 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.5**		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	**92.5**		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-1012'
Date Collected: 02/27/23 15:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-10
Matrix: Solid
Percent Solids: 79.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0633	0.0347	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Acetone	ND		0.633	0.0798	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Acrylonitrile	ND		0.0633	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Benzene	ND		0.0633	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromobenzene	ND		0.0633	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromochloromethane	ND		0.0633	0.00905	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromodichloromethane	ND		0.0633	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromoform	ND		0.0633	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromomethane	ND		0.127	0.0313	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2-Butanone (MEK)	ND		0.127	0.0289	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
n-Butylbenzene	ND		0.0633	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
sec-Butylbenzene	ND		0.0633	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
tert-Butylbenzene	ND		0.0633	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Carbon disulfide	ND		0.127	0.0234	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Carbon tetrachloride	ND		0.0633	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chlorobenzene	ND		0.0633	0.00766	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chloroethane	ND		0.127	0.0282	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chloroform	ND		0.0633	0.00747	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chloromethane	ND		0.127	0.0753	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2-Chlorotoluene	ND		0.0633	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
4-Chlorotoluene	ND		0.0633	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dibromo-3-Chloropropane	ND		0.127	0.0250	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Dibromochloromethane	ND		0.0633	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dibromoethane (EDB)	ND		0.0633	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Dibromomethane	ND		0.0633	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dichlorobenzene	ND		0.0633	0.0114	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3-Dichlorobenzene	ND		0.0633	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,4-Dichlorobenzene	ND		0.0633	0.0113	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Dichlorodifluoromethane (Freon 12)	ND		0.127	0.0829	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1-Dichloroethane	ND		0.0633	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dichloroethane	ND		0.0633	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1-Dichloroethene	ND		0.0633	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
cis-1,2-Dichloroethene	ND		0.0633	0.0211	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
trans-1,2-Dichloroethene	ND		0.0633	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dichloropropane	ND		0.0633	0.0220	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3-Dichloropropane	ND		0.0633	0.0200	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2,2-Dichloropropane	ND		0.0633	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1-Dichloropropene	ND		0.0633	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
cis-1,3-Dichloropropene	ND		0.0633	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
trans-1,3-Dichloropropene	ND		0.0633	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethylbenzene	ND		0.0633	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Hexachlorobutadiene	ND		0.0633	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2-Hexanone (MBK)	ND		0.127	0.0421	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Isopropylbenzene	ND		0.0633	0.0230	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
4-Isopropyltoluene	ND		0.0633	0.0175	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Methyl tert-butyl ether	ND		0.0633	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
4-Methyl-2-pentanone (MIBK)	ND		0.127	0.0453	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Methylene Chloride	ND		0.127	0.0541	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Naphthalene	ND		0.0633	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0633	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Styrene	ND		0.0633	0.00836	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,1,2-Tetrachloroethane	ND		0.0633	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,2,2-Tetrachloroethane	ND		0.0633	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Tetrachloroethene	ND		0.0633	0.0199	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Toluene	ND		0.0633	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,3-Trichlorobenzene	ND		0.0633	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,4-Trichlorobenzene	ND		0.0633	0.0104	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3,5-Trichlorobenzene	ND		0.0633	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,1-Trichloroethane	ND		0.0633	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,2-Trichloroethane	ND		0.0633	0.0196	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Trichloroethene	ND		0.0633	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Trichlorofluoromethane (Freon 11)	ND		0.0633	0.0286	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,3-Trichloropropane	ND		0.0633	0.0292	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,4-Trimethylbenzene	ND		0.0633	0.0160	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3,5-Trimethylbenzene	ND		0.0633	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Vinyl chloride	ND		0.0633	0.0311	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
m,p-Xylene	ND		0.0633	0.0372	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
o-Xylene	ND		0.0633	0.0195	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Tetrahydrofuran	ND		0.127	0.0463	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethyl ether	ND		0.0633	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Tert-amyl methyl ether	ND		0.0633	0.0350	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethyl tert-butyl ether	ND		0.0633	0.0175	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
di-Isopropyl ether	ND		0.0633	0.0204	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
tert-Butanol	ND		1.27	0.899	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,4-Dioxane	ND		1.27	0.373	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
trans-1,4-Dichloro-2-butene	ND		0.317	0.0418	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethanol	ND		12.7	1.09	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3-Dichloropropene, Total	ND		0.0633	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Xylenes, Total	ND		0.190	0.190	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.414	0.0736	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,2,4-Trichlorobenzene	ND		0.414	0.0948	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,2-Dichlorobenzene	ND		0.414	0.0798	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,3-Dichlorobenzene	ND		0.414	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,4-Dichlorobenzene	ND		0.414	0.0974	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1-Methylnaphthalene	ND		0.0836	0.0702	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4,5-Trichlorophenol	ND		0.414	0.0474	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4,6-Trichlorophenol	ND		0.209	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4-Dichlorophenol	ND		0.209	0.0834	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4-Dimethylphenol	ND		0.414	0.0607	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4-Dinitrophenol	ND		0.414	0.109	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-1012'
Date Collected: 02/27/23 15:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-10
Matrix: Solid
Percent Solids: 79.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,6-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Chloronaphthalene	ND		0.414	0.0957	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Chlorophenol	ND		0.209	0.0857	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Methylnaphthalene	ND		0.0836	0.0618	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Methylphenol	ND		0.414	0.0604	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Nitroaniline	ND		0.414	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Nitrophenol	ND		0.209	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
3 & 4 Methylphenol	ND		0.414	0.0784	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
3,3'-Dichlorobenzidine	ND		0.414	0.0683	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
3-Nitroaniline	ND		0.414	0.0370	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4,6-Dinitro-2-methylphenol	ND		0.414	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Bromophenyl phenyl ether	ND		0.414	0.0468	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Chloro-3-methylphenol	ND		0.414	0.0810	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Chloroaniline	ND		0.209	0.0317	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Chlorophenyl phenyl ether	ND		0.414	0.0443	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Nitroaniline	ND		0.209	0.0661	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Nitrophenol	ND		0.414	0.144	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Acenaphthene	ND		0.0836	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Acenaphthylene	ND		0.0836	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Acetophenone	ND		0.209	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Aniline	ND		0.414	0.0317	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Anthracene	ND		0.0836	0.0484	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Azobenzene/Diphenyldiazene	ND		0.414	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzidine	ND	*-	0.828	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[a]anthracene	ND		0.0836	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[a]pyrene	ND		0.0836	0.0598	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[b]fluoranthene	ND		0.0836	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[g,h,i]perylene	ND		0.0836	0.0653	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[k]fluoranthene	ND		0.0836	0.0651	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzoic acid	ND		0.414	0.285	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzyl alcohol	ND		0.414	0.0750	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Bis(2-chloroethoxy)methane	ND		0.414	0.0720	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Bis(2-chloroethyl)ether	ND		0.209	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
bis (2-chloroisopropyl) ether	ND		0.209	0.0932	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Bis(2-ethylhexyl) phthalate	ND		0.209	0.0533	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Butyl benzyl phthalate	ND		0.414	0.0415	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Carbazole	ND		0.209	0.0548	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Chrysene	ND		0.0836	0.0473	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Dibenz(a,h)anthracene	ND		0.0836	0.0638	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Dibenzofuran	ND		0.209	0.0725	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Diethyl phthalate	ND		0.414	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Dimethyl phthalate	ND		0.414	0.0539	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Di-n-butyl phthalate	ND		0.414	0.0443	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Di-n-octyl phthalate	ND		0.414	0.0683	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Fluoranthene	ND		0.0836	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Fluorene	ND		0.0836	0.0764	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Hexachlorobenzene	ND		0.209	0.0581	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Hexachlorobutadiene	ND		0.209	0.104	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.209	0.0800	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Hexachloroethane	ND		0.209	0.0823	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0836	0.0710	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Isophorone	ND		0.209	0.0573	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Naphthalene	ND		0.0836	0.0803	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Nitrobenzene	ND		0.209	0.0967	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
N-Nitrosodimethylamine	ND		0.209	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
N-Nitrosodi-n-propylamine	ND		0.209	0.0834	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
N-Nitrosodiphenylamine	ND		0.414	0.0528	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pentachloronitrobenzene	ND		0.414	0.0653	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pentachlorophenol	ND		0.414	0.169	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Phenanthrene	ND		0.0836	0.0474	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Phenol	ND		0.414	0.0853	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pyrene	ND		0.0836	0.0461	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pyridine	ND		0.414	0.0979	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:24*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.344	0.176	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.344	0.147	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Ethylbenzene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Methyl tert-butyl ether	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
m,p-Xylene	ND		0.138	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Naphthalene	**0.0743**	**B**	0.0688	0.0468	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
o-Xylene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Toluene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
C5-C8 Aliphatics (unadjusted)	ND		0.344	0.176	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
C9-C10 Aromatics	**0.0866**	**J**	0.344	0.0482	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
C9-C12 Aliphatics (unadjusted)	**0.178**	**J**	0.344	0.147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:15*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:15*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0248	0.0179	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1221	ND		0.0248	0.00734	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1232	ND		0.0248	0.00688	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1

Client Sample ID: 2023-MW-02-1012'
Date Collected: 02/27/23 15:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-10
Matrix: Solid
Percent Solids: 79.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0248	0.00393	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1248	ND		0.0248	0.00777	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1254	ND		0.0248	0.0193	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1262	ND		0.0248	0.00579	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1260	ND		0.0248	0.00534	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1268	ND		0.0248	0.00529	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoroheptanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorononanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorodecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorotridecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorotetradecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorobutanesulfonic acid	ND		2.33	0.467	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorohexanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NEtFOSAA	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NMeFOSAA	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
10:2 FTS	ND		2.33	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoropentanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoroheptanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorononanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorodecanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctanesulfonamide	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorohexadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorobutanoic acid	ND		2.33	0.934	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoropentanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NMeFOSE	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NMeFOSA	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NEtFOSE	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NEtFOSA	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
HFPODA	ND		2.33	1.17	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
DONA	ND		3.50	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
9Cl-PF3ONS	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
11Cl-PF3OUdS	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorododecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
4:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoroundecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
8:2 Fluorotelomer sulfonic acid	ND		3.50	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
M2-6:2 FTS	*100*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C5 PFHxA	*104*		*10 - 174*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C4 PFHpA	*104*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C8 PFOA	*101*		*26 - 159*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C9 PFNA	*98*		*26 - 165*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C6 PFDA	*96*		*26 - 161*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C7 PFUnA	*101*		*12 - 173*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C2 PFTeDA	*100*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C3 PFBS	*97*		*27 - 179*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C3 PFHxS	*102*		*24 - 171*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C8 PFOS	*95*		*41 - 154*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d3-NMeFOSAA	*44*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d5-NEtFOSAA	*47*		*10 - 193*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C8 FOSA	*89*		*14 - 163*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C4 PFBA	*96*		*28 - 153*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C5 PFPeA	*95*		*24 - 161*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d3-NMePFOSA	*68*		*10 - 175*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d5-NEtPFOSA	*68*		*10 - 180*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C3 HFPO-DA	*90*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:53*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.53	1.88	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Arsenic	**2.30**	**J**	3.32	1.55	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Barium	**24.8**		0.553	0.166	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Beryllium	**0.294**	**J**	0.553	0.111	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Cadmium	ND		0.553	0.111	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Chromium	**6.05**		1.66	0.387	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Lead	**3.21**		1.66	0.664	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Nickel	**3.37**		1.11	0.288	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Selenium	ND		5.53	1.66	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Silver	ND	^3+	1.11	0.442	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Thallium	ND		3.32	1.44	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Vanadium	**9.15**		1.11	0.476	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Zinc	**13.9**	**^5-**	2.21	0.885	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0709	0.0236	mg/Kg	☼	03/05/23 20:11	03/06/23 13:12	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	79.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'
Date Collected: 03/01/23 08:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-11
Matrix: Solid
Percent Solids: 93.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00449	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Acetone	ND		0.0449	0.0101	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Acrylonitrile	ND		0.00449	0.00269	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Benzene	ND		0.00449	0.00300	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromobenzene	ND		0.00449	0.00299	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromochloromethane	ND		0.00449	0.00255	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromodichloromethane	ND		0.00449	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromoform	ND		0.00449	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromomethane	ND		0.00898	0.00559	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2-Butanone (MEK)	ND		0.00898	0.00357	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
n-Butylbenzene	ND		0.00898	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
sec-Butylbenzene	ND		0.00449	0.00362	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
tert-Butylbenzene	ND		0.00449	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Carbon disulfide	ND		0.00898	0.00315	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Carbon tetrachloride	ND		0.00449	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chlorobenzene	ND		0.00449	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chloroethane	ND		0.00898	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chloroform	ND		0.00449	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chloromethane	ND		0.00898	0.00345	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2-Chlorotoluene	ND		0.00449	0.00357	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
4-Chlorotoluene	ND		0.00449	0.00390	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00898	0.00381	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Dibromochloromethane	ND		0.00449	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dibromoethane (EDB)	ND		0.00449	0.00322	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Dibromomethane	ND		0.00449	0.00264	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dichlorobenzene	ND		0.00449	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3-Dichlorobenzene	ND		0.00449	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,4-Dichlorobenzene	ND		0.00449	0.00426	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00898	0.00241	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1-Dichloroethane	ND		0.00449	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dichloroethane	ND		0.00449	0.00303	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1-Dichloroethene	ND		0.00449	0.00275	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
cis-1,2-Dichloroethene	ND		0.00449	0.00260	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
trans-1,2-Dichloroethene	ND		0.00449	0.00279	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dichloropropane	ND		0.00449	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3-Dichloropropane	ND		0.00449	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2,2-Dichloropropane	ND		0.00449	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1-Dichloropropene	ND		0.00449	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
cis-1,3-Dichloropropene	ND		0.00449	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
trans-1,3-Dichloropropene	ND		0.00449	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethylbenzene	ND		0.00449	0.00321	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Hexachlorobutadiene	ND		0.00898	0.00452	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2-Hexanone (MBK)	ND		0.00898	0.00264	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Isopropylbenzene	ND		0.00449	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
4-Isopropyltoluene	ND		0.00449	0.00441	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Methyl tert-butyl ether	ND		0.00449	0.00259	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00898	0.00290	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Methylene Chloride	ND		0.00898	0.00241	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Naphthalene	ND		0.00449	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Styrene	ND		0.00449	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,1,2-Tetrachloroethane	ND		0.00449	0.00337	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,2,2-Tetrachloroethane	ND		0.00449	0.00411	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Tetrachloroethene	ND		0.00449	0.00250	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Toluene	ND		0.00449	0.00285	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,3-Trichlorobenzene	ND		0.00449	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,4-Trichlorobenzene	ND		0.00449	0.00414	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3,5-Trichlorobenzene	ND		0.00449	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,1-Trichloroethane	ND		0.00449	0.00306	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,2-Trichloroethane	ND		0.00449	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Trichloroethene	ND		0.00449	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00449	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,3-Trichloropropane	ND		0.00449	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,4-Trimethylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3,5-Trimethylbenzene	ND		0.00449	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Vinyl chloride	ND		0.00449	0.00274	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
m,p-Xylene	ND		0.00449	0.00613	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
o-Xylene	ND		0.00449	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Tetrahydrofuran	ND		0.00898	0.00227	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethyl ether	ND		0.00449	0.00236	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Tert-amyl methyl ether	ND		0.00449	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethyl tert-butyl ether	ND		0.00449	0.00295	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
di-Isopropyl ether	ND		0.00449	0.00321	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
tert-Butanol	ND		0.0898	0.0241	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,4-Dioxane	ND		0.0898	0.0279	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
trans-1,4-Dichloro-2-butene	ND		0.0225	0.00331	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethanol	ND		0.898	0.0557	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3-Dichloropropene, Total	ND		0.00449	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Xylenes, Total	ND		0.0135	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.689	0.123	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,2,4-Trichlorobenzene	ND		0.689	0.158	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,2-Dichlorobenzene	ND		0.689	0.133	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,3-Dichlorobenzene	ND		0.689	0.167	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,4-Dichlorobenzene	ND		0.689	0.162	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1-Methylnaphthalene	ND		0.139	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4,5-Trichlorophenol	ND		0.689	0.0790	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4,6-Trichlorophenol	ND		0.349	0.0852	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4-Dichlorophenol	ND		0.349	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4-Dimethylphenol	ND		0.689	0.101	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4-Dinitrophenol	ND		0.689	0.181	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'
Date Collected: 03/01/23 08:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-11
Matrix: Solid
Percent Solids: 93.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.349	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,6-Dinitrotoluene	ND		0.349	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Chloronaphthalene	ND		0.689	0.159	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Chlorophenol	ND		0.349	0.143	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Methylnaphthalene	ND		0.139	0.103	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Methylphenol	ND		0.689	0.101	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Nitroaniline	ND		0.689	0.0656	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Nitrophenol	ND		0.349	0.124	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
3 & 4 Methylphenol	ND		0.689	0.131	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
3,3'-Dichlorobenzidine	ND		0.689	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
3-Nitroaniline	ND		0.689	0.0616	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4,6-Dinitro-2-methylphenol	ND		0.689	0.124	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Bromophenyl phenyl ether	ND		0.689	0.0779	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Chloro-3-methylphenol	ND		0.689	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Chloroaniline	ND		0.349	0.0529	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Chlorophenyl phenyl ether	ND		0.689	0.0737	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Nitroaniline	ND		0.349	0.110	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Nitrophenol	ND		0.689	0.240	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Acenaphthene	ND		0.139	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Acenaphthylene	ND		0.139	0.0915	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Acetophenone	ND		0.349	0.0850	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Aniline	ND		0.689	0.0529	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Anthracene	ND		0.139	0.0806	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Azobenzene/Diphenyldiazene	ND		0.689	0.118	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzidine	ND	*-	1.38	0.204	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[a]anthracene	ND		0.139	0.0783	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[a]pyrene	ND		0.139	0.0997	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[b]fluoranthene	ND		0.139	0.116	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[g,h,i]perylene	ND		0.139	0.109	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[k]fluoranthene	ND		0.139	0.108	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzoic acid	ND		0.689	0.474	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzyl alcohol	ND		0.689	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Bis(2-chloroethoxy)methane	ND		0.689	0.120	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Bis(2-chloroethyl)ether	ND		0.349	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
bis (2-chloroisopropyl) ether	ND		0.349	0.155	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Bis(2-ethylhexyl) phthalate	**1.11**		0.349	0.0888	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Butyl benzyl phthalate	ND		0.689	0.0692	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Carbazole	ND		0.349	0.0913	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Chrysene	ND		0.139	0.0788	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Dibenz(a,h)anthracene	ND		0.139	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Dibenzofuran	ND		0.349	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Diethyl phthalate	ND		0.689	0.0756	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Dimethyl phthalate	ND		0.689	0.0898	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Di-n-butyl phthalate	ND		0.689	0.0737	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Di-n-octyl phthalate	ND		0.689	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Fluoranthene	ND		0.139	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Fluorene	ND		0.139	0.127	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Hexachlorobenzene	ND		0.349	0.0967	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Hexachlorobutadiene	ND		0.349	0.174	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.349	0.133	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Hexachloroethane	ND		0.349	0.137	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Indeno[1,2,3-cd]pyrene	ND		0.139	0.118	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Isophorone	ND		0.349	0.0955	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Naphthalene	ND		0.139	0.134	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Nitrobenzene	ND		0.349	0.161	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
N-Nitrosodimethylamine	ND		0.349	0.0915	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
N-Nitrosodi-n-propylamine	ND		0.349	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
N-Nitrosodiphenylamine	ND		0.689	0.0880	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pentachloronitrobenzene	ND		0.689	0.109	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pentachlorophenol	ND		0.689	0.282	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Phenanthrene	ND		0.139	0.0790	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Phenol	ND		0.689	0.142	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pyrene	ND		0.139	0.0769	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pyridine	ND		0.689	0.163	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
Phenol-d5 (Surr)	*75*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
2,4,6-Tribromophenol (Surr)	*110*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.367	0.188	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.367	0.157	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Ethylbenzene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Methyl tert-butyl ether	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
m,p-Xylene	ND		0.147	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Naphthalene	ND		0.0734	0.0499	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
o-Xylene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Toluene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
C5-C8 Aliphatics (unadjusted)	ND		0.367	0.188	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
C9-C10 Aromatics	ND		0.367	0.0514	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
C9-C12 Aliphatics (unadjusted)	ND		0.367	0.157	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:54*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:54*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0212	0.0152	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1221	ND		0.0212	0.00625	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1232	ND		0.0212	0.00586	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0212	0.00334	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1248	ND		0.0212	0.00661	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1254	**0.212**		0.0212	0.0165	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1262	ND		0.0212	0.00493	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1260	ND		0.0212	0.00455	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1268	ND		0.0212	0.00451	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.710**		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoroheptanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorononanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorodecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorotridecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorotetradecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorobutanesulfonic acid	ND		2.05	0.410	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorohexanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NEtFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NMeFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
10:2 FTS	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoropentanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoroheptanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorononanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorodecanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctanesulfonamide	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorohexadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorobutanoic acid	ND		2.05	0.821	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoropentanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NMeFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NMeFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NEtFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NEtFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
HFPODA	ND		2.05	1.03	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
DONA	ND		3.08	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
9Cl-PF3ONS	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
11Cl-PF3OUdS	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorododecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoroundecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*55*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
M2-8:2 FTS	*69*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
M2-6:2 FTS	*67*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C5 PFHxA	*59*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C4 PFHpA	*65*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C8 PFOA	*64*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C9 PFNA	*62*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C6 PFDA	*67*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C7 PFUnA	*71*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C2-PFDoDA	*69*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C2 PFTeDA	*73*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C8 PFOS	*106*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d3-NMeFOSAA	*8*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C4 PFBA	*53*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C5 PFPeA	*53*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d3-NMePFOSA	*30*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d5-NEtPFOSA	*32*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C3 HFPO-DA	*69*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoroheptanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorononanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorodecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorotridecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorotetradecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorobutanesulfonic acid	ND		1.94	0.388	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorohexanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NEtFOSAA	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NMeFOSAA	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
10:2 FTS	ND		1.94	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoropentanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoroheptanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorononanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorodecanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctanesulfonamide	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctadecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorobutanoic acid	ND		1.94	0.776	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoropentanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NMeFOSE	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NMeFOSA	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NEtFOSE	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NEtFOSA	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
HFPODA	ND		1.94	0.970	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
DONA	ND		2.91	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
9Cl-PF3ONS	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
11Cl-PF3OUdS	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorododecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
4:2 Fluorotelomer sulfonic acid	ND		1.94	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoroundecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
6:2 Fluorotelomer sulfonic acid	ND		1.94	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
8:2 Fluorotelomer sulfonic acid	ND		2.91	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*32*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
M2-8:2 FTS	*44*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
M2-6:2 FTS	*35*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C5 PFHxA	*37*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C4 PFHpA	*39*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C8 PFOA	*38*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C9 PFNA	*40*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C6 PFDA	*41*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C7 PFUnA	*45*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C2-PFDoDA	*43*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C2 PFTeDA	*47*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C3 PFBS	*69*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C3 PFHxS	*72*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C8 PFOS	*72*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 178*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d5-NEtFOSAA	*8*	**5-*	*10 - 193*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C8 FOSA	*103*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C4 PFBA	*32*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C5 PFPeA	*34*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C3 HFPO-DA	*44*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:04*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.13	1.74	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Arsenic	**2.54**	**J**	3.08	1.44	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Barium	**13.0**		0.513	0.154	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Beryllium	**0.239**	**J**	0.513	0.103	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'

Date Collected: 03/01/23 08:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-11

Matrix: Solid
Percent Solids: 93.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.513	0.103	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Chromium	**3.84**		1.54	0.359	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Lead	**2.92**		1.54	0.615	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Nickel	**1.77**		1.03	0.267	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Selenium	ND		5.13	1.54	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Silver	ND	^3+	1.03	0.410	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Thallium	ND		3.08	1.33	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Vanadium	**6.15**		1.03	0.441	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Zinc	**8.39**	**^5-**	2.05	0.821	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0619	0.0206	mg/Kg	☼	03/05/23 20:31	03/06/23 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.3**		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	**93.7**		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0204'
Date Collected: 03/01/23 09:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-12
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Acetone	ND		0.0569	0.0127	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Acrylonitrile	ND		0.00569	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Benzene	ND		0.00569	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromobenzene	ND		0.00569	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromochloromethane	ND		0.00569	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromodichloromethane	ND		0.00569	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromoform	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromomethane	ND		0.0114	0.00709	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2-Butanone (MEK)	ND		0.0114	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
n-Butylbenzene	ND		0.0114	0.00610	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
sec-Butylbenzene	ND		0.00569	0.00459	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
tert-Butylbenzene	ND		0.00569	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Carbon disulfide	ND		0.0114	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Carbon tetrachloride	ND		0.00569	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chlorobenzene	ND		0.00569	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chloroethane	ND		0.0114	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chloroform	ND		0.00569	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chloromethane	ND		0.0114	0.00437	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2-Chlorotoluene	ND		0.00569	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
4-Chlorotoluene	ND		0.00569	0.00494	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dibromo-3-Chloropropane	ND		0.0114	0.00483	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Dibromochloromethane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dibromoethane (EDB)	ND		0.00569	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Dibromomethane	ND		0.00569	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dichlorobenzene	ND		0.00569	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3-Dichlorobenzene	ND		0.00569	0.00456	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,4-Dichlorobenzene	ND		0.00569	0.00539	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1-Dichloroethane	ND		0.00569	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dichloroethane	ND		0.00569	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1-Dichloroethene	ND		0.00569	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
cis-1,2-Dichloroethene	ND		0.00569	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
trans-1,2-Dichloroethene	ND		0.00569	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dichloropropane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3-Dichloropropane	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2,2-Dichloropropane	ND		0.00569	0.00393	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1-Dichloropropene	ND		0.00569	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
cis-1,3-Dichloropropene	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
trans-1,3-Dichloropropene	ND		0.00569	0.00432	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethylbenzene	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Hexachlorobutadiene	ND		0.0114	0.00572	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2-Hexanone (MBK)	ND		0.0114	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Isopropylbenzene	ND		0.00569	0.00430	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
4-Isopropyltoluene	ND		0.00569	0.00559	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Methyl tert-butyl ether	ND		0.00569	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.0114	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Methylene Chloride	ND		0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Naphthalene	ND		0.00569	0.00514	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00569	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Styrene	ND		0.00569	0.00440	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,1,2-Tetrachloroethane	ND		0.00569	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,2,2-Tetrachloroethane	ND		0.00569	0.00521	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Tetrachloroethene	ND		0.00569	0.00316	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Toluene	ND		0.00569	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,3-Trichlorobenzene	ND		0.00569	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,4-Trichlorobenzene	ND		0.00569	0.00525	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3,5-Trichlorobenzene	ND		0.00569	0.00541	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,1-Trichloroethane	ND		0.00569	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,2-Trichloroethane	ND		0.00569	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Trichloroethene	ND		0.00569	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Trichlorofluoromethane (Freon 11)	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,3-Trichloropropane	ND		0.00569	0.00505	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,4-Trimethylbenzene	ND		0.00569	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3,5-Trimethylbenzene	ND		0.00569	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Vinyl chloride	ND		0.00569	0.00347	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
m,p-Xylene	ND		0.00569	0.00777	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
o-Xylene	ND		0.00569	0.00415	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Tetrahydrofuran	ND		0.0114	0.00288	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethyl ether	ND		0.00569	0.00299	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Tert-amyl methyl ether	ND		0.00569	0.00450	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethyl tert-butyl ether	ND		0.00569	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
di-Isopropyl ether	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
tert-Butanol	ND		0.114	0.0305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,4-Dioxane	ND		0.114	0.0354	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
trans-1,4-Dichloro-2-butene	ND		0.0285	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethanol	ND		1.14	0.0706	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3-Dichloropropene, Total	ND		0.00569	0.00432	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Xylenes, Total	ND		0.0171	0.00569	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.359	0.0639	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,2,4-Trichlorobenzene	ND		0.359	0.0822	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,2-Dichlorobenzene	ND		0.359	0.0692	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,3-Dichlorobenzene	ND		0.359	0.0869	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,4-Dichlorobenzene	ND		0.359	0.0845	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1-Methylnaphthalene	ND		0.0726	0.0609	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4,5-Trichlorophenol	ND		0.359	0.0411	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4,6-Trichlorophenol	ND		0.182	0.0444	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4-Dichlorophenol	ND		0.182	0.0723	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4-Dimethylphenol	ND		0.359	0.0527	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4-Dinitrophenol	ND		0.359	0.0944	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0204'
Date Collected: 03/01/23 09:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-12
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.182	0.0425	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,6-Dinitrotoluene	ND		0.182	0.0425	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Chloronaphthalene	ND		0.359	0.0830	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Chlorophenol	ND		0.182	0.0743	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Methylnaphthalene	ND		0.0726	0.0536	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Methylphenol	ND		0.359	0.0524	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Nitroaniline	ND		0.359	0.0342	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Nitrophenol	ND		0.182	0.0645	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
3 & 4 Methylphenol	ND		0.359	0.0680	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
3,3'-Dichlorobenzidine	ND		0.359	0.0593	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
3-Nitroaniline	ND		0.359	0.0321	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4,6-Dinitro-2-methylphenol	ND		0.359	0.0645	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Bromophenyl phenyl ether	ND		0.359	0.0406	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Chloro-3-methylphenol	ND		0.359	0.0703	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Chloroaniline	ND		0.182	0.0275	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Chlorophenyl phenyl ether	ND		0.359	0.0384	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Nitroaniline	ND		0.182	0.0573	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Nitrophenol	ND		0.359	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Acenaphthene	ND		0.0726	0.0579	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Acenaphthylene	ND		0.0726	0.0477	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Acetophenone	ND		0.182	0.0443	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Aniline	ND		0.359	0.0275	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Anthracene	ND		0.0726	0.0420	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Azobenzene/Diphenyldiazene	ND		0.359	0.0613	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzidine	ND	*-	0.718	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[a]anthracene	ND		0.0726	0.0408	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[a]pyrene	ND		0.0726	0.0519	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[b]fluoranthene	ND		0.0726	0.0602	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[g,h,i]perylene	ND		0.0726	0.0567	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[k]fluoranthene	ND		0.0726	0.0565	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzoic acid	ND		0.359	0.247	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzyl alcohol	ND		0.359	0.0651	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Bis(2-chloroethoxy)methane	ND		0.359	0.0624	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Bis(2-chloroethyl)ether	ND		0.182	0.0594	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
bis (2-chloroisopropyl) ether	ND		0.182	0.0808	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Bis(2-ethylhexyl) phthalate	**0.332**		0.182	0.0462	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Butyl benzyl phthalate	ND		0.359	0.0360	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Carbazole	ND		0.182	0.0475	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Chrysene	ND		0.0726	0.0410	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Dibenz(a,h)anthracene	ND		0.0726	0.0554	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Dibenzofuran	ND		0.182	0.0629	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Diethyl phthalate	ND		0.359	0.0394	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Dimethyl phthalate	ND		0.359	0.0468	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Di-n-butyl phthalate	ND		0.359	0.0384	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Di-n-octyl phthalate	ND		0.359	0.0593	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Fluoranthene	ND		0.0726	0.0425	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Fluorene	ND		0.0726	0.0663	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Hexachlorobenzene	ND		0.182	0.0504	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Hexachlorobutadiene	ND		0.182	0.0906	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.182	0.0694	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Hexachloroethane	ND		0.182	0.0714	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0726	0.0616	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Isophorone	ND		0.182	0.0497	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Naphthalene	ND		0.0726	0.0696	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Nitrobenzene	ND		0.182	0.0839	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
N-Nitrosodimethylamine	ND		0.182	0.0477	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
N-Nitrosodi-n-propylamine	ND		0.182	0.0723	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
N-Nitrosodiphenylamine	ND		0.359	0.0458	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pentachloronitrobenzene	ND		0.359	0.0567	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pentachlorophenol	ND		0.359	0.147	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Phenanthrene	ND		0.0726	0.0411	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Phenol	ND		0.359	0.0740	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pyrene	ND		0.0726	0.0400	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pyridine	ND		0.359	0.0850	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
2-Fluorophenol (Surr)	*88*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.276	0.141	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.276	0.118	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Ethylbenzene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Methyl tert-butyl ether	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
m,p-Xylene	ND		0.110	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Naphthalene	ND		0.0551	0.0375	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
o-Xylene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Toluene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.276	0.141	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
C9-C10 Aromatics	ND		0.276	0.0386	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.276	0.118	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/03/23 07:17*	*03/03/23 19:34*	*1*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 19:34*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0220	0.0159	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1221	ND		0.0220	0.00651	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1232	ND		0.0220	0.00610	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0220	0.00348	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1248	ND		0.0220	0.00688	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1254	**0.0363**		0.0220	0.0171	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1262	ND		0.0220	0.00513	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1260	ND		0.0220	0.00474	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1268	ND		0.0220	0.00469	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoroheptanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorononanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorodecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorotridecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorotetradecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorobutanesulfonic acid	ND		2.23	0.446	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorohexanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NEtFOSAA	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NMeFOSAA	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
10:2 FTS	ND		2.23	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoropentanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoroheptanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorononanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorodecanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctanesulfonamide	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorohexadecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctadecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorobutanoic acid	ND		2.23	0.892	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoropentanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NMeFOSE	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NMeFOSA	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NEtFOSE	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NEtFOSA	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
HFPODA	ND		2.23	1.11	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
DONA	ND		3.34	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
9Cl-PF3ONS	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
11Cl-PF3OUdS	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorododecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
4:2 Fluorotelomer sulfonic acid	ND		2.23	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoroundecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.23	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
8:2 Fluorotelomer sulfonic acid	ND		3.34	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
M2-8:2 FTS	*73*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
M2-6:2 FTS	*74*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C5 PFHxA	*77*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C4 PFHpA	*82*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C8 PFOA	*78*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C9 PFNA	*84*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C6 PFDA	*75*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C3 PFBS	*93*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C3 PFHxS	*102*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C8 PFOS	*100*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d3-NMeFOSAA	*13*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d5-NEtFOSAA	*16*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C4 PFBA	*71*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C5 PFPeA	*72*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d7-N-MeFOSE-M	*106*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d9-N-EtFOSE-M	*100*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C3 HFPO-DA	*75*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:15*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		8.99	3.06	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Arsenic	**3.93**	**J**	5.39	2.52	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Barium	**17.0**		0.899	0.270	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Beryllium	**0.299**	**J**	0.899	0.180	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Cadmium	ND		0.899	0.180	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Chromium	**5.20**		2.70	0.629	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Lead	**2.77**		2.70	1.08	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Nickel	**2.53**		1.80	0.467	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Selenium	ND		8.99	2.70	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Silver	ND	^3+	1.80	0.719	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Thallium	ND		5.39	2.34	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Vanadium	**7.87**		1.80	0.773	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Zinc	**9.79**	**^5-**	3.59	1.44	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0658	0.0219	mg/Kg	☼	03/05/23 20:31	03/06/23 17:50	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0204'
Date Collected: 03/01/23 09:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-12
Matrix: Solid
Percent Solids: 89.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.3		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	89.7		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0406'
Lab Sample ID: 620-10051-13
Date Collected: 03/01/23 09:05
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 89.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00505	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Acetone	ND		0.0505	0.0113	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Acrylonitrile	ND		0.00505	0.00303	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Benzene	ND		0.00505	0.00337	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromobenzene	ND		0.00505	0.00336	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromochloromethane	ND		0.00505	0.00287	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromodichloromethane	ND		0.00505	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromoform	ND		0.00505	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromomethane	ND		0.0101	0.00629	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2-Butanone (MEK)	ND		0.0101	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
n-Butylbenzene	ND		0.0101	0.00541	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
sec-Butylbenzene	ND		0.00505	0.00407	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
tert-Butylbenzene	ND		0.00505	0.00398	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Carbon disulfide	ND		0.0101	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Carbon tetrachloride	ND		0.00505	0.00318	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chlorobenzene	ND		0.00505	0.00370	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chloroethane	ND		0.0101	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chloroform	ND		0.00505	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chloromethane	ND		0.0101	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2-Chlorotoluene	ND		0.00505	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
4-Chlorotoluene	ND		0.00505	0.00438	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00428	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Dibromochloromethane	ND		0.00505	0.00334	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dibromoethane (EDB)	ND		0.00505	0.00363	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Dibromomethane	ND		0.00505	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dichlorobenzene	ND		0.00505	0.00469	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3-Dichlorobenzene	ND		0.00505	0.00405	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,4-Dichlorobenzene	ND		0.00505	0.00479	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00271	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1-Dichloroethane	ND		0.00505	0.00342	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dichloroethane	ND		0.00505	0.00340	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1-Dichloroethene	ND		0.00505	0.00309	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
cis-1,2-Dichloroethene	ND		0.00505	0.00292	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
trans-1,2-Dichloroethene	ND		0.00505	0.00314	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dichloropropane	ND		0.00505	0.00334	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3-Dichloropropane	ND		0.00505	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2,2-Dichloropropane	ND		0.00505	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1-Dichloropropene	ND		0.00505	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
cis-1,3-Dichloropropene	ND		0.00505	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
trans-1,3-Dichloropropene	ND		0.00505	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethylbenzene	ND		0.00505	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Hexachlorobutadiene	ND		0.0101	0.00508	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Isopropylbenzene	ND		0.00505	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
4-Isopropyltoluene	ND		0.00505	0.00496	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Methyl tert-butyl ether	ND		0.00505	0.00291	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00326	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Naphthalene	ND		0.00505	0.00457	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Styrene	ND		0.00505	0.00391	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,1,2-Tetrachloroethane	ND		0.00505	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,2,2-Tetrachloroethane	ND		0.00505	0.00463	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Tetrachloroethene	ND		0.00505	0.00281	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Toluene	ND		0.00505	0.00320	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,3-Trichlorobenzene	ND		0.00505	0.00426	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,4-Trichlorobenzene	ND		0.00505	0.00466	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3,5-Trichlorobenzene	ND		0.00505	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,1-Trichloroethane	ND		0.00505	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,2-Trichloroethane	ND		0.00505	0.00381	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Trichloroethene	ND		0.00505	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Trichlorofluoromethane (Freon 11)	ND		0.00505	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,3-Trichloropropane	ND		0.00505	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,4-Trimethylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3,5-Trimethylbenzene	ND		0.00505	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Vinyl chloride	ND		0.00505	0.00308	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
m,p-Xylene	ND		0.00505	0.00690	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
o-Xylene	ND		0.00505	0.00369	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethyl ether	ND		0.00505	0.00266	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Tert-amyl methyl ether	ND		0.00505	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethyl tert-butyl ether	ND		0.00505	0.00332	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
di-Isopropyl ether	ND		0.00505	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,4-Dioxane	ND		0.101	0.0314	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
trans-1,4-Dichloro-2-butene	ND		0.0252	0.00373	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethanol	ND		1.01	0.0626	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3-Dichloropropene, Total	ND		0.00505	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Xylenes, Total	ND		0.0151	0.00505	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.727	0.129	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,2,4-Trichlorobenzene	ND		0.727	0.167	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,2-Dichlorobenzene	ND		0.727	0.140	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,3-Dichlorobenzene	ND		0.727	0.176	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,4-Dichlorobenzene	ND		0.727	0.171	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1-Methylnaphthalene	ND		0.147	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4,5-Trichlorophenol	ND		0.727	0.0833	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4,6-Trichlorophenol	ND		0.368	0.0899	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4-Dichlorophenol	ND		0.368	0.146	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4-Dimethylphenol	ND		0.727	0.107	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4-Dinitrophenol	ND		0.727	0.191	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0406'
Date Collected: 03/01/23 09:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-13
Matrix: Solid
Percent Solids: 89.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.368	0.0861	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,6-Dinitrotoluene	ND		0.368	0.0861	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Chloronaphthalene	ND		0.727	0.168	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Chlorophenol	ND		0.368	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Methylnaphthalene	ND		0.147	0.109	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Methylphenol	ND		0.727	0.106	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Nitroaniline	ND		0.727	0.0692	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Nitrophenol	ND		0.368	0.131	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
3 & 4 Methylphenol	ND		0.727	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
3,3'-Dichlorobenzidine	ND		0.727	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
3-Nitroaniline	ND		0.727	0.0650	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4,6-Dinitro-2-methylphenol	ND		0.727	0.131	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Bromophenyl phenyl ether	ND		0.727	0.0822	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Chloro-3-methylphenol	ND		0.727	0.142	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Chloroaniline	ND		0.368	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Chlorophenyl phenyl ether	ND		0.727	0.0778	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Nitroaniline	ND		0.368	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Nitrophenol	ND		0.727	0.253	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Acenaphthene	ND		0.147	0.117	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Acenaphthylene	ND		0.147	0.0965	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Acetophenone	ND		0.368	0.0897	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Aniline	ND		0.727	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Anthracene	ND		0.147	0.0850	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Azobenzene/Diphenyldiazene	ND		0.727	0.124	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzidine	ND	*-	1.45	0.215	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[a]anthracene	ND		0.147	0.0826	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[a]pyrene	ND		0.147	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[b]fluoranthene	ND		0.147	0.122	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[g,h,i]perylene	ND		0.147	0.115	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[k]fluoranthene	ND		0.147	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzoic acid	ND		0.727	0.500	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzyl alcohol	ND		0.727	0.132	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Bis(2-chloroethoxy)methane	ND		0.727	0.126	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Bis(2-chloroethyl)ether	ND		0.368	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
bis (2-chloroisopropyl) ether	ND		0.368	0.164	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Bis(2-ethylhexyl) phthalate	ND		0.368	0.0936	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Butyl benzyl phthalate	ND		0.727	0.0729	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Carbazole	ND		0.368	0.0963	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Chrysene	ND		0.147	0.0831	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Dibenz(a,h)anthracene	ND		0.147	0.112	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Dibenzofuran	ND		0.368	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Diethyl phthalate	ND		0.727	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Dimethyl phthalate	ND		0.727	0.0947	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Di-n-butyl phthalate	ND		0.727	0.0778	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Di-n-octyl phthalate	ND		0.727	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Fluoranthene	ND		0.147	0.0861	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Fluorene	ND		0.147	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Hexachlorobenzene	ND		0.368	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Hexachlorobutadiene	ND		0.368	0.184	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.368	0.141	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Hexachloroethane	ND		0.368	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Indeno[1,2,3-cd]pyrene	ND		0.147	0.125	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Isophorone	ND		0.368	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Naphthalene	ND		0.147	0.141	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Nitrobenzene	ND		0.368	0.170	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
N-Nitrosodimethylamine	ND		0.368	0.0965	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
N-Nitrosodi-n-propylamine	ND		0.368	0.146	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
N-Nitrosodiphenylamine	ND		0.727	0.0927	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pentachloronitrobenzene	ND		0.727	0.115	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pentachlorophenol	ND		0.727	0.297	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Phenanthrene	ND		0.147	0.0833	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Phenol	ND		0.727	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pyrene	ND		0.147	0.0811	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pyridine	ND		0.727	0.172	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
Nitrobenzene-d5 (Surr)	*48*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:53*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.268	0.137	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.268	0.115	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Ethylbenzene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Methyl tert-butyl ether	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
m,p-Xylene	ND		0.107	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Naphthalene	ND		0.0536	0.0364	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
o-Xylene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Toluene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
C5-C8 Aliphatics (unadjusted)	ND		0.268	0.137	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
C9-C10 Aromatics	ND		0.268	0.0375	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
C9-C12 Aliphatics (unadjusted)	ND		0.268	0.115	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:13*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:13*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0219	0.0158	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1221	ND		0.0219	0.00646	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1232	ND		0.0219	0.00606	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0219	0.00346	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1248	ND		0.0219	0.00684	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1254	**0.0277**		0.0219	0.0170	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1262	ND		0.0219	0.00510	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1260	ND		0.0219	0.00470	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1268	ND		0.0219	0.00466	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoroheptanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorononanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorodecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorotridecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorotetradecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorobutanesulfonic acid	ND		2.09	0.419	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorohexanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NEtFOSAA	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NMeFOSAA	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
10:2 FTS	ND		2.09	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoropentanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoroheptanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorononanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorodecanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctanesulfonamide	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorohexadecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctadecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorobutanoic acid	ND		2.09	0.838	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoropentanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NMeFOSE	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NMeFOSA	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NEtFOSE	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NEtFOSA	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
HFPODA	ND		2.09	1.05	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
DONA	ND		3.14	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
9Cl-PF3ONS	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
11Cl-PF3OUdS	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorododecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
4:2 Fluorotelomer sulfonic acid	ND		2.09	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoroundecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.09	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
8:2 Fluorotelomer sulfonic acid	ND		3.14	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
M2-8:2 FTS	*88*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
M2-6:2 FTS	*80*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C4 PFHpA	*91*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C8 PFOA	*89*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C9 PFNA	*90*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C6 PFDA	*90*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C7 PFUnA	*87*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C2 PFTeDA	*97*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C3 PFBS	*92*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C3 PFHxS	*97*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C8 PFOS	*98*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d3-NMeFOSAA	*17*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d5-NEtFOSAA	*21*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C8 FOSA	*96*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C4 PFBA	*77*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C5 PFPeA	*77*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d3-NMePFOSA	*82*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d9-N-EtFOSE-M	*88*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d5-NEtPFOSA	*87*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:37*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.71	1.60	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Arsenic	**3.43**		2.82	1.32	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Barium	**14.2**		0.471	0.141	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Beryllium	**0.224**	**J**	0.471	0.0941	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Cadmium	ND		0.471	0.0941	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Chromium	**5.13**		1.41	0.329	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Lead	**2.45**		1.41	0.565	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Nickel	**1.74**		0.941	0.245	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Selenium	ND		4.71	1.41	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Silver	ND	^3+	0.941	0.377	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Thallium	ND		2.82	1.22	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Vanadium	**6.07**		0.941	0.405	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Zinc	**7.07**	**^5-**	1.88	0.753	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0672	0.0224	mg/Kg	☼	03/05/23 20:31	03/06/23 17:52	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	89.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0608'
Date Collected: 03/01/23 09:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-14
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Acetone	ND		0.0569	0.0128	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Acrylonitrile	ND		0.00569	0.00342	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Benzene	ND		0.00569	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromobenzene	ND		0.00569	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromochloromethane	ND		0.00569	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromodichloromethane	ND		0.00569	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromoform	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromomethane	ND		0.0114	0.00709	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2-Butanone (MEK)	ND		0.0114	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
n-Butylbenzene	ND		0.0114	0.00610	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
sec-Butylbenzene	ND		0.00569	0.00459	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
tert-Butylbenzene	ND		0.00569	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Carbon disulfide	ND		0.0114	0.00400	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Carbon tetrachloride	ND		0.00569	0.00359	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chlorobenzene	ND		0.00569	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chloroethane	ND		0.0114	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chloroform	ND		0.00569	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chloromethane	ND		0.0114	0.00437	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2-Chlorotoluene	ND		0.00569	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
4-Chlorotoluene	ND		0.00569	0.00494	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dibromo-3-Chloropropane	ND		0.0114	0.00483	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Dibromochloromethane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dibromoethane (EDB)	ND		0.00569	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Dibromomethane	ND		0.00569	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dichlorobenzene	ND		0.00569	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3-Dichlorobenzene	ND		0.00569	0.00457	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,4-Dichlorobenzene	ND		0.00569	0.00540	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1-Dichloroethane	ND		0.00569	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dichloroethane	ND		0.00569	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1-Dichloroethene	ND		0.00569	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
cis-1,2-Dichloroethene	ND		0.00569	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
trans-1,2-Dichloroethene	ND		0.00569	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dichloropropane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3-Dichloropropane	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2,2-Dichloropropane	ND		0.00569	0.00393	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1-Dichloropropene	ND		0.00569	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
cis-1,3-Dichloropropene	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
trans-1,3-Dichloropropene	ND		0.00569	0.00433	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethylbenzene	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Hexachlorobutadiene	ND		0.0114	0.00573	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2-Hexanone (MBK)	ND		0.0114	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Isopropylbenzene	ND		0.00569	0.00430	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
4-Isopropyltoluene	ND		0.00569	0.00559	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Methyl tert-butyl ether	ND		0.00569	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.0114	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Methylene Chloride	ND		0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Naphthalene	ND		0.00569	0.00515	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00569	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Styrene	ND		0.00569	0.00441	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,1,2-Tetrachloroethane	ND		0.00569	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,2,2-Tetrachloroethane	ND		0.00569	0.00521	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Tetrachloroethene	ND		0.00569	0.00316	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Toluene	ND		0.00569	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,3-Trichlorobenzene	ND		0.00569	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,4-Trichlorobenzene	ND		0.00569	0.00525	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3,5-Trichlorobenzene	ND		0.00569	0.00541	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,1-Trichloroethane	ND		0.00569	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,2-Trichloroethane	ND		0.00569	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Trichloroethene	ND		0.00569	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Trichlorofluoromethane (Freon 11)	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,3-Trichloropropane	ND		0.00569	0.00505	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,4-Trimethylbenzene	ND		0.00569	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3,5-Trimethylbenzene	ND		0.00569	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Vinyl chloride	ND		0.00569	0.00347	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
m,p-Xylene	ND		0.00569	0.00778	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
o-Xylene	ND		0.00569	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Tetrahydrofuran	ND		0.0114	0.00288	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethyl ether	ND		0.00569	0.00299	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Tert-amyl methyl ether	ND		0.00569	0.00450	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethyl tert-butyl ether	ND		0.00569	0.00375	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
di-Isopropyl ether	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
tert-Butanol	ND		0.114	0.0305	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,4-Dioxane	ND		0.114	0.0354	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
trans-1,4-Dichloro-2-butene	ND		0.0285	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethanol	ND		1.14	0.0706	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3-Dichloropropene, Total	ND		0.00569	0.00433	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Xylenes, Total	ND		0.0171	0.00569	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.354	0.0629	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,2,4-Trichlorobenzene	ND		0.354	0.0811	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,2-Dichlorobenzene	ND		0.354	0.0682	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,3-Dichlorobenzene	ND		0.354	0.0857	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,4-Dichlorobenzene	ND		0.354	0.0833	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1-Methylnaphthalene	ND		0.0715	0.0601	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4,5-Trichlorophenol	ND		0.354	0.0405	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4,6-Trichlorophenol	ND		0.179	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4-Dichlorophenol	ND		0.179	0.0713	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4-Dimethylphenol	ND		0.354	0.0519	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4-Dinitrophenol	ND		0.354	0.0931	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0608'
Date Collected: 03/01/23 09:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-14
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0419	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,6-Dinitrotoluene	ND		0.179	0.0419	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Chloronaphthalene	ND		0.354	0.0818	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Chlorophenol	ND		0.179	0.0732	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Methylnaphthalene	ND		0.0715	0.0529	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Methylphenol	ND		0.354	0.0517	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Nitroaniline	ND		0.354	0.0337	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Nitrophenol	ND		0.179	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
3 & 4 Methylphenol	ND		0.354	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
3,3'-Dichlorobenzidine	ND		0.354	0.0584	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
3-Nitroaniline	ND		0.354	0.0316	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4,6-Dinitro-2-methylphenol	ND		0.354	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Bromophenyl phenyl ether	ND		0.354	0.0400	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Chloro-3-methylphenol	ND		0.354	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Chlorophenyl phenyl ether	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Nitroaniline	ND		0.179	0.0565	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Nitrophenol	ND		0.354	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Acenaphthene	ND		0.0715	0.0571	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Acenaphthylene	ND		0.0715	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Acetophenone	ND		0.179	0.0436	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Aniline	ND		0.354	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Anthracene	ND		0.0715	0.0414	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Azobenzene/Diphenyldiazene	ND		0.354	0.0604	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzidine	ND	*-	0.708	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[a]anthracene	ND		0.0715	0.0402	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[a]pyrene	ND		0.0715	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[b]fluoranthene	ND		0.0715	0.0593	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[g,h,i]perylene	ND		0.0715	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[k]fluoranthene	ND		0.0715	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzoic acid	ND		0.354	0.243	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzyl alcohol	ND		0.354	0.0641	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Bis(2-chloroethoxy)methane	ND		0.354	0.0616	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Bis(2-chloroethyl)ether	ND		0.179	0.0586	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Bis(2-ethylhexyl) phthalate	ND		0.179	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Butyl benzyl phthalate	ND		0.354	0.0355	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Carbazole	ND		0.179	0.0469	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Chrysene	ND		0.0715	0.0404	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Dibenz(a,h)anthracene	ND		0.0715	0.0546	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Dibenzofuran	ND		0.179	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Diethyl phthalate	ND		0.354	0.0388	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Dimethyl phthalate	ND		0.354	0.0461	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Di-n-butyl phthalate	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Di-n-octyl phthalate	ND		0.354	0.0584	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Fluoranthene	ND		0.0715	0.0419	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Fluorene	ND		0.0715	0.0653	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Hexachlorobenzene	ND		0.179	0.0497	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Hexachlorobutadiene	ND		0.179	0.0893	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0684	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Hexachloroethane	ND		0.179	0.0703	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0715	0.0607	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Isophorone	ND		0.179	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Naphthalene	ND		0.0715	0.0686	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Nitrobenzene	ND		0.179	0.0827	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
N-Nitrosodimethylamine	ND		0.179	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0713	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
N-Nitrosodiphenylamine	ND		0.354	0.0451	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pentachloronitrobenzene	ND		0.354	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pentachlorophenol	ND		0.354	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Phenanthrene	ND		0.0715	0.0405	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Phenol	ND		0.354	0.0729	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pyrene	ND		0.0715	0.0395	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pyridine	ND		0.354	0.0838	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*30 - 130*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
2-Fluorophenol (Surr)	*85*		*15 - 110*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
Nitrobenzene-d5 (Surr)	*50*		*30 - 130*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/03/23 08:01*	*03/08/23 17:21*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Ethylbenzene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Methyl tert-butyl ether	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Naphthalene	ND		0.0520	0.0354	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
o-Xylene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Toluene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
C9-C10 Aromatics	ND		0.260	0.0364	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:52*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:52*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0216	0.0156	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1221	ND		0.0216	0.00639	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1232	ND		0.0216	0.00599	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0216	0.00342	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1248	ND		0.0216	0.00676	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1254	ND		0.0216	0.0168	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1262	ND		0.0216	0.00504	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1260	ND		0.0216	0.00465	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1268	ND		0.0216	0.00461	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoroheptanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorononanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorodecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorotridecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorotetradecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorobutanesulfonic acid	ND		2.01	0.401	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorohexanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NEtFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NMeFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
10:2 FTS	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoropentanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoroheptanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorononanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorodecanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctanesulfonamide	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorohexadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorobutanoic acid	ND		2.01	0.803	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoropentanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NMeFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NMeFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NEtFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NEtFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
HFPODA	ND		2.01	1.00	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
DONA	ND		3.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
9Cl-PF3ONS	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
11Cl-PF3OUdS	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorododecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
4:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoroundecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
8:2 Fluorotelomer sulfonic acid	ND		3.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*98*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
M2-6:2 FTS	*97*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C5 PFHxA	*110*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C8 PFOA	*110*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C9 PFNA	*104*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C6 PFDA	*102*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C7 PFUnA	*107*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C2-PFDoDA	*102*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C3 PFBS	*105*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C8 PFOS	*107*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d3-NMeFOSAA	*75*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d5-NEtFOSAA	*84*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C4 PFBA	*105*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C5 PFPeA	*101*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d9-N-EtFOSE-M	*98*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d5-NEtPFOSA	*96*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.52	1.54	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Arsenic	**2.85**		2.71	1.27	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Barium	**12.9**		0.452	0.136	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Beryllium	**0.216**	**J**	0.452	0.0905	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Cadmium	ND		0.452	0.0905	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Chromium	**6.84**		1.36	0.317	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Lead	**3.46**		1.36	0.543	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Nickel	**2.40**		0.905	0.235	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Selenium	ND		4.52	1.36	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Silver	ND	^3+	0.905	0.362	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Thallium	ND		2.71	1.18	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Vanadium	**7.29**		0.905	0.389	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Zinc	**8.84**		1.81	0.724	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0651	0.0217	mg/Kg	☼	03/05/23 20:31	03/06/23 17:54	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	90.6		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'
Date Collected: 03/01/23 09:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-15
Matrix: Solid
Percent Solids: 81.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00564	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Acetone	ND		0.0564	0.0126	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Acrylonitrile	ND		0.00564	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Benzene	ND		0.00564	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromobenzene	ND		0.00564	0.00376	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromochloromethane	ND		0.00564	0.00320	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromodichloromethane	ND		0.00564	0.00414	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromoform	ND		0.00564	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromomethane	ND		0.0113	0.00703	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2-Butanone (MEK)	ND		0.0113	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
n-Butylbenzene	ND		0.0113	0.00605	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
sec-Butylbenzene	ND		0.00564	0.00455	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
tert-Butylbenzene	ND		0.00564	0.00445	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Carbon disulfide	ND		0.0113	0.00396	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Carbon tetrachloride	ND		0.00564	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chlorobenzene	ND		0.00564	0.00413	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chloroethane	ND		0.0113	0.00414	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chloroform	ND		0.00564	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chloromethane	ND		0.0113	0.00433	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2-Chlorotoluene	ND		0.00564	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
4-Chlorotoluene	ND		0.00564	0.00490	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0113	0.00478	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Dibromochloromethane	ND		0.00564	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dibromoethane (EDB)	ND		0.00564	0.00405	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Dibromomethane	ND		0.00564	0.00332	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dichlorobenzene	ND		0.00564	0.00524	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3-Dichlorobenzene	ND		0.00564	0.00452	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,4-Dichlorobenzene	ND		0.00564	0.00535	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0113	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1-Dichloroethane	ND		0.00564	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dichloroethane	ND		0.00564	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1-Dichloroethene	ND		0.00564	0.00345	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
cis-1,2-Dichloroethene	ND		0.00564	0.00326	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
trans-1,2-Dichloroethene	ND		0.00564	0.00351	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dichloropropane	ND		0.00564	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3-Dichloropropane	ND		0.00564	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2,2-Dichloropropane	ND		0.00564	0.00389	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1-Dichloropropene	ND		0.00564	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
cis-1,3-Dichloropropene	ND		0.00564	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
trans-1,3-Dichloropropene	ND		0.00564	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethylbenzene	ND		0.00564	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Hexachlorobutadiene	ND		0.0113	0.00568	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2-Hexanone (MBK)	ND		0.0113	0.00332	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Isopropylbenzene	ND		0.00564	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
4-Isopropyltoluene	ND		0.00564	0.00554	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Methyl tert-butyl ether	ND		0.00564	0.00325	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0113	0.00364	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Methylene Chloride	ND		0.0113	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Naphthalene	ND		0.00564	0.00510	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00564	0.00477	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Styrene	ND		0.00564	0.00437	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,1,2-Tetrachloroethane	ND		0.00564	0.00423	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,2,2-Tetrachloroethane	ND		0.00564	0.00517	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Tetrachloroethene	ND		0.00564	0.00314	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Toluene	ND		0.00564	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,3-Trichlorobenzene	ND		0.00564	0.00476	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,4-Trichlorobenzene	ND		0.00564	0.00520	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3,5-Trichlorobenzene	ND		0.00564	0.00536	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,1-Trichloroethane	ND		0.00564	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,2-Trichloroethane	ND		0.00564	0.00425	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Trichloroethene	ND		0.00564	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00564	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,3-Trichloropropane	ND		0.00564	0.00501	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,4-Trimethylbenzene	ND		0.00564	0.00477	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3,5-Trimethylbenzene	ND		0.00564	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Vinyl chloride	ND		0.00564	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
m,p-Xylene	ND		0.00564	0.00771	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
o-Xylene	ND		0.00564	0.00412	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Tetrahydrofuran	ND		0.0113	0.00285	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethyl ether	ND		0.00564	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Tert-amyl methyl ether	ND		0.00564	0.00446	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethyl tert-butyl ether	ND		0.00564	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
di-Isopropyl ether	ND		0.00564	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
tert-Butanol	ND		0.113	0.0302	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,4-Dioxane	ND		0.113	0.0351	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
trans-1,4-Dichloro-2-butene	ND		0.0282	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethanol	ND		1.13	0.0700	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3-Dichloropropene, Total	ND		0.00564	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Xylenes, Total	ND		0.0169	0.00564	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.397	0.0705	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,2,4-Trichlorobenzene	ND		0.397	0.0908	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,2-Dichlorobenzene	ND		0.397	0.0764	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,3-Dichlorobenzene	ND		0.397	0.0960	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,4-Dichlorobenzene	ND		0.397	0.0934	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1-Methylnaphthalene	ND		0.0802	0.0673	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4,5-Trichlorophenol	ND		0.397	0.0454	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4,6-Trichlorophenol	ND		0.201	0.0490	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4-Dichlorophenol	ND		0.201	0.0799	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4-Dimethylphenol	ND		0.397	0.0582	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4-Dinitrophenol	ND		0.397	0.104	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'
Date Collected: 03/01/23 09:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-15
Matrix: Solid
Percent Solids: 81.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,6-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Chloronaphthalene	ND		0.397	0.0917	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Chlorophenol	ND		0.201	0.0821	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Methylnaphthalene	ND		0.0802	0.0592	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Methylphenol	ND		0.397	0.0579	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Nitroaniline	ND		0.397	0.0377	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Nitrophenol	ND		0.201	0.0713	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
3 & 4 Methylphenol	ND		0.397	0.0751	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
3,3'-Dichlorobenzidine	ND		0.397	0.0655	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
3-Nitroaniline	ND		0.397	0.0354	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4,6-Dinitro-2-methylphenol	ND		0.397	0.0713	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Bromophenyl phenyl ether	ND		0.397	0.0448	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Chloro-3-methylphenol	ND		0.397	0.0776	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Chloroaniline	ND		0.201	0.0304	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Chlorophenyl phenyl ether	ND		0.397	0.0424	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Nitroaniline	ND		0.201	0.0633	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Nitrophenol	ND		0.397	0.138	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Acenaphthene	ND		0.0802	0.0639	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Acenaphthylene	ND		0.0802	0.0526	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Acetophenone	ND		0.201	0.0489	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Aniline	ND		0.397	0.0304	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Anthracene	ND		0.0802	0.0464	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Azobenzene/Diphenyldiazene	ND		0.397	0.0677	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzidine	ND	*-	0.793	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[a]anthracene	ND		0.0802	0.0451	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[a]pyrene	ND		0.0802	0.0573	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[b]fluoranthene	ND		0.0802	0.0665	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[g,h,i]perylene	ND		0.0802	0.0626	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[k]fluoranthene	ND		0.0802	0.0624	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzoic acid	ND		0.397	0.273	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzyl alcohol	ND		0.397	0.0719	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Bis(2-chloroethoxy)methane	ND		0.397	0.0690	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Bis(2-chloroethyl)ether	ND		0.201	0.0656	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0893	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0511	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Butyl benzyl phthalate	ND		0.397	0.0398	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Carbazole	ND		0.201	0.0525	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Chrysene	ND		0.0802	0.0453	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Dibenz(a,h)anthracene	ND		0.0802	0.0612	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Dibenzofuran	ND		0.201	0.0695	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Diethyl phthalate	ND		0.397	0.0435	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Dimethyl phthalate	ND		0.397	0.0517	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Di-n-butyl phthalate	ND		0.397	0.0424	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Di-n-octyl phthalate	ND		0.397	0.0655	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Fluoranthene	ND		0.0802	0.0470	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Fluorene	ND		0.0802	0.0732	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Hexachlorobenzene	ND		0.201	0.0556	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0767	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Hexachloroethane	ND		0.201	0.0788	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Indeno[1,2,3-cd]pyrene	ND		0.0802	0.0680	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Isophorone	ND		0.201	0.0549	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Naphthalene	ND		0.0802	0.0769	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Nitrobenzene	ND		0.201	0.0926	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
N-Nitrosodimethylamine	ND		0.201	0.0526	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0799	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
N-Nitrosodiphenylamine	ND		0.397	0.0506	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pentachloronitrobenzene	ND		0.397	0.0626	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pentachlorophenol	ND		0.397	0.162	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Phenanthrene	ND		0.0802	0.0454	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Phenol	ND		0.397	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pyrene	ND		0.0802	0.0442	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pyridine	ND		0.397	0.0938	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*15 - 110*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/03/23 08:01*	*03/09/23 14:49*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.334	0.171	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.334	0.143	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Ethylbenzene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Methyl tert-butyl ether	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
m,p-Xylene	ND		0.134	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Naphthalene	ND		0.0668	0.0454	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
o-Xylene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Toluene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
C5-C8 Aliphatics (unadjusted)	ND		0.334	0.171	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
C9-C10 Aromatics	ND		0.334	0.0467	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
C9-C12 Aliphatics (unadjusted)	ND		0.334	0.143	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/03/23 07:17*	*03/03/23 21:32*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/03/23 07:17*	*03/03/23 21:32*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0234	0.0169	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1221	ND		0.0234	0.00693	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1232	ND		0.0234	0.00649	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0234	0.00370	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1248	ND		0.0234	0.00732	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1254	ND		0.0234	0.0182	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1262	ND		0.0234	0.00546	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1260	ND		0.0234	0.00504	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1268	ND		0.0234	0.00499	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*
Tetrachloro-m-xylene	*59*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoroheptanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorononanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorodecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorotridecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorotetradecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorobutanesulfonic acid	ND		2.29	0.458	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorohexanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
10:2 FTS	ND		2.29	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoropentanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoroheptanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorononanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorodecanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctanesulfonamide	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorohexadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorobutanoic acid	ND		2.29	0.917	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoropentanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NMeFOSE	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NMeFOSA	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NEtFOSE	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NEtFOSA	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
HFPODA	ND		2.29	1.15	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
DONA	ND		3.44	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
11Cl-PF3OUdS	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorododecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoroundecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*71*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
M2-8:2 FTS	*77*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
M2-6:2 FTS	*82*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C4 PFHpA	*94*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C8 PFOA	*100*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C9 PFNA	*97*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C6 PFDA	*96*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C7 PFUnA	*102*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C2 PFTeDA	*104*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C3 PFBS	*100*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C3 PFHxS	*99*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C8 PFOS	*104*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d3-NMeFOSAA	*22*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C4 PFBA	*94*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C5 PFPeA	*90*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d9-N-EtFOSE-M	*97*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d5-NEtPFOSA	*96*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C3 HFPO-DA	*84*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.29	1.80	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Arsenic	**8.66**		3.17	1.48	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Barium	**95.0**		0.529	0.159	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Beryllium	**1.23**		0.529	0.106	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Cadmium	ND		0.529	0.106	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Chromium	**26.3**		1.59	0.370	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Lead	**11.7**		1.59	0.634	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Nickel	**14.9**		1.06	0.275	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Selenium	ND		5.29	1.59	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Silver	ND	^3+	1.06	0.423	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Thallium	ND		31.7	13.7	mg/Kg	☼	03/05/23 19:48	03/09/23 20:13	10
Vanadium	**43.0**		1.06	0.455	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Zinc	**58.8**		2.11	0.846	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0701	0.0234	mg/Kg	☼	03/06/23 22:34	03/07/23 18:40	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'
Date Collected: 03/01/23 09:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-15
Matrix: Solid
Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.5		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	81.5		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Acetone	ND		0.0528	0.0118	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Acrylonitrile	ND		0.00528	0.00317	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Benzene	ND		0.00528	0.00353	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromobenzene	ND		0.00528	0.00352	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromochloromethane	ND		0.00528	0.00300	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromodichloromethane	ND		0.00528	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromoform	ND		0.00528	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromomethane	ND		0.0106	0.00658	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2-Butanone (MEK)	ND		0.0106	0.00421	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
n-Butylbenzene	ND		0.0106	0.00566	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
sec-Butylbenzene	ND		0.00528	0.00426	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
tert-Butylbenzene	ND		0.00528	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Carbon tetrachloride	ND		0.00528	0.00333	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chlorobenzene	ND		0.00528	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chloroethane	ND		0.0106	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chloroform	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chloromethane	ND		0.0106	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2-Chlorotoluene	ND		0.00528	0.00421	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
4-Chlorotoluene	ND		0.00528	0.00459	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Dibromochloromethane	ND		0.00528	0.00350	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dibromoethane (EDB)	ND		0.00528	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Dibromomethane	ND		0.00528	0.00311	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dichlorobenzene	ND		0.00528	0.00490	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3-Dichlorobenzene	ND		0.00528	0.00424	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,4-Dichlorobenzene	ND		0.00528	0.00501	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1-Dichloroethane	ND		0.00528	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dichloroethane	ND		0.00528	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1-Dichloroethene	ND		0.00528	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
cis-1,2-Dichloroethene	ND		0.00528	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
trans-1,2-Dichloroethene	ND		0.00528	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dichloropropane	ND		0.00528	0.00350	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3-Dichloropropane	ND		0.00528	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2,2-Dichloropropane	ND		0.00528	0.00365	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1-Dichloropropene	ND		0.00528	0.00359	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
cis-1,3-Dichloropropene	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
trans-1,3-Dichloropropene	ND		0.00528	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethylbenzene	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Hexachlorobutadiene	ND		0.0106	0.00532	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2-Hexanone (MBK)	ND		0.0106	0.00311	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Isopropylbenzene	ND		0.00528	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
4-Isopropyltoluene	ND		0.00528	0.00519	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Methyl tert-butyl ether	ND		0.00528	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Methylene Chloride	ND		0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Naphthalene	ND		0.00528	0.00478	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1

Client Sample ID: 2023-SB-16-1012' **Lab Sample ID: 620-10051-16**
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Styrene	ND		0.00528	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,1,2-Tetrachloroethane	ND		0.00528	0.00396	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,2,2-Tetrachloroethane	ND		0.00528	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Tetrachloroethene	ND		0.00528	0.00294	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Toluene	ND		0.00528	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,3-Trichlorobenzene	ND		0.00528	0.00446	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,4-Trichlorobenzene	ND		0.00528	0.00487	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3,5-Trichlorobenzene	ND		0.00528	0.00502	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,1-Trichloroethane	ND		0.00528	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,2-Trichloroethane	ND		0.00528	0.00398	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Trichloroethene	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00528	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,3-Trichloropropane	ND		0.00528	0.00469	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,4-Trimethylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3,5-Trimethylbenzene	ND		0.00528	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Vinyl chloride	ND		0.00528	0.00322	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
m,p-Xylene	ND		0.00528	0.00722	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
o-Xylene	ND		0.00528	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Tetrahydrofuran	ND		0.0106	0.00267	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethyl ether	ND		0.00528	0.00278	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Tert-amyl methyl ether	ND		0.00528	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethyl tert-butyl ether	ND		0.00528	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
di-Isopropyl ether	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,4-Dioxane	ND		0.106	0.0329	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethanol	ND		1.06	0.0655	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3-Dichloropropene, Total	ND		0.00528	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Xylenes, Total	ND		0.0159	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.427	0.0759	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,2,4-Trichlorobenzene	ND		0.427	0.0977	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,2-Dichlorobenzene	ND		0.427	0.0822	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,3-Dichlorobenzene	ND		0.427	0.103	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,4-Dichlorobenzene	ND		0.427	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1-Methylnaphthalene	ND		0.0862	0.0724	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4,5-Trichlorophenol	ND		0.427	0.0489	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4,6-Trichlorophenol	ND		0.216	0.0527	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4-Dichlorophenol	ND		0.216	0.0860	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4-Dimethylphenol	ND		0.427	0.0626	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4-Dinitrophenol	ND		0.427	0.112	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.216	0.0505	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,6-Dinitrotoluene	ND		0.216	0.0505	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Chloronaphthalene	ND		0.427	0.0986	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Chlorophenol	ND		0.216	0.0883	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Methylnaphthalene	ND		0.0862	0.0637	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Methylphenol	ND		0.427	0.0623	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Nitroaniline	ND		0.427	0.0406	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Nitrophenol	ND		0.216	0.0766	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
3 & 4 Methylphenol	ND		0.427	0.0808	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
3,3'-Dichlorobenzidine	ND		0.427	0.0704	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
3-Nitroaniline	ND		0.427	0.0381	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4,6-Dinitro-2-methylphenol	ND		0.427	0.0766	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Bromophenyl phenyl ether	ND		0.427	0.0482	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Chloro-3-methylphenol	ND		0.427	0.0835	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Chloroaniline	ND		0.216	0.0327	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Chlorophenyl phenyl ether	ND		0.427	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Nitroaniline	ND		0.216	0.0681	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Nitrophenol	ND		0.427	0.149	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Acenaphthene	ND		0.0862	0.0688	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Acenaphthylene	ND		0.0862	0.0566	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Acetophenone	ND		0.216	0.0526	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Aniline	ND		0.427	0.0327	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Anthracene	ND		0.0862	0.0499	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Azobenzene/Diphenyldiazene	ND		0.427	0.0728	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzidine	ND	*-	0.853	0.126	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[a]anthracene	ND		0.0862	0.0485	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[a]pyrene	ND		0.0862	0.0617	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[b]fluoranthene	ND		0.0862	0.0715	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[g,h,i]perylene	ND		0.0862	0.0673	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[k]fluoranthene	ND		0.0862	0.0671	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzoic acid	ND		0.427	0.293	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzyl alcohol	ND		0.427	0.0773	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Bis(2-chloroethoxy)methane	ND		0.427	0.0742	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Bis(2-chloroethyl)ether	ND		0.216	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
bis (2-chloroisopropyl) ether	ND		0.216	0.0960	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Bis(2-ethylhexyl) phthalate	ND		0.216	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Butyl benzyl phthalate	ND		0.427	0.0428	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Carbazole	ND		0.216	0.0565	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Chrysene	ND		0.0862	0.0487	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Dibenz(a,h)anthracene	ND		0.0862	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Dibenzofuran	ND		0.216	0.0747	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Diethyl phthalate	ND		0.427	0.0468	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Dimethyl phthalate	ND		0.427	0.0556	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Di-n-butyl phthalate	ND		0.427	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Di-n-octyl phthalate	ND		0.427	0.0704	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Fluoranthene	ND		0.0862	0.0505	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Fluorene	ND		0.0862	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Hexachlorobenzene	ND		0.216	0.0598	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Hexachlorobutadiene	ND		0.216	0.108	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1

Client Sample ID: 2023-SB-16-1012' **Lab Sample ID: 620-10051-16**
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.216	0.0825	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Hexachloroethane	ND		0.216	0.0848	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0862	0.0732	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Isophorone	ND		0.216	0.0591	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Naphthalene	ND		0.0862	0.0827	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Nitrobenzene	ND		0.216	0.0997	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
N-Nitrosodimethylamine	ND		0.216	0.0566	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
N-Nitrosodi-n-propylamine	ND		0.216	0.0860	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
N-Nitrosodiphenylamine	ND		0.427	0.0544	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pentachloronitrobenzene	ND		0.427	0.0673	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pentachlorophenol	ND		0.427	0.174	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Phenanthrene	ND		0.0862	0.0489	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Phenol	ND		0.427	0.0879	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pyrene	ND		0.0862	0.0476	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pyridine	ND		0.427	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
2-Fluorophenol (Surr)	*111*	*S1+*	*15 - 110*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
2,4,6-Tribromophenol (Surr)	*99*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.114	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Ethylbenzene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Methyl tert-butyl ether	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Naphthalene	ND		0.0531	0.0361	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
o-Xylene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Toluene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
C9-C10 Aromatics	ND		0.265	0.0371	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.114	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:17*	*03/03/23 22:50*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 22:50*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0254	0.0183	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1221	ND		0.0254	0.00750	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1232	ND		0.0254	0.00703	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1

Client Sample ID: 2023-SB-16-1012' **Lab Sample ID: 620-10051-16**
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0254	0.00401	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1248	ND		0.0254	0.00793	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1254	ND		0.0254	0.0197	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1262	ND		0.0254	0.00591	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1260	ND		0.0254	0.00545	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1268	ND		0.0254	0.00540	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*
Tetrachloro-m-xylene	*50*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoroheptanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorononanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorodecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorotridecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorotetradecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorobutanesulfonic acid	ND		2.41	0.482	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorohexanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NEtFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NMeFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
10:2 FTS	ND		2.41	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoropentanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoroheptanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorononanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorodecanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctanesulfonamide	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorohexadecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctadecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorobutanoic acid	ND		2.41	0.963	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoropentanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NMeFOSE	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NMeFOSA	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NEtFOSE	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NEtFOSA	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
HFPODA	ND		2.41	1.20	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
DONA	ND		3.61	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
9Cl-PF3ONS	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
11Cl-PF3OUdS	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorododecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
4:2 Fluorotelomer sulfonic acid	ND		2.41	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoroundecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.41	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
8:2 Fluorotelomer sulfonic acid	ND		3.61	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
M2-8:2 FTS	*93*		*15 - 200*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
M2-6:2 FTS	*89*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C5 PFHxA	*101*		*10 - 174*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C4 PFHpA	*111*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C8 PFOA	*103*		*26 - 159*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C9 PFNA	*101*		*26 - 165*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C7 PFUnA	*105*		*12 - 173*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C2 PFTeDA	*100*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C3 PFBS	*101*		*27 - 179*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C3 PFHxS	*103*		*24 - 171*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C8 PFOS	*108*		*41 - 154*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d3-NMeFOSAA	*41*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d5-NEtFOSAA	*49*		*10 - 193*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C4 PFBA	*99*		*28 - 153*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C5 PFPeA	*93*		*24 - 161*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d3-NMePFOSA	*91*		*10 - 175*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d9-N-EtFOSE-M	*92*		*10 - 185*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d5-NEtPFOSA	*93*		*10 - 180*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C3 HFPO-DA	*104*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:10*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.23**	**J**	4.57	1.55	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Arsenic	**11.2**		2.74	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Barium	**120**		0.457	0.137	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Beryllium	**1.52**		0.457	0.0913	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Cadmium	ND		0.457	0.0913	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Chromium	**35.3**		1.37	0.320	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Lead	**13.9**		1.37	0.548	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Nickel	**20.8**		0.913	0.237	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Selenium	ND		4.57	1.37	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Silver	ND	^3+	0.913	0.365	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Thallium	ND		27.4	11.9	mg/Kg	☼	03/08/23 00:33	03/10/23 04:35	10
Vanadium	**57.7**		0.913	0.393	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Zinc	**77.8**		1.83	0.731	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0782	0.0261	mg/Kg	☼	03/07/23 20:58	03/08/23 12:48	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	24.5		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	75.5		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0002'
Date Collected: 03/01/23 10:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-17
Matrix: Solid
Percent Solids: 96.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00537	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Acetone	ND		0.0537	0.0120	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Acrylonitrile	ND		0.00537	0.00322	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Benzene	ND		0.00537	0.00359	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromobenzene	ND		0.00537	0.00358	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromochloromethane	ND		0.00537	0.00305	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromodichloromethane	ND		0.00537	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromoform	ND		0.00537	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromomethane	ND		0.0107	0.00669	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2-Butanone (MEK)	ND		0.0107	0.00428	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
n-Butylbenzene	ND		0.0107	0.00576	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
sec-Butylbenzene	ND		0.00537	0.00433	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
tert-Butylbenzene	ND		0.00537	0.00423	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Carbon disulfide	ND		0.0107	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Carbon tetrachloride	ND		0.00537	0.00338	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chlorobenzene	ND		0.00537	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chloroethane	ND		0.0107	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chloroform	ND		0.00537	0.00361	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chloromethane	ND		0.0107	0.00413	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2-Chlorotoluene	ND		0.00537	0.00428	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
4-Chlorotoluene	ND		0.00537	0.00466	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dibromo-3-Chloropropane	ND		0.0107	0.00456	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Dibromochloromethane	ND		0.00537	0.00356	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dibromoethane (EDB)	ND		0.00537	0.00386	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Dibromomethane	ND		0.00537	0.00316	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dichlorobenzene	ND		0.00537	0.00499	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3-Dichlorobenzene	ND		0.00537	0.00431	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,4-Dichlorobenzene	ND		0.00537	0.00509	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Dichlorodifluoromethane (Freon 12)	ND		0.0107	0.00288	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1-Dichloroethane	ND		0.00537	0.00364	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dichloroethane	ND		0.00537	0.00362	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1-Dichloroethene	ND		0.00537	0.00329	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
cis-1,2-Dichloroethene	ND		0.00537	0.00310	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
trans-1,2-Dichloroethene	ND		0.00537	0.00334	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dichloropropane	ND		0.00537	0.00356	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3-Dichloropropane	ND		0.00537	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2,2-Dichloropropane	ND		0.00537	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1-Dichloropropene	ND		0.00537	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
cis-1,3-Dichloropropene	ND		0.00537	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
trans-1,3-Dichloropropene	ND		0.00537	0.00408	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethylbenzene	ND		0.00537	0.00384	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Hexachlorobutadiene	ND	F1	0.0107	0.00540	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2-Hexanone (MBK)	ND		0.0107	0.00316	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Isopropylbenzene	ND		0.00537	0.00406	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
4-Isopropyltoluene	ND		0.00537	0.00528	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Methyl tert-butyl ether	ND		0.00537	0.00309	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0107	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Methylene Chloride	ND		0.0107	0.00288	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Naphthalene	ND	F1	0.00537	0.00486	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00537	0.00454	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Styrene	ND		0.00537	0.00416	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,1,2-Tetrachloroethane	ND		0.00537	0.00403	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,2,2-Tetrachloroethane	ND		0.00537	0.00492	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Tetrachloroethene	ND		0.00537	0.00299	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Toluene	ND		0.00537	0.00341	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,3-Trichlorobenzene	ND	F1	0.00537	0.00453	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,4-Trichlorobenzene	ND	F1	0.00537	0.00495	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3,5-Trichlorobenzene	ND		0.00537	0.00510	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,1-Trichloroethane	ND		0.00537	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,2-Trichloroethane	ND		0.00537	0.00405	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Trichloroethene	ND		0.00537	0.00361	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Trichlorofluoromethane (Freon 11)	ND		0.00537	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,3-Trichloropropane	ND		0.00537	0.00477	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,4-Trimethylbenzene	ND		0.00537	0.00454	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3,5-Trimethylbenzene	ND		0.00537	0.00457	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Vinyl chloride	ND		0.00537	0.00328	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
m,p-Xylene	ND		0.00537	0.00734	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
o-Xylene	ND		0.00537	0.00392	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Tetrahydrofuran	ND		0.0107	0.00272	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethyl ether	ND		0.00537	0.00283	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Tert-amyl methyl ether	ND		0.00537	0.00424	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethyl tert-butyl ether	ND		0.00537	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
di-Isopropyl ether	ND		0.00537	0.00384	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
tert-Butanol	ND		0.107	0.0288	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,4-Dioxane	ND		0.107	0.0334	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
trans-1,4-Dichloro-2-butene	ND		0.0269	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethanol	ND		1.07	0.0666	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3-Dichloropropene, Total	ND		0.00537	0.00408	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Xylenes, Total	ND		0.0161	0.00537	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.665	0.118	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,2,4-Trichlorobenzene	ND		0.665	0.152	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,2-Dichlorobenzene	ND		0.665	0.128	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,3-Dichlorobenzene	ND		0.665	0.161	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,4-Dichlorobenzene	ND		0.665	0.156	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1-Methylnaphthalene	ND		0.134	0.113	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4,5-Trichlorophenol	ND		0.665	0.0761	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4,6-Trichlorophenol	ND		0.336	0.0822	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4-Dichlorophenol	ND		0.336	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4-Dimethylphenol	ND		0.665	0.0975	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4-Dinitrophenol	ND		0.665	0.175	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0002'
Date Collected: 03/01/23 10:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-17
Matrix: Solid
Percent Solids: 96.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.336	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,6-Dinitrotoluene	ND		0.336	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Chloronaphthalene	ND		0.665	0.154	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Chlorophenol	ND		0.336	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Methylnaphthalene	ND		0.134	0.0993	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Methylphenol	ND		0.665	0.0971	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Nitroaniline	ND		0.665	0.0632	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Nitrophenol	ND		0.336	0.119	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
3 & 4 Methylphenol	ND		0.665	0.126	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
3,3'-Dichlorobenzidine	ND		0.665	0.110	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
3-Nitroaniline	ND		0.665	0.0594	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4,6-Dinitro-2-methylphenol	ND		0.665	0.119	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Bromophenyl phenyl ether	ND		0.665	0.0751	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Chloro-3-methylphenol	ND		0.665	0.130	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Chloroaniline	ND	F1	0.336	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Chlorophenyl phenyl ether	ND		0.665	0.0711	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Nitroaniline	ND		0.336	0.106	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Nitrophenol	ND		0.665	0.232	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Acenaphthene	ND		0.134	0.107	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Acenaphthylene	ND		0.134	0.0882	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Acetophenone	ND		0.336	0.0820	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Aniline	ND	F1	0.665	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Anthracene	ND		0.134	0.0777	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Azobenzene/Diphenyldiazene	ND		0.665	0.113	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzidine	ND	*- F1	1.33	0.197	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[a]anthracene	ND		0.134	0.0755	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[a]pyrene	ND		0.134	0.0961	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[b]fluoranthene	ND		0.134	0.111	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[g,h,i]perylene	ND		0.134	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[k]fluoranthene	ND		0.134	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzoic acid	ND	F1	0.665	0.457	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzyl alcohol	ND		0.665	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Bis(2-chloroethoxy)methane	ND		0.665	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Bis(2-chloroethyl)ether	ND		0.336	0.110	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
bis (2-chloroisopropyl) ether	ND		0.336	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Bis(2-ethylhexyl) phthalate	**0.0999**	**J**	0.336	0.0856	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Butyl benzyl phthalate	ND		0.665	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Carbazole	ND		0.336	0.0880	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Chrysene	ND		0.134	0.0759	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Dibenz(a,h)anthracene	ND		0.134	0.103	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Dibenzofuran	ND		0.336	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Diethyl phthalate	ND		0.665	0.0729	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Dimethyl phthalate	ND		0.665	0.0866	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Di-n-butyl phthalate	ND		0.665	0.0711	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Di-n-octyl phthalate	ND		0.665	0.110	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Fluoranthene	ND		0.134	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Fluorene	ND		0.134	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Hexachlorobenzene	ND		0.336	0.0932	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Hexachlorobutadiene	ND		0.336	0.168	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND	F1	0.336	0.128	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Hexachloroethane	ND		0.336	0.132	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Indeno[1,2,3-cd]pyrene	ND		0.134	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Isophorone	ND		0.336	0.0920	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Naphthalene	ND		0.134	0.129	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Nitrobenzene	ND		0.336	0.155	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
N-Nitrosodimethylamine	ND		0.336	0.0882	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
N-Nitrosodi-n-propylamine	ND		0.336	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
N-Nitrosodiphenylamine	ND		0.665	0.0848	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pentachloronitrobenzene	ND		0.665	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pentachlorophenol	ND		0.665	0.272	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Phenanthrene	ND		0.134	0.0761	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Phenol	ND		0.665	0.137	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pyrene	ND		0.134	0.0741	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pyridine	ND		0.665	0.157	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
Terphenyl-d14	*73*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.252	0.129	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.252	0.108	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Ethylbenzene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Methyl tert-butyl ether	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Naphthalene	**0.0376**	**J**	0.0504	0.0343	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
o-Xylene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Toluene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
C5-C8 Aliphatics (unadjusted)	ND		0.252	0.129	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
C9-C10 Aromatics	ND		0.252	0.0353	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
C9-C12 Aliphatics (unadjusted)	ND		0.252	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 03:26*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/03/23 07:25*	*03/04/23 03:26*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0204	0.0147	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1221	ND		0.0204	0.00604	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1232	ND		0.0204	0.00566	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0204	0.00323	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1248	ND		0.0204	0.00638	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1254	**0.0880**		0.0204	0.0159	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1262	ND		0.0204	0.00476	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1260	ND		0.0204	0.00439	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1268	ND		0.0204	0.00435	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoroheptanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorononanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorodecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorotridecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorotetradecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorobutanesulfonic acid	ND		1.98	0.395	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorohexanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NEtFOSAA	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NMeFOSAA	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
10:2 FTS	ND		1.98	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoropentanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoroheptanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorononanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorodecanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctanesulfonamide	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorohexadecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctadecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorobutanoic acid	ND		1.98	0.791	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoropentanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NMeFOSE	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NMeFOSA	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NEtFOSE	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NEtFOSA	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
HFPODA	ND		1.98	0.988	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
DONA	ND		2.96	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
9Cl-PF3ONS	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
11Cl-PF3OUdS	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorododecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
4:2 Fluorotelomer sulfonic acid	ND		1.98	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoroundecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.98	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
8:2 Fluorotelomer sulfonic acid	ND		2.96	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
M2-8:2 FTS	*108*		*15 - 200*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
M2-6:2 FTS	*98*		*10 - 200*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C3 PFBS	*108*		*27 - 179*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C8 PFOS	*108*		*41 - 154*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d3-NMeFOSAA	*30*		*10 - 178*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d5-NEtFOSAA	*39*		*10 - 193*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C4 PFBA	*99*		*28 - 153*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d7-N-MeFOSE-M	*97*		*10 - 179*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d3-NMePFOSA	*82*		*10 - 175*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d9-N-EtFOSE-M	*97*		*10 - 185*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/03/23 07:13*	*03/15/23 23:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.09	1.73	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Arsenic	**1.98**	**J**	3.05	1.42	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Barium	**12.5**		0.509	0.153	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Beryllium	**0.191**	**J**	0.509	0.102	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Cadmium	ND		0.509	0.102	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Chromium	**3.82**		1.53	0.356	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Lead	**2.29**		1.53	0.610	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Nickel	**1.80**		1.02	0.264	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Selenium	ND	F2	5.09	1.53	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Silver	ND	^3+	1.02	0.407	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Thallium	ND	F2	3.05	1.32	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Vanadium	**5.44**		1.02	0.437	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Zinc	**7.46**		2.03	0.814	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0593	0.0198	mg/Kg	☼	03/05/23 20:11	03/06/23 11:59	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0002'
Date Collected: 03/01/23 10:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-17
Matrix: Solid
Percent Solids: 96.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.6		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	96.4		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0204'
Date Collected: 03/01/23 10:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-18
Matrix: Solid
Percent Solids: 96.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00507	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Acetone	ND		0.0507	0.0114	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Acrylonitrile	ND		0.00507	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Benzene	ND		0.00507	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromobenzene	ND		0.00507	0.00338	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromochloromethane	ND		0.00507	0.00288	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromodichloromethane	ND		0.00507	0.00372	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromoform	ND		0.00507	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromomethane	ND		0.0101	0.00632	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
n-Butylbenzene	ND		0.0101	0.00543	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
sec-Butylbenzene	ND		0.00507	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
tert-Butylbenzene	ND		0.00507	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Carbon disulfide	ND		0.0101	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Carbon tetrachloride	ND		0.00507	0.00319	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chlorobenzene	ND		0.00507	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chloroethane	ND		0.0101	0.00372	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chloroform	ND		0.00507	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chloromethane	ND		0.0101	0.00389	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2-Chlorotoluene	ND		0.00507	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
4-Chlorotoluene	ND		0.00507	0.00440	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00430	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Dibromochloromethane	ND		0.00507	0.00336	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dibromoethane (EDB)	ND		0.00507	0.00364	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Dibromomethane	ND		0.00507	0.00298	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dichlorobenzene	ND		0.00507	0.00470	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3-Dichlorobenzene	ND		0.00507	0.00407	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,4-Dichlorobenzene	ND		0.00507	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00272	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1-Dichloroethane	ND		0.00507	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dichloroethane	ND		0.00507	0.00342	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1-Dichloroethene	ND		0.00507	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
cis-1,2-Dichloroethene	ND		0.00507	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
trans-1,2-Dichloroethene	ND		0.00507	0.00315	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dichloropropane	ND		0.00507	0.00336	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3-Dichloropropane	ND		0.00507	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2,2-Dichloropropane	ND		0.00507	0.00350	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1-Dichloropropene	ND		0.00507	0.00345	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
cis-1,3-Dichloropropene	ND		0.00507	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
trans-1,3-Dichloropropene	ND		0.00507	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethylbenzene	ND		0.00507	0.00362	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Hexachlorobutadiene	ND		0.0101	0.00510	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2-Hexanone (MBK)	ND		0.0101	0.00298	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Isopropylbenzene	ND		0.00507	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
4-Isopropyltoluene	ND		0.00507	0.00498	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Methyl tert-butyl ether	ND		0.00507	0.00292	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Methylene Chloride	ND		0.0101	0.00272	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Naphthalene	ND		0.00507	0.00458	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00507	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Styrene	ND		0.00507	0.00392	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,1,2-Tetrachloroethane	ND		0.00507	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,2,2-Tetrachloroethane	ND		0.00507	0.00464	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Tetrachloroethene	ND		0.00507	0.00282	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Toluene	ND		0.00507	0.00321	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,3-Trichlorobenzene	ND		0.00507	0.00428	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,4-Trichlorobenzene	ND		0.00507	0.00467	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3,5-Trichlorobenzene	ND		0.00507	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,1-Trichloroethane	ND		0.00507	0.00346	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,2-Trichloroethane	ND		0.00507	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Trichloroethene	ND		0.00507	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Trichlorofluoromethane (Freon 11)	ND		0.00507	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,3-Trichloropropane	ND		0.00507	0.00450	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,4-Trimethylbenzene	ND		0.00507	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3,5-Trimethylbenzene	ND		0.00507	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Vinyl chloride	ND		0.00507	0.00309	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
m,p-Xylene	ND		0.00507	0.00692	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
o-Xylene	ND		0.00507	0.00370	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethyl ether	ND		0.00507	0.00267	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Tert-amyl methyl ether	ND		0.00507	0.00400	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethyl tert-butyl ether	ND		0.00507	0.00334	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
di-Isopropyl ether	ND		0.00507	0.00362	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
tert-Butanol	ND		0.101	0.0272	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethanol	ND		1.01	0.0629	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3-Dichloropropene, Total	ND		0.00507	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Xylenes, Total	ND		0.0152	0.00507	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.340	0.0605	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,2,4-Trichlorobenzene	ND		0.340	0.0780	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,2-Dichlorobenzene	ND		0.340	0.0656	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,3-Dichlorobenzene	ND		0.340	0.0824	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,4-Dichlorobenzene	ND		0.340	0.0801	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1-Methylnaphthalene	ND		0.0688	0.0578	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4,5-Trichlorophenol	ND		0.340	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4,6-Trichlorophenol	ND		0.172	0.0421	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4-Dichlorophenol	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4-Dimethylphenol	ND		0.340	0.0499	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4-Dinitrophenol	ND		0.340	0.0895	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0204'
Date Collected: 03/01/23 10:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-18
Matrix: Solid
Percent Solids: 96.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,6-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Chloronaphthalene	ND		0.340	0.0787	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Chlorophenol	ND		0.172	0.0704	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Methylnaphthalene	ND		0.0688	0.0508	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Methylphenol	ND		0.340	0.0497	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Nitroaniline	ND		0.340	0.0324	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Nitrophenol	ND		0.172	0.0612	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
3 & 4 Methylphenol	ND		0.340	0.0645	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
3,3'-Dichlorobenzidine	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
3-Nitroaniline	ND		0.340	0.0304	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4,6-Dinitro-2-methylphenol	ND		0.340	0.0612	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Bromophenyl phenyl ether	ND		0.340	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Chloro-3-methylphenol	ND		0.340	0.0666	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Chloroaniline	ND		0.172	0.0261	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Chlorophenyl phenyl ether	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Nitroaniline	ND		0.172	0.0544	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Nitrophenol	ND		0.340	0.119	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Acenaphthene	ND		0.0688	0.0549	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Acenaphthylene	ND		0.0688	0.0452	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Acetophenone	ND		0.172	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Aniline	ND		0.340	0.0261	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Anthracene	ND		0.0688	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Azobenzene/Diphenyldiazene	ND		0.340	0.0581	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzidine	ND	*1	0.681	0.101	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[a]anthracene	ND		0.0688	0.0387	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[a]pyrene	ND		0.0688	0.0492	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[b]fluoranthene	ND		0.0688	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[g,h,i]perylene	ND		0.0688	0.0537	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[k]fluoranthene	ND		0.0688	0.0535	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzoic acid	ND		0.340	0.234	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzyl alcohol	ND		0.340	0.0617	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Bis(2-chloroethoxy)methane	ND		0.340	0.0592	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Bis(2-chloroethyl)ether	ND		0.172	0.0563	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
bis (2-chloroisopropyl) ether	ND		0.172	0.0766	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Bis(2-ethylhexyl) phthalate	**0.162**	**J**	0.172	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Butyl benzyl phthalate	ND		0.340	0.0341	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Carbazole	ND		0.172	0.0451	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Chrysene	ND		0.0688	0.0389	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Dibenz(a,h)anthracene	ND		0.0688	0.0525	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Dibenzofuran	ND		0.172	0.0596	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Diethyl phthalate	ND		0.340	0.0373	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Dimethyl phthalate	ND		0.340	0.0443	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Di-n-butyl phthalate	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Di-n-octyl phthalate	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Fluoranthene	ND		0.0688	0.0403	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Fluorene	ND		0.0688	0.0628	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Hexachlorobenzene	ND		0.172	0.0478	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Hexachlorobutadiene	ND		0.172	0.0859	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.172	0.0658	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Hexachloroethane	ND		0.172	0.0677	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0688	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Isophorone	ND		0.172	0.0471	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Naphthalene	ND		0.0688	0.0660	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Nitrobenzene	ND		0.172	0.0795	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
N-Nitrosodimethylamine	ND		0.172	0.0452	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
N-Nitrosodi-n-propylamine	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
N-Nitrosodiphenylamine	ND		0.340	0.0434	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pentachloronitrobenzene	ND		0.340	0.0537	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pentachlorophenol	ND		0.340	0.139	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Phenanthrene	ND		0.0688	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Phenol	ND		0.340	0.0701	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pyrene	ND		0.0688	0.0380	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pyridine	ND		0.340	0.0805	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Ethylbenzene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Methyl tert-butyl ether	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Naphthalene	ND		0.0519	0.0353	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
o-Xylene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Toluene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
C9-C10 Aromatics	ND		0.260	0.0364	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:17*	*03/03/23 23:30*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 23:30*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0148	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1221	ND		0.0205	0.00606	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1232	ND		0.0205	0.00568	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00324	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1248	ND		0.0205	0.00641	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1254	**0.0169**	**J**	0.0205	0.0160	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1262	ND		0.0205	0.00478	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1260	ND		0.0205	0.00441	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1268	ND		0.0205	0.00437	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*
Tetrachloro-m-xylene	*77*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoroheptanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorononanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorodecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorotridecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorotetradecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorobutanesulfonic acid	ND		2.03	0.406	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorohexanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NEtFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NMeFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
10:2 FTS	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoropentanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoroheptanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorononanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorodecanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctanesulfonamide	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorohexadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorobutanoic acid	ND		2.03	0.812	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoropentanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NMeFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NMeFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NEtFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NEtFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
HFPODA	ND		2.03	1.02	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
DONA	ND		3.05	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
9Cl-PF3ONS	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
11Cl-PF3OUdS	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorododecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
4:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoroundecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
8:2 Fluorotelomer sulfonic acid	ND		3.05	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
M2-8:2 FTS	*66*		*15 - 200*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
M2-6:2 FTS	*71*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C5 PFHxA	*75*		*10 - 174*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C4 PFHpA	*77*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C8 PFOA	*74*		*26 - 159*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C9 PFNA	*75*		*26 - 165*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C6 PFDA	*68*		*26 - 161*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C7 PFUnA	*76*		*12 - 173*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C2-PFDoDA	*74*		*11 - 166*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C2 PFTeDA	*78*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C3 PFBS	*66*		*27 - 179*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C3 PFHxS	*73*		*24 - 171*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C8 PFOS	*71*		*41 - 154*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d3-NMeFOSAA	*30*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d5-NEtFOSAA	*33*		*10 - 193*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C8 FOSA	*71*		*14 - 163*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C5 PFPeA	*70*		*24 - 161*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d7-N-MeFOSE-M	*66*		*10 - 179*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d3-NMePFOSA	*62*		*10 - 175*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d9-N-EtFOSE-M	*67*		*10 - 185*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d5-NEtPFOSA	*64*		*10 - 180*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C3 HFPO-DA	*73*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:21*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.98	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Arsenic	**2.38**	**J**	2.99	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Barium	**17.7**		0.498	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Beryllium	**0.210**	**J**	0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Cadmium	ND		0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Chromium	**4.13**		1.49	0.349	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Lead	**3.10**		1.49	0.598	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Nickel	**2.45**		0.996	0.259	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Selenium	ND		4.98	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Silver	ND	^3+	0.996	0.398	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Thallium	ND		2.99	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Vanadium	**6.10**		0.996	0.428	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Zinc	**9.08**		1.99	0.797	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0592	0.0197	mg/Kg	☼	03/14/23 11:01	03/14/23 14:21	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0204'
Date Collected: 03/01/23 10:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-18
Matrix: Solid
Percent Solids: 96.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.5		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	96.5		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'
Date Collected: 03/01/23 10:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-19
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00522	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Acetone	ND		0.0522	0.0117	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Acrylonitrile	ND		0.00522	0.00313	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Benzene	ND		0.00522	0.00349	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromobenzene	ND		0.00522	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromochloromethane	ND		0.00522	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromodichloromethane	ND		0.00522	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromoform	ND		0.00522	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromomethane	ND		0.0104	0.00651	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2-Butanone (MEK)	ND		0.0104	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
n-Butylbenzene	ND		0.0104	0.00560	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
sec-Butylbenzene	ND		0.00522	0.00421	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
tert-Butylbenzene	ND		0.00522	0.00412	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Carbon disulfide	ND		0.0104	0.00367	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Carbon tetrachloride	ND		0.00522	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chlorobenzene	ND		0.00522	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chloroform	ND		0.00522	0.00351	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chloromethane	ND		0.0104	0.00401	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2-Chlorotoluene	ND		0.00522	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
4-Chlorotoluene	ND		0.00522	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00443	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Dibromochloromethane	ND		0.00522	0.00346	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dibromoethane (EDB)	ND		0.00522	0.00375	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Dibromomethane	ND		0.00522	0.00307	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dichlorobenzene	ND		0.00522	0.00485	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3-Dichlorobenzene	ND		0.00522	0.00419	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,4-Dichlorobenzene	ND		0.00522	0.00495	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0104	0.00280	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1-Dichloroethane	ND		0.00522	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dichloroethane	ND		0.00522	0.00352	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1-Dichloroethene	ND		0.00522	0.00320	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
cis-1,2-Dichloroethene	ND		0.00522	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
trans-1,2-Dichloroethene	ND		0.00522	0.00325	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dichloropropane	ND		0.00522	0.00346	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3-Dichloropropane	ND		0.00522	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2,2-Dichloropropane	ND		0.00522	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1-Dichloropropene	ND		0.00522	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
cis-1,3-Dichloropropene	ND		0.00522	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
trans-1,3-Dichloropropene	ND		0.00522	0.00397	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethylbenzene	ND		0.00522	0.00373	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Hexachlorobutadiene	ND		0.0104	0.00525	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2-Hexanone (MBK)	ND		0.0104	0.00307	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Isopropylbenzene	ND		0.00522	0.00395	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
4-Isopropyltoluene	ND		0.00522	0.00513	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Methyl tert-butyl ether	ND		0.00522	0.00301	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00337	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Methylene Chloride	ND		0.0104	0.00280	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Naphthalene	ND		0.00522	0.00472	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Styrene	ND		0.00522	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,1,2-Tetrachloroethane	ND		0.00522	0.00392	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,2,2-Tetrachloroethane	ND		0.00522	0.00478	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Tetrachloroethene	ND		0.00522	0.00290	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Toluene	ND		0.00522	0.00331	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,3-Trichlorobenzene	ND		0.00522	0.00441	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,4-Trichlorobenzene	ND		0.00522	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3,5-Trichlorobenzene	ND		0.00522	0.00496	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,1-Trichloroethane	ND		0.00522	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,2-Trichloroethane	ND		0.00522	0.00394	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Trichloroethene	ND		0.00522	0.00351	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Trichlorofluoromethane (Freon 11)	ND		0.00522	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,3-Trichloropropane	ND		0.00522	0.00464	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,4-Trimethylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3,5-Trimethylbenzene	ND		0.00522	0.00444	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Vinyl chloride	ND		0.00522	0.00319	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
m,p-Xylene	ND		0.00522	0.00713	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
o-Xylene	ND		0.00522	0.00381	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethyl ether	ND		0.00522	0.00275	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Tert-amyl methyl ether	ND		0.00522	0.00413	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethyl tert-butyl ether	ND		0.00522	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
di-Isopropyl ether	ND		0.00522	0.00373	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
tert-Butanol	ND		0.104	0.0280	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,4-Dioxane	ND		0.104	0.0325	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethanol	ND		1.04	0.0648	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3-Dichloropropene, Total	ND		0.00522	0.00397	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Xylenes, Total	ND		0.0157	0.00522	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.343	0.0610	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,2,4-Trichlorobenzene	ND		0.343	0.0786	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,2-Dichlorobenzene	ND		0.343	0.0661	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,3-Dichlorobenzene	ND		0.343	0.0831	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,4-Dichlorobenzene	ND		0.343	0.0808	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1-Methylnaphthalene	ND		0.0694	0.0582	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4,5-Trichlorophenol	ND		0.343	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4,6-Trichlorophenol	ND		0.174	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4-Dichlorophenol	ND		0.174	0.0692	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4-Dimethylphenol	ND		0.343	0.0503	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4-Dinitrophenol	ND		0.343	0.0903	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'
Date Collected: 03/01/23 10:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-19
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.174	0.0407	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,6-Dinitrotoluene	ND		0.174	0.0407	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Chloronaphthalene	ND		0.343	0.0793	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Chlorophenol	ND		0.174	0.0710	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Methylnaphthalene	ND		0.0694	0.0513	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Methylphenol	ND		0.343	0.0501	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Nitroaniline	ND		0.343	0.0327	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Nitrophenol	ND		0.174	0.0617	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
3 & 4 Methylphenol	ND		0.343	0.0650	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
3,3'-Dichlorobenzidine	ND		0.343	0.0567	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
3-Nitroaniline	ND		0.343	0.0307	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4,6-Dinitro-2-methylphenol	ND		0.343	0.0617	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Bromophenyl phenyl ether	ND		0.343	0.0388	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Chloro-3-methylphenol	ND		0.343	0.0672	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Chloroaniline	ND		0.174	0.0263	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Chlorophenyl phenyl ether	ND		0.343	0.0367	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Nitroaniline	ND		0.174	0.0548	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Nitrophenol	ND		0.343	0.120	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Acenaphthene	ND		0.0694	0.0553	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Acenaphthylene	ND		0.0694	0.0455	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Acetophenone	ND		0.174	0.0423	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Aniline	ND		0.343	0.0263	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Anthracene	ND		0.0694	0.0401	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Azobenzene/Diphenyldiazene	ND		0.343	0.0585	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzidine	ND	*1	0.686	0.102	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[a]anthracene	ND		0.0694	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[a]pyrene	ND		0.0694	0.0496	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[b]fluoranthene	ND		0.0694	0.0575	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[g,h,i]perylene	ND		0.0694	0.0542	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[k]fluoranthene	ND		0.0694	0.0540	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzoic acid	ND		0.343	0.236	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzyl alcohol	ND		0.343	0.0622	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Bis(2-chloroethoxy)methane	ND		0.343	0.0597	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Bis(2-chloroethyl)ether	ND		0.174	0.0568	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
bis (2-chloroisopropyl) ether	ND		0.174	0.0773	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Bis(2-ethylhexyl) phthalate	ND		0.174	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Butyl benzyl phthalate	ND		0.343	0.0344	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Carbazole	ND		0.174	0.0454	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Chrysene	ND		0.0694	0.0392	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Dibenz(a,h)anthracene	ND		0.0694	0.0529	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Dibenzofuran	ND		0.174	0.0601	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Diethyl phthalate	ND		0.343	0.0376	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Dimethyl phthalate	ND		0.343	0.0447	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Di-n-butyl phthalate	ND		0.343	0.0367	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Di-n-octyl phthalate	ND		0.343	0.0567	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Fluoranthene	ND		0.0694	0.0407	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Fluorene	ND		0.0694	0.0633	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Hexachlorobenzene	ND		0.174	0.0481	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Hexachlorobutadiene	ND		0.174	0.0866	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.174	0.0663	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Hexachloroethane	ND		0.174	0.0682	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0694	0.0589	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Isophorone	ND		0.174	0.0475	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Naphthalene	ND		0.0694	0.0666	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Nitrobenzene	ND		0.174	0.0802	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
N-Nitrosodimethylamine	ND		0.174	0.0455	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
N-Nitrosodi-n-propylamine	ND		0.174	0.0692	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
N-Nitrosodiphenylamine	ND		0.343	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pentachloronitrobenzene	ND		0.343	0.0542	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pentachlorophenol	ND		0.343	0.140	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Phenanthrene	ND		0.0694	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Phenol	ND		0.343	0.0707	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pyrene	ND		0.0694	0.0383	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pyridine	ND		0.343	0.0812	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:36*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.193	0.0986	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.193	0.0824	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Ethylbenzene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Methyl tert-butyl ether	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
m,p-Xylene	ND		0.0770	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Naphthalene	ND		0.0385	0.0262	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
o-Xylene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Toluene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
C5-C8 Aliphatics (unadjusted)	ND		0.193	0.0986	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
C9-C10 Aromatics	ND		0.193	0.0270	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
C9-C12 Aliphatics (unadjusted)	ND		0.193	0.0824	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:17*	*03/04/23 00:09*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/04/23 00:09*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.206	0.149	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1221	ND		0.206	0.0610	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1232	ND		0.206	0.0572	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.206	0.0326	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1248	ND		0.206	0.0645	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1254	**1.09**		0.206	0.161	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1262	ND		0.206	0.0481	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1260	ND		0.206	0.0444	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1268	ND		0.206	0.0440	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoroheptanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorononanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorodecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorotridecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorotetradecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorobutanesulfonic acid	ND		2.01	0.402	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorohexanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NEtFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NMeFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
10:2 FTS	ND		2.01	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoropentanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoroheptanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorononanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorodecanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctanesulfonamide	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorohexadecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctadecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorobutanoic acid	ND		2.01	0.804	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoropentanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NMeFOSE	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NMeFOSA	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NEtFOSE	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NEtFOSA	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
HFPODA	ND		2.01	1.01	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
DONA	ND		3.02	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
9Cl-PF3ONS	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
11Cl-PF3OUdS	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorododecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
4:2 Fluorotelomer sulfonic acid	ND		2.01	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoroundecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.01	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
8:2 Fluorotelomer sulfonic acid	ND		3.02	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C4 PFHpA	*104*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C6 PFDA	*98*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C7 PFUnA	*106*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C2-PFDoDA	*98*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C2 PFTeDA	*113*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C3 PFBS	*106*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C8 PFOS	*104*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d3-NMeFOSAA	*27*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d5-NEtFOSAA	*32*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C8 FOSA	*94*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C4 PFBA	*98*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C5 PFPeA	*96*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d7-N-MeFOSE-M	*88*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d9-N-EtFOSE-M	*89*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d5-NEtPFOSA	*81*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C3 HFPO-DA	*98*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:06*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.98	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Arsenic	**2.74**	**J**	2.99	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Barium	**13.3**		0.498	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Beryllium	**0.143**	**J**	0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Cadmium	ND		0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Chromium	**4.29**		1.49	0.348	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Lead	**2.05**		1.49	0.597	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Nickel	**1.51**		0.996	0.259	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Selenium	ND		4.98	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Silver	ND	^3+	0.996	0.398	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Thallium	ND		2.99	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Vanadium	**4.85**		0.996	0.428	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Zinc	**7.74**		1.99	0.797	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0603	0.0201	mg/Kg	☼	03/07/23 20:58	03/08/23 12:15	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'
Date Collected: 03/01/23 10:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-19
Matrix: Solid
Percent Solids: 94.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.3		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	94.7		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0608'
Date Collected: 03/01/23 10:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-20
Matrix: Solid
Percent Solids: 94.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00555	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Acetone	ND		0.0555	0.0124	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Acrylonitrile	ND		0.00555	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Benzene	ND		0.00555	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromobenzene	ND		0.00555	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromochloromethane	ND		0.00555	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromodichloromethane	ND		0.00555	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromoform	ND		0.00555	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromomethane	ND		0.0111	0.00692	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2-Butanone (MEK)	ND		0.0111	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
n-Butylbenzene	ND		0.0111	0.00595	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
sec-Butylbenzene	ND		0.00555	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
tert-Butylbenzene	ND		0.00555	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Carbon disulfide	ND		0.0111	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Carbon tetrachloride	ND		0.00555	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chlorobenzene	ND		0.00555	0.00406	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chloroethane	ND		0.0111	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chloroform	ND		0.00555	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chloromethane	ND		0.0111	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2-Chlorotoluene	ND		0.00555	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
4-Chlorotoluene	ND		0.00555	0.00482	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dibromo-3-Chloropropane	ND		0.0111	0.00471	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Dibromochloromethane	ND		0.00555	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dibromoethane (EDB)	ND		0.00555	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Dibromomethane	ND		0.00555	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dichlorobenzene	ND		0.00555	0.00515	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3-Dichlorobenzene	ND		0.00555	0.00445	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,4-Dichlorobenzene	ND		0.00555	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Dichlorodifluoromethane (Freon 12)	ND		0.0111	0.00298	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1-Dichloroethane	ND		0.00555	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dichloroethane	ND		0.00555	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1-Dichloroethene	ND		0.00555	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
cis-1,2-Dichloroethene	ND		0.00555	0.00321	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
trans-1,2-Dichloroethene	ND		0.00555	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dichloropropane	ND		0.00555	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3-Dichloropropane	ND		0.00555	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2,2-Dichloropropane	ND		0.00555	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1-Dichloropropene	ND		0.00555	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
cis-1,3-Dichloropropene	ND		0.00555	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
trans-1,3-Dichloropropene	ND		0.00555	0.00422	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethylbenzene	ND		0.00555	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Hexachlorobutadiene	ND		0.0111	0.00559	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2-Hexanone (MBK)	ND		0.0111	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Isopropylbenzene	ND		0.00555	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
4-Isopropyltoluene	ND		0.00555	0.00545	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Methyl tert-butyl ether	ND		0.00555	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		0.0111	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Methylene Chloride	ND		0.0111	0.00298	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Naphthalene	ND		0.00555	0.00502	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00555	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Styrene	ND		0.00555	0.00430	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,1,2-Tetrachloroethane	ND		0.00555	0.00416	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,2,2-Tetrachloroethane	ND		0.00555	0.00509	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Tetrachloroethene	ND		0.00555	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Toluene	ND		0.00555	0.00352	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,3-Trichlorobenzene	ND		0.00555	0.00469	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,4-Trichlorobenzene	ND		0.00555	0.00512	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3,5-Trichlorobenzene	ND		0.00555	0.00528	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,1-Trichloroethane	ND		0.00555	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,2-Trichloroethane	ND		0.00555	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Trichloroethene	ND		0.00555	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Trichlorofluoromethane (Freon 11)	ND		0.00555	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,3-Trichloropropane	ND		0.00555	0.00493	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,4-Trimethylbenzene	ND		0.00555	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3,5-Trimethylbenzene	ND		0.00555	0.00472	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Vinyl chloride	ND		0.00555	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
m,p-Xylene	ND		0.00555	0.00759	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
o-Xylene	ND		0.00555	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Tetrahydrofuran	ND		0.0111	0.00281	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethyl ether	ND		0.00555	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Tert-amyl methyl ether	ND		0.00555	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethyl tert-butyl ether	ND		0.00555	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
di-Isopropyl ether	ND		0.00555	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
tert-Butanol	ND		0.111	0.0298	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,4-Dioxane	ND		0.111	0.0345	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
trans-1,4-Dichloro-2-butene	ND		0.0278	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethanol	ND		1.11	0.0689	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3-Dichloropropene, Total	ND		0.00555	0.00422	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Xylenes, Total	ND		0.0167	0.00555	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.346	0.0616	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,2,4-Trichlorobenzene	ND		0.346	0.0793	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,2-Dichlorobenzene	ND		0.346	0.0667	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,3-Dichlorobenzene	ND		0.346	0.0838	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,4-Dichlorobenzene	ND		0.346	0.0815	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1-Methylnaphthalene	ND		0.0700	0.0588	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4,5-Trichlorophenol	ND		0.346	0.0397	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4,6-Trichlorophenol	ND		0.175	0.0428	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4-Dichlorophenol	ND		0.175	0.0698	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4-Dimethylphenol	ND		0.346	0.0508	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4-Dinitrophenol	ND		0.346	0.0911	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0608'
Date Collected: 03/01/23 10:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-20
Matrix: Solid
Percent Solids: 94.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,6-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Chloronaphthalene	ND		0.346	0.0800	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Chlorophenol	ND		0.175	0.0717	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Methylnaphthalene	ND		0.0700	0.0517	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Methylphenol	ND		0.346	0.0506	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Nitroaniline	ND		0.346	0.0329	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Nitrophenol	ND		0.175	0.0622	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
3 & 4 Methylphenol	ND		0.346	0.0656	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
3,3'-Dichlorobenzidine	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
3-Nitroaniline	ND		0.346	0.0309	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4,6-Dinitro-2-methylphenol	ND		0.346	0.0622	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Bromophenyl phenyl ether	ND		0.346	0.0391	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Chloro-3-methylphenol	ND		0.346	0.0678	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Chlorophenyl phenyl ether	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Nitroaniline	ND		0.175	0.0553	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Nitrophenol	ND		0.346	0.121	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Acenaphthene	ND		0.0700	0.0558	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Acenaphthylene	ND		0.0700	0.0460	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Acetophenone	ND		0.175	0.0427	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Aniline	ND		0.346	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Anthracene	ND		0.0700	0.0405	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Azobenzene/Diphenyldiazene	ND		0.346	0.0591	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzidine	ND	*1	0.692	0.103	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[a]anthracene	ND		0.0700	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[a]pyrene	ND		0.0700	0.0500	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[b]fluoranthene	ND		0.0700	0.0580	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[g,h,i]perylene	ND		0.0700	0.0547	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[k]fluoranthene	ND		0.0700	0.0545	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzoic acid	ND		0.346	0.238	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzyl alcohol	ND		0.346	0.0627	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Bis(2-chloroethoxy)methane	ND		0.346	0.0602	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Bis(2-chloroethyl)ether	ND		0.175	0.0573	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0780	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Bis(2-ethylhexyl) phthalate	ND		0.175	0.0446	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Butyl benzyl phthalate	ND		0.346	0.0347	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Carbazole	ND		0.175	0.0458	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Chrysene	ND		0.0700	0.0396	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Dibenz(a,h)anthracene	ND		0.0700	0.0534	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Dibenzofuran	ND		0.175	0.0606	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Diethyl phthalate	ND		0.346	0.0380	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Dimethyl phthalate	ND		0.346	0.0451	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Di-n-butyl phthalate	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Di-n-octyl phthalate	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Fluoranthene	ND		0.0700	0.0410	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Fluorene	ND		0.0700	0.0639	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Hexachlorobenzene	ND		0.175	0.0486	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Hexachlorobutadiene	ND		0.175	0.0874	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0669	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Hexachloroethane	ND		0.175	0.0688	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0700	0.0594	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Isophorone	ND		0.175	0.0479	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Naphthalene	ND		0.0700	0.0671	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Nitrobenzene	ND		0.175	0.0809	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
N-Nitrosodimethylamine	ND		0.175	0.0460	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0698	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
N-Nitrosodiphenylamine	ND		0.346	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pentachloronitrobenzene	ND		0.346	0.0547	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pentachlorophenol	ND		0.346	0.142	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Phenanthrene	ND		0.0700	0.0397	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Phenol	ND		0.346	0.0713	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pyrene	ND		0.0700	0.0386	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pyridine	ND		0.346	0.0819	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
2-Fluorophenol (Surr)	*79*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
Nitrobenzene-d5 (Surr)	*52*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:04*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.343	0.176	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.343	0.147	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Ethylbenzene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Methyl tert-butyl ether	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
m,p-Xylene	ND		0.137	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Naphthalene	**0.0534**	**J**	0.0687	0.0467	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
o-Xylene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Toluene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
C5-C8 Aliphatics (unadjusted)	ND		0.343	0.176	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
C9-C10 Aromatics	ND		0.343	0.0481	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
C9-C12 Aliphatics (unadjusted)	ND		0.343	0.147	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 05:24*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:25*	*03/04/23 05:24*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1221	ND		0.0208	0.00614	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1232	ND		0.0208	0.00576	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00328	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1254	ND		0.0208	0.0162	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1262	ND		0.0208	0.00484	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1260	ND		0.0208	0.00447	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*41*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*
DCB Decachlorobiphenyl (Surr)	*43*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*
DCB Decachlorobiphenyl (Surr)	*44*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoroheptanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorononanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorodecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorotridecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorotetradecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorobutanesulfonic acid	ND		2.01	0.401	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorohexanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NEtFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NMeFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
10:2 FTS	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoropentanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoroheptanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorononanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorodecanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctanesulfonamide	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorohexadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorobutanoic acid	ND		2.01	0.803	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoropentanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NMeFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NMeFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NEtFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NEtFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
HFPODA	ND		2.01	1.00	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
DONA	ND		3.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
9Cl-PF3ONS	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
11Cl-PF3OUdS	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorododecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
4:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoroundecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
8:2 Fluorotelomer sulfonic acid	ND		3.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
M2-8:2 FTS	*117*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
M2-6:2 FTS	*108*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C5 PFHxA	*106*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C4 PFHpA	*114*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C8 PFOA	*111*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C6 PFDA	*109*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C2-PFDoDA	*113*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C2 PFTeDA	*128*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d3-NMeFOSAA	*60*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d5-NEtFOSAA	*63*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C8 FOSA	*116*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C5 PFPeA	*106*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d7-N-MeFOSE-M	*110*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d9-N-EtFOSE-M	*107*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d5-NEtPFOSA	*104*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:17*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.92	1.67	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Arsenic	**1.98**	**J**	2.95	1.38	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Barium	**13.8**		0.492	0.148	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Beryllium	**0.153**	**J**	0.492	0.0985	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Cadmium	ND		0.492	0.0985	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Chromium	**3.77**		1.48	0.345	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Lead	**1.87**		1.48	0.591	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Nickel	**1.50**		0.985	0.256	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Selenium	ND		4.92	1.48	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Silver	ND	^3+	0.985	0.394	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Thallium	ND		2.95	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Vanadium	**5.30**		0.985	0.423	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Zinc	**8.34**		1.97	0.788	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0622	0.0207	mg/Kg	☼	03/07/23 20:58	03/08/23 12:17	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0608'
Date Collected: 03/01/23 10:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-20
Matrix: Solid
Percent Solids: 94.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.1		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	94.9		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0810'
Date Collected: 03/01/23 10:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-21
Matrix: Solid
Percent Solids: 87.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00551	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Acetone	ND		0.0551	0.0123	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Acrylonitrile	ND		0.00551	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Benzene	ND		0.00551	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromobenzene	ND		0.00551	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromochloromethane	ND		0.00551	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromodichloromethane	ND		0.00551	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromoform	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromomethane	ND		0.0110	0.00687	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2-Butanone (MEK)	ND		0.0110	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
n-Butylbenzene	ND		0.0110	0.00591	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
sec-Butylbenzene	ND		0.00551	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
tert-Butylbenzene	ND		0.00551	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Carbon disulfide	ND		0.0110	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Carbon tetrachloride	ND		0.00551	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chlorobenzene	ND		0.00551	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chloroethane	ND		0.0110	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chloroform	ND		0.00551	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chloromethane	ND		0.0110	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2-Chlorotoluene	ND		0.00551	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
4-Chlorotoluene	ND		0.00551	0.00478	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0110	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Dibromochloromethane	ND		0.00551	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dibromoethane (EDB)	ND		0.00551	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Dibromomethane	ND		0.00551	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dichlorobenzene	ND		0.00551	0.00511	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3-Dichlorobenzene	ND		0.00551	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,4-Dichlorobenzene	ND		0.00551	0.00522	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0110	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1-Dichloroethane	ND		0.00551	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dichloroethane	ND		0.00551	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1-Dichloroethene	ND		0.00551	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
cis-1,2-Dichloroethene	ND		0.00551	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
trans-1,2-Dichloroethene	ND		0.00551	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dichloropropane	ND		0.00551	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3-Dichloropropane	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2,2-Dichloropropane	ND		0.00551	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1-Dichloropropene	ND		0.00551	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
cis-1,3-Dichloropropene	ND		0.00551	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
trans-1,3-Dichloropropene	ND		0.00551	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethylbenzene	ND		0.00551	0.00393	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Hexachlorobutadiene	ND		0.0110	0.00554	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2-Hexanone (MBK)	ND		0.0110	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Isopropylbenzene	ND		0.00551	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
4-Isopropyltoluene	ND		0.00551	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Methyl tert-butyl ether	ND		0.00551	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00356	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Methylene Chloride	ND		0.0110	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Naphthalene	ND		0.00551	0.00498	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00551	0.00466	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Styrene	ND		0.00551	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,1,2-Tetrachloroethane	ND		0.00551	0.00413	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,2,2-Tetrachloroethane	ND		0.00551	0.00505	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Tetrachloroethene	ND		0.00551	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Toluene	ND		0.00551	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,3-Trichlorobenzene	ND		0.00551	0.00465	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,4-Trichlorobenzene	ND		0.00551	0.00508	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3,5-Trichlorobenzene	ND		0.00551	0.00523	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,1-Trichloroethane	ND		0.00551	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,2-Trichloroethane	ND		0.00551	0.00415	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Trichloroethene	ND		0.00551	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,3-Trichloropropane	ND		0.00551	0.00489	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,4-Trimethylbenzene	ND		0.00551	0.00466	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3,5-Trimethylbenzene	ND		0.00551	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Vinyl chloride	ND		0.00551	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
m,p-Xylene	ND		0.00551	0.00753	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
o-Xylene	ND		0.00551	0.00402	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Tetrahydrofuran	ND		0.0110	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethyl ether	ND		0.00551	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Tert-amyl methyl ether	ND		0.00551	0.00435	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethyl tert-butyl ether	ND		0.00551	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
di-Isopropyl ether	ND		0.00551	0.00393	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
tert-Butanol	ND		0.110	0.0295	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,4-Dioxane	ND		0.110	0.0343	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
trans-1,4-Dichloro-2-butene	ND		0.0276	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethanol	ND		1.10	0.0683	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3-Dichloropropene, Total	ND		0.00551	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Xylenes, Total	ND		0.0165	0.00551	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.370	0.0658	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,2,4-Trichlorobenzene	ND		0.370	0.0847	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,2-Dichlorobenzene	ND		0.370	0.0713	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,3-Dichlorobenzene	ND		0.370	0.0895	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,4-Dichlorobenzene	ND		0.370	0.0871	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1-Methylnaphthalene	ND		0.0747	0.0628	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4,5-Trichlorophenol	ND		0.370	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4,6-Trichlorophenol	ND		0.187	0.0457	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4-Dichlorophenol	ND		0.187	0.0745	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4-Dimethylphenol	ND		0.370	0.0542	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4-Dinitrophenol	ND		0.370	0.0973	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0810'
Date Collected: 03/01/23 10:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-21
Matrix: Solid
Percent Solids: 87.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,6-Dinitrotoluene	ND		0.187	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Chloronaphthalene	ND		0.370	0.0855	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Chlorophenol	ND		0.187	0.0765	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Methylnaphthalene	ND		0.0747	0.0552	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Methylphenol	ND		0.370	0.0540	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Nitroaniline	ND		0.370	0.0352	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Nitrophenol	ND		0.187	0.0665	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
3 & 4 Methylphenol	ND		0.370	0.0700	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
3,3'-Dichlorobenzidine	ND		0.370	0.0611	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
3-Nitroaniline	ND		0.370	0.0331	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4,6-Dinitro-2-methylphenol	ND		0.370	0.0665	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Bromophenyl phenyl ether	ND		0.370	0.0418	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Chloro-3-methylphenol	ND		0.370	0.0724	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Chloroaniline	ND		0.187	0.0284	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Chlorophenyl phenyl ether	ND		0.370	0.0396	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Nitroaniline	ND		0.187	0.0591	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Nitrophenol	ND		0.370	0.129	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Acenaphthene	ND		0.0747	0.0596	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Acenaphthylene	ND		0.0747	0.0491	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Acetophenone	ND		0.187	0.0456	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Aniline	ND		0.370	0.0284	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Anthracene	ND		0.0747	0.0433	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Azobenzene/Diphenyldiazene	ND		0.370	0.0631	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzidine	ND	*1	0.740	0.109	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[a]anthracene	ND		0.0747	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[a]pyrene	ND		0.0747	0.0535	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[b]fluoranthene	ND		0.0747	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[g,h,i]perylene	ND		0.0747	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[k]fluoranthene	ND		0.0747	0.0582	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzoic acid	**1.36**		0.370	0.254	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzyl alcohol	ND		0.370	0.0670	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Bis(2-chloroethoxy)methane	ND		0.370	0.0643	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Bis(2-chloroethyl)ether	ND		0.187	0.0612	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0833	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Bis(2-ethylhexyl) phthalate	ND		0.187	0.0476	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Butyl benzyl phthalate	ND		0.370	0.0371	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Carbazole	ND		0.187	0.0490	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Chrysene	ND		0.0747	0.0422	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Dibenz(a,h)anthracene	ND		0.0747	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Dibenzofuran	ND		0.187	0.0648	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Diethyl phthalate	ND		0.370	0.0406	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Dimethyl phthalate	ND		0.370	0.0482	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Di-n-butyl phthalate	ND		0.370	0.0396	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Di-n-octyl phthalate	ND		0.370	0.0611	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Fluoranthene	ND		0.0747	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Fluorene	ND		0.0747	0.0682	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Hexachlorobenzene	ND		0.187	0.0519	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Hexachlorobutadiene	ND		0.187	0.0933	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0715	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Hexachloroethane	ND		0.187	0.0735	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0747	0.0634	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Isophorone	ND		0.187	0.0512	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Naphthalene	ND		0.0747	0.0717	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Nitrobenzene	ND		0.187	0.0864	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
N-Nitrosodimethylamine	ND		0.187	0.0491	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0745	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
N-Nitrosodiphenylamine	ND		0.370	0.0472	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pentachloronitrobenzene	ND		0.370	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pentachlorophenol	ND		0.370	0.151	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Phenanthrene	ND		0.0747	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Phenol	ND		0.370	0.0762	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pyrene	ND		0.0747	0.0412	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pyridine	ND		0.370	0.0875	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
Phenol-d5 (Surr)	*87*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
2,4,6-Tribromophenol (Surr)	*107*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
Terphenyl-d14	*98*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:33*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.252	0.129	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.252	0.108	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Ethylbenzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Methyl tert-butyl ether	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Naphthalene	ND		0.0505	0.0343	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
o-Xylene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Toluene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
C5-C8 Aliphatics (unadjusted)	ND		0.252	0.129	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
C9-C10 Aromatics	ND		0.252	0.0353	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
C9-C12 Aliphatics (unadjusted)	ND		0.252	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:03*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:03*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0185	0.0133	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1221	ND		0.0185	0.00547	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1232	ND		0.0185	0.00513	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0185	0.00293	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1248	ND		0.0185	0.00579	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1254	**0.0818**		0.0185	0.0144	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1262	ND		0.0185	0.00431	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1260	ND		0.0185	0.00398	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1268	ND		0.0185	0.00394	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoroheptanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorononanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorodecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorotridecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorotetradecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorobutanesulfonic acid	ND		2.15	0.429	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorohexanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NEtFOSAA	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NMeFOSAA	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
10:2 FTS	ND		2.15	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoropentanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoroheptanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorononanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorodecanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctanesulfonamide	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorohexadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorobutanoic acid	ND		2.15	0.858	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoropentanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NMeFOSE	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NMeFOSA	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NEtFOSE	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NEtFOSA	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
HFPODA	ND		2.15	1.07	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
DONA	ND		3.22	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
9Cl-PF3ONS	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
11Cl-PF3OUdS	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorododecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
4:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoroundecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
8:2 Fluorotelomer sulfonic acid	ND		3.22	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*87*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C5 PFHxA	*100*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C4 PFHpA	*105*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C8 PFOA	*102*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C9 PFNA	*108*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C7 PFUnA	*108*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C2-PFDoDA	*105*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C2 PFTeDA	*113*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C3 PFBS	*101*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C3 PFHxS	*101*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C8 PFOS	*105*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d3-NMeFOSAA	*104*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d5-NEtFOSAA	*104*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C4 PFBA	*105*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C5 PFPeA	*103*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d7-N-MeFOSE-M	*97*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C3 HFPO-DA	*106*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.31	1.46	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Arsenic	**2.06**	**J**	2.58	1.21	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Barium	**11.3**		0.431	0.129	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Beryllium	**0.179**	**J**	0.431	0.0861	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Cadmium	ND		0.431	0.0861	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Chromium	**3.53**		1.29	0.302	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Lead	**1.90**		1.29	0.517	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Nickel	**1.54**		0.861	0.224	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Selenium	ND		4.31	1.29	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Silver	ND	^3+	0.861	0.345	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Thallium	ND		2.58	1.12	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Vanadium	**4.39**		0.861	0.370	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Zinc	**5.63**	**^5-**	1.72	0.689	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0640	0.0213	mg/Kg	☼	03/07/23 20:58	03/08/23 12:23	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.1		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	87.9		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-1012'
Date Collected: 03/01/23 10:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-22
Matrix: Solid
Percent Solids: 83.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Acetone	ND		0.0528	0.0118	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Acrylonitrile	ND		0.00528	0.00317	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Benzene	ND		0.00528	0.00353	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromobenzene	ND		0.00528	0.00352	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromochloromethane	ND		0.00528	0.00300	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromodichloromethane	ND		0.00528	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromoform	ND		0.00528	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromomethane	ND		0.0106	0.00658	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2-Butanone (MEK)	ND		0.0106	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
n-Butylbenzene	ND		0.0106	0.00566	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
sec-Butylbenzene	ND		0.00528	0.00425	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
tert-Butylbenzene	ND		0.00528	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Carbon tetrachloride	ND		0.00528	0.00333	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chlorobenzene	ND		0.00528	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chloroethane	ND		0.0106	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chloroform	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chloromethane	ND		0.0106	0.00405	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2-Chlorotoluene	ND		0.00528	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
4-Chlorotoluene	ND		0.00528	0.00458	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Dibromochloromethane	ND		0.00528	0.00349	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dibromoethane (EDB)	ND		0.00528	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Dibromomethane	ND		0.00528	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dichlorobenzene	ND		0.00528	0.00490	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3-Dichlorobenzene	ND		0.00528	0.00423	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,4-Dichlorobenzene	ND		0.00528	0.00500	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1-Dichloroethane	ND		0.00528	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dichloroethane	ND		0.00528	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1-Dichloroethene	ND		0.00528	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
cis-1,2-Dichloroethene	ND		0.00528	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
trans-1,2-Dichloroethene	ND		0.00528	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dichloropropane	ND		0.00528	0.00349	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3-Dichloropropane	ND		0.00528	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2,2-Dichloropropane	ND		0.00528	0.00364	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1-Dichloropropene	ND		0.00528	0.00359	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
cis-1,3-Dichloropropene	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
trans-1,3-Dichloropropene	ND		0.00528	0.00401	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethylbenzene	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Hexachlorobutadiene	ND		0.0106	0.00531	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2-Hexanone (MBK)	ND		0.0106	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Isopropylbenzene	ND		0.00528	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
4-Isopropyltoluene	ND		0.00528	0.00518	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Methyl tert-butyl ether	ND		0.00528	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Methylene Chloride	**0.00518**	**J**	0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Naphthalene	ND		0.00528	0.00477	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Styrene	ND		0.00528	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,1,2-Tetrachloroethane	ND		0.00528	0.00396	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,2,2-Tetrachloroethane	ND		0.00528	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Tetrachloroethene	ND		0.00528	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Toluene	ND		0.00528	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,3-Trichlorobenzene	ND		0.00528	0.00446	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,4-Trichlorobenzene	ND		0.00528	0.00487	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3,5-Trichlorobenzene	ND		0.00528	0.00501	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,1-Trichloroethane	ND		0.00528	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,2-Trichloroethane	ND		0.00528	0.00398	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Trichloroethene	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00528	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,3-Trichloropropane	ND		0.00528	0.00469	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,4-Trimethylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3,5-Trimethylbenzene	ND		0.00528	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Vinyl chloride	ND		0.00528	0.00322	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
m,p-Xylene	ND		0.00528	0.00721	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
o-Xylene	ND		0.00528	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Tetrahydrofuran	ND		0.0106	0.00267	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethyl ether	ND		0.00528	0.00278	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Tert-amyl methyl ether	ND		0.00528	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethyl tert-butyl ether	ND		0.00528	0.00347	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
di-Isopropyl ether	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,4-Dioxane	ND		0.106	0.0328	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethanol	ND		1.06	0.0655	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3-Dichloropropene, Total	ND		0.00528	0.00401	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Xylenes, Total	ND		0.0158	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.393	0.0699	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,2,4-Trichlorobenzene	ND		0.393	0.0900	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,2-Dichlorobenzene	ND		0.393	0.0758	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,3-Dichlorobenzene	ND		0.393	0.0952	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,4-Dichlorobenzene	ND		0.393	0.0926	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1-Methylnaphthalene	ND		0.0794	0.0667	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4,5-Trichlorophenol	ND		0.393	0.0450	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4,6-Trichlorophenol	ND		0.199	0.0486	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4-Dichlorophenol	ND		0.199	0.0792	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4-Dimethylphenol	ND		0.393	0.0577	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4-Dinitrophenol	ND		0.393	0.103	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-1012'
Date Collected: 03/01/23 10:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-22
Matrix: Solid
Percent Solids: 83.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,6-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Chloronaphthalene	ND		0.393	0.0909	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Chlorophenol	ND		0.199	0.0814	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Methylnaphthalene	ND		0.0794	0.0587	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Methylphenol	ND		0.393	0.0574	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Nitroaniline	ND		0.393	0.0374	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Nitrophenol	ND		0.199	0.0706	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
3 & 4 Methylphenol	ND		0.393	0.0744	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
3,3'-Dichlorobenzidine	ND		0.393	0.0649	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
3-Nitroaniline	ND		0.393	0.0351	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4,6-Dinitro-2-methylphenol	ND		0.393	0.0706	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Bromophenyl phenyl ether	ND		0.393	0.0444	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Chloro-3-methylphenol	ND		0.393	0.0769	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Chloroaniline	ND		0.199	0.0301	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Chlorophenyl phenyl ether	ND		0.393	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Nitroaniline	ND		0.199	0.0628	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Nitrophenol	ND		0.393	0.137	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Acenaphthene	ND		0.0794	0.0634	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Acenaphthylene	ND		0.0794	0.0522	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Acetophenone	ND		0.199	0.0485	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Aniline	ND		0.393	0.0301	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Anthracene	ND		0.0794	0.0460	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Azobenzene/Diphenyldiazene	ND		0.393	0.0671	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzidine	ND	*1	0.786	0.116	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[a]anthracene	ND		0.0794	0.0447	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[a]pyrene	ND		0.0794	0.0568	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[b]fluoranthene	ND		0.0794	0.0659	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[g,h,i]perylene	ND		0.0794	0.0621	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[k]fluoranthene	ND		0.0794	0.0618	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzoic acid	ND		0.393	0.270	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzyl alcohol	ND		0.393	0.0712	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Bis(2-chloroethoxy)methane	ND		0.393	0.0684	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Bis(2-chloroethyl)ether	ND		0.199	0.0650	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
bis (2-chloroisopropyl) ether	ND		0.199	0.0885	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Bis(2-ethylhexyl) phthalate	**0.170**	**J**	0.199	0.0506	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Butyl benzyl phthalate	ND		0.393	0.0394	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Carbazole	ND		0.199	0.0521	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Chrysene	ND		0.0794	0.0449	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Dibenz(a,h)anthracene	ND		0.0794	0.0606	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Dibenzofuran	ND		0.199	0.0688	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Diethyl phthalate	ND		0.393	0.0431	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Dimethyl phthalate	ND		0.393	0.0512	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Di-n-butyl phthalate	ND		0.393	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Di-n-octyl phthalate	ND		0.393	0.0649	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Fluoranthene	ND		0.0794	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Fluorene	ND		0.0794	0.0725	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Hexachlorobenzene	ND		0.199	0.0551	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Hexachlorobutadiene	ND		0.199	0.0992	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.199	0.0760	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Hexachloroethane	ND		0.199	0.0781	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0794	0.0674	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Isophorone	ND		0.199	0.0544	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Naphthalene	ND		0.0794	0.0762	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Nitrobenzene	ND		0.199	0.0918	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
N-Nitrosodimethylamine	ND		0.199	0.0522	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
N-Nitrosodi-n-propylamine	ND		0.199	0.0792	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
N-Nitrosodiphenylamine	ND		0.393	0.0501	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pentachloronitrobenzene	ND		0.393	0.0621	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pentachlorophenol	ND		0.393	0.161	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Phenanthrene	ND		0.0794	0.0450	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Phenol	ND		0.393	0.0810	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pyrene	ND		0.0794	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pyridine	ND		0.393	0.0930	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
2-Fluorophenol (Surr)	*105*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
Phenol-d5 (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
2,4,6-Tribromophenol (Surr)	*108*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
Terphenyl-d14	*102*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:01*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.113	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Ethylbenzene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Methyl tert-butyl ether	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Naphthalene	ND		0.0530	0.0360	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
o-Xylene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Toluene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
C9-C10 Aromatics	ND		0.265	0.0371	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.113	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:43*	*1*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:43*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1221	ND		0.0228	0.00674	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1232	ND		0.0228	0.00632	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00360	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1248	ND		0.0228	0.00713	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1254	**0.0321**		0.0228	0.0177	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1260	ND		0.0228	0.00490	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1268	ND		0.0228	0.00486	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*31*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*
Tetrachloro-m-xylene	*34*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*
DCB Decachlorobiphenyl (Surr)	*32*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*
DCB Decachlorobiphenyl (Surr)	*31*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoroheptanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorononanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorodecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorotridecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorotetradecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorobutanesulfonic acid	ND		2.30	0.461	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorohexanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NEtFOSAA	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NMeFOSAA	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
10:2 FTS	ND		2.30	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoropentanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoroheptanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorononanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorodecanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctanesulfonamide	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorohexadecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctadecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorobutanoic acid	ND		2.30	0.922	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoropentanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NMeFOSE	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NMeFOSA	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NEtFOSE	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NEtFOSA	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
HFPODA	ND		2.30	1.15	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
DONA	ND		3.46	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
9Cl-PF3ONS	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
11Cl-PF3OUdS	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorododecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.30	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoroundecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.30	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*82*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
M2-8:2 FTS	*100*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
M2-6:2 FTS	*95*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C4 PFHpA	*103*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C8 PFOA	*103*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C9 PFNA	*99*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C6 PFDA	*95*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C7 PFUnA	*104*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C2 PFTeDA	*103*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C3 PFHxS	*99*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C8 PFOS	*97*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d3-NMeFOSAA	*100*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d5-NEtFOSAA	*99*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C8 FOSA	*99*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C4 PFBA	*102*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C5 PFPeA	*97*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.16	1.76	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Arsenic	**2.74**	**J**	3.10	1.45	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Barium	**14.7**		0.516	0.155	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Beryllium	**0.189**	**J**	0.516	0.103	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Cadmium	ND		0.516	0.103	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Chromium	**9.25**		1.55	0.361	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Lead	**2.45**		1.55	0.620	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Nickel	**2.57**		1.03	0.269	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Selenium	ND		5.16	1.55	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Silver	ND	^3+	1.03	0.413	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Thallium	ND		3.10	1.34	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Vanadium	**6.91**		1.03	0.444	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Zinc	**9.28**		2.07	0.826	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0696	0.0232	mg/Kg	☼	03/07/23 20:58	03/08/23 12:41	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-1012'
Date Collected: 03/01/23 10:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-22
Matrix: Solid
Percent Solids: 83.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.5		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	83.5		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00587	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Acetone	ND		0.0587	0.0131	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Acrylonitrile	ND		0.00587	0.00352	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Benzene	ND		0.00587	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromobenzene	ND		0.00587	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromochloromethane	ND		0.00587	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromodichloromethane	ND		0.00587	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromoform	ND		0.00587	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromomethane	ND		0.0117	0.00731	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2-Butanone (MEK)	ND		0.0117	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
n-Butylbenzene	ND		0.0117	0.00629	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
sec-Butylbenzene	ND		0.00587	0.00473	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
tert-Butylbenzene	ND		0.00587	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Carbon disulfide	ND		0.0117	0.00412	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Carbon tetrachloride	ND		0.00587	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chlorobenzene	ND		0.00587	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chloroethane	ND		0.0117	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chloroform	ND		0.00587	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chloromethane	ND		0.0117	0.00450	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2-Chlorotoluene	ND		0.00587	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
4-Chlorotoluene	ND		0.00587	0.00509	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dibromo-3-Chloropropane	ND		0.0117	0.00497	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Dibromochloromethane	ND		0.00587	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dibromoethane (EDB)	ND		0.00587	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Dibromomethane	ND		0.00587	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dichlorobenzene	ND		0.00587	0.00544	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3-Dichlorobenzene	ND		0.00587	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,4-Dichlorobenzene	ND		0.00587	0.00556	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Dichlorodifluoromethane (Freon 12)	ND		0.0117	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1-Dichloroethane	ND		0.00587	0.00398	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dichloroethane	ND		0.00587	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1-Dichloroethene	ND		0.00587	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
cis-1,2-Dichloroethene	ND		0.00587	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
trans-1,2-Dichloroethene	ND		0.00587	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dichloropropane	ND		0.00587	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3-Dichloropropane	ND		0.00587	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2,2-Dichloropropane	ND		0.00587	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1-Dichloropropene	ND		0.00587	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
cis-1,3-Dichloropropene	ND		0.00587	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
trans-1,3-Dichloropropene	ND		0.00587	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethylbenzene	ND		0.00587	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Hexachlorobutadiene	ND		0.0117	0.00590	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2-Hexanone (MBK)	ND		0.0117	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Isopropylbenzene	ND		0.00587	0.00443	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
4-Isopropyltoluene	ND		0.00587	0.00576	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Methyl tert-butyl ether	ND		0.00587	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.0117	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Methylene Chloride	ND		0.0117	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Naphthalene	ND		0.00587	0.00530	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1

Client Sample ID: 2023-FD-03 **Lab Sample ID: 620-10051-23**
Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00587	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Styrene	ND		0.00587	0.00454	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,1,2-Tetrachloroethane	ND		0.00587	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,2,2-Tetrachloroethane	ND		0.00587	0.00537	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Tetrachloroethene	ND		0.00587	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Toluene	ND		0.00587	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,3-Trichlorobenzene	ND		0.00587	0.00495	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,4-Trichlorobenzene	ND		0.00587	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3,5-Trichlorobenzene	ND		0.00587	0.00557	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,1-Trichloroethane	ND		0.00587	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,2-Trichloroethane	ND		0.00587	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Trichloroethene	ND		0.00587	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Trichlorofluoromethane (Freon 11)	ND		0.00587	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,3-Trichloropropane	ND		0.00587	0.00521	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,4-Trimethylbenzene	ND		0.00587	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3,5-Trimethylbenzene	ND		0.00587	0.00499	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Vinyl chloride	ND		0.00587	0.00358	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
m,p-Xylene	ND		0.00587	0.00801	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
o-Xylene	ND		0.00587	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Tetrahydrofuran	ND		0.0117	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethyl ether	ND		0.00587	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Tert-amyl methyl ether	ND		0.00587	0.00463	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethyl tert-butyl ether	ND		0.00587	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
di-Isopropyl ether	ND		0.00587	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
tert-Butanol	ND		0.117	0.0314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,4-Dioxane	ND		0.117	0.0365	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
trans-1,4-Dichloro-2-butene	ND		0.0293	0.00433	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethanol	ND		1.17	0.0727	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3-Dichloropropene, Total	ND		0.00587	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Xylenes, Total	ND		0.0176	0.00587	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.362	0.0644	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,2,4-Trichlorobenzene	ND		0.362	0.0830	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,2-Dichlorobenzene	ND		0.362	0.0698	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,3-Dichlorobenzene	ND		0.362	0.0877	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,4-Dichlorobenzene	ND		0.362	0.0853	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1-Methylnaphthalene	ND		0.0732	0.0615	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4,5-Trichlorophenol	ND		0.362	0.0415	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4,6-Trichlorophenol	ND		0.183	0.0448	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4-Dichlorophenol	ND		0.183	0.0730	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4-Dimethylphenol	ND		0.362	0.0531	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4-Dinitrophenol	ND		0.362	0.0953	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.183	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,6-Dinitrotoluene	ND		0.183	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Chloronaphthalene	ND		0.362	0.0837	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Chlorophenol	ND		0.183	0.0750	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Methylnaphthalene	ND		0.0732	0.0541	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Methylphenol	ND		0.362	0.0529	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Nitroaniline	ND		0.362	0.0345	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Nitrophenol	ND		0.183	0.0651	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
3 & 4 Methylphenol	ND		0.362	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
3,3'-Dichlorobenzidine	ND		0.362	0.0598	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
3-Nitroaniline	ND		0.362	0.0324	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4,6-Dinitro-2-methylphenol	ND		0.362	0.0651	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Bromophenyl phenyl ether	ND		0.362	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Chloro-3-methylphenol	ND		0.362	0.0709	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Chloroaniline	ND		0.183	0.0278	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Chlorophenyl phenyl ether	ND		0.362	0.0387	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Nitroaniline	ND		0.183	0.0578	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Nitrophenol	ND		0.362	0.126	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Acenaphthene	ND		0.0732	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Acenaphthylene	ND		0.0732	0.0481	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Acetophenone	ND		0.183	0.0447	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Aniline	ND		0.362	0.0278	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Anthracene	ND		0.0732	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Azobenzene/Diphenyldiazene	ND		0.362	0.0618	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzidine	ND	*1	0.724	0.107	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[a]anthracene	ND		0.0732	0.0412	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[a]pyrene	ND		0.0732	0.0523	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[b]fluoranthene	ND		0.0732	0.0607	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[g,h,i]perylene	ND		0.0732	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[k]fluoranthene	ND		0.0732	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzoic acid	ND		0.362	0.249	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzyl alcohol	ND		0.362	0.0656	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Bis(2-chloroethoxy)methane	ND		0.362	0.0630	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Bis(2-chloroethyl)ether	ND		0.183	0.0599	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
bis (2-chloroisopropyl) ether	ND		0.183	0.0815	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Bis(2-ethylhexyl) phthalate	**0.405**		0.183	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Butyl benzyl phthalate	ND		0.362	0.0363	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Carbazole	ND		0.183	0.0480	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Chrysene	ND		0.0732	0.0414	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Dibenz(a,h)anthracene	ND		0.0732	0.0559	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Dibenzofuran	ND		0.183	0.0634	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Diethyl phthalate	ND		0.362	0.0397	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Dimethyl phthalate	ND		0.362	0.0472	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Di-n-butyl phthalate	ND		0.362	0.0387	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Di-n-octyl phthalate	ND		0.362	0.0598	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Fluoranthene	ND		0.0732	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Fluorene	ND		0.0732	0.0668	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Hexachlorobenzene	ND		0.183	0.0508	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Hexachlorobutadiene	ND		0.183	0.0914	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.183	0.0700	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Hexachloroethane	ND		0.183	0.0720	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0732	0.0621	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Isophorone	ND		0.183	0.0502	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Naphthalene	ND		0.0732	0.0702	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Nitrobenzene	ND		0.183	0.0846	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
N-Nitrosodimethylamine	ND		0.183	0.0481	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
N-Nitrosodi-n-propylamine	ND		0.183	0.0730	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
N-Nitrosodiphenylamine	ND		0.362	0.0462	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pentachloronitrobenzene	ND		0.362	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pentachlorophenol	ND		0.362	0.148	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Phenanthrene	ND		0.0732	0.0415	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Phenol	ND		0.362	0.0746	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pyrene	ND		0.0732	0.0404	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pyridine	ND		0.362	0.0857	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
Phenol-d5 (Surr)	*74*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
Terphenyl-d14	*87*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.503	0.257	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.503	0.215	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Ethylbenzene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Methyl tert-butyl ether	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
m,p-Xylene	ND		0.201	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Naphthalene	ND		0.101	0.0684	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
o-Xylene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Toluene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
C5-C8 Aliphatics (unadjusted)	ND		0.503	0.257	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
C9-C10 Aromatics	ND		0.503	0.0704	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
C9-C12 Aliphatics (unadjusted)	ND		0.503	0.215	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 07:22*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:25*	*03/04/23 07:22*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0216	0.0156	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1221	ND		0.0216	0.00639	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1232	ND		0.0216	0.00599	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1

Client Sample ID: 2023-FD-03 **Lab Sample ID: 620-10051-23**
Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0216	0.00342	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1248	ND		0.0216	0.00676	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1254	**0.0332**		0.0216	0.0168	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1262	ND		0.0216	0.00504	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1260	ND		0.0216	0.00465	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1268	ND		0.0216	0.00461	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoroheptanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorononanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorodecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorotridecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorotetradecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorobutanesulfonic acid	ND		2.16	0.431	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorohexanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NEtFOSAA	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NMeFOSAA	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
10:2 FTS	ND		2.16	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoropentanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoroheptanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorononanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorodecanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctanesulfonamide	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorohexadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorobutanoic acid	ND		2.16	0.862	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoropentanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NMeFOSE	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NMeFOSA	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NEtFOSE	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NEtFOSA	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
HFPODA	ND		2.16	1.08	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
DONA	ND		3.23	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
9Cl-PF3ONS	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
11Cl-PF3OUdS	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorododecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoroundecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*61*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
M2-8:2 FTS	*73*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
M2-6:2 FTS	*75*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C5 PFHxA	*79*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C4 PFHpA	*83*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C8 PFOA	*80*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C9 PFNA	*80*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C6 PFDA	*76*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C2-PFDoDA	*83*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C3 PFHxS	*104*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C8 PFOS	*105*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d3-NMeFOSAA	*10*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C5 PFPeA	*71*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C3 HFPO-DA	*77*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Arsenic	**3.47**		3.00	1.40	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Barium	**16.2**		0.500	0.150	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Beryllium	**0.261**	**J**	0.500	0.100	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Cadmium	ND		0.500	0.100	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Chromium	**5.23**		1.50	0.350	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Lead	**2.75**		1.50	0.600	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Nickel	**2.13**		1.00	0.260	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Selenium	ND		5.00	1.50	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Silver	ND	^3+	1.00	0.400	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Thallium	ND		3.00	1.30	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Vanadium	**7.78**		1.00	0.430	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Zinc	**9.24**		2.00	0.800	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0624	0.0208	mg/Kg	☼	03/07/23 20:58	03/08/23 12:50	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	90.1		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-01

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-24

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Methylene Chloride	**0.00377**	**J**	0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 14:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-01
Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-24
Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0002'
Lab Sample ID: 620-10051-25
Date Collected: 03/01/23 11:20
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 94.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00495	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Acetone	ND		0.0495	0.0111	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Acrylonitrile	ND		0.00495	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Benzene	ND		0.00495	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromobenzene	ND		0.00495	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromochloromethane	ND		0.00495	0.00281	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromodichloromethane	ND		0.00495	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromoform	ND		0.00495	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromomethane	ND		0.00989	0.00616	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2-Butanone (MEK)	ND		0.00989	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
n-Butylbenzene	ND		0.00989	0.00530	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
sec-Butylbenzene	ND		0.00495	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
tert-Butylbenzene	ND		0.00495	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Carbon disulfide	ND		0.00989	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Carbon tetrachloride	ND		0.00495	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chlorobenzene	ND		0.00495	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chloroethane	ND		0.00989	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chloroform	ND		0.00495	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chloromethane	ND		0.00989	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2-Chlorotoluene	ND		0.00495	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
4-Chlorotoluene	ND		0.00495	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dibromo-3-Chloropropane	ND		0.00989	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Dibromochloromethane	ND		0.00495	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dibromoethane (EDB)	ND		0.00495	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Dibromomethane	ND		0.00495	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dichlorobenzene	ND		0.00495	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3-Dichlorobenzene	ND		0.00495	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,4-Dichlorobenzene	ND		0.00495	0.00469	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.00989	0.00265	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1-Dichloroethane	ND		0.00495	0.00335	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dichloroethane	ND		0.00495	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1-Dichloroethene	ND		0.00495	0.00303	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
cis-1,2-Dichloroethene	ND		0.00495	0.00286	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
trans-1,2-Dichloroethene	ND		0.00495	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dichloropropane	ND		0.00495	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3-Dichloropropane	ND		0.00495	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2,2-Dichloropropane	ND		0.00495	0.00341	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1-Dichloropropene	ND		0.00495	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
cis-1,3-Dichloropropene	ND		0.00495	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
trans-1,3-Dichloropropene	ND		0.00495	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethylbenzene	ND		0.00495	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Hexachlorobutadiene	ND		0.00989	0.00498	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2-Hexanone (MBK)	ND		0.00989	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Isopropylbenzene	ND		0.00495	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
4-Isopropyltoluene	ND		0.00495	0.00486	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Methyl tert-butyl ether	ND		0.00495	0.00285	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.00989	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Methylene Chloride	ND		0.00989	0.00265	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Naphthalene	ND		0.00495	0.00447	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00495	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Styrene	ND		0.00495	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,1,2-Tetrachloroethane	ND		0.00495	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,2,2-Tetrachloroethane	ND		0.00495	0.00453	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Tetrachloroethene	ND		0.00495	0.00275	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Toluene	ND		0.00495	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,3-Trichlorobenzene	ND		0.00495	0.00418	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,4-Trichlorobenzene	ND		0.00495	0.00456	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3,5-Trichlorobenzene	ND		0.00495	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,1-Trichloroethane	ND		0.00495	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,2-Trichloroethane	ND		0.00495	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Trichloroethene	ND		0.00495	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00495	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,3-Trichloropropane	ND		0.00495	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,4-Trimethylbenzene	ND		0.00495	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3,5-Trimethylbenzene	ND		0.00495	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Vinyl chloride	ND		0.00495	0.00302	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
m,p-Xylene	ND		0.00495	0.00676	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
o-Xylene	ND		0.00495	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Tetrahydrofuran	ND		0.00989	0.00250	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethyl ether	ND		0.00495	0.00260	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Tert-amyl methyl ether	ND		0.00495	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethyl tert-butyl ether	ND		0.00495	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
di-Isopropyl ether	ND		0.00495	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
tert-Butanol	ND		0.0989	0.0265	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,4-Dioxane	ND		0.0989	0.0308	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethanol	ND		0.989	0.0613	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3-Dichloropropene, Total	ND		0.00495	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Xylenes, Total	ND		0.0148	0.00495	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.345	0.0614	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,2,4-Trichlorobenzene	ND		0.345	0.0791	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,2-Dichlorobenzene	ND		0.345	0.0665	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,3-Dichlorobenzene	ND		0.345	0.0835	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,4-Dichlorobenzene	ND		0.345	0.0812	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1-Methylnaphthalene	ND		0.0697	0.0586	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4,5-Trichlorophenol	ND		0.345	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4,6-Trichlorophenol	ND		0.175	0.0427	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4-Dichlorophenol	ND		0.175	0.0695	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4-Dimethylphenol	ND		0.345	0.0506	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4-Dinitrophenol	ND		0.345	0.0908	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0002'
Date Collected: 03/01/23 11:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-25
Matrix: Solid
Percent Solids: 94.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,6-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Chloronaphthalene	ND		0.345	0.0798	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Chlorophenol	ND		0.175	0.0714	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Methylnaphthalene	ND		0.0697	0.0516	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Methylphenol	ND		0.345	0.0504	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Nitroaniline	ND		0.345	0.0328	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Nitrophenol	ND		0.175	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
3 & 4 Methylphenol	ND		0.345	0.0654	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
3,3'-Dichlorobenzidine	ND		0.345	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
3-Nitroaniline	ND		0.345	0.0308	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4,6-Dinitro-2-methylphenol	ND		0.345	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Bromophenyl phenyl ether	ND		0.345	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Chloro-3-methylphenol	ND		0.345	0.0675	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Chlorophenyl phenyl ether	ND		0.345	0.0369	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Nitroaniline	ND		0.175	0.0551	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Nitrophenol	ND		0.345	0.120	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Acenaphthene	ND		0.0697	0.0556	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Acenaphthylene	ND		0.0697	0.0458	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Acetophenone	ND		0.175	0.0426	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Aniline	ND		0.345	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Anthracene	ND		0.0697	0.0404	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Azobenzene/Diphenyldiazene	ND		0.345	0.0589	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzidine	ND	*1	0.690	0.102	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[a]anthracene	ND		0.0697	0.0392	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[a]pyrene	ND		0.0697	0.0499	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[b]fluoranthene	ND		0.0697	0.0578	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[g,h,i]perylene	ND		0.0697	0.0545	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[k]fluoranthene	ND		0.0697	0.0543	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzoic acid	ND		0.345	0.237	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzyl alcohol	ND		0.345	0.0625	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Bis(2-chloroethoxy)methane	ND		0.345	0.0600	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Bis(2-chloroethyl)ether	ND		0.175	0.0571	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0777	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Bis(2-ethylhexyl) phthalate	**0.0974**	**J**	0.175	0.0444	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Butyl benzyl phthalate	ND		0.345	0.0346	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Carbazole	ND		0.175	0.0457	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Chrysene	ND		0.0697	0.0394	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Dibenz(a,h)anthracene	ND		0.0697	0.0532	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Dibenzofuran	ND		0.175	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Diethyl phthalate	ND		0.345	0.0379	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Dimethyl phthalate	ND		0.345	0.0450	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Di-n-butyl phthalate	ND		0.345	0.0369	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Di-n-octyl phthalate	ND		0.345	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Fluoranthene	ND		0.0697	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Fluorene	ND		0.0697	0.0637	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Hexachlorobenzene	ND		0.175	0.0484	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Hexachlorobutadiene	ND		0.175	0.0871	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0667	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Hexachloroethane	ND		0.175	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Indeno[1,2,3-cd]pyrene	ND		0.0697	0.0592	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Isophorone	ND		0.175	0.0478	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Naphthalene	ND		0.0697	0.0669	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Nitrobenzene	ND		0.175	0.0806	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
N-Nitrosodimethylamine	ND		0.175	0.0458	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0695	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
N-Nitrosodiphenylamine	ND		0.345	0.0440	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pentachloronitrobenzene	ND		0.345	0.0545	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pentachlorophenol	ND		0.345	0.141	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Phenanthrene	ND		0.0697	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Phenol	ND		0.345	0.0711	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pyrene	ND		0.0697	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pyridine	ND		0.345	0.0817	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
2,4,6-Tribromophenol (Surr)	*103*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
Terphenyl-d14	*95*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:57*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.773	0.396	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.773	0.331	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Ethylbenzene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Methyl tert-butyl ether	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
m,p-Xylene	ND		0.309	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Naphthalene	**0.114**	**J**	0.155	0.105	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
o-Xylene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Toluene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
C5-C8 Aliphatics (unadjusted)	ND		0.773	0.396	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
C9-C10 Aromatics	ND		0.773	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
C9-C12 Aliphatics (unadjusted)	ND		0.773	0.331	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 08:41*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 08:41*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0210	0.0151	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1221	ND		0.0210	0.00619	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1232	ND		0.0210	0.00581	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0210	0.00331	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1248	ND		0.0210	0.00655	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1254	**0.137**		0.0210	0.0163	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1262	ND		0.0210	0.00488	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1260	ND		0.0210	0.00451	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1268	ND		0.0210	0.00446	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*
Tetrachloro-m-xylene	*47*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoroheptanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorononanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorodecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorotridecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorotetradecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorobutanesulfonic acid	ND		2.07	0.413	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorohexanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NEtFOSAA	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NMeFOSAA	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
10:2 FTS	ND		2.07	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoropentanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoroheptanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorononanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorodecanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctanesulfonamide	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorohexadecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctadecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorobutanoic acid	ND		2.07	0.826	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoropentanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NMeFOSE	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NMeFOSA	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NEtFOSE	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NEtFOSA	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
HFPODA	ND		2.07	1.03	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
DONA	ND		3.10	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
9Cl-PF3ONS	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
11Cl-PF3OUdS	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorododecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.07	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoroundecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.07	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.10	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
M2-6:2 FTS	*87*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C5 PFHxA	*89*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C4 PFHpA	*94*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C8 PFOA	*92*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C6 PFDA	*93*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C7 PFUnA	*97*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C2 PFTeDA	*109*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C3 PFBS	*99*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C8 PFOS	*107*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d3-NMeFOSAA	*22*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d5-NEtFOSAA	*29*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C4 PFBA	*79*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C5 PFPeA	*77*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d7-N-MeFOSE-M	*90*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.26	1.45	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Arsenic	**2.29**	**J**	2.55	1.19	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Barium	**13.6**		0.426	0.128	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Beryllium	**0.273**	**J**	0.426	0.0851	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Cadmium	ND		0.426	0.0851	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Chromium	**4.11**		1.28	0.298	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Lead	**2.79**		1.28	0.511	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Nickel	**4.15**		0.851	0.221	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Selenium	ND		4.26	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Silver	ND	^3+	0.851	0.340	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Thallium	ND		2.55	1.11	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Vanadium	**6.10**		0.851	0.366	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Zinc	**10.0**		1.70	0.681	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0618	0.0206	mg/Kg	☼	03/07/23 20:58	03/08/23 12:54	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0002'
Date Collected: 03/01/23 11:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-25
Matrix: Solid
Percent Solids: 94.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.0		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	94.0		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0204'
Date Collected: 03/01/23 11:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-26
Matrix: Solid
Percent Solids: 97.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00484	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Acetone	ND		0.0484	0.0108	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Acrylonitrile	ND		0.00484	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Benzene	ND		0.00484	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromobenzene	ND		0.00484	0.00322	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromochloromethane	ND		0.00484	0.00275	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromodichloromethane	ND		0.00484	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromoform	ND		0.00484	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromomethane	ND		0.00967	0.00603	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2-Butanone (MEK)	ND		0.00967	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
n-Butylbenzene	ND		0.00967	0.00518	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
sec-Butylbenzene	ND		0.00484	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
tert-Butylbenzene	ND		0.00484	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Carbon disulfide	ND		0.00967	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Carbon tetrachloride	ND		0.00484	0.00305	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chlorobenzene	ND		0.00484	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chloroethane	ND		0.00967	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chloroform	ND		0.00484	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chloromethane	ND		0.00967	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2-Chlorotoluene	ND		0.00484	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
4-Chlorotoluene	ND		0.00484	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00967	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Dibromochloromethane	ND		0.00484	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dibromoethane (EDB)	ND		0.00484	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Dibromomethane	ND		0.00484	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dichlorobenzene	ND		0.00484	0.00449	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3-Dichlorobenzene	ND		0.00484	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,4-Dichlorobenzene	ND		0.00484	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.00967	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1-Dichloroethane	ND		0.00484	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dichloroethane	ND		0.00484	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1-Dichloroethene	ND		0.00484	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
cis-1,2-Dichloroethene	ND		0.00484	0.00280	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
trans-1,2-Dichloroethene	ND		0.00484	0.00301	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dichloropropane	ND		0.00484	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3-Dichloropropane	ND		0.00484	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2,2-Dichloropropane	ND		0.00484	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1-Dichloropropene	ND		0.00484	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
cis-1,3-Dichloropropene	ND		0.00484	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
trans-1,3-Dichloropropene	ND		0.00484	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethylbenzene	ND		0.00484	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Hexachlorobutadiene	ND		0.00967	0.00487	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2-Hexanone (MBK)	ND		0.00967	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Isopropylbenzene	ND		0.00484	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
4-Isopropyltoluene	ND		0.00484	0.00475	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Methyl tert-butyl ether	ND		0.00484	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00967	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Methylene Chloride	ND		0.00967	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Naphthalene	ND		0.00484	0.00437	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1

Client Sample ID: 2023-SB-14-0204' **Lab Sample ID: 620-10051-26**
Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00484	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Styrene	ND		0.00484	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,1,2-Tetrachloroethane	ND		0.00484	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.00484	0.00443	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Tetrachloroethene	ND		0.00484	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Toluene	ND		0.00484	0.00307	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,3-Trichlorobenzene	ND		0.00484	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,4-Trichlorobenzene	ND		0.00484	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3,5-Trichlorobenzene	ND		0.00484	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,1-Trichloroethane	ND		0.00484	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,2-Trichloroethane	ND		0.00484	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Trichloroethene	ND		0.00484	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00484	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,3-Trichloropropane	ND		0.00484	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,4-Trimethylbenzene	ND		0.00484	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3,5-Trimethylbenzene	ND		0.00484	0.00411	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Vinyl chloride	ND		0.00484	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
m,p-Xylene	ND		0.00484	0.00661	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
o-Xylene	ND		0.00484	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Tetrahydrofuran	ND		0.00967	0.00245	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethyl ether	ND		0.00484	0.00254	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Tert-amyl methyl ether	ND		0.00484	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethyl tert-butyl ether	ND		0.00484	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
di-Isopropyl ether	ND		0.00484	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
tert-Butanol	ND		0.0967	0.0259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,4-Dioxane	ND		0.0967	0.0301	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00357	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethanol	ND		0.967	0.0600	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3-Dichloropropene, Total	ND		0.00484	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Xylenes, Total	ND		0.0145	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.336	0.0597	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,2,4-Trichlorobenzene	ND		0.336	0.0769	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,2-Dichlorobenzene	ND		0.336	0.0647	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,3-Dichlorobenzene	ND		0.336	0.0813	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,4-Dichlorobenzene	ND		0.336	0.0791	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1-Methylnaphthalene	ND		0.0679	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4,5-Trichlorophenol	ND		0.336	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4,6-Trichlorophenol	ND		0.170	0.0415	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4-Dichlorophenol	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4-Dimethylphenol	ND		0.336	0.0493	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4-Dinitrophenol	ND		0.336	0.0883	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0204'
Date Collected: 03/01/23 11:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-26
Matrix: Solid
Percent Solids: 97.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,6-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Chloronaphthalene	ND		0.336	0.0777	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Chlorophenol	ND		0.170	0.0695	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Methylnaphthalene	ND		0.0679	0.0502	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Methylphenol	ND		0.336	0.0491	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Nitroaniline	ND		0.336	0.0320	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Nitrophenol	ND		0.170	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
3 & 4 Methylphenol	ND		0.336	0.0636	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
3,3'-Dichlorobenzidine	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
3-Nitroaniline	ND		0.336	0.0300	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4,6-Dinitro-2-methylphenol	ND		0.336	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Bromophenyl phenyl ether	ND		0.336	0.0380	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Chloro-3-methylphenol	ND		0.336	0.0657	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Chloroaniline	ND		0.170	0.0257	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Chlorophenyl phenyl ether	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Nitroaniline	ND		0.170	0.0536	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Nitrophenol	ND		0.336	0.117	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Acenaphthene	ND		0.0679	0.0541	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Acenaphthylene	ND		0.0679	0.0446	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Acetophenone	ND		0.170	0.0414	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Aniline	ND		0.336	0.0257	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Anthracene	ND		0.0679	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Azobenzene/Diphenyldiazene	ND		0.336	0.0573	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzidine	ND	*1	0.672	0.0994	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[a]anthracene	ND		0.0679	0.0382	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[a]pyrene	ND		0.0679	0.0485	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[b]fluoranthene	ND		0.0679	0.0563	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[g,h,i]perylene	ND		0.0679	0.0530	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[k]fluoranthene	ND		0.0679	0.0528	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzoic acid	ND		0.336	0.231	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzyl alcohol	ND		0.336	0.0609	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Bis(2-chloroethoxy)methane	ND		0.336	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Bis(2-chloroethyl)ether	ND		0.170	0.0556	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
bis (2-chloroisopropyl) ether	ND		0.170	0.0756	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Bis(2-ethylhexyl) phthalate	ND		0.170	0.0433	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Butyl benzyl phthalate	ND		0.336	0.0337	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Carbazole	ND		0.170	0.0445	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Chrysene	ND		0.0679	0.0384	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Dibenz(a,h)anthracene	ND		0.0679	0.0518	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Dibenzofuran	ND		0.170	0.0588	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Diethyl phthalate	ND		0.336	0.0368	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Dimethyl phthalate	ND		0.336	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Di-n-butyl phthalate	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Di-n-octyl phthalate	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Fluoranthene	ND		0.0679	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Fluorene	ND		0.0679	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Hexachlorobenzene	ND		0.170	0.0471	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Hexachlorobutadiene	ND		0.170	0.0848	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1

Client Sample ID: 2023-SB-14-0204' **Lab Sample ID: 620-10051-26**
Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.170	0.0649	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Hexachloroethane	ND		0.170	0.0668	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0679	0.0576	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Isophorone	ND		0.170	0.0465	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Naphthalene	ND		0.0679	0.0651	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Nitrobenzene	ND		0.170	0.0785	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
N-Nitrosodimethylamine	ND		0.170	0.0446	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
N-Nitrosodi-n-propylamine	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
N-Nitrosodiphenylamine	ND		0.336	0.0428	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pentachloronitrobenzene	ND		0.336	0.0530	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pentachlorophenol	ND		0.336	0.137	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Phenanthrene	ND		0.0679	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Phenol	ND		0.336	0.0692	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pyrene	ND		0.0679	0.0375	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pyridine	ND		0.336	0.0795	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:25*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.261	0.134	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.261	0.112	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Ethylbenzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Methyl tert-butyl ether	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Naphthalene	ND		0.0523	0.0355	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
o-Xylene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Toluene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
C5-C8 Aliphatics (unadjusted)	ND		0.261	0.134	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
C9-C10 Aromatics	ND		0.261	0.0366	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
C9-C12 Aliphatics (unadjusted)	ND		0.261	0.112	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:20*	*1*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:20*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0196	0.0141	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1221	ND		0.0196	0.00578	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1232	ND		0.0196	0.00542	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1

Client Sample ID: 2023-SB-14-0204'
Lab Sample ID: 620-10051-26
Date Collected: 03/01/23 11:25
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.0

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0196	0.00309	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1248	ND		0.0196	0.00611	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1254	ND		0.0196	0.0152	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1262	ND		0.0196	0.00456	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1260	ND		0.0196	0.00420	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1268	ND		0.0196	0.00416	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoroheptanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorononanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorodecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorotridecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorotetradecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorobutanesulfonic acid	ND		1.95	0.389	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorohexanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NEtFOSAA	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NMeFOSAA	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
10:2 FTS	ND		1.95	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoropentanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoroheptanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorononanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorodecanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctanesulfonamide	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorohexadecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctadecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorobutanoic acid	ND		1.95	0.778	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoropentanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NMeFOSE	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NMeFOSA	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NEtFOSE	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NEtFOSA	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
HFPODA	ND		1.95	0.973	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
DONA	ND		2.92	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
9Cl-PF3ONS	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
11Cl-PF3OUdS	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorododecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
4:2 Fluorotelomer sulfonic acid	ND		1.95	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoroundecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0204' **Lab Sample ID: 620-10051-26**
Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.95	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
8:2 Fluorotelomer sulfonic acid	ND		2.92	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
M2-6:2 FTS	*91*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C4 PFHpA	*98*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C8 PFOA	*93*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C9 PFNA	*95*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C6 PFDA	*94*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C7 PFUnA	*99*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C3 PFHxS	*103*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C8 PFOS	*101*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d3-NMeFOSAA	*25*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d5-NEtFOSAA	*30*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C4 PFBA	*84*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d7-N-MeFOSE-M	*98*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d3-NMePFOSA	*87*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d9-N-EtFOSE-M	*95*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d5-NEtPFOSA	*88*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C3 HFPO-DA	*91*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.91	1.67	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Arsenic	**1.68**	**J**	2.95	1.37	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Barium	**15.1**		0.491	0.147	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Beryllium	**0.191**	**J**	0.491	0.0982	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Cadmium	ND		0.491	0.0982	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Chromium	**4.14**		1.47	0.344	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Lead	**1.85**		1.47	0.589	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Nickel	**2.49**		0.982	0.255	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Selenium	ND		4.91	1.47	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Silver	ND	^3+	0.982	0.393	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Thallium	ND		2.95	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Vanadium	**6.30**		0.982	0.422	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Zinc	**9.29**		1.96	0.785	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0589	0.0196	mg/Kg	☼	03/07/23 20:58	03/08/23 12:37	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0204'
Date Collected: 03/01/23 11:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-26
Matrix: Solid
Percent Solids: 97.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.0		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	97.0		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-27
Matrix: Solid
Percent Solids: 97.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00511	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Acetone	ND		0.0511	0.0114	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Acrylonitrile	ND		0.00511	0.00307	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Benzene	ND		0.00511	0.00341	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromobenzene	ND		0.00511	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromochloromethane	ND		0.00511	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromodichloromethane	ND		0.00511	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromoform	ND		0.00511	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromomethane	ND		0.0102	0.00637	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2-Butanone (MEK)	ND		0.0102	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
n-Butylbenzene	ND		0.0102	0.00548	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
sec-Butylbenzene	ND		0.00511	0.00412	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
tert-Butylbenzene	ND		0.00511	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Carbon disulfide	ND		0.0102	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Carbon tetrachloride	ND		0.00511	0.00322	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chlorobenzene	ND		0.00511	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chloroethane	ND		0.0102	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chloroform	ND		0.00511	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chloromethane	ND		0.0102	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2-Chlorotoluene	ND		0.00511	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
4-Chlorotoluene	ND		0.00511	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dibromo-3-Chloropropane	ND		0.0102	0.00433	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Dibromochloromethane	ND		0.00511	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dibromoethane (EDB)	ND		0.00511	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Dibromomethane	ND		0.00511	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dichlorobenzene	ND		0.00511	0.00474	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3-Dichlorobenzene	ND		0.00511	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,4-Dichlorobenzene	ND		0.00511	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Dichlorodifluoromethane (Freon 12)	ND		0.0102	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1-Dichloroethane	ND		0.00511	0.00346	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dichloroethane	ND		0.00511	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1-Dichloroethene	ND		0.00511	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
cis-1,2-Dichloroethene	ND		0.00511	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
trans-1,2-Dichloroethene	ND		0.00511	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dichloropropane	ND		0.00511	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3-Dichloropropane	ND		0.00511	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2,2-Dichloropropane	ND		0.00511	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1-Dichloropropene	ND		0.00511	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
cis-1,3-Dichloropropene	ND		0.00511	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
trans-1,3-Dichloropropene	ND		0.00511	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethylbenzene	ND		0.00511	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Hexachlorobutadiene	ND		0.0102	0.00514	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2-Hexanone (MBK)	ND		0.0102	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Isopropylbenzene	ND		0.00511	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
4-Isopropyltoluene	ND		0.00511	0.00502	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Methyl tert-butyl ether	ND		0.00511	0.00294	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.0102	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Methylene Chloride	ND		0.0102	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Naphthalene	ND		0.00511	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00511	0.00432	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Styrene	ND		0.00511	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,1,2-Tetrachloroethane	ND		0.00511	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,2,2-Tetrachloroethane	ND		0.00511	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Tetrachloroethene	ND		0.00511	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Toluene	ND		0.00511	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,3-Trichlorobenzene	ND		0.00511	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,4-Trichlorobenzene	ND		0.00511	0.00471	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3,5-Trichlorobenzene	ND		0.00511	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,1-Trichloroethane	ND		0.00511	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,2-Trichloroethane	ND		0.00511	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Trichloroethene	ND		0.00511	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Trichlorofluoromethane (Freon 11)	ND		0.00511	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,3-Trichloropropane	ND		0.00511	0.00454	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,4-Trimethylbenzene	ND		0.00511	0.00432	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3,5-Trimethylbenzene	ND		0.00511	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Vinyl chloride	ND		0.00511	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
m,p-Xylene	ND		0.00511	0.00698	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
o-Xylene	ND		0.00511	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Tetrahydrofuran	ND		0.0102	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethyl ether	ND		0.00511	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Tert-amyl methyl ether	ND		0.00511	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethyl tert-butyl ether	ND		0.00511	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
di-Isopropyl ether	ND		0.00511	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
tert-Butanol	ND		0.102	0.0274	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,4-Dioxane	ND		0.102	0.0318	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
trans-1,4-Dichloro-2-butene	ND		0.0255	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethanol	ND		1.02	0.0634	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3-Dichloropropene, Total	ND		0.00511	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Xylenes, Total	ND		0.0153	0.00511	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.333	0.0593	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,2,4-Trichlorobenzene	ND		0.333	0.0764	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,2-Dichlorobenzene	ND		0.333	0.0642	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,3-Dichlorobenzene	ND		0.333	0.0807	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,4-Dichlorobenzene	ND		0.333	0.0785	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1-Methylnaphthalene	ND		0.0674	0.0566	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4,5-Trichlorophenol	ND		0.333	0.0382	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4,6-Trichlorophenol	ND		0.169	0.0412	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4-Dichlorophenol	ND		0.169	0.0672	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4-Dimethylphenol	ND		0.333	0.0489	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4-Dinitrophenol	ND		0.333	0.0877	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-27
Matrix: Solid
Percent Solids: 97.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.169	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,6-Dinitrotoluene	ND		0.169	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Chloronaphthalene	ND		0.333	0.0771	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Chlorophenol	ND		0.169	0.0690	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Methylnaphthalene	ND		0.0674	0.0498	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Methylphenol	ND		0.333	0.0487	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Nitroaniline	ND		0.333	0.0317	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Nitrophenol	ND		0.169	0.0599	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
3 & 4 Methylphenol	ND		0.333	0.0631	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
3,3'-Dichlorobenzidine	ND		0.333	0.0550	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
3-Nitroaniline	ND		0.333	0.0298	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4,6-Dinitro-2-methylphenol	ND		0.333	0.0599	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Bromophenyl phenyl ether	ND		0.333	0.0377	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Chloro-3-methylphenol	ND		0.333	0.0652	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Chloroaniline	ND		0.169	0.0256	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Chlorophenyl phenyl ether	ND		0.333	0.0357	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Nitroaniline	ND		0.169	0.0532	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Nitrophenol	ND		0.333	0.116	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Acenaphthene	ND		0.0674	0.0537	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Acenaphthylene	ND		0.0674	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Acetophenone	ND		0.169	0.0411	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Aniline	ND		0.333	0.0256	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Anthracene	ND		0.0674	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Azobenzene/Diphenyldiazene	ND		0.333	0.0569	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzidine	ND	*1	0.667	0.0987	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[a]anthracene	ND		0.0674	0.0379	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[a]pyrene	ND		0.0674	0.0482	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[b]fluoranthene	ND		0.0674	0.0559	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[g,h,i]perylene	ND		0.0674	0.0526	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[k]fluoranthene	ND		0.0674	0.0524	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzoic acid	ND		0.333	0.229	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzyl alcohol	ND		0.333	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Bis(2-chloroethoxy)methane	ND		0.333	0.0580	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Bis(2-chloroethyl)ether	ND		0.169	0.0551	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
bis (2-chloroisopropyl) ether	ND		0.169	0.0750	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Bis(2-ethylhexyl) phthalate	ND		0.169	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Butyl benzyl phthalate	ND		0.333	0.0334	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Carbazole	ND		0.169	0.0441	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Chrysene	ND		0.0674	0.0381	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Dibenz(a,h)anthracene	ND		0.0674	0.0514	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Dibenzofuran	ND		0.169	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Diethyl phthalate	ND		0.333	0.0366	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Dimethyl phthalate	ND		0.333	0.0434	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Di-n-butyl phthalate	ND		0.333	0.0357	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Di-n-octyl phthalate	ND		0.333	0.0550	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Fluoranthene	ND		0.0674	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Fluorene	ND		0.0674	0.0615	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Hexachlorobenzene	ND		0.169	0.0468	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Hexachlorobutadiene	ND		0.169	0.0841	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.169	0.0644	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Hexachloroethane	ND		0.169	0.0663	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Indeno[1,2,3-cd]pyrene	ND		0.0674	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Isophorone	ND		0.169	0.0462	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Naphthalene	ND		0.0674	0.0646	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Nitrobenzene	ND		0.169	0.0779	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
N-Nitrosodimethylamine	ND		0.169	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
N-Nitrosodi-n-propylamine	ND		0.169	0.0672	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
N-Nitrosodiphenylamine	ND		0.333	0.0425	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pentachloronitrobenzene	ND		0.333	0.0526	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pentachlorophenol	ND		0.333	0.136	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Phenanthrene	ND		0.0674	0.0382	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Phenol	ND		0.333	0.0687	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pyrene	ND		0.0674	0.0372	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pyridine	ND		0.333	0.0789	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:53*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.253	0.129	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.253	0.108	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Ethylbenzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Methyl tert-butyl ether	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Naphthalene	ND		0.0505	0.0344	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
o-Xylene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Toluene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
C5-C8 Aliphatics (unadjusted)	ND		0.253	0.129	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
C9-C10 Aromatics	ND		0.253	0.0354	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
C9-C12 Aliphatics (unadjusted)	ND		0.253	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:59*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:59*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1221	ND		0.0200	0.00591	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1232	ND		0.0200	0.00554	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0200	0.00316	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1248	ND		0.0200	0.00625	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1254	ND		0.0200	0.0155	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1262	ND		0.0200	0.00466	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1260	ND		0.0200	0.00430	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1268	ND		0.0200	0.00426	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*
Tetrachloro-m-xylene	*63*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoroheptanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorononanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorodecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorotridecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorotetradecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorobutanesulfonic acid	ND		1.89	0.378	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorohexanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NEtFOSAA	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NMeFOSAA	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
10:2 FTS	ND		1.89	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoropentanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoroheptanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorononanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorodecanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctanesulfonamide	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorohexadecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctadecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorobutanoic acid	ND		1.89	0.755	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoropentanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NMeFOSE	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NMeFOSA	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NEtFOSE	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NEtFOSA	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
HFPODA	ND		1.89	0.944	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
DONA	ND		2.83	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
9Cl-PF3ONS	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
11Cl-PF3OUdS	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorododecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
4:2 Fluorotelomer sulfonic acid	ND		1.89	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoroundecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.89	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
8:2 Fluorotelomer sulfonic acid	ND		2.83	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
M2-6:2 FTS	*117*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C5 PFHxA	*121*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C4 PFHpA	*125*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C8 PFOA	*118*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C6 PFDA	*112*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C2-PFDoDA	*125*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C2 PFTeDA	*133*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C8 PFOS	*112*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d3-NMeFOSAA	*69*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d5-NEtFOSAA	*65*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C8 FOSA	*112*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C4 PFBA	*111*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C5 PFPeA	*110*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d7-N-MeFOSE-M	*105*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d3-NMePFOSA	*96*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d5-NEtPFOSA	*99*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C3 HFPO-DA	*111*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.50	1.19	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Arsenic	**1.39**	**J**	2.10	0.980	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Barium	**9.33**		0.350	0.105	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Beryllium	**0.141**	**J**	0.350	0.0700	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Cadmium	ND		0.350	0.0700	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Chromium	**6.73**		1.05	0.245	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Lead	**1.64**		1.05	0.420	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Nickel	**1.68**		0.700	0.182	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Selenium	ND		3.50	1.05	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Silver	ND	^3+	0.700	0.280	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Thallium	ND		2.10	0.910	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Vanadium	**3.52**		0.700	0.301	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Zinc	**4.81**		1.40	0.560	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0618	0.0206	mg/Kg	☼	03/07/23 20:58	03/08/23 12:52	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-27
Matrix: Solid
Percent Solids: 97.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.8		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	97.2		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0608'
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-28
Matrix: Solid
Percent Solids: 95.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00520	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Acetone	ND		0.0520	0.0117	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Acrylonitrile	ND		0.00520	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Benzene	ND		0.00520	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromobenzene	ND		0.00520	0.00346	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromochloromethane	ND		0.00520	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromodichloromethane	ND		0.00520	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromoform	ND		0.00520	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromomethane	ND		0.0104	0.00648	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2-Butanone (MEK)	ND		0.0104	0.00414	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
n-Butylbenzene	ND		0.0104	0.00558	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
sec-Butylbenzene	ND		0.00520	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
tert-Butylbenzene	ND		0.00520	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Carbon disulfide	ND		0.0104	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Carbon tetrachloride	ND		0.00520	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chlorobenzene	ND		0.00520	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chloroethane	ND		0.0104	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chloroform	ND		0.00520	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chloromethane	ND		0.0104	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2-Chlorotoluene	ND		0.00520	0.00414	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
4-Chlorotoluene	ND		0.00520	0.00452	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00441	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Dibromochloromethane	ND		0.00520	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dibromoethane (EDB)	ND		0.00520	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Dibromomethane	ND		0.00520	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dichlorobenzene	ND		0.00520	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3-Dichlorobenzene	ND		0.00520	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,4-Dichlorobenzene	ND		0.00520	0.00493	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Dichlorodifluoromethane (Freon 12)	ND		0.0104	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1-Dichloroethane	ND		0.00520	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dichloroethane	ND		0.00520	0.00351	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1-Dichloroethene	ND		0.00520	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
cis-1,2-Dichloroethene	ND		0.00520	0.00301	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
trans-1,2-Dichloroethene	ND		0.00520	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dichloropropane	ND		0.00520	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3-Dichloropropane	ND		0.00520	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2,2-Dichloropropane	ND		0.00520	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1-Dichloropropene	ND		0.00520	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
cis-1,3-Dichloropropene	ND		0.00520	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
trans-1,3-Dichloropropene	ND		0.00520	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethylbenzene	ND		0.00520	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Hexachlorobutadiene	ND		0.0104	0.00523	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2-Hexanone (MBK)	ND		0.0104	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Isopropylbenzene	ND		0.00520	0.00393	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
4-Isopropyltoluene	ND		0.00520	0.00511	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Methyl tert-butyl ether	ND		0.00520	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Methylene Chloride	ND		0.0104	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Naphthalene	ND		0.00520	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00520	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Styrene	ND		0.00520	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,1,2-Tetrachloroethane	ND		0.00520	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,2,2-Tetrachloroethane	ND		0.00520	0.00477	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Tetrachloroethene	ND		0.00520	0.00289	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Toluene	ND		0.00520	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,3-Trichlorobenzene	ND		0.00520	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,4-Trichlorobenzene	ND		0.00520	0.00480	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3,5-Trichlorobenzene	ND		0.00520	0.00494	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,1-Trichloroethane	ND		0.00520	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,2-Trichloroethane	ND		0.00520	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Trichloroethene	ND		0.00520	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Trichlorofluoromethane (Freon 11)	ND		0.00520	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,3-Trichloropropane	ND		0.00520	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,4-Trimethylbenzene	ND		0.00520	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3,5-Trimethylbenzene	ND		0.00520	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Vinyl chloride	ND		0.00520	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
m,p-Xylene	ND		0.00520	0.00711	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
o-Xylene	ND		0.00520	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Tetrahydrofuran	ND		0.0104	0.00263	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethyl ether	ND		0.00520	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Tert-amyl methyl ether	ND		0.00520	0.00411	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethyl tert-butyl ether	ND		0.00520	0.00342	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
di-Isopropyl ether	ND		0.00520	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
tert-Butanol	ND		0.104	0.0279	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,4-Dioxane	ND		0.104	0.0324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
trans-1,4-Dichloro-2-butene	ND		0.0260	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethanol	ND		1.04	0.0645	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3-Dichloropropene, Total	ND		0.00520	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Xylenes, Total	ND		0.0156	0.00520	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.336	0.0598	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,2,4-Trichlorobenzene	ND		0.336	0.0770	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,2-Dichlorobenzene	ND		0.336	0.0647	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,3-Dichlorobenzene	ND		0.336	0.0813	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,4-Dichlorobenzene	ND		0.336	0.0791	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1-Methylnaphthalene	ND		0.0679	0.0570	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4,5-Trichlorophenol	ND		0.336	0.0385	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4,6-Trichlorophenol	ND		0.170	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4-Dichlorophenol	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4-Dimethylphenol	ND		0.336	0.0493	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4-Dinitrophenol	ND		0.336	0.0884	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0608'
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-28
Matrix: Solid
Percent Solids: 95.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,6-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Chloronaphthalene	ND		0.336	0.0777	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Chlorophenol	ND		0.170	0.0695	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Methylnaphthalene	ND		0.0679	0.0502	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Methylphenol	ND		0.336	0.0491	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Nitroaniline	ND		0.336	0.0320	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Nitrophenol	ND		0.170	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
3 & 4 Methylphenol	ND		0.336	0.0636	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
3,3'-Dichlorobenzidine	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
3-Nitroaniline	ND		0.336	0.0300	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4,6-Dinitro-2-methylphenol	ND		0.336	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Bromophenyl phenyl ether	ND		0.336	0.0380	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Chloro-3-methylphenol	ND		0.336	0.0658	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Chloroaniline	ND		0.170	0.0258	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Chlorophenyl phenyl ether	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Nitroaniline	ND		0.170	0.0536	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Nitrophenol	ND		0.336	0.117	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Acenaphthene	ND		0.0679	0.0542	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Acenaphthylene	ND		0.0679	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Acetophenone	ND		0.170	0.0414	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Aniline	ND		0.336	0.0258	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Anthracene	ND		0.0679	0.0393	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Azobenzene/Diphenyldiazene	ND		0.336	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzidine	ND	*1	0.672	0.0995	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[a]anthracene	ND		0.0679	0.0382	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[a]pyrene	ND		0.0679	0.0486	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[b]fluoranthene	ND		0.0679	0.0563	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[g,h,i]perylene	ND		0.0679	0.0530	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[k]fluoranthene	ND		0.0679	0.0528	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzoic acid	ND		0.336	0.231	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzyl alcohol	ND		0.336	0.0609	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Bis(2-chloroethoxy)methane	ND		0.336	0.0584	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Bis(2-chloroethyl)ether	ND		0.170	0.0556	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
bis (2-chloroisopropyl) ether	ND		0.170	0.0756	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Bis(2-ethylhexyl) phthalate	ND		0.170	0.0433	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Butyl benzyl phthalate	ND		0.336	0.0337	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Carbazole	ND		0.170	0.0445	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Chrysene	ND		0.0679	0.0384	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Dibenz(a,h)anthracene	ND		0.0679	0.0518	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Dibenzofuran	ND		0.170	0.0588	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Diethyl phthalate	ND		0.336	0.0369	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Dimethyl phthalate	ND		0.336	0.0438	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Di-n-butyl phthalate	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Di-n-octyl phthalate	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Fluoranthene	ND		0.0679	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Fluorene	ND		0.0679	0.0620	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Hexachlorobenzene	ND		0.170	0.0471	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Hexachlorobutadiene	ND		0.170	0.0848	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.170	0.0649	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Hexachloroethane	ND		0.170	0.0668	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0679	0.0576	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Isophorone	ND		0.170	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Naphthalene	ND		0.0679	0.0652	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Nitrobenzene	ND		0.170	0.0785	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
N-Nitrosodimethylamine	ND		0.170	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
N-Nitrosodi-n-propylamine	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
N-Nitrosodiphenylamine	ND		0.336	0.0429	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pentachloronitrobenzene	ND		0.336	0.0530	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pentachlorophenol	ND		0.336	0.137	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Phenanthrene	ND		0.0679	0.0385	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Phenol	ND		0.336	0.0692	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pyrene	ND		0.0679	0.0375	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pyridine	ND		0.336	0.0795	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
Terphenyl-d14	*82*		*30 - 130*	*03/09/23 11:00*	*03/10/23 18:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.255	0.130	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.255	0.109	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Ethylbenzene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Methyl tert-butyl ether	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Naphthalene	ND		0.0509	0.0346	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
o-Xylene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Toluene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.255	0.130	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
C9-C10 Aromatics	ND		0.255	0.0356	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
C9-C12 Aliphatics (unadjusted)	ND		0.255	0.109	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/03/23 07:25*	*03/04/23 10:39*	*1*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 10:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0147	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1221	ND		0.0205	0.00605	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1232	ND		0.0205	0.00567	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00323	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1248	ND		0.0205	0.00640	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1254	**0.0829**		0.0205	0.0159	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1262	ND		0.0205	0.00477	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1260	ND		0.0205	0.00440	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1268	ND		0.0205	0.00436	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoroheptanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorononanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorodecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorotridecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorotetradecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorobutanesulfonic acid	ND		2.05	0.410	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorohexanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NEtFOSAA	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NMeFOSAA	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
10:2 FTS	ND		2.05	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoropentanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoroheptanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorononanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorodecanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctanesulfonamide	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorohexadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorobutanoic acid	ND		2.05	0.820	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoropentanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NMeFOSE	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NMeFOSA	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NEtFOSE	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NEtFOSA	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
HFPODA	ND		2.05	1.03	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
DONA	ND		3.08	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
9Cl-PF3ONS	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
11Cl-PF3OUdS	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorododecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoroundecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C4 PFHpA	*97*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C9 PFNA	*110*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C6 PFDA	*105*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C2-PFDoDA	*104*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C2 PFTeDA	*123*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C8 PFOS	*117*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d3-NMeFOSAA	*37*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d5-NEtFOSAA	*40*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C8 FOSA	*103*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C4 PFBA	*98*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C5 PFPeA	*98*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d7-N-MeFOSE-M	*98*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d9-N-EtFOSE-M	*98*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C3 HFPO-DA	*80*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:34*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.58	1.22	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Arsenic	**2.21**		2.15	1.00	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Barium	**18.4**		0.358	0.107	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Beryllium	**0.229**	**J**	0.358	0.0716	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Cadmium	ND		0.358	0.0716	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Chromium	**9.02**		1.07	0.251	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Lead	**2.22**		1.07	0.430	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Nickel	**4.45**		0.716	0.186	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Selenium	ND		3.58	1.07	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Silver	ND	^3+	0.716	0.287	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Thallium	ND		2.15	0.931	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Vanadium	**7.44**		0.716	0.308	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Zinc	**12.9**	**^5-**	1.43	0.573	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0607	0.0202	mg/Kg	☼	03/07/23 20:58	03/08/23 12:25	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0608'
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-28
Matrix: Solid
Percent Solids: 95.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	95.6		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0810'
Lab Sample ID: 620-10051-29
Date Collected: 03/01/23 11:40
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 86.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00574	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Acetone	ND		0.0574	0.0129	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Acrylonitrile	ND		0.00574	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Benzene	ND		0.00574	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromobenzene	ND		0.00574	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromochloromethane	ND		0.00574	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromodichloromethane	ND		0.00574	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromoform	ND		0.00574	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromomethane	ND		0.0115	0.00715	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2-Butanone (MEK)	ND		0.0115	0.00457	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
n-Butylbenzene	ND		0.0115	0.00615	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
sec-Butylbenzene	ND		0.00574	0.00463	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
tert-Butylbenzene	ND		0.00574	0.00452	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Carbon disulfide	ND		0.0115	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Carbon tetrachloride	ND		0.00574	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chlorobenzene	ND		0.00574	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chloroethane	ND		0.0115	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chloroform	ND		0.00574	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chloromethane	ND		0.0115	0.00441	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2-Chlorotoluene	ND		0.00574	0.00457	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
4-Chlorotoluene	ND		0.00574	0.00498	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dibromo-3-Chloropropane	ND		0.0115	0.00487	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Dibromochloromethane	ND		0.00574	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dibromoethane (EDB)	ND		0.00574	0.00412	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Dibromomethane	ND		0.00574	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dichlorobenzene	ND		0.00574	0.00533	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3-Dichlorobenzene	ND		0.00574	0.00460	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,4-Dichlorobenzene	ND		0.00574	0.00544	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Dichlorodifluoromethane (Freon 12)	ND		0.0115	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1-Dichloroethane	ND		0.00574	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dichloroethane	ND		0.00574	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1-Dichloroethene	ND		0.00574	0.00351	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
cis-1,2-Dichloroethene	ND		0.00574	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
trans-1,2-Dichloroethene	ND		0.00574	0.00357	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dichloropropane	ND		0.00574	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3-Dichloropropane	ND		0.00574	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2,2-Dichloropropane	ND		0.00574	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1-Dichloropropene	ND		0.00574	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
cis-1,3-Dichloropropene	ND		0.00574	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
trans-1,3-Dichloropropene	ND		0.00574	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethylbenzene	ND		0.00574	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Hexachlorobutadiene	ND		0.0115	0.00577	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2-Hexanone (MBK)	ND		0.0115	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Isopropylbenzene	ND		0.00574	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
4-Isopropyltoluene	ND		0.00574	0.00564	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Methyl tert-butyl ether	ND		0.00574	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		0.0115	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Methylene Chloride	ND		0.0115	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Naphthalene	ND		0.00574	0.00519	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1

Client Sample ID: 2023-SB-14-0810' **Lab Sample ID: 620-10051-29**
Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00574	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Styrene	ND		0.00574	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,1,2-Tetrachloroethane	ND		0.00574	0.00430	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,2,2-Tetrachloroethane	ND		0.00574	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Tetrachloroethene	ND		0.00574	0.00319	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Toluene	ND		0.00574	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,3-Trichlorobenzene	ND		0.00574	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,4-Trichlorobenzene	ND		0.00574	0.00529	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3,5-Trichlorobenzene	ND		0.00574	0.00545	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,1-Trichloroethane	ND		0.00574	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,2-Trichloroethane	ND		0.00574	0.00433	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Trichloroethene	ND		0.00574	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Trichlorofluoromethane (Freon 11)	ND		0.00574	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,3-Trichloropropane	ND		0.00574	0.00510	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,4-Trimethylbenzene	ND		0.00574	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3,5-Trimethylbenzene	ND		0.00574	0.00488	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Vinyl chloride	ND		0.00574	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
m,p-Xylene	ND		0.00574	0.00784	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
o-Xylene	ND		0.00574	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Tetrahydrofuran	ND		0.0115	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethyl ether	ND		0.00574	0.00302	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Tert-amyl methyl ether	ND		0.00574	0.00453	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethyl tert-butyl ether	ND		0.00574	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
di-Isopropyl ether	ND		0.00574	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
tert-Butanol	ND		0.115	0.0308	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,4-Dioxane	ND		0.115	0.0357	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
trans-1,4-Dichloro-2-butene	ND		0.0287	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethanol	ND		1.15	0.0712	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3-Dichloropropene, Total	ND		0.00574	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Xylenes, Total	ND		0.0172	0.00574	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0669	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,2,4-Trichlorobenzene	ND		0.376	0.0862	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,2-Dichlorobenzene	ND		0.376	0.0725	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,3-Dichlorobenzene	ND		0.376	0.0911	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,4-Dichlorobenzene	ND		0.376	0.0886	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1-Methylnaphthalene	ND		0.0760	0.0638	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4,6-Trichlorophenol	ND		0.190	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4-Dichlorophenol	ND		0.190	0.0758	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4-Dimethylphenol	ND		0.376	0.0552	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4-Dinitrophenol	ND		0.376	0.0990	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0810'
Date Collected: 03/01/23 11:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-29
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,6-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Chloronaphthalene	ND		0.376	0.0870	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Chlorophenol	ND		0.190	0.0779	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Methylnaphthalene	ND		0.0760	0.0562	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Nitrophenol	ND		0.190	0.0676	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
3,3'-Dichlorobenzidine	ND		0.376	0.0621	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0676	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Chloro-3-methylphenol	ND		0.376	0.0736	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Nitroaniline	ND		0.190	0.0601	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Acenaphthene	ND		0.0760	0.0606	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Acenaphthylene	ND		0.0760	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Acetophenone	ND		0.190	0.0464	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Anthracene	ND		0.0760	0.0440	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0642	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzidine	ND	*1	0.752	0.111	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[a]anthracene	ND		0.0760	0.0427	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[a]pyrene	ND		0.0760	0.0544	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[b]fluoranthene	ND		0.0760	0.0630	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[g,h,i]perylene	ND		0.0760	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[k]fluoranthene	ND		0.0760	0.0592	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzyl alcohol	ND		0.376	0.0682	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0654	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0847	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Butyl benzyl phthalate	ND		0.376	0.0377	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Carbazole	ND		0.190	0.0498	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Chrysene	ND		0.0760	0.0430	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Dibenz(a,h)anthracene	ND		0.0760	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Dibenzofuran	ND		0.190	0.0659	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Diethyl phthalate	ND		0.376	0.0413	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Di-n-octyl phthalate	ND		0.376	0.0621	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Fluoranthene	ND		0.0760	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Fluorene	ND		0.0760	0.0694	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Hexachlorobenzene	ND		0.190	0.0528	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Hexachlorobutadiene	ND		0.190	0.0950	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1

Client Sample ID: 2023-SB-14-0810' **Lab Sample ID: 620-10051-29**
Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0727	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Hexachloroethane	ND		0.190	0.0748	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Indeno[1,2,3-cd]pyrene	ND		0.0760	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Isophorone	ND		0.190	0.0521	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Naphthalene	ND		0.0760	0.0730	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Nitrobenzene	ND		0.190	0.0879	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0758	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
N-Nitrosodiphenylamine	ND		0.376	0.0480	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pentachloronitrobenzene	ND		0.376	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Phenanthrene	ND		0.0760	0.0431	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Phenol	ND		0.376	0.0775	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pyrene	ND		0.0760	0.0420	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pyridine	ND		0.376	0.0890	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
Phenol-d5 (Surr)	*83*		*15 - 110*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*15 - 110*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
Terphenyl-d14	*87*		*30 - 130*	*03/09/23 11:00*	*03/10/23 14:48*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.284	0.145	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.284	0.121	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Ethylbenzene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Methyl tert-butyl ether	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
m,p-Xylene	ND		0.114	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Naphthalene	ND		0.0568	0.0386	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
o-Xylene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Toluene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
C5-C8 Aliphatics (unadjusted)	ND		0.284	0.145	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
C9-C10 Aromatics	ND		0.284	0.0397	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
C9-C12 Aliphatics (unadjusted)	ND		0.284	0.121	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:18*	*1*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:18*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0217	0.0157	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1221	ND		0.0217	0.00643	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1232	ND		0.0217	0.00602	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1

Client Sample ID: 2023-SB-14-0810'
Date Collected: 03/01/23 11:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-29
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0217	0.00344	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1248	ND		0.0217	0.00680	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1254	ND		0.0217	0.0169	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1262	ND		0.0217	0.00507	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1260	ND		0.0217	0.00468	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1268	ND		0.0217	0.00463	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoroheptanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorononanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorodecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorotridecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorotetradecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorobutanesulfonic acid	ND		2.14	0.428	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorohexanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NEtFOSAA	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NMeFOSAA	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
10:2 FTS	ND		2.14	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoropentanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoroheptanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorononanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorodecanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctanesulfonamide	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorohexadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorobutanoic acid	ND		2.14	0.856	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoropentanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NMeFOSE	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NMeFOSA	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NEtFOSE	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NEtFOSA	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
HFPODA	ND		2.14	1.07	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
DONA	ND		3.21	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
9Cl-PF3ONS	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
11Cl-PF3OUdS	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorododecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
4:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoroundecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1

Client Sample ID: 2023-SB-14-0810' **Lab Sample ID: 620-10051-29**
Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
8:2 Fluorotelomer sulfonic acid	ND		3.21	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*101*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
M2-6:2 FTS	*104*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C5 PFHxA	*112*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C8 PFOA	*109*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C9 PFNA	*116*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C6 PFDA	*116*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C2-PFDoDA	*111*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C2 PFTeDA	*128*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C8 PFOS	*117*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d3-NMeFOSAA	*73*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d5-NEtFOSAA	*73*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C8 FOSA	*110*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C4 PFBA	*106*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C5 PFPeA	*102*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d3-NMePFOSA	*94*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d9-N-EtFOSE-M	*103*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d5-NEtPFOSA	*97*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C3 HFPO-DA	*100*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:56*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.61	1.91	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Arsenic	**2.65**	**J**	3.36	1.57	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Barium	**16.4**		0.561	0.168	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Beryllium	**0.164**	**J**	0.561	0.112	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Cadmium	ND		0.561	0.112	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Chromium	**3.95**		1.68	0.392	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Lead	**2.22**		1.68	0.673	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Nickel	**1.68**		1.12	0.292	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Selenium	ND		5.61	1.68	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Silver	ND	^3+	1.12	0.449	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Thallium	ND		3.36	1.46	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Vanadium	**5.96**		1.12	0.482	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Zinc	**7.71**		2.24	0.897	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0640	0.0213	mg/Kg	☼	03/07/23 20:58	03/08/23 12:29	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0810'
Date Collected: 03/01/23 11:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-29
Matrix: Solid
Percent Solids: 86.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.4		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	86.6		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-1012'
Lab Sample ID: 620-10051-30
Date Collected: 03/01/23 11:45
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 83.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00496	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Acetone	ND		0.0496	0.0111	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Acrylonitrile	ND		0.00496	0.00298	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Benzene	ND		0.00496	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromobenzene	ND		0.00496	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromochloromethane	ND		0.00496	0.00282	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromodichloromethane	ND		0.00496	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromoform	ND		0.00496	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromomethane	ND		0.00993	0.00619	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2-Butanone (MEK)	ND		0.00993	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
n-Butylbenzene	ND		0.00993	0.00532	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
sec-Butylbenzene	ND		0.00496	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
tert-Butylbenzene	ND		0.00496	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Carbon disulfide	ND		0.00993	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Carbon tetrachloride	ND		0.00496	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chlorobenzene	ND		0.00496	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chloroethane	ND		0.00993	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chloroform	ND		0.00496	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chloromethane	ND		0.00993	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2-Chlorotoluene	ND		0.00496	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
4-Chlorotoluene	ND		0.00496	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dibromo-3-Chloropropane	ND		0.00993	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Dibromochloromethane	ND		0.00496	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dibromoethane (EDB)	ND		0.00496	0.00356	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Dibromomethane	ND		0.00496	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dichlorobenzene	ND		0.00496	0.00461	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3-Dichlorobenzene	ND		0.00496	0.00398	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,4-Dichlorobenzene	ND		0.00496	0.00471	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Dichlorodifluoromethane (Freon 12)	ND		0.00993	0.00266	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1-Dichloroethane	ND		0.00496	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dichloroethane	ND		0.00496	0.00335	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1-Dichloroethene	ND		0.00496	0.00304	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
cis-1,2-Dichloroethene	ND		0.00496	0.00287	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
trans-1,2-Dichloroethene	ND		0.00496	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dichloropropane	ND		0.00496	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3-Dichloropropane	ND		0.00496	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2,2-Dichloropropane	ND		0.00496	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1-Dichloropropene	ND		0.00496	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
cis-1,3-Dichloropropene	ND		0.00496	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
trans-1,3-Dichloropropene	ND		0.00496	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethylbenzene	ND		0.00496	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Hexachlorobutadiene	ND		0.00993	0.00499	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2-Hexanone (MBK)	ND		0.00993	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Isopropylbenzene	ND		0.00496	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
4-Isopropyltoluene	ND		0.00496	0.00488	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Methyl tert-butyl ether	ND		0.00496	0.00286	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.00993	0.00321	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Methylene Chloride	ND		0.00993	0.00266	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Naphthalene	ND		0.00496	0.00449	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00496	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Styrene	ND		0.00496	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,1,2-Tetrachloroethane	ND		0.00496	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,2,2-Tetrachloroethane	ND		0.00496	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Tetrachloroethene	ND		0.00496	0.00276	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Toluene	ND		0.00496	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,3-Trichlorobenzene	ND		0.00496	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,4-Trichlorobenzene	ND		0.00496	0.00458	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3,5-Trichlorobenzene	ND		0.00496	0.00472	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,1-Trichloroethane	ND		0.00496	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,2-Trichloroethane	ND		0.00496	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Trichloroethene	ND		0.00496	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Trichlorofluoromethane (Freon 11)	ND		0.00496	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,3-Trichloropropane	ND		0.00496	0.00441	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,4-Trimethylbenzene	ND		0.00496	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3,5-Trimethylbenzene	ND		0.00496	0.00422	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Vinyl chloride	ND		0.00496	0.00303	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
m,p-Xylene	ND		0.00496	0.00678	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
o-Xylene	ND		0.00496	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Tetrahydrofuran	ND		0.00993	0.00251	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethyl ether	ND		0.00496	0.00261	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Tert-amyl methyl ether	ND		0.00496	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethyl tert-butyl ether	ND		0.00496	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
di-Isopropyl ether	ND		0.00496	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
tert-Butanol	ND		0.0993	0.0266	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,4-Dioxane	ND		0.0993	0.0309	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
trans-1,4-Dichloro-2-butene	ND		0.0248	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethanol	ND		0.993	0.0616	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3-Dichloropropene, Total	ND		0.00496	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Xylenes, Total	ND		0.0149	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.391	0.0695	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,2,4-Trichlorobenzene	ND		0.391	0.0895	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,2-Dichlorobenzene	ND		0.391	0.0753	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,3-Dichlorobenzene	ND		0.391	0.0946	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,4-Dichlorobenzene	ND		0.391	0.0920	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1-Methylnaphthalene	ND		0.0790	0.0663	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4,5-Trichlorophenol	ND		0.391	0.0448	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4,6-Trichlorophenol	ND		0.198	0.0483	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4-Dichlorophenol	ND		0.198	0.0788	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4-Dimethylphenol	ND		0.391	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4-Dinitrophenol	ND		0.391	0.103	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-1012'
Date Collected: 03/01/23 11:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-30
Matrix: Solid
Percent Solids: 83.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,6-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Chloronaphthalene	ND		0.391	0.0904	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Chlorophenol	ND		0.198	0.0809	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Methylnaphthalene	ND		0.0790	0.0584	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Methylphenol	ND		0.391	0.0571	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Nitroaniline	ND		0.391	0.0372	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Nitrophenol	ND		0.198	0.0702	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
3 & 4 Methylphenol	ND		0.391	0.0740	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
3,3'-Dichlorobenzidine	ND		0.391	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
3-Nitroaniline	ND		0.391	0.0349	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4,6-Dinitro-2-methylphenol	ND		0.391	0.0702	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Bromophenyl phenyl ether	ND		0.391	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Chloro-3-methylphenol	ND		0.391	0.0765	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Chloroaniline	ND		0.198	0.0300	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Chlorophenyl phenyl ether	ND		0.391	0.0418	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Nitroaniline	ND		0.198	0.0624	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Nitrophenol	ND		0.391	0.136	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Acenaphthene	ND		0.0790	0.0630	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Acenaphthylene	ND		0.0790	0.0519	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Acetophenone	ND		0.198	0.0482	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Aniline	ND		0.391	0.0300	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Anthracene	ND		0.0790	0.0457	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Azobenzene/Diphenyldiazene	ND		0.391	0.0667	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzidine	ND	*1	0.782	0.116	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[a]anthracene	ND		0.0790	0.0444	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[a]pyrene	ND		0.0790	0.0565	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[b]fluoranthene	ND		0.0790	0.0655	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[g,h,i]perylene	ND		0.0790	0.0617	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[k]fluoranthene	ND		0.0790	0.0615	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzoic acid	ND		0.391	0.269	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzyl alcohol	ND		0.391	0.0708	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Bis(2-chloroethoxy)methane	ND		0.391	0.0680	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Bis(2-chloroethyl)ether	ND		0.198	0.0647	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
bis (2-chloroisopropyl) ether	ND		0.198	0.0880	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Bis(2-ethylhexyl) phthalate	ND		0.198	0.0503	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Butyl benzyl phthalate	ND		0.391	0.0392	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Carbazole	ND		0.198	0.0518	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Chrysene	ND		0.0790	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Dibenz(a,h)anthracene	ND		0.0790	0.0603	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Dibenzofuran	ND		0.198	0.0684	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Diethyl phthalate	ND		0.391	0.0429	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Dimethyl phthalate	ND		0.391	0.0509	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Di-n-butyl phthalate	ND		0.391	0.0418	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Di-n-octyl phthalate	ND		0.391	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Fluoranthene	ND		0.0790	0.0463	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Fluorene	ND		0.0790	0.0721	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Hexachlorobenzene	ND		0.198	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Hexachlorobutadiene	ND		0.198	0.0986	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.198	0.0756	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Hexachloroethane	ND		0.198	0.0777	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0790	0.0670	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Isophorone	ND		0.198	0.0541	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Naphthalene	ND		0.0790	0.0758	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Nitrobenzene	ND		0.198	0.0913	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
N-Nitrosodimethylamine	ND		0.198	0.0519	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
N-Nitrosodi-n-propylamine	ND		0.198	0.0788	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
N-Nitrosodiphenylamine	ND		0.391	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pentachloronitrobenzene	ND		0.391	0.0617	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pentachlorophenol	ND		0.391	0.160	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Phenanthrene	ND		0.0790	0.0448	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Phenol	ND		0.391	0.0805	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pyrene	ND		0.0790	0.0436	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pyridine	ND		0.391	0.0925	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.261	0.134	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.261	0.112	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Ethylbenzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Methyl tert-butyl ether	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Naphthalene	ND		0.0523	0.0355	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
o-Xylene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Toluene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
C5-C8 Aliphatics (unadjusted)	ND		0.261	0.134	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
C9-C10 Aromatics	ND		0.261	0.0366	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
C9-C12 Aliphatics (unadjusted)	ND		0.261	0.112	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:57*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:57*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1221	ND		0.0229	0.00676	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1232	ND		0.0229	0.00634	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0229	0.00361	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1248	ND		0.0229	0.00715	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1254	ND		0.0229	0.0178	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1262	ND		0.0229	0.00533	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1260	ND		0.0229	0.00492	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1268	ND		0.0229	0.00487	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoroheptanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorononanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorodecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorotridecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorotetradecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorobutanesulfonic acid	ND		2.31	0.462	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorohexanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NEtFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NMeFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
10:2 FTS	ND		2.31	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoropentanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoroheptanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorononanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorodecanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctanesulfonamide	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorohexadecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctadecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorobutanoic acid	ND		2.31	0.924	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoropentanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NMeFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NMeFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NEtFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NEtFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
HFPODA	ND		2.31	1.15	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
DONA	ND		3.46	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
9Cl-PF3ONS	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
11Cl-PF3OUdS	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorododecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
4:2 Fluorotelomer sulfonic acid	ND		2.31	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoroundecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.31	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
M2-6:2 FTS	*96*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C5 PFHxA	*101*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C4 PFHpA	*99*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C9 PFNA	*100*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C7 PFUnA	*94*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C2-PFDoDA	*97*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C2 PFTeDA	*103*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C3 PFBS	*97*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C3 PFHxS	*95*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d3-NMeFOSAA	*72*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d5-NEtFOSAA	*73*		*10 - 193*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C8 FOSA	*90*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C4 PFBA	*103*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d7-N-MeFOSE-M	*87*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d9-N-EtFOSE-M	*82*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d5-NEtPFOSA	*81*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:08*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.55	1.55	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Arsenic	**2.61**	**J**	2.73	1.27	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Barium	**13.0**		0.455	0.136	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Beryllium	**0.157**	**J**	0.455	0.0910	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Cadmium	ND		0.455	0.0910	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Chromium	**4.27**		1.36	0.318	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Lead	**1.96**		1.36	0.546	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Nickel	**1.76**		0.910	0.237	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Selenium	ND		4.55	1.36	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Silver	ND	^3+	0.910	0.364	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Thallium	ND		2.73	1.18	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Vanadium	**5.28**		0.910	0.391	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Zinc	**8.20**		1.82	0.728	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0697	0.0232	mg/Kg	☼	03/07/23 20:58	03/08/23 12:27	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-1012'
Date Collected: 03/01/23 11:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-30
Matrix: Solid
Percent Solids: 83.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.7		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	83.3		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-02

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-31

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Methylene Chloride	**0.00476**	**J**	0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 14:40	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-02

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-31

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0002'
Date Collected: 03/01/23 12:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-32
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00494	0.00322	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Acetone	ND		0.0494	0.0111	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Acrylonitrile	ND		0.00494	0.00296	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Benzene	ND		0.00494	0.00330	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromobenzene	ND		0.00494	0.00329	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromochloromethane	ND		0.00494	0.00281	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromodichloromethane	ND		0.00494	0.00363	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromoform	ND		0.00494	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromomethane	ND		0.00988	0.00616	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2-Butanone (MEK)	ND		0.00988	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
n-Butylbenzene	ND		0.00988	0.00530	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
sec-Butylbenzene	ND		0.00494	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
tert-Butylbenzene	ND		0.00494	0.00389	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Carbon disulfide	ND		0.00988	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Carbon tetrachloride	ND		0.00494	0.00311	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chlorobenzene	ND		0.00494	0.00362	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chloroethane	ND		0.00988	0.00363	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chloroform	ND		0.00494	0.00332	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chloromethane	ND		0.00988	0.00379	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2-Chlorotoluene	ND		0.00494	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
4-Chlorotoluene	ND		0.00494	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND		0.00988	0.00419	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Dibromochloromethane	ND		0.00494	0.00327	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dibromoethane (EDB)	ND		0.00494	0.00355	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Dibromomethane	ND		0.00494	0.00290	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dichlorobenzene	ND		0.00494	0.00458	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3-Dichlorobenzene	ND		0.00494	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,4-Dichlorobenzene	ND		0.00494	0.00468	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Dichlorodifluoromethane (Freon 12)	ND		0.00988	0.00265	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1-Dichloroethane	ND		0.00494	0.00335	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dichloroethane	ND		0.00494	0.00333	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1-Dichloroethene	ND		0.00494	0.00302	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
cis-1,2-Dichloroethene	ND		0.00494	0.00286	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
trans-1,2-Dichloroethene	ND		0.00494	0.00307	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dichloropropane	ND		0.00494	0.00327	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3-Dichloropropane	ND		0.00494	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2,2-Dichloropropane	ND		0.00494	0.00341	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1-Dichloropropene	ND		0.00494	0.00336	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
cis-1,3-Dichloropropene	ND		0.00494	0.00322	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
trans-1,3-Dichloropropene	ND		0.00494	0.00375	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethylbenzene	ND		0.00494	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Hexachlorobutadiene	ND		0.00988	0.00497	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2-Hexanone (MBK)	ND		0.00988	0.00290	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Isopropylbenzene	ND		0.00494	0.00373	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
4-Isopropyltoluene	ND		0.00494	0.00485	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Methyl tert-butyl ether	ND		0.00494	0.00285	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.00988	0.00319	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Methylene Chloride	ND		0.00988	0.00265	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Naphthalene	ND		0.00494	0.00447	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00494	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Styrene	ND		0.00494	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,1,2-Tetrachloroethane	ND		0.00494	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.00494	0.00453	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Tetrachloroethene	ND		0.00494	0.00275	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Toluene	ND		0.00494	0.00313	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,3-Trichlorobenzene	ND		0.00494	0.00417	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,4-Trichlorobenzene	ND		0.00494	0.00456	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3,5-Trichlorobenzene	ND		0.00494	0.00469	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,1-Trichloroethane	ND		0.00494	0.00337	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,2-Trichloroethane	ND		0.00494	0.00373	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Trichloroethene	ND		0.00494	0.00332	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Trichlorofluoromethane (Freon 11)	ND		0.00494	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,3-Trichloropropane	ND		0.00494	0.00439	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,4-Trimethylbenzene	ND		0.00494	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3,5-Trimethylbenzene	ND		0.00494	0.00420	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Vinyl chloride	ND		0.00494	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
m,p-Xylene	ND		0.00494	0.00675	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
o-Xylene	ND		0.00494	0.00361	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Tetrahydrofuran	ND		0.00988	0.00250	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethyl ether	ND		0.00494	0.00260	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Tert-amyl methyl ether	ND		0.00494	0.00390	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethyl tert-butyl ether	ND		0.00494	0.00325	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
di-Isopropyl ether	ND		0.00494	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
tert-Butanol	ND		0.0988	0.0265	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,4-Dioxane	ND		0.0988	0.0307	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethanol	ND		0.988	0.0613	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3-Dichloropropene, Total	ND		0.00494	0.00375	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Xylenes, Total	ND		0.0148	0.00494	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.704	0.125	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,2,4-Trichlorobenzene	ND		0.704	0.161	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,2-Dichlorobenzene	ND		0.704	0.136	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,3-Dichlorobenzene	ND		0.704	0.171	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,4-Dichlorobenzene	ND		0.704	0.166	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1-Methylnaphthalene	ND		0.142	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4,5-Trichlorophenol	ND		0.704	0.0807	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4,6-Trichlorophenol	ND		0.356	0.0871	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4-Dichlorophenol	ND		0.356	0.142	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4-Dimethylphenol	ND		0.704	0.103	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4-Dinitrophenol	**1.21**		0.704	0.185	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.356	0.0835	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,6-Dinitrotoluene	ND		0.356	0.0835	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Chloronaphthalene	ND		0.704	0.163	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Chlorophenol	ND		0.356	0.146	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Methylnaphthalene	ND		0.142	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Methylphenol	ND		0.704	0.103	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Nitroaniline	ND		0.704	0.0670	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Nitrophenol	ND		0.356	0.127	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
3 & 4 Methylphenol	ND		0.704	0.133	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
3,3'-Dichlorobenzidine	ND		0.704	0.116	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
3-Nitroaniline	ND		0.704	0.0630	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4,6-Dinitro-2-methylphenol	ND		0.704	0.127	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Bromophenyl phenyl ether	ND		0.704	0.0796	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Chloro-3-methylphenol	ND		0.704	0.138	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Chloroaniline	ND		0.356	0.0540	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Chlorophenyl phenyl ether	ND		0.704	0.0754	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Nitroaniline	ND		0.356	0.112	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Nitrophenol	ND		0.704	0.245	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Acenaphthene	ND		0.142	0.114	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Acenaphthylene	ND		0.142	0.0935	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Acetophenone	ND		0.356	0.0869	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Aniline	ND		0.704	0.0540	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Anthracene	ND		0.142	0.0824	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Azobenzene/Diphenyldiazene	ND		0.704	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzidine	**1.62**	***1**	1.41	0.209	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[a]anthracene	**0.190**		0.142	0.0801	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[a]pyrene	**0.130**	**J**	0.142	0.102	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[b]fluoranthene	**0.211**		0.142	0.118	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[g,h,i]perylene	**0.114**	**J**	0.142	0.111	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[k]fluoranthene	**0.171**		0.142	0.111	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzoic acid	ND		0.704	0.485	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzyl alcohol	ND		0.704	0.128	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Bis(2-chloroethoxy)methane	ND		0.704	0.123	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Bis(2-chloroethyl)ether	ND		0.356	0.117	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
bis (2-chloroisopropyl) ether	ND		0.356	0.159	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Bis(2-ethylhexyl) phthalate	**8.64**		1.78	0.454	mg/Kg	☼	03/09/23 11:00	03/13/23 21:55	5
Butyl benzyl phthalate	**1.53**		0.704	0.0707	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Carbazole	ND		0.356	0.0933	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Chrysene	**0.296**		0.142	0.0805	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Dibenz(a,h)anthracene	ND		0.142	0.109	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Dibenzofuran	ND		0.356	0.123	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Diethyl phthalate	ND		0.704	0.0773	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Dimethyl phthalate	ND		0.704	0.0918	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Di-n-butyl phthalate	**1.71**		0.704	0.0754	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Di-n-octyl phthalate	ND		0.704	0.116	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Fluoranthene	**0.423**		0.142	0.0835	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Fluorene	ND		0.142	0.130	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Hexachlorobenzene	ND		0.356	0.0988	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Hexachlorobutadiene	ND		0.356	0.178	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.356	0.136	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Hexachloroethane	ND		0.356	0.140	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Indeno[1,2,3-cd]pyrene	ND		0.142	0.121	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Isophorone	ND		0.356	0.0976	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Naphthalene	ND		0.142	0.137	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Nitrobenzene	ND		0.356	0.165	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
N-Nitrosodimethylamine	ND		0.356	0.0935	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
N-Nitrosodi-n-propylamine	ND		0.356	0.142	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
N-Nitrosodiphenylamine	ND		0.704	0.0899	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pentachloronitrobenzene	ND		0.704	0.111	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pentachlorophenol	ND		0.704	0.288	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Phenanthrene	**0.160**		0.142	0.0807	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Phenol	ND		0.704	0.145	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pyrene	**0.379**		0.142	0.0786	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pyridine	ND		0.704	0.167	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
2-Fluorophenol (Surr)	*84*		*15 - 110*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
Phenol-d5 (Surr)	*81*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
Terphenyl-d14	*77*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:23*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.251	0.128	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.251	0.107	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Ethylbenzene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Methyl tert-butyl ether	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Naphthalene	ND		0.0501	0.0341	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
o-Xylene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Toluene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
C5-C8 Aliphatics (unadjusted)	ND		0.251	0.128	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
C9-C10 Aromatics	ND		0.251	0.0351	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
C9-C12 Aliphatics (unadjusted)	ND		0.251	0.107	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 12:37*	*1*

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 12:37*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.420	0.303	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1221	ND		0.420	0.124	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1232	ND		0.420	0.116	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1242	ND		0.420	0.0663	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1248	ND		0.420	0.131	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1254	**10.3**		0.420	0.327	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1262	ND		0.420	0.0978	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1260	ND		0.420	0.0903	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1268	ND		0.420	0.0894	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoroheptanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorononanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorodecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorotridecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorotetradecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorobutanesulfonic acid	ND		2.06	0.413	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorohexanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NEtFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NMeFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
10:2 FTS	ND		2.06	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoropentanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoroheptanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorononanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorodecanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctanesulfonamide	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorohexadecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctadecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorobutanoic acid	ND		2.06	0.825	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoropentanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NMeFOSE	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NMeFOSA	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NEtFOSE	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NEtFOSA	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.06	1.03	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
DONA	ND		3.09	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
9Cl-PF3ONS	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
11Cl-PF3OUdS	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorododecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.06	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoroundecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
6:2 Fluorotelomer sulfonic acid	ND		2.06	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.09	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*20*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
M2-8:2 FTS	*23*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
M2-6:2 FTS	*24*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C5 PFHxA	*82*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C4 PFHpA	*84*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C8 PFOA	*82*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C9 PFNA	*81*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C6 PFDA	*80*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C7 PFUnA	*84*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C2-PFDoDA	*86*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C2 PFTeDA	*97*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C3 PFHxS	*129*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d3-NMeFOSAA	*0.6*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d5-NEtFOSAA	*1*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C4 PFBA	*71*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d7-N-MeFOSE-M	*105*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d3-NMePFOSA	*94*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d9-N-EtFOSE-M	*104*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d5-NEtPFOSA	*99*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C3 HFPO-DA	*102*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:19*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoroheptanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorononanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorodecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorotridecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorotetradecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorobutanesulfonic acid	ND		2.08	0.417	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorohexanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0002'
Date Collected: 03/01/23 12:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-32
Matrix: Solid
Percent Solids: 93.2

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.08	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoropentanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoroheptanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorononanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorodecanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctanesulfonamide	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorohexadecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctadecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorobutanoic acid	ND		2.08	0.833	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoropentanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NMeFOSE	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NMeFOSA	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NEtFOSE	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NEtFOSA	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
DONA	ND		3.12	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
11Cl-PF3OUdS	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorododecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoroundecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
8:2 Fluorotelomer sulfonic acid	ND		3.12	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
M2-8:2 FTS	*122*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C5 PFHxA	*141*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C4 PFHpA	*143*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C8 PFOA	*143*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C9 PFNA	*115*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C6 PFDA	*131*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C7 PFUnA	*132*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C2-PFDoDA	*130*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C3 PFBS	*148*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C3 PFHxS	*168*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C8 PFOS	*137*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C8 FOSA	*124*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C4 PFBA	*132*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C5 PFPeA	*123*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d7-N-MeFOSE-M	*109*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d9-N-EtFOSE-M	*114*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d5-NEtPFOSA	*92*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:52*	*1*

Client Sample ID: 2023-SB-13-0002' Lab Sample ID: 620-10051-32

Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*142*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.16	1.41	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Arsenic	**12.8**		2.49	1.16	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Barium	**29.4**		0.416	0.125	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Beryllium	**0.201**	**J**	0.416	0.0832	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Cadmium	ND		0.416	0.0832	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Chromium	**4.55**		1.25	0.291	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Lead	**9.60**		1.25	0.499	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Nickel	**2.34**		0.832	0.216	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Selenium	ND		4.16	1.25	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Silver	ND	^3+	0.832	0.333	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Thallium	ND		2.49	1.08	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Vanadium	**7.12**		0.832	0.358	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Zinc	**14.3**		1.66	0.665	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0594	0.0198	mg/Kg	☼	03/08/23 00:46	03/09/23 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.8**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**93.2**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0204'
Date Collected: 03/01/23 12:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-33
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00553	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Acetone	ND		0.0553	0.0124	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Acrylonitrile	ND		0.00553	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Benzene	ND		0.00553	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromobenzene	ND		0.00553	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromochloromethane	ND		0.00553	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromodichloromethane	ND		0.00553	0.00406	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromoform	ND		0.00553	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromomethane	ND		0.0111	0.00689	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2-Butanone (MEK)	ND		0.0111	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
n-Butylbenzene	ND		0.0111	0.00593	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
sec-Butylbenzene	ND		0.00553	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
tert-Butylbenzene	ND		0.00553	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Carbon disulfide	ND		0.0111	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Carbon tetrachloride	ND		0.00553	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chlorobenzene	ND		0.00553	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chloroethane	ND		0.0111	0.00406	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chloroform	ND		0.00553	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chloromethane	ND		0.0111	0.00425	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2-Chlorotoluene	ND		0.00553	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
4-Chlorotoluene	ND		0.00553	0.00480	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0111	0.00469	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Dibromochloromethane	ND		0.00553	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dibromoethane (EDB)	ND		0.00553	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Dibromomethane	ND		0.00553	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dichlorobenzene	ND		0.00553	0.00513	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3-Dichlorobenzene	ND		0.00553	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,4-Dichlorobenzene	ND		0.00553	0.00524	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.0111	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1-Dichloroethane	ND		0.00553	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dichloroethane	ND		0.00553	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1-Dichloroethene	ND		0.00553	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
cis-1,2-Dichloroethene	ND		0.00553	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
trans-1,2-Dichloroethene	ND		0.00553	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dichloropropane	ND		0.00553	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3-Dichloropropane	ND		0.00553	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2,2-Dichloropropane	ND		0.00553	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1-Dichloropropene	ND		0.00553	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
cis-1,3-Dichloropropene	ND		0.00553	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
trans-1,3-Dichloropropene	ND		0.00553	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethylbenzene	ND		0.00553	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Hexachlorobutadiene	ND		0.0111	0.00557	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2-Hexanone (MBK)	ND		0.0111	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Isopropylbenzene	ND		0.00553	0.00418	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
4-Isopropyltoluene	ND		0.00553	0.00543	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Methyl tert-butyl ether	ND		0.00553	0.00319	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0111	0.00357	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Methylene Chloride	ND		0.0111	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Naphthalene	ND		0.00553	0.00500	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00553	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Styrene	ND		0.00553	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,1,2-Tetrachloroethane	ND		0.00553	0.00415	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,2,2-Tetrachloroethane	ND		0.00553	0.00507	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Tetrachloroethene	ND		0.00553	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Toluene	ND		0.00553	0.00351	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,3-Trichlorobenzene	ND		0.00553	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,4-Trichlorobenzene	ND		0.00553	0.00510	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3,5-Trichlorobenzene	ND		0.00553	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,1-Trichloroethane	ND		0.00553	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,2-Trichloroethane	ND		0.00553	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Trichloroethene	ND		0.00553	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00553	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,3-Trichloropropane	ND		0.00553	0.00491	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,4-Trimethylbenzene	ND		0.00553	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3,5-Trimethylbenzene	ND		0.00553	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Vinyl chloride	ND		0.00553	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
m,p-Xylene	ND		0.00553	0.00756	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
o-Xylene	ND		0.00553	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Tetrahydrofuran	ND		0.0111	0.00280	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethyl ether	ND		0.00553	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Tert-amyl methyl ether	ND		0.00553	0.00437	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethyl tert-butyl ether	ND		0.00553	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
di-Isopropyl ether	ND		0.00553	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
tert-Butanol	ND		0.111	0.0297	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,4-Dioxane	ND		0.111	0.0344	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
trans-1,4-Dichloro-2-butene	ND		0.0277	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethanol	ND		1.11	0.0686	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3-Dichloropropene, Total	ND		0.00553	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Xylenes, Total	ND		0.0166	0.00553	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.346	0.0616	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,2,4-Trichlorobenzene	ND		0.346	0.0793	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,2-Dichlorobenzene	ND		0.346	0.0667	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,3-Dichlorobenzene	ND		0.346	0.0838	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,4-Dichlorobenzene	ND		0.346	0.0815	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1-Methylnaphthalene	ND		0.0700	0.0587	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4,5-Trichlorophenol	ND		0.346	0.0396	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4,6-Trichlorophenol	ND		0.175	0.0428	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4-Dichlorophenol	ND		0.175	0.0697	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4-Dimethylphenol	ND		0.346	0.0508	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4-Dinitrophenol	ND		0.346	0.0910	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0204'
Date Collected: 03/01/23 12:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-33
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,6-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Chloronaphthalene	ND		0.346	0.0800	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Chlorophenol	ND		0.175	0.0716	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Methylnaphthalene	ND		0.0700	0.0517	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Methylphenol	ND		0.346	0.0506	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Nitroaniline	ND		0.346	0.0329	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Nitrophenol	ND		0.175	0.0622	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
3 & 4 Methylphenol	ND		0.346	0.0656	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
3,3'-Dichlorobenzidine	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
3-Nitroaniline	ND		0.346	0.0309	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4,6-Dinitro-2-methylphenol	ND		0.346	0.0622	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Bromophenyl phenyl ether	ND		0.346	0.0391	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Chloro-3-methylphenol	ND		0.346	0.0678	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Chlorophenyl phenyl ether	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Nitroaniline	ND		0.175	0.0553	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Nitrophenol	ND		0.346	0.121	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Acenaphthene	ND		0.0700	0.0558	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Acenaphthylene	ND		0.0700	0.0459	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Acetophenone	ND		0.175	0.0427	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Aniline	ND		0.346	0.0265	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Anthracene	ND		0.0700	0.0405	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Azobenzene/Diphenyldiazene	ND		0.346	0.0590	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzidine	ND	*1	0.692	0.102	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[a]anthracene	ND		0.0700	0.0393	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[a]pyrene	ND		0.0700	0.0500	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[b]fluoranthene	ND		0.0700	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[g,h,i]perylene	ND		0.0700	0.0546	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[k]fluoranthene	ND		0.0700	0.0544	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzoic acid	ND		0.346	0.238	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzyl alcohol	ND		0.346	0.0627	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Bis(2-chloroethoxy)methane	ND		0.346	0.0602	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Bis(2-chloroethyl)ether	ND		0.175	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0779	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Bis(2-ethylhexyl) phthalate	ND		0.175	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Butyl benzyl phthalate	ND		0.346	0.0347	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Carbazole	ND		0.175	0.0458	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Chrysene	ND		0.0700	0.0395	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Dibenz(a,h)anthracene	ND		0.0700	0.0534	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Dibenzofuran	ND		0.175	0.0606	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Diethyl phthalate	ND		0.346	0.0380	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Dimethyl phthalate	ND		0.346	0.0451	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Di-n-butyl phthalate	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Di-n-octyl phthalate	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Fluoranthene	ND		0.0700	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Fluorene	ND		0.0700	0.0639	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Hexachlorobenzene	ND		0.175	0.0486	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Hexachlorobutadiene	ND		0.175	0.0874	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0669	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Hexachloroethane	ND		0.175	0.0688	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0700	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Isophorone	ND		0.175	0.0479	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Naphthalene	ND		0.0700	0.0671	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Nitrobenzene	ND		0.175	0.0809	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
N-Nitrosodimethylamine	ND		0.175	0.0459	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0697	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
N-Nitrosodiphenylamine	ND		0.346	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pentachloronitrobenzene	ND		0.346	0.0546	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pentachlorophenol	ND		0.346	0.142	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Phenanthrene	ND		0.0700	0.0396	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Phenol	ND		0.346	0.0713	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pyrene	ND		0.0700	0.0386	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pyridine	ND		0.346	0.0819	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
2-Fluorophenol (Surr)	*92*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:46*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.267	0.137	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.267	0.114	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Ethylbenzene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Methyl tert-butyl ether	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
m,p-Xylene	ND		0.107	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Naphthalene	ND		0.0533	0.0363	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
o-Xylene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Toluene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.267	0.137	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
C9-C10 Aromatics	ND		0.267	0.0373	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.267	0.114	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:16*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1221	ND		0.0208	0.00615	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1232	ND		0.0208	0.00576	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1254	**0.0181**	**J**	0.0208	0.0162	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1262	ND		0.0208	0.00485	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1260	ND		0.0208	0.00447	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoroheptanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorononanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorodecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorotridecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorotetradecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorobutanesulfonic acid	ND		2.08	0.416	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorohexanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
10:2 FTS	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoropentanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoroheptanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorononanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorodecanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctanesulfonamide	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorohexadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorobutanoic acid	ND		2.08	0.831	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoropentanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NMeFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NMeFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NEtFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NEtFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
DONA	ND		3.12	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
11Cl-PF3OUdS	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorododecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoroundecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.12	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*27*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
M2-8:2 FTS	*30*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
M2-6:2 FTS	*30*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C5 PFHxA	*40*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C4 PFHpA	*40*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C8 PFOA	*41*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C9 PFNA	*43*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C6 PFDA	*42*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C7 PFUnA	*43*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C2-PFDoDA	*47*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C2 PFTeDA	*51*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C3 PFBS	*64*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C3 PFHxS	*70*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C8 PFOS	*74*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C4 PFBA	*37*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C5 PFPeA	*35*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d7-N-MeFOSE-M	*105*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d9-N-EtFOSE-M	*104*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d5-NEtPFOSA	*93*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C3 HFPO-DA	*47*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoroheptanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorononanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorodecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorotridecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorotetradecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorobutanesulfonic acid	ND		1.94	0.389	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorohexanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NEtFOSAA	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NMeFOSAA	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
10:2 FTS	ND		1.94	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoropentanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoroheptanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorononanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorodecanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctanesulfonamide	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctadecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorobutanoic acid	ND		1.94	0.778	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoropentanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NMeFOSE	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NMeFOSA	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NEtFOSE	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NEtFOSA	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
HFPODA	ND		1.94	0.972	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
DONA	ND		2.92	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
9Cl-PF3ONS	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
11Cl-PF3OUdS	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorododecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
4:2 Fluorotelomer sulfonic acid	ND		1.94	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoroundecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
6:2 Fluorotelomer sulfonic acid	ND		1.94	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
8:2 Fluorotelomer sulfonic acid	ND		2.92	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
M2-8:2 FTS	*104*		*15 - 200*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
M2-6:2 FTS	*110*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C5 PFHxA	*126*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C4 PFHpA	*127*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C8 PFOA	*124*		*26 - 159*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C6 PFDA	*116*		*26 - 161*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C7 PFUnA	*119*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C2-PFDoDA	*118*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C2 PFTeDA	*117*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C3 PFBS	*136*		*27 - 179*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C3 PFHxS	*158*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C8 FOSA	*132*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C4 PFBA	*112*		*28 - 153*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C5 PFPeA	*110*		*24 - 161*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d7-N-MeFOSE-M	*124*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d3-NMePFOSA	*123*		*10 - 175*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d9-N-EtFOSE-M	*133*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d5-NEtPFOSA	*122*		*10 - 180*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C3 HFPO-DA	*124*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.77	1.62	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Arsenic	**4.84**		2.86	1.34	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Barium	**11.9**		0.477	0.143	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Beryllium	**0.209**	**J**	0.477	0.0955	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0204'

Date Collected: 03/01/23 12:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-33

Matrix: Solid
Percent Solids: 94.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.477	0.0955	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Chromium	**4.88**		1.43	0.334	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Lead	**2.64**		1.43	0.573	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Nickel	**2.17**		0.955	0.248	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Selenium	ND		4.77	1.43	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Silver	ND	^3+	0.955	0.382	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Thallium	ND		2.86	1.24	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Vanadium	**7.54**		0.955	0.411	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Zinc	**9.04**		1.91	0.764	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0636	0.0212	mg/Kg	☼	03/07/23 20:58	03/08/23 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.6**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**94.4**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-04
Date Collected: 03/01/23 08:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-34
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00571	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Acetone	ND		0.0571	0.0128	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Acrylonitrile	ND		0.00571	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Benzene	ND		0.00571	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromobenzene	ND		0.00571	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromochloromethane	ND		0.00571	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromodichloromethane	ND		0.00571	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromoform	ND		0.00571	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromomethane	ND		0.0114	0.00712	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2-Butanone (MEK)	ND		0.0114	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
n-Butylbenzene	ND		0.0114	0.00612	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
sec-Butylbenzene	ND		0.00571	0.00460	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
tert-Butylbenzene	ND		0.00571	0.00450	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Carbon disulfide	ND		0.0114	0.00401	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Carbon tetrachloride	ND		0.00571	0.00360	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chlorobenzene	ND		0.00571	0.00418	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chloroethane	ND		0.0114	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chloroform	ND		0.00571	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chloromethane	ND		0.0114	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2-Chlorotoluene	ND		0.00571	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
4-Chlorotoluene	ND		0.00571	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dibromo-3-Chloropropane	ND		0.0114	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Dibromochloromethane	ND		0.00571	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dibromoethane (EDB)	ND		0.00571	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Dibromomethane	ND		0.00571	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dichlorobenzene	ND		0.00571	0.00530	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3-Dichlorobenzene	ND		0.00571	0.00458	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,4-Dichlorobenzene	ND		0.00571	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Dichlorodifluoromethane (Freon 12)	ND		0.0114	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1-Dichloroethane	ND		0.00571	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dichloroethane	ND		0.00571	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1-Dichloroethene	ND		0.00571	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
cis-1,2-Dichloroethene	ND		0.00571	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
trans-1,2-Dichloroethene	ND		0.00571	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dichloropropane	ND		0.00571	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3-Dichloropropane	ND		0.00571	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2,2-Dichloropropane	ND		0.00571	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1-Dichloropropene	ND		0.00571	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
cis-1,3-Dichloropropene	ND		0.00571	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
trans-1,3-Dichloropropene	ND		0.00571	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethylbenzene	ND		0.00571	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Hexachlorobutadiene	ND		0.0114	0.00574	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2-Hexanone (MBK)	ND		0.0114	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Isopropylbenzene	ND		0.00571	0.00432	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
4-Isopropyltoluene	ND		0.00571	0.00561	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Methyl tert-butyl ether	ND		0.00571	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.0114	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Methylene Chloride	ND		0.0114	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Naphthalene	ND		0.00571	0.00516	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00571	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Styrene	ND		0.00571	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,1,2-Tetrachloroethane	ND		0.00571	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,2,2-Tetrachloroethane	ND		0.00571	0.00523	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Tetrachloroethene	ND		0.00571	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Toluene	ND		0.00571	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,3-Trichlorobenzene	ND		0.00571	0.00482	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,4-Trichlorobenzene	ND		0.00571	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3,5-Trichlorobenzene	ND		0.00571	0.00542	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,1-Trichloroethane	ND		0.00571	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,2-Trichloroethane	ND		0.00571	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Trichloroethene	ND		0.00571	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Trichlorofluoromethane (Freon 11)	ND		0.00571	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,3-Trichloropropane	ND		0.00571	0.00507	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,4-Trimethylbenzene	ND		0.00571	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3,5-Trimethylbenzene	ND		0.00571	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Vinyl chloride	ND		0.00571	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
m,p-Xylene	ND		0.00571	0.00780	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
o-Xylene	ND		0.00571	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Tetrahydrofuran	ND		0.0114	0.00289	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethyl ether	ND		0.00571	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Tert-amyl methyl ether	ND		0.00571	0.00451	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethyl tert-butyl ether	ND		0.00571	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
di-Isopropyl ether	ND		0.00571	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
tert-Butanol	ND		0.114	0.0306	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,4-Dioxane	ND		0.114	0.0355	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
trans-1,4-Dichloro-2-butene	ND		0.0286	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethanol	ND		1.14	0.0708	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3-Dichloropropene, Total	ND		0.00571	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Xylenes, Total	ND		0.0171	0.00571	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.340	0.0605	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,2,4-Trichlorobenzene	ND		0.340	0.0780	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,2-Dichlorobenzene	ND		0.340	0.0656	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,3-Dichlorobenzene	ND		0.340	0.0824	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,4-Dichlorobenzene	ND		0.340	0.0801	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1-Methylnaphthalene	ND		0.0688	0.0578	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4,5-Trichlorophenol	ND		0.340	0.0390	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4,6-Trichlorophenol	ND		0.172	0.0421	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4-Dichlorophenol	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4-Dimethylphenol	ND		0.340	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4-Dinitrophenol	ND		0.340	0.0895	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-04
Date Collected: 03/01/23 08:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-34
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,6-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Chloronaphthalene	ND		0.340	0.0787	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Chlorophenol	ND		0.172	0.0705	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Methylnaphthalene	ND		0.0688	0.0509	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Methylphenol	ND		0.340	0.0497	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Nitroaniline	ND		0.340	0.0324	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Nitrophenol	ND		0.172	0.0612	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
3 & 4 Methylphenol	ND		0.340	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
3,3'-Dichlorobenzidine	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
3-Nitroaniline	ND		0.340	0.0304	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4,6-Dinitro-2-methylphenol	ND		0.340	0.0612	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Bromophenyl phenyl ether	ND		0.340	0.0385	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Chloro-3-methylphenol	ND		0.340	0.0666	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Chloroaniline	ND		0.172	0.0261	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Chlorophenyl phenyl ether	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Nitroaniline	ND		0.172	0.0544	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Nitrophenol	ND		0.340	0.119	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Acenaphthene	ND		0.0688	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Acenaphthylene	ND		0.0688	0.0452	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Acetophenone	ND		0.172	0.0420	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Aniline	ND		0.340	0.0261	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Anthracene	ND		0.0688	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Azobenzene/Diphenyldiazene	ND		0.340	0.0581	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzidine	ND	*1	0.681	0.101	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[a]anthracene	ND		0.0688	0.0387	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[a]pyrene	ND		0.0688	0.0492	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[b]fluoranthene	ND		0.0688	0.0570	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[g,h,i]perylene	ND		0.0688	0.0537	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[k]fluoranthene	ND		0.0688	0.0535	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzoic acid	ND		0.340	0.234	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzyl alcohol	ND		0.340	0.0617	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Bis(2-chloroethoxy)methane	ND		0.340	0.0592	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Bis(2-chloroethyl)ether	ND		0.172	0.0563	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
bis (2-chloroisopropyl) ether	ND		0.172	0.0766	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Bis(2-ethylhexyl) phthalate	ND		0.172	0.0438	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Butyl benzyl phthalate	ND		0.340	0.0341	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Carbazole	ND		0.172	0.0451	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Chrysene	ND		0.0688	0.0389	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Dibenz(a,h)anthracene	ND		0.0688	0.0525	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Dibenzofuran	ND		0.172	0.0596	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Diethyl phthalate	ND		0.340	0.0373	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Dimethyl phthalate	ND		0.340	0.0444	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Di-n-butyl phthalate	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Di-n-octyl phthalate	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Fluoranthene	ND		0.0688	0.0403	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Fluorene	ND		0.0688	0.0628	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Hexachlorobenzene	ND		0.172	0.0478	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Hexachlorobutadiene	ND		0.172	0.0859	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.172	0.0658	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Hexachloroethane	ND		0.172	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0688	0.0584	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Isophorone	ND		0.172	0.0471	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Naphthalene	ND		0.0688	0.0660	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Nitrobenzene	ND		0.172	0.0795	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
N-Nitrosodimethylamine	ND		0.172	0.0452	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
N-Nitrosodi-n-propylamine	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
N-Nitrosodiphenylamine	ND		0.340	0.0434	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pentachloronitrobenzene	ND		0.340	0.0537	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pentachlorophenol	ND		0.340	0.139	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Phenanthrene	ND		0.0688	0.0390	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Phenol	ND		0.340	0.0701	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pyrene	ND		0.0688	0.0380	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pyridine	ND		0.340	0.0806	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:15*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.278	0.143	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.278	0.119	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Ethylbenzene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Methyl tert-butyl ether	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Naphthalene	ND		0.0557	0.0379	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
o-Xylene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Toluene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
C5-C8 Aliphatics (unadjusted)	ND		0.278	0.143	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
C9-C10 Aromatics	ND		0.278	0.0390	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
C9-C12 Aliphatics (unadjusted)	ND		0.278	0.119	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:56*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:56*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0210	0.0151	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1221	ND		0.0210	0.00619	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1232	ND		0.0210	0.00580	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0210	0.00331	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1248	ND		0.0210	0.00655	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1254	**0.0217**		0.0210	0.0163	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1262	ND		0.0210	0.00488	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1260	ND		0.0210	0.00451	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1268	ND		0.0210	0.00446	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoroheptanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorononanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorodecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorotridecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorotetradecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorobutanesulfonic acid	ND		2.03	0.406	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorohexanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NEtFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NMeFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
10:2 FTS	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoropentanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoroheptanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorononanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorodecanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctanesulfonamide	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorohexadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorobutanoic acid	ND		2.03	0.813	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoropentanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NMeFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NMeFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NEtFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NEtFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
HFPODA	ND		2.03	1.02	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
DONA	ND		3.05	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
9Cl-PF3ONS	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
11Cl-PF3OUdS	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorododecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoroundecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.05	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*28*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
M2-8:2 FTS	*35*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
M2-6:2 FTS	*30*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C5 PFHxA	*44*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C4 PFHpA	*43*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C8 PFOA	*43*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C9 PFNA	*42*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C6 PFDA	*42*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C7 PFUnA	*46*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C2-PFDoDA	*41*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C2 PFTeDA	*47*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C3 PFBS	*71*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C3 PFHxS	*76*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C8 PFOS	*74*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d3-NMeFOSAA	*1*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d5-NEtFOSAA	*2*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C4 PFBA	*38*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C5 PFPeA	*37*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d3-NMePFOSA	*99*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d9-N-EtFOSE-M	*116*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C3 HFPO-DA	*53*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoroheptanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorononanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorodecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorotridecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorotetradecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorobutanesulfonic acid	ND		2.05	0.410	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorohexanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NEtFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NMeFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
10:2 FTS	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoropentanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoroheptanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorononanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorodecanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctanesulfonamide	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorobutanoic acid	ND		2.05	0.821	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoropentanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NMeFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NMeFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NEtFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NEtFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
HFPODA	ND		2.05	1.03	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
DONA	ND		3.08	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
9Cl-PF3ONS	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
11Cl-PF3OUdS	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorododecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
4:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoroundecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
6:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*32*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
M2-8:2 FTS	*46*		*15 - 200*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
M2-6:2 FTS	*38*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C5 PFHxA	*53*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C4 PFHpA	*55*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C8 PFOA	*53*		*26 - 159*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C9 PFNA	*47*		*26 - 165*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C6 PFDA	*52*		*26 - 161*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C7 PFUnA	*52*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C2-PFDoDA	*53*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C2 PFTeDA	*57*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C3 PFBS	*88*		*27 - 179*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C8 PFOS	*89*		*41 - 154*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C4 PFBA	*46*		*28 - 153*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C5 PFPeA	*44*		*24 - 161*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d3-NMePFOSA	*56*		*10 - 175*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d5-NEtPFOSA	*60*		*10 - 180*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C3 HFPO-DA	*57*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.98	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Arsenic	**4.86**		2.99	1.40	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Barium	**10.9**		0.498	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Beryllium	**0.187**	**J**	0.498	0.0997	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-04

Date Collected: 03/01/23 08:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-34

Matrix: Solid
Percent Solids: 94.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.498	0.0997	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Chromium	**4.44**		1.49	0.349	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Lead	**2.32**		1.49	0.598	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Nickel	**1.87**		0.997	0.259	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Selenium	ND		4.98	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Silver	ND	^3+	0.997	0.399	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Thallium	ND		2.99	1.30	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Vanadium	**6.79**		0.997	0.429	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Zinc	**8.56**		1.99	0.797	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0634	0.0211	mg/Kg	☼	03/07/23 20:58	03/08/23 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.3**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**94.7**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0406'
Date Collected: 03/01/23 13:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-35
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00503	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Acetone	ND		0.0503	0.0113	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Acrylonitrile	ND		0.00503	0.00302	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Benzene	ND		0.00503	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromobenzene	ND		0.00503	0.00335	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromochloromethane	ND		0.00503	0.00286	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromodichloromethane	ND		0.00503	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromoform	ND		0.00503	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromomethane	ND		0.0101	0.00626	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2-Butanone (MEK)	ND		0.0101	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
n-Butylbenzene	ND		0.0101	0.00539	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
sec-Butylbenzene	ND		0.00503	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
tert-Butylbenzene	ND		0.00503	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Carbon disulfide	ND		0.0101	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Carbon tetrachloride	ND		0.00503	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chlorobenzene	ND		0.00503	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chloroethane	ND		0.0101	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chloroform	ND		0.00503	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chloromethane	ND		0.0101	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2-Chlorotoluene	ND		0.00503	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
4-Chlorotoluene	ND		0.00503	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Dibromochloromethane	ND		0.00503	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dibromoethane (EDB)	ND		0.00503	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Dibromomethane	ND		0.00503	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dichlorobenzene	ND		0.00503	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3-Dichlorobenzene	ND		0.00503	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,4-Dichlorobenzene	ND		0.00503	0.00477	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Dichlorodifluoromethane (Freon 12)	ND		0.0101	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1-Dichloroethane	ND		0.00503	0.00341	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dichloroethane	ND		0.00503	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1-Dichloroethene	ND		0.00503	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
cis-1,2-Dichloroethene	ND		0.00503	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
trans-1,2-Dichloroethene	ND		0.00503	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dichloropropane	ND		0.00503	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3-Dichloropropane	ND		0.00503	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2,2-Dichloropropane	ND		0.00503	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1-Dichloropropene	ND		0.00503	0.00342	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
cis-1,3-Dichloropropene	ND		0.00503	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
trans-1,3-Dichloropropene	ND		0.00503	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethylbenzene	ND		0.00503	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Hexachlorobutadiene	ND		0.0101	0.00506	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2-Hexanone (MBK)	ND		0.0101	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Isopropylbenzene	ND		0.00503	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
4-Isopropyltoluene	ND		0.00503	0.00494	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Methyl tert-butyl ether	ND		0.00503	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Methylene Chloride	ND		0.0101	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Naphthalene	ND		0.00503	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00503	0.00425	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Styrene	ND		0.00503	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,1,2-Tetrachloroethane	ND		0.00503	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,2,2-Tetrachloroethane	ND		0.00503	0.00461	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Tetrachloroethene	ND		0.00503	0.00280	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Toluene	ND		0.00503	0.00319	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,3-Trichlorobenzene	ND		0.00503	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,4-Trichlorobenzene	ND		0.00503	0.00464	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3,5-Trichlorobenzene	ND		0.00503	0.00478	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,1-Trichloroethane	ND		0.00503	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,2-Trichloroethane	ND		0.00503	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Trichloroethene	ND		0.00503	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Trichlorofluoromethane (Freon 11)	ND		0.00503	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,3-Trichloropropane	ND		0.00503	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,4-Trimethylbenzene	ND		0.00503	0.00425	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3,5-Trimethylbenzene	ND		0.00503	0.00427	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Vinyl chloride	ND		0.00503	0.00307	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
m,p-Xylene	ND		0.00503	0.00687	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
o-Xylene	ND		0.00503	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Tetrahydrofuran	ND		0.0101	0.00254	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethyl ether	ND		0.00503	0.00264	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Tert-amyl methyl ether	ND		0.00503	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethyl tert-butyl ether	ND		0.00503	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
di-Isopropyl ether	ND		0.00503	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
tert-Butanol	ND		0.101	0.0269	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,4-Dioxane	ND		0.101	0.0313	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
trans-1,4-Dichloro-2-butene	ND		0.0251	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethanol	ND		1.01	0.0623	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3-Dichloropropene, Total	ND		0.00503	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Xylenes, Total	ND		0.0151	0.00503	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.350	0.0623	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,2,4-Trichlorobenzene	ND		0.350	0.0803	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,2-Dichlorobenzene	ND		0.350	0.0675	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,3-Dichlorobenzene	ND		0.350	0.0848	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,4-Dichlorobenzene	ND		0.350	0.0825	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1-Methylnaphthalene	ND		0.0708	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4,5-Trichlorophenol	ND		0.350	0.0401	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4,6-Trichlorophenol	ND		0.177	0.0433	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4-Dichlorophenol	ND		0.177	0.0706	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4-Dimethylphenol	ND		0.350	0.0514	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4-Dinitrophenol	ND		0.350	0.0921	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0406'
Date Collected: 03/01/23 13:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-35
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,6-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Chloronaphthalene	ND		0.350	0.0810	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Chlorophenol	ND		0.177	0.0725	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Methylnaphthalene	ND		0.0708	0.0523	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Methylphenol	ND		0.350	0.0512	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Nitroaniline	ND		0.350	0.0333	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Nitrophenol	ND		0.177	0.0629	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
3 & 4 Methylphenol	ND		0.350	0.0663	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
3,3'-Dichlorobenzidine	ND		0.350	0.0579	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
3-Nitroaniline	ND		0.350	0.0313	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4,6-Dinitro-2-methylphenol	ND		0.350	0.0629	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Bromophenyl phenyl ether	ND		0.350	0.0396	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Chloro-3-methylphenol	ND		0.350	0.0686	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Chloroaniline	ND		0.177	0.0269	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Chlorophenyl phenyl ether	ND		0.350	0.0375	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Nitroaniline	ND		0.177	0.0559	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Nitrophenol	ND		0.350	0.122	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Acenaphthene	ND		0.0708	0.0565	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Acenaphthylene	ND		0.0708	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Acetophenone	ND		0.177	0.0432	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Aniline	ND		0.350	0.0269	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Anthracene	ND		0.0708	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Azobenzene/Diphenyldiazene	ND		0.350	0.0598	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzidine	ND	*1	0.701	0.104	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[a]anthracene	ND		0.0708	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[a]pyrene	ND		0.0708	0.0506	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[b]fluoranthene	ND		0.0708	0.0587	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[g,h,i]perylene	ND		0.0708	0.0553	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[k]fluoranthene	ND		0.0708	0.0551	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzoic acid	ND		0.350	0.241	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzyl alcohol	ND		0.350	0.0635	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Bis(2-chloroethoxy)methane	ND		0.350	0.0609	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Bis(2-chloroethyl)ether	ND		0.177	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
bis (2-chloroisopropyl) ether	ND		0.177	0.0789	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Bis(2-ethylhexyl) phthalate	ND		0.177	0.0451	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Butyl benzyl phthalate	ND		0.350	0.0351	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Carbazole	ND		0.177	0.0464	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Chrysene	ND		0.0708	0.0400	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Dibenz(a,h)anthracene	ND		0.0708	0.0540	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Dibenzofuran	ND		0.177	0.0614	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Diethyl phthalate	ND		0.350	0.0384	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Dimethyl phthalate	ND		0.350	0.0456	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Di-n-butyl phthalate	ND		0.350	0.0375	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Di-n-octyl phthalate	ND		0.350	0.0579	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Fluoranthene	ND		0.0708	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Fluorene	ND		0.0708	0.0646	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Hexachlorobenzene	ND		0.177	0.0491	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Hexachlorobutadiene	ND		0.177	0.0884	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.177	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Hexachloroethane	ND		0.177	0.0696	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0708	0.0601	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Isophorone	ND		0.177	0.0485	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Naphthalene	ND		0.0708	0.0679	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Nitrobenzene	ND		0.177	0.0818	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
N-Nitrosodimethylamine	ND		0.177	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
N-Nitrosodi-n-propylamine	ND		0.177	0.0706	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
N-Nitrosodiphenylamine	ND		0.350	0.0447	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pentachloronitrobenzene	ND		0.350	0.0553	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pentachlorophenol	ND		0.350	0.143	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Phenanthrene	ND		0.0708	0.0401	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Phenol	ND		0.350	0.0722	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pyrene	ND		0.0708	0.0391	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pyridine	ND		0.350	0.0829	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
Terphenyl-d14	*84*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:44*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.262	0.134	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.262	0.112	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Ethylbenzene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Methyl tert-butyl ether	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Naphthalene	ND		0.0524	0.0356	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
o-Xylene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Toluene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
C5-C8 Aliphatics (unadjusted)	ND		0.262	0.134	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
C9-C10 Aromatics	ND		0.262	0.0367	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
C9-C12 Aliphatics (unadjusted)	ND		0.262	0.112	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 14:35*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 14:35*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0212	0.0153	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1221	ND		0.0212	0.00626	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1232	ND		0.0212	0.00587	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0212	0.00335	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1248	ND		0.0212	0.00662	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1254	**0.0182**	**J**	0.0212	0.0165	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1262	ND		0.0212	0.00494	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1260	ND		0.0212	0.00456	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1268	ND		0.0212	0.00451	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoroheptanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorononanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorodecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorotridecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorotetradecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorobutanesulfonic acid	ND		1.97	0.394	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorohexanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NEtFOSAA	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NMeFOSAA	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
10:2 FTS	ND		1.97	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoropentanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoroheptanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorononanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorodecanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctanesulfonamide	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorohexadecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctadecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorobutanoic acid	ND		1.97	0.787	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoropentanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NMeFOSE	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NMeFOSA	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NEtFOSE	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NEtFOSA	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
HFPODA	ND		1.97	0.984	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
DONA	ND		2.95	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
9Cl-PF3ONS	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
11Cl-PF3OUdS	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorododecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
4:2 Fluorotelomer sulfonic acid	ND		1.97	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoroundecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.97	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
8:2 Fluorotelomer sulfonic acid	ND		2.95	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*30*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
M2-6:2 FTS	*34*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C5 PFHxA	*35*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C4 PFHpA	*36*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C8 PFOA	*36*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C9 PFNA	*39*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C6 PFDA	*36*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C7 PFUnA	*35*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C2-PFDoDA	*34*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C2 PFTeDA	*40*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C3 PFBS	*51*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C3 PFHxS	*55*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C8 PFOS	*56*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C8 FOSA	*101*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C4 PFBA	*33*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C5 PFPeA	*32*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C3 HFPO-DA	*37*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:52*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoroheptanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorononanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorodecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorotridecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorotetradecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorobutanesulfonic acid	ND		1.95	0.390	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorohexanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NEtFOSAA	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NMeFOSAA	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
10:2 FTS	ND		1.95	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoropentanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoroheptanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorononanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorodecanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctanesulfonamide	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorobutanoic acid	ND		1.95	0.780	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoropentanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NMeFOSE	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NMeFOSA	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NEtFOSE	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NEtFOSA	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
HFPODA	ND		1.95	0.975	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
DONA	ND		2.93	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
9Cl-PF3ONS	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
11Cl-PF3OUdS	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorododecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
4:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoroundecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
6:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
8:2 Fluorotelomer sulfonic acid	ND		2.93	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*34*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
M2-6:2 FTS	*37*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C5 PFHxA	*37*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C4 PFHpA	*42*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C8 PFOA	*39*		*26 - 159*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C9 PFNA	*35*		*26 - 165*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C6 PFDA	*38*		*26 - 161*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C7 PFUnA	*39*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C2-PFDoDA	*38*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C2 PFTeDA	*37*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C3 PFBS	*60*		*27 - 179*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C3 PFHxS	*71*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C8 PFOS	*60*		*41 - 154*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d5-NEtFOSAA	*4*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C8 FOSA	*124*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C4 PFBA	*34*		*28 - 153*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C5 PFPeA	*32*		*24 - 161*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d7-N-MeFOSE-M	*108*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d9-N-EtFOSE-M	*111*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d5-NEtPFOSA	*91*		*10 - 180*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C3 HFPO-DA	*48*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.97	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Arsenic	**2.32**	**J**	2.98	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Barium	**16.8**		0.497	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Beryllium	**0.308**	**J**	0.497	0.0993	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0406'
Lab Sample ID: 620-10051-35
Date Collected: 03/01/23 13:00
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 93.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.497	0.0993	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Chromium	**7.20**		1.49	0.348	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Lead	**3.12**		1.49	0.596	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Nickel	**2.49**		0.993	0.258	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Selenium	ND		4.97	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Silver	ND	^3+	0.993	0.397	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Thallium	ND		2.98	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Vanadium	**8.57**		0.993	0.427	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Zinc	**10.1**		1.99	0.794	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0633	0.0211	mg/Kg	☼	03/07/23 20:58	03/08/23 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.8**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**93.2**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0608'
Date Collected: 03/01/23 13:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-36
Matrix: Solid
Percent Solids: 96.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00483	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Acetone	ND		0.0483	0.0108	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Acrylonitrile	ND		0.00483	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Benzene	ND		0.00483	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromobenzene	ND		0.00483	0.00322	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromochloromethane	ND		0.00483	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromodichloromethane	ND		0.00483	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromoform	ND		0.00483	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromomethane	ND		0.00966	0.00602	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2-Butanone (MEK)	ND		0.00966	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
n-Butylbenzene	ND		0.00966	0.00518	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
sec-Butylbenzene	ND		0.00483	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
tert-Butylbenzene	ND		0.00483	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Carbon disulfide	ND		0.00966	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Carbon tetrachloride	ND		0.00483	0.00304	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chlorobenzene	ND		0.00483	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chloroethane	ND		0.00966	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chloroform	ND		0.00483	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chloromethane	ND		0.00966	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2-Chlorotoluene	ND		0.00483	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
4-Chlorotoluene	ND		0.00483	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dibromo-3-Chloropropane	ND		0.00966	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Dibromochloromethane	ND		0.00483	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dibromoethane (EDB)	ND		0.00483	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Dibromomethane	ND		0.00483	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dichlorobenzene	ND		0.00483	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3-Dichlorobenzene	ND		0.00483	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,4-Dichlorobenzene	ND		0.00483	0.00458	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Dichlorodifluoromethane (Freon 12)	ND		0.00966	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1-Dichloroethane	ND		0.00483	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dichloroethane	ND		0.00483	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1-Dichloroethene	ND		0.00483	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
cis-1,2-Dichloroethene	ND		0.00483	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
trans-1,2-Dichloroethene	ND		0.00483	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dichloropropane	ND		0.00483	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3-Dichloropropane	ND		0.00483	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2,2-Dichloropropane	ND		0.00483	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1-Dichloropropene	ND		0.00483	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
cis-1,3-Dichloropropene	ND		0.00483	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
trans-1,3-Dichloropropene	ND		0.00483	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethylbenzene	ND		0.00483	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Hexachlorobutadiene	ND		0.00966	0.00486	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2-Hexanone (MBK)	ND		0.00966	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Isopropylbenzene	ND		0.00483	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
4-Isopropyltoluene	ND		0.00483	0.00474	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Methyl tert-butyl ether	ND		0.00483	0.00278	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.00966	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Methylene Chloride	ND		0.00966	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Naphthalene	ND		0.00483	0.00437	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Styrene	ND		0.00483	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,1,2-Tetrachloroethane	ND		0.00483	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,2,2-Tetrachloroethane	ND		0.00483	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Tetrachloroethene	ND		0.00483	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Toluene	ND		0.00483	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,3-Trichlorobenzene	ND		0.00483	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,4-Trichlorobenzene	ND		0.00483	0.00445	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3,5-Trichlorobenzene	ND		0.00483	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,1-Trichloroethane	ND		0.00483	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,2-Trichloroethane	ND		0.00483	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Trichloroethene	ND		0.00483	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Trichlorofluoromethane (Freon 11)	ND		0.00483	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,3-Trichloropropane	ND		0.00483	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,4-Trimethylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3,5-Trimethylbenzene	ND		0.00483	0.00411	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Vinyl chloride	ND		0.00483	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
m,p-Xylene	ND		0.00483	0.00660	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
o-Xylene	ND		0.00483	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Tetrahydrofuran	ND		0.00966	0.00244	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethyl ether	ND		0.00483	0.00254	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Tert-amyl methyl ether	ND		0.00483	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethyl tert-butyl ether	ND		0.00483	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
di-Isopropyl ether	ND		0.00483	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
tert-Butanol	ND		0.0966	0.0259	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,4-Dioxane	ND		0.0966	0.0300	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
trans-1,4-Dichloro-2-butene	ND		0.0241	0.00356	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethanol	ND		0.966	0.0599	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3-Dichloropropene, Total	ND		0.00483	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Xylenes, Total	ND		0.0145	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.667	0.119	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,2,4-Trichlorobenzene	ND		0.667	0.153	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,2-Dichlorobenzene	ND		0.667	0.129	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,3-Dichlorobenzene	ND		0.667	0.161	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,4-Dichlorobenzene	ND		0.667	0.157	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1-Methylnaphthalene	ND		0.135	0.113	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4,5-Trichlorophenol	ND		0.667	0.0764	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4,6-Trichlorophenol	ND		0.338	0.0825	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4-Dichlorophenol	ND		0.338	0.134	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4-Dimethylphenol	ND		0.667	0.0978	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4-Dinitrophenol	ND		0.667	0.175	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0608'
Date Collected: 03/01/23 13:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-36
Matrix: Solid
Percent Solids: 96.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.338	0.0790	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,6-Dinitrotoluene	ND		0.338	0.0790	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Chloronaphthalene	ND		0.667	0.154	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Chlorophenol	ND		0.338	0.138	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Methylnaphthalene	ND		0.135	0.0996	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Methylphenol	ND		0.667	0.0974	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Nitroaniline	ND		0.667	0.0635	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Nitrophenol	ND		0.338	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
3 & 4 Methylphenol	ND		0.667	0.126	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
3,3'-Dichlorobenzidine	ND		0.667	0.110	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
3-Nitroaniline	ND		0.667	0.0596	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4,6-Dinitro-2-methylphenol	ND		0.667	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Bromophenyl phenyl ether	ND		0.667	0.0754	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Chloro-3-methylphenol	ND		0.667	0.131	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Chloroaniline	ND		0.338	0.0511	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Chlorophenyl phenyl ether	ND		0.667	0.0713	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Nitroaniline	ND		0.338	0.107	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Nitrophenol	ND		0.667	0.232	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Acenaphthene	ND		0.135	0.108	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Acenaphthylene	ND		0.135	0.0885	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Acetophenone	ND		0.338	0.0823	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Aniline	ND		0.667	0.0511	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Anthracene	ND		0.135	0.0780	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Azobenzene/Diphenyldiazene	ND		0.667	0.114	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzidine	ND	*1	1.33	0.197	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[a]anthracene	ND		0.135	0.0758	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[a]pyrene	ND		0.135	0.0964	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[b]fluoranthene	ND		0.135	0.112	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[g,h,i]perylene	ND		0.135	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[k]fluoranthene	ND		0.135	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzoic acid	ND		0.667	0.459	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzyl alcohol	ND		0.667	0.121	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Bis(2-chloroethoxy)methane	ND		0.667	0.116	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Bis(2-chloroethyl)ether	ND		0.338	0.110	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
bis (2-chloroisopropyl) ether	ND		0.338	0.150	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Bis(2-ethylhexyl) phthalate	**0.315**	**J**	0.338	0.0859	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Butyl benzyl phthalate	ND		0.667	0.0669	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Carbazole	ND		0.338	0.0883	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Chrysene	ND		0.135	0.0762	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Dibenz(a,h)anthracene	ND		0.135	0.103	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Dibenzofuran	ND		0.338	0.117	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Diethyl phthalate	ND		0.667	0.0732	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Dimethyl phthalate	ND		0.667	0.0869	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Di-n-butyl phthalate	ND		0.667	0.0713	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Di-n-octyl phthalate	ND		0.667	0.110	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Fluoranthene	ND		0.135	0.0790	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Fluorene	ND		0.135	0.123	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Hexachlorobenzene	ND		0.338	0.0936	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Hexachlorobutadiene	ND		0.338	0.168	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.338	0.129	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Hexachloroethane	ND		0.338	0.133	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Indeno[1,2,3-cd]pyrene	ND		0.135	0.114	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Isophorone	ND		0.338	0.0924	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Naphthalene	ND		0.135	0.129	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Nitrobenzene	ND		0.338	0.156	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
N-Nitrosodimethylamine	ND		0.338	0.0885	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
N-Nitrosodi-n-propylamine	ND		0.338	0.134	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
N-Nitrosodiphenylamine	ND		0.667	0.0851	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pentachloronitrobenzene	ND		0.667	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pentachlorophenol	ND		0.667	0.273	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Phenanthrene	ND		0.135	0.0764	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Phenol	ND		0.667	0.137	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pyrene	ND		0.135	0.0744	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pyridine	ND		0.667	0.158	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
Phenol-d5 (Surr)	*71*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:51*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.273	0.140	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.273	0.117	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Ethylbenzene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Methyl tert-butyl ether	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
m,p-Xylene	ND		0.109	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Naphthalene	ND		0.0545	0.0371	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
o-Xylene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Toluene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
C5-C8 Aliphatics (unadjusted)	ND		0.273	0.140	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
C9-C10 Aromatics	ND		0.273	0.0382	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
C9-C12 Aliphatics (unadjusted)	ND		0.273	0.117	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 15:54*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 15:54*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0203	0.0146	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1221	ND		0.0203	0.00598	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1232	ND		0.0203	0.00561	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0203	0.00320	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1248	ND		0.0203	0.00633	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1254	**0.141**		0.0203	0.0158	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1262	ND		0.0203	0.00472	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1260	ND		0.0203	0.00435	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1268	ND		0.0203	0.00431	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*
Tetrachloro-m-xylene	*77*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoroheptanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorononanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorodecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorotridecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorotetradecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorobutanesulfonic acid	ND		1.90	0.380	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorohexanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NEtFOSAA	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NMeFOSAA	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
10:2 FTS	ND		1.90	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoropentanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoroheptanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorononanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorodecanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctanesulfonamide	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorohexadecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctadecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorobutanoic acid	ND		1.90	0.759	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoropentanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NMeFOSE	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NMeFOSA	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NEtFOSE	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NEtFOSA	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
HFPODA	ND		1.90	0.949	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
DONA	ND		2.85	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
9Cl-PF3ONS	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
11Cl-PF3OUdS	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorododecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
4:2 Fluorotelomer sulfonic acid	ND		1.90	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoroundecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.90	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
8:2 Fluorotelomer sulfonic acid	ND		2.85	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
M2-8:2 FTS	*93*		*15 - 200*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
M2-6:2 FTS	*86*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C5 PFHxA	*88*		*10 - 174*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C4 PFHpA	*89*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C8 PFOA	*86*		*26 - 159*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C9 PFNA	*79*		*26 - 165*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C6 PFDA	*86*		*26 - 161*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C7 PFUnA	*90*		*12 - 173*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C2 PFTeDA	*91*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C3 PFBS	*103*		*27 - 179*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C3 PFHxS	*108*		*24 - 171*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d3-NMeFOSAA	*11*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C8 FOSA	*106*		*14 - 163*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C4 PFBA	*81*		*28 - 153*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C5 PFPeA	*83*		*24 - 161*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d7-N-MeFOSE-M	*104*		*10 - 179*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d9-N-EtFOSE-M	*101*		*10 - 185*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d5-NEtPFOSA	*92*		*10 - 180*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.70	1.60	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Arsenic	**5.16**		2.82	1.32	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Barium	**22.5**		0.470	0.141	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Beryllium	**0.304**	**J**	0.470	0.0940	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Cadmium	ND		0.470	0.0940	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Chromium	**6.88**		1.41	0.329	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Lead	**4.23**		1.41	0.564	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Nickel	**4.08**		0.940	0.244	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Selenium	ND		4.70	1.41	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Silver	ND	^3+	0.940	0.376	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Thallium	ND		2.82	1.22	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Vanadium	**10.1**		0.940	0.404	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Zinc	**13.8**		1.88	0.752	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0601	0.0200	mg/Kg	☼	03/06/23 22:34	03/07/23 18:42	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0608'
Date Collected: 03/01/23 13:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-36
Matrix: Solid
Percent Solids: 96.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	96.7		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0810'
Date Collected: 03/01/23 13:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-37
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00505	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Acetone	ND		0.0505	0.0113	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Acrylonitrile	ND		0.00505	0.00303	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Benzene	ND		0.00505	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromobenzene	ND		0.00505	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromochloromethane	ND		0.00505	0.00287	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromodichloromethane	ND		0.00505	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromoform	ND		0.00505	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromomethane	ND		0.0101	0.00629	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2-Butanone (MEK)	ND		0.0101	0.00402	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
n-Butylbenzene	ND		0.0101	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
sec-Butylbenzene	ND		0.00505	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
tert-Butylbenzene	ND		0.00505	0.00398	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Carbon disulfide	ND		0.0101	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Carbon tetrachloride	ND		0.00505	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chlorobenzene	ND		0.00505	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chloroethane	ND		0.0101	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chloroform	ND		0.00505	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chloromethane	ND		0.0101	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2-Chlorotoluene	ND		0.00505	0.00402	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
4-Chlorotoluene	ND		0.00505	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Dibromochloromethane	ND		0.00505	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dibromoethane (EDB)	ND		0.00505	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Dibromomethane	ND		0.00505	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dichlorobenzene	ND		0.00505	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3-Dichlorobenzene	ND		0.00505	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,4-Dichlorobenzene	ND		0.00505	0.00478	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Dichlorodifluoromethane (Freon 12)	ND		0.0101	0.00271	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1-Dichloroethane	ND		0.00505	0.00342	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dichloroethane	ND		0.00505	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1-Dichloroethene	ND		0.00505	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
cis-1,2-Dichloroethene	ND		0.00505	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
trans-1,2-Dichloroethene	ND		0.00505	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dichloropropane	ND		0.00505	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3-Dichloropropane	ND		0.00505	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2,2-Dichloropropane	ND		0.00505	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1-Dichloropropene	ND		0.00505	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
cis-1,3-Dichloropropene	ND		0.00505	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
trans-1,3-Dichloropropene	ND		0.00505	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethylbenzene	ND		0.00505	0.00360	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Hexachlorobutadiene	ND		0.0101	0.00508	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Isopropylbenzene	ND		0.00505	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
4-Isopropyltoluene	ND		0.00505	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Methyl tert-butyl ether	ND		0.00505	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Naphthalene	ND		0.00505	0.00456	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1

Client Sample ID: 2023-SB-13-0810' **Lab Sample ID: 620-10051-37**
Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Styrene	ND		0.00505	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,1,2-Tetrachloroethane	ND		0.00505	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,2,2-Tetrachloroethane	ND		0.00505	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Tetrachloroethene	ND		0.00505	0.00281	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Toluene	ND		0.00505	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,3-Trichlorobenzene	ND		0.00505	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,4-Trichlorobenzene	ND		0.00505	0.00465	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3,5-Trichlorobenzene	ND		0.00505	0.00479	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,1-Trichloroethane	ND		0.00505	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,2-Trichloroethane	ND		0.00505	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Trichloroethene	ND		0.00505	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Trichlorofluoromethane (Freon 11)	ND		0.00505	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,3-Trichloropropane	ND		0.00505	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,4-Trimethylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3,5-Trimethylbenzene	ND		0.00505	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Vinyl chloride	ND		0.00505	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
m,p-Xylene	ND		0.00505	0.00689	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
o-Xylene	ND		0.00505	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Tetrahydrofuran	ND		0.0101	0.00255	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethyl ether	ND		0.00505	0.00265	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Tert-amyl methyl ether	ND		0.00505	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethyl tert-butyl ether	ND		0.00505	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
di-Isopropyl ether	ND		0.00505	0.00360	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,4-Dioxane	ND		0.101	0.0314	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
trans-1,4-Dichloro-2-butene	ND		0.0252	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethanol	ND		1.01	0.0626	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3-Dichloropropene, Total	ND		0.00505	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Xylenes, Total	ND		0.0151	0.00505	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.347	0.0618	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,2,4-Trichlorobenzene	ND		0.347	0.0795	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,2-Dichlorobenzene	ND		0.347	0.0669	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,3-Dichlorobenzene	ND		0.347	0.0841	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,4-Dichlorobenzene	ND		0.347	0.0817	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1-Methylnaphthalene	ND		0.0702	0.0589	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4,5-Trichlorophenol	ND		0.347	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4,6-Trichlorophenol	ND		0.176	0.0429	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4-Dichlorophenol	ND		0.176	0.0700	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4-Dimethylphenol	ND		0.347	0.0509	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4-Dinitrophenol	ND		0.347	0.0913	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0810'
Date Collected: 03/01/23 13:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-37
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.176	0.0411	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,6-Dinitrotoluene	ND		0.176	0.0411	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Chloronaphthalene	ND		0.347	0.0803	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Chlorophenol	ND		0.176	0.0719	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Methylnaphthalene	ND		0.0702	0.0519	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Methylphenol	ND		0.347	0.0507	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Nitroaniline	ND		0.347	0.0330	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Nitrophenol	ND		0.176	0.0624	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
3 & 4 Methylphenol	ND		0.347	0.0658	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
3,3'-Dichlorobenzidine	ND		0.347	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
3-Nitroaniline	ND		0.347	0.0310	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4,6-Dinitro-2-methylphenol	ND		0.347	0.0624	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Bromophenyl phenyl ether	ND		0.347	0.0392	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Chloro-3-methylphenol	ND		0.347	0.0680	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Chloroaniline	ND		0.176	0.0266	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Chlorophenyl phenyl ether	ND		0.347	0.0371	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Nitroaniline	ND		0.176	0.0554	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Nitrophenol	ND		0.347	0.121	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Acenaphthene	ND		0.0702	0.0560	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Acenaphthylene	ND		0.0702	0.0461	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Acetophenone	ND		0.176	0.0428	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Aniline	ND		0.347	0.0266	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Anthracene	ND		0.0702	0.0406	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Azobenzene/Diphenyldiazene	ND		0.347	0.0592	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzidine	ND	*1	0.694	0.103	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[a]anthracene	ND		0.0702	0.0395	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[a]pyrene	ND		0.0702	0.0502	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[b]fluoranthene	ND		0.0702	0.0582	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[g,h,i]perylene	ND		0.0702	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[k]fluoranthene	ND		0.0702	0.0546	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzoic acid	ND		0.347	0.239	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzyl alcohol	ND		0.347	0.0629	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Bis(2-chloroethoxy)methane	ND		0.347	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Bis(2-chloroethyl)ether	ND		0.176	0.0574	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
bis (2-chloroisopropyl) ether	ND		0.176	0.0782	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Bis(2-ethylhexyl) phthalate	ND		0.176	0.0447	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Butyl benzyl phthalate	ND		0.347	0.0348	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Carbazole	ND		0.176	0.0460	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Chrysene	ND		0.0702	0.0397	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Dibenz(a,h)anthracene	ND		0.0702	0.0536	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Dibenzofuran	ND		0.176	0.0608	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Diethyl phthalate	ND		0.347	0.0381	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Dimethyl phthalate	ND		0.347	0.0452	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Di-n-butyl phthalate	ND		0.347	0.0371	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Di-n-octyl phthalate	ND		0.347	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Fluoranthene	ND		0.0702	0.0411	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Fluorene	ND		0.0702	0.0641	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Hexachlorobenzene	ND		0.176	0.0487	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Hexachlorobutadiene	ND		0.176	0.0876	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1

Client Sample ID: 2023-SB-13-0810' **Lab Sample ID: 620-10051-37**
Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.176	0.0671	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Hexachloroethane	ND		0.176	0.0690	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Indeno[1,2,3-cd]pyrene	ND		0.0702	0.0595	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Isophorone	ND		0.176	0.0481	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Naphthalene	ND		0.0702	0.0673	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Nitrobenzene	ND		0.176	0.0811	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
N-Nitrosodimethylamine	ND		0.176	0.0461	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
N-Nitrosodi-n-propylamine	ND		0.176	0.0700	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
N-Nitrosodiphenylamine	ND		0.347	0.0443	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pentachloronitrobenzene	ND		0.347	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pentachlorophenol	ND		0.347	0.142	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Phenanthrene	ND		0.0702	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Phenol	ND		0.347	0.0715	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pyrene	ND		0.0702	0.0387	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pyridine	ND		0.347	0.0822	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
Terphenyl-d14	*82*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:13*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.240	0.123	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.240	0.103	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Ethylbenzene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Methyl tert-butyl ether	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
m,p-Xylene	ND		0.0961	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Naphthalene	ND		0.0481	0.0327	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
o-Xylene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Toluene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
C5-C8 Aliphatics (unadjusted)	ND		0.240	0.123	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
C9-C10 Aromatics	ND		0.240	0.0337	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
C9-C12 Aliphatics (unadjusted)	ND		0.240	0.103	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*91*		*70 - 130*	*03/03/23 07:25*	*03/04/23 16:33*	*1*
a,a,a-Trifluorotoluene (fid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 16:33*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0148	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1221	ND		0.0205	0.00606	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1232	ND		0.0205	0.00568	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1

Client Sample ID: 2023-SB-13-0810'
Lab Sample ID: 620-10051-37
Date Collected: 03/01/23 13:10
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 94.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00324	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1248	ND		0.0205	0.00641	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1254	ND		0.0205	0.0160	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1262	ND		0.0205	0.00478	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1260	ND		0.0205	0.00441	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1268	ND		0.0205	0.00437	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*
Tetrachloro-m-xylene	*55*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoroheptanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorononanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorodecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorotridecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorotetradecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorobutanesulfonic acid	ND		2.08	0.415	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorohexanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
10:2 FTS	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoropentanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoroheptanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorononanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorodecanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctanesulfonamide	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorohexadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorobutanoic acid	ND		2.08	0.831	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoropentanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NMeFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NMeFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NEtFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NEtFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
DONA	ND		3.11	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
11Cl-PF3OUdS	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorododecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoroundecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1

Client Sample ID: 2023-SB-13-0810' **Lab Sample ID: 620-10051-37**
Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
8:2 Fluorotelomer sulfonic acid	ND		3.11	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*61*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
M2-6:2 FTS	*70*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C5 PFHxA	*70*		*10 - 174*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C4 PFHpA	*72*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C8 PFOA	*70*		*26 - 159*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C9 PFNA	*77*		*26 - 165*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C6 PFDA	*69*		*26 - 161*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C7 PFUnA	*72*		*12 - 173*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C2-PFDoDA	*75*		*11 - 166*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C2 PFTeDA	*80*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C3 PFBS	*91*		*27 - 179*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C3 PFHxS	*90*		*24 - 171*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C8 PFOS	*94*		*41 - 154*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d7-N-MeFOSE-M	*107*		*10 - 179*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d3-NMePFOSA	*97*		*10 - 175*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d9-N-EtFOSE-M	*104*		*10 - 185*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d5-NEtPFOSA	*100*		*10 - 180*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C3 HFPO-DA	*70*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.95	1.68	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Arsenic	**2.75**	**J**	2.97	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Barium	**14.9**		0.495	0.148	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Beryllium	**0.238**	**J**	0.495	0.0990	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Cadmium	ND		0.495	0.0990	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Chromium	**5.80**		1.48	0.346	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Lead	**2.88**		1.48	0.594	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Nickel	**2.68**		0.990	0.257	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Selenium	ND		4.95	1.48	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Silver	ND	^3+	0.990	0.396	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Thallium	ND		2.97	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Vanadium	**8.38**		0.990	0.426	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Zinc	**11.8**		1.98	0.792	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0615	0.0205	mg/Kg	☼	03/07/23 20:58	03/08/23 12:46	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0810'
Date Collected: 03/01/23 13:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-37
Matrix: Solid
Percent Solids: 94.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.6		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	94.4		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-1012'
Date Collected: 03/01/23 13:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-38
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00521	0.00340	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Acetone	ND		0.0521	0.0117	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Acrylonitrile	ND		0.00521	0.00313	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Benzene	ND		0.00521	0.00348	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromobenzene	ND		0.00521	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromochloromethane	ND		0.00521	0.00296	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromodichloromethane	ND		0.00521	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromoform	ND		0.00521	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromomethane	ND		0.0104	0.00649	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2-Butanone (MEK)	ND		0.0104	0.00415	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
n-Butylbenzene	ND		0.0104	0.00559	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
sec-Butylbenzene	ND		0.00521	0.00420	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
tert-Butylbenzene	ND		0.00521	0.00411	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Carbon disulfide	ND		0.0104	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Carbon tetrachloride	ND		0.00521	0.00328	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chlorobenzene	ND		0.00521	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chloroform	ND		0.00521	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chloromethane	ND		0.0104	0.00400	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2-Chlorotoluene	ND		0.00521	0.00415	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
4-Chlorotoluene	ND		0.00521	0.00452	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00442	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Dibromochloromethane	ND		0.00521	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dibromoethane (EDB)	ND		0.00521	0.00374	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Dibromomethane	ND		0.00521	0.00306	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dichlorobenzene	ND		0.00521	0.00484	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3-Dichlorobenzene	ND		0.00521	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,4-Dichlorobenzene	ND		0.00521	0.00494	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Dichlorodifluoromethane (Freon 12)	ND		0.0104	0.00279	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1-Dichloroethane	ND		0.00521	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dichloroethane	ND		0.00521	0.00351	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1-Dichloroethene	ND		0.00521	0.00319	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
cis-1,2-Dichloroethene	ND		0.00521	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
trans-1,2-Dichloroethene	ND		0.00521	0.00324	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dichloropropane	ND		0.00521	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3-Dichloropropane	ND		0.00521	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2,2-Dichloropropane	ND		0.00521	0.00360	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1-Dichloropropene	ND		0.00521	0.00354	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
cis-1,3-Dichloropropene	ND		0.00521	0.00340	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
trans-1,3-Dichloropropene	ND		0.00521	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethylbenzene	ND		0.00521	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Hexachlorobutadiene	ND		0.0104	0.00524	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2-Hexanone (MBK)	ND		0.0104	0.00306	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Isopropylbenzene	ND		0.00521	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
4-Isopropyltoluene	ND		0.00521	0.00512	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Methyl tert-butyl ether	ND		0.00521	0.00300	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00337	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Methylene Chloride	ND		0.0104	0.00279	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Naphthalene	ND		0.00521	0.00471	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00521	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Styrene	ND		0.00521	0.00403	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,1,2-Tetrachloroethane	ND		0.00521	0.00391	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.00521	0.00477	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Tetrachloroethene	ND		0.00521	0.00290	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Toluene	ND		0.00521	0.00330	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,3-Trichlorobenzene	ND		0.00521	0.00440	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,4-Trichlorobenzene	ND		0.00521	0.00481	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3,5-Trichlorobenzene	ND		0.00521	0.00495	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,1-Trichloroethane	ND		0.00521	0.00355	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,2-Trichloroethane	ND		0.00521	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Trichloroethene	ND		0.00521	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Trichlorofluoromethane (Freon 11)	ND		0.00521	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,3-Trichloropropane	ND		0.00521	0.00463	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,4-Trimethylbenzene	ND		0.00521	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3,5-Trimethylbenzene	ND		0.00521	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Vinyl chloride	ND		0.00521	0.00318	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
m,p-Xylene	ND		0.00521	0.00712	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
o-Xylene	ND		0.00521	0.00381	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethyl ether	ND		0.00521	0.00274	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Tert-amyl methyl ether	ND		0.00521	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethyl tert-butyl ether	ND		0.00521	0.00343	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
di-Isopropyl ether	ND		0.00521	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
tert-Butanol	ND		0.104	0.0279	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,4-Dioxane	ND		0.104	0.0324	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00385	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethanol	ND		1.04	0.0646	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3-Dichloropropene, Total	ND		0.00521	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Xylenes, Total	ND		0.0156	0.00521	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.413	0.0736	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,2,4-Trichlorobenzene	ND		0.413	0.0947	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,2-Dichlorobenzene	ND		0.413	0.0797	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,3-Dichlorobenzene	ND		0.413	0.100	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,4-Dichlorobenzene	ND		0.413	0.0974	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1-Methylnaphthalene	ND		0.0836	0.0702	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4,5-Trichlorophenol	ND		0.413	0.0474	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4,6-Trichlorophenol	ND		0.209	0.0511	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4-Dichlorophenol	ND		0.209	0.0833	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4-Dimethylphenol	ND		0.413	0.0606	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4-Dinitrophenol	ND		0.413	0.109	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-1012'
Date Collected: 03/01/23 13:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-38
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,6-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Chloronaphthalene	ND		0.413	0.0956	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Chlorophenol	ND		0.209	0.0856	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Methylnaphthalene	ND		0.0836	0.0618	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Methylphenol	ND		0.413	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Nitroaniline	ND		0.413	0.0393	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Nitrophenol	ND		0.209	0.0743	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
3 & 4 Methylphenol	ND		0.413	0.0783	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
3,3'-Dichlorobenzidine	ND		0.413	0.0683	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
3-Nitroaniline	ND		0.413	0.0370	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4,6-Dinitro-2-methylphenol	ND		0.413	0.0743	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Bromophenyl phenyl ether	ND		0.413	0.0467	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Chloro-3-methylphenol	ND		0.413	0.0809	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Chloroaniline	ND		0.209	0.0317	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Chlorophenyl phenyl ether	ND		0.413	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Nitroaniline	ND		0.209	0.0660	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Nitrophenol	ND		0.413	0.144	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Acenaphthene	ND		0.0836	0.0667	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Acenaphthylene	ND		0.0836	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Acetophenone	ND		0.209	0.0510	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Aniline	ND		0.413	0.0317	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Anthracene	ND		0.0836	0.0484	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Azobenzene/Diphenyldiazene	ND		0.413	0.0705	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzidine	ND	*1	0.827	0.122	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[a]anthracene	ND		0.0836	0.0470	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[a]pyrene	ND		0.0836	0.0598	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[b]fluoranthene	ND		0.0836	0.0693	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[g,h,i]perylene	ND		0.0836	0.0653	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[k]fluoranthene	ND		0.0836	0.0650	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzoic acid	ND		0.413	0.284	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzyl alcohol	ND		0.413	0.0749	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Bis(2-chloroethoxy)methane	ND		0.413	0.0719	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Bis(2-chloroethyl)ether	ND		0.209	0.0684	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
bis (2-chloroisopropyl) ether	ND		0.209	0.0931	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Bis(2-ethylhexyl) phthalate	ND		0.209	0.0533	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Butyl benzyl phthalate	ND		0.413	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Carbazole	ND		0.209	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Chrysene	ND		0.0836	0.0472	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Dibenz(a,h)anthracene	ND		0.0836	0.0638	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Dibenzofuran	ND		0.209	0.0724	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Diethyl phthalate	ND		0.413	0.0454	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Dimethyl phthalate	ND		0.413	0.0539	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Di-n-butyl phthalate	ND		0.413	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Di-n-octyl phthalate	ND		0.413	0.0683	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Fluoranthene	ND		0.0836	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Fluorene	ND		0.0836	0.0763	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Hexachlorobenzene	ND		0.209	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Hexachlorobutadiene	ND		0.209	0.104	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.209	0.0799	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Hexachloroethane	ND		0.209	0.0822	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0836	0.0709	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Isophorone	ND		0.209	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Naphthalene	ND		0.0836	0.0802	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Nitrobenzene	ND		0.209	0.0966	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
N-Nitrosodimethylamine	ND		0.209	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
N-Nitrosodi-n-propylamine	ND		0.209	0.0833	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
N-Nitrosodiphenylamine	ND		0.413	0.0528	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pentachloronitrobenzene	ND		0.413	0.0653	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pentachlorophenol	ND		0.413	0.169	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Phenanthrene	ND		0.0836	0.0474	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Phenol	ND		0.413	0.0852	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pyrene	ND		0.0836	0.0461	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pyridine	ND		0.413	0.0979	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.254	0.130	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.254	0.109	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Ethylbenzene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Methyl tert-butyl ether	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Naphthalene	ND		0.0507	0.0345	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
o-Xylene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Toluene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
C5-C8 Aliphatics (unadjusted)	ND		0.254	0.130	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
C9-C10 Aromatics	ND		0.254	0.0355	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
C9-C12 Aliphatics (unadjusted)	ND		0.254	0.109	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*90*		*70 - 130*	*03/03/23 07:25*	*03/04/23 17:13*	*1*
a,a,a-Trifluorotoluene (fid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 17:13*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0244	0.0176	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1221	ND		0.0244	0.00720	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1232	ND		0.0244	0.00675	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0244	0.00385	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1248	ND		0.0244	0.00762	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1254	ND		0.0244	0.0190	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1262	ND		0.0244	0.00568	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1260	ND		0.0244	0.00524	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1268	ND		0.0244	0.00519	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*
Tetrachloro-m-xylene	*84*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoroheptanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorononanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorodecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorotridecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorotetradecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorobutanesulfonic acid	ND		2.37	0.475	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorohexanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NEtFOSAA	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NMeFOSAA	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
10:2 FTS	ND		2.37	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoropentanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoroheptanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorononanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorodecanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctanesulfonamide	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorohexadecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctadecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorobutanoic acid	ND		2.37	0.949	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoropentanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NMeFOSE	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NMeFOSA	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NEtFOSE	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NEtFOSA	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
HFPODA	ND		2.37	1.19	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
DONA	ND		3.56	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
9Cl-PF3ONS	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
11Cl-PF3OUdS	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorododecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
4:2 Fluorotelomer sulfonic acid	ND		2.37	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoroundecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.37	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
8:2 Fluorotelomer sulfonic acid	ND		3.56	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
M2-6:2 FTS	*85*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C5 PFHxA	*110*		*10 - 174*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C4 PFHpA	*109*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C8 PFOA	*110*		*26 - 159*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C9 PFNA	*106*		*26 - 165*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C7 PFUnA	*116*		*12 - 173*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C3 PFHxS	*114*		*24 - 171*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d3-NMeFOSAA	*36*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d5-NEtFOSAA	*41*		*10 - 193*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C4 PFBA	*107*		*28 - 153*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C5 PFPeA	*105*		*24 - 161*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d7-N-MeFOSE-M	*109*		*10 - 179*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d5-NEtPFOSA	*103*		*10 - 180*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C3 HFPO-DA	*113*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.28	1.45	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Arsenic	**10.1**		2.57	1.20	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Barium	**103**		0.428	0.128	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Beryllium	**1.44**		0.428	0.0856	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Cadmium	ND		0.428	0.0856	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Chromium	**29.1**		1.28	0.300	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Lead	**12.6**		1.28	0.513	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Nickel	**15.0**		0.856	0.223	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Selenium	ND		4.28	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Silver	ND	^3+	0.856	0.342	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Thallium	ND		25.7	11.1	mg/Kg	☼	03/08/23 00:33	03/10/23 05:51	10
Vanadium	**47.9**		0.856	0.368	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Zinc	**60.6**		1.71	0.685	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0742	0.0247	mg/Kg	☼	03/07/23 20:58	03/08/23 12:44	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-1012'
Date Collected: 03/01/23 13:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-38
Matrix: Solid
Percent Solids: 79.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.5		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	79.5		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-03

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Methylene Chloride	**0.00771**	**J**	0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 15:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-03

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10051-1	2023-MW-01-0406'	101	103	100	103
620-10051-1 MS	2023-MW-01-0406'	105	103	102	104
620-10051-1 MSD	2023-MW-01-0406'	105	102	99	103
620-10051-2	2023-MW-01-0608'	102	101	98	100
620-10051-3	2023-MW-01-0810'	102	102	99	101
620-10051-4	2023-MW-01-1012'	101	101	96	99
620-10051-5	2023-MW-02-0002'	100	101	96	99
620-10051-6	2023-MW-02-0204'	102	102	100	101
620-10051-7	2023-MW-02-0406'	100	102	97	100
620-10051-8	2023-MW-02-0608'	100	101	96	100
620-10051-9	2023-MW-02-0810'	100	103	100	101
620-10051-10	2023-MW-02-1012'	102	102	103	102
620-10051-11	2023-SB-16-0002'	100	100	103	99
620-10051-12	2023-SB-16-0204'	99	101	100	99
620-10051-13	2023-SB-16-0406'	100	101	100	99
620-10051-14	2023-SB-16-0608'	100	100	98	98
620-10051-15	2023-SB-16-0810'	102	102	112	104
620-10051-16	2023-SB-16-1012'	99	101	100	99
620-10051-17	2023-SB-15-0002'	96	100	96	100
620-10051-17 MS	2023-SB-15-0002'	98	102	97	102
620-10051-17 MSD	2023-SB-15-0002'	101	100	92	101
620-10051-18	2023-SB-15-0204'	101	101	101	98
620-10051-19	2023-SB-15-0406'	99	100	100	99
620-10051-20	2023-SB-15-0608'	99	102	99	99
620-10051-21	2023-SB-15-0810'	97	101	96	98
620-10051-22	2023-SB-15-1012'	97	100	100	98
620-10051-23	2023-FD-03	98	101	98	99
620-10051-24	Trip Blank-01	99	101	98	99
620-10051-25	2023-SB-14-0002'	99	100	95	99
620-10051-26	2023-SB-14-0204'	99	100	97	97
620-10051-27	2023-SB-14-0406'	98	101	99	99
620-10051-28	2023-SB-14-0608'	99	100	98	98
620-10051-29	2023-SB-14-0810'	98	101	99	100
620-10051-30	2023-SB-14-1012'	98	100	95	98
620-10051-31	Trip Blank-02	97	100	97	100
620-10051-32	2023-SB-13-0002'	95	100	96	103
620-10051-33	2023-SB-13-0204'	96	100	98	99
620-10051-34	2023-FD-04	97	102	98	100
620-10051-35	2023-SB-13-0406'	98	101	98	99
620-10051-36	2023-SB-13-0608'	96	101	97	100
620-10051-37	2023-SB-13-0810'	98	100	96	98
620-10051-38	2023-SB-13-1012'	98	101	98	102
620-10051-39	Trip Blank-03	99	100	98	99
LCS 620-20238/1-A	Lab Control Sample	103	102	100	100
LCS 620-20252/1-A	Lab Control Sample	102	101	94	99
LCS 620-20295/1-A	Lab Control Sample	100	101	93	99
LCS 620-20322/1-A	Lab Control Sample	104	103	99	104
LCS 620-20327/1-A	Lab Control Sample	102	102	94	100
LCSD 620-20238/2-A	Lab Control Sample Dup	102	101	100	99

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
LCSD 620-20252/2-A	Lab Control Sample Dup	101	102	97	99
LCSD 620-20295/2-A	Lab Control Sample Dup	100	101	93	100
LCSD 620-20322/2-A	Lab Control Sample Dup	105	103	101	105
LCSD 620-20327/2-A	Lab Control Sample Dup	101	101	94	99
MB 620-20238/3-A	Method Blank	103	100	99	99
MB 620-20252/3-A	Method Blank	100	101	101	100
MB 620-20295/3-A	Method Blank	99	100	94	101
MB 620-20322/3-A	Method Blank	100	102	100	104
MB 620-20327/3-A	Method Blank	100	101	94	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10051-1	2023-MW-01-0406'	86	97	53	74	110	70
620-10051-1 MS	2023-MW-01-0406'	98	106	67	86	126 S1+	81
620-10051-1 MSD	2023-MW-01-0406'	97	102	66	86	120 S1+	77
620-10051-2	2023-MW-01-0608'	82	103	67	87	94	86
620-10051-3	2023-MW-01-0810'	77	103	61	79	87	77
620-10051-4	2023-MW-01-1012'	76	87	49	66	97	63
620-10051-5	2023-MW-02-0002'	78	83	53	67	96	72
620-10051-6	2023-MW-02-0204'	59	78	46	60	71	56
620-10051-7	2023-MW-02-0406'	62	84	48	65	79	62
620-10051-8	2023-MW-02-0608'	68	91	54	72	81	70
620-10051-9	2023-MW-02-0810'	71	100	56	78	82	71
620-10051-10	2023-MW-02-1012'	73	102	55	78	90	62
620-10051-11	2023-SB-16-0002'	90	100	62	75	110	83
620-10051-12	2023-SB-16-0204'	73	88	57	67	84	75
620-10051-13	2023-SB-16-0406'	75	93	48	70	95	70
620-10051-14	2023-SB-16-0608'	67	85	50	66	86	77
620-10051-15	2023-SB-16-0810'	82	106	68	84	88	76
620-10051-16	2023-SB-16-1012'	85	111 S1+	70	84	99	93
620-10051-17	2023-SB-15-0002'	80	89	54	69	100	73
620-10051-17 MS	2023-SB-15-0002'	82	87	58	73	106	73
620-10051-17 MSD	2023-SB-15-0002'	92	101	64	82	112 S1+	81
620-10051-18	2023-SB-15-0204'	75	91	60	70	90	78
620-10051-19	2023-SB-15-0406'	72	93	56	69	86	85
620-10051-20	2023-SB-15-0608'	65	79	52	60	78	72
620-10051-21	2023-SB-15-0810'	85	106	58	87	107	98
620-10051-22	2023-SB-15-1012'	86	105	66	89	108	102
620-10051-23	2023-FD-03	78	97	62	74	93	87
620-10051-25	2023-SB-14-0002'	81	104	66	80	103	95
620-10051-26	2023-SB-14-0204'	72	89	58	69	86	81

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10051-27	2023-SB-14-0406'	80	109	64	80	95	93
620-10051-28	2023-SB-14-0608'	76	103	57	82	90	82
620-10051-29	2023-SB-14-0810'	78	109	61	83	92	87
620-10051-30	2023-SB-14-1012'	76	109	46	82	90	83
620-10051-32	2023-SB-13-0002'	74	84	76	67	89	72
620-10051-32	2023-SB-13-0002'	81	97	81	81	83	77
620-10051-33	2023-SB-13-0204'	71	92	59	73	81	76
620-10051-34	2023-FD-04	73	99	61	78	88	83
620-10051-35	2023-SB-13-0406'	74	97	59	77	89	84
620-10051-36	2023-SB-13-0608'	72	90	70	71	78	75
620-10051-37	2023-SB-13-0810'	73	99	60	77	88	82
620-10051-38	2023-SB-13-1012'	78	104	67	84	78	88
LCS 620-20241/2-A	Lab Control Sample	81	91	60	76	93	74
LCS 620-20399/2-A	Lab Control Sample	76	90	58	77	103	87
LCSD 620-20241/3-A	Lab Control Sample Dup	77	88	59	74	86	67
LCSD 620-20399/3-A	Lab Control Sample Dup	75	88	59	79	95	74
MB 620-20241/1-A	Method Blank	62	76	49	61	60	74
MB 620-20399/1-A	Method Blank	78	102	66	80	80	90

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT-P2	TFT-F1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10051-1	2023-MW-01-0406'	98	99
620-10051-1 MS	2023-MW-01-0406'	99	100
620-10051-1 MSD	2023-MW-01-0406'	99	100
620-10051-2	2023-MW-01-0608'	98	99
620-10051-3	2023-MW-01-0810'	95	97
620-10051-4	2023-MW-01-1012'	99	102
620-10051-5	2023-MW-02-0002'	98	101
620-10051-6	2023-MW-02-0204'	100	103
620-10051-7	2023-MW-02-0406'	101	103
620-10051-8	2023-MW-02-0608'	98	102
620-10051-9	2023-MW-02-0810'	99	102
620-10051-10	2023-MW-02-1012'	97	100
620-10051-11	2023-SB-16-0002'	96	101
620-10051-12	2023-SB-16-0204'	94	99
620-10051-13	2023-SB-16-0406'	93	98
620-10051-14	2023-SB-16-0608'	97	101
620-10051-15	2023-SB-16-0810'	96	100
620-10051-16	2023-SB-16-1012'	92	98

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TFT-P2 (70-130)	TFT-F1 (70-130)								
620-10051-17	2023-SB-15-0002'	95	100								
620-10051-17 MS	2023-SB-15-0002'	95	99								
620-10051-17 MSD	2023-SB-15-0002'	93	97								
620-10051-18	2023-SB-15-0204'	93	98								
620-10051-19	2023-SB-15-0406'	92	97								
620-10051-20	2023-SB-15-0608'	93	98								
620-10051-21	2023-SB-15-0810'	93	97								
620-10051-22	2023-SB-15-1012'	92	96								
620-10051-23	2023-FD-03	93	97								
620-10051-25	2023-SB-14-0002'	93	95								
620-10051-26	2023-SB-14-0204'	92	94								
620-10051-27	2023-SB-14-0406'	93	95								
620-10051-28	2023-SB-14-0608'	94	96								
620-10051-29	2023-SB-14-0810'	93	96								
620-10051-30	2023-SB-14-1012'	93	95								
620-10051-32	2023-SB-13-0002'	92	96								
620-10051-33	2023-SB-13-0204'	92	95								
620-10051-34	2023-FD-04	93	95								
620-10051-35	2023-SB-13-0406'	92	95								
620-10051-36	2023-SB-13-0608'	92	95								
620-10051-37	2023-SB-13-0810'	91	93								
620-10051-38	2023-SB-13-1012'	90	93								
LCS 480-660379/2-A	Lab Control Sample	100	100								
LCS 480-660381/2-A	Lab Control Sample	96	100								
LCSD 480-660379/3-A	Lab Control Sample Dup	97	98								
LCSD 480-660381/3-A	Lab Control Sample Dup	94	98								
MB 480-660379/1-A	Method Blank	103	105								
MB 480-660381/1-A	Method Blank	104	111								

Surrogate Legend

TFT-P = a,a,a-Trifluorotoluene (pid)

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)						
620-10051-1	2023-MW-01-0406'	65	67	101	98						
620-10051-1 MS	2023-MW-01-0406'	71	75	77	81						
620-10051-1 MSD	2023-MW-01-0406'	78	82	91	99						
620-10051-2	2023-MW-01-0608'	68	69	75	83						
620-10051-3	2023-MW-01-0810'	71	72	79	86						
620-10051-4	2023-MW-01-1012'	65	64	72	78						
620-10051-5	2023-MW-02-0002'	67	69	90	94						
620-10051-6	2023-MW-02-0204'	71	68	75	78						
620-10051-7	2023-MW-02-0406'	62	62	77	82						
620-10051-8	2023-MW-02-0608'	67	68	76	81						
620-10051-9	2023-MW-02-0810'	74	76	78	86						
620-10051-10	2023-MW-02-1012'	68	70	86	91						

Surrogate Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10051-11	2023-SB-16-0002'	69	71	74	78
620-10051-12	2023-SB-16-0204'	71	73	79	87
620-10051-13	2023-SB-16-0406'	63	66	65	69
620-10051-14	2023-SB-16-0608'	70	72	83	84
620-10051-15	2023-SB-16-0810'	58	59	75	77
620-10051-16	2023-SB-16-1012'	48	50	64	67
620-10051-17	2023-SB-15-0002'	60	60	68	70
620-10051-17 MS	2023-SB-15-0002'	57	58	65	70
620-10051-17 MSD	2023-SB-15-0002'	63	66	68	71
620-10051-18	2023-SB-15-0204'	74	77	65	67
620-10051-19	2023-SB-15-0406'	81	82	87	85
620-10051-20	2023-SB-15-0608'	41	41	43	44
620-10051-21	2023-SB-15-0810'	80	78	89	87
620-10051-22	2023-SB-15-1012'	31	34	32	31
620-10051-23	2023-FD-03	57	58	72	76
620-10051-25	2023-SB-14-0002'	48	47	53	53
620-10051-26	2023-SB-14-0204'	65	66	57	60
620-10051-27	2023-SB-14-0406'	61	63	58	61
620-10051-28	2023-SB-14-0608'	66	68	66	71
620-10051-29	2023-SB-14-0810'	67	68	65	68
620-10051-30	2023-SB-14-1012'	75	76	68	72
620-10051-32	2023-SB-13-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10051-33	2023-SB-13-0204'	80	81	62	66
620-10051-34	2023-FD-04	69	72	69	73
620-10051-35	2023-SB-13-0406'	67	69	69	74
620-10051-36	2023-SB-13-0608'	78	77	85	84
620-10051-37	2023-SB-13-0810'	53	55	61	62
620-10051-38	2023-SB-13-1012'	83	84	84	85
LCS 620-20226/2-A	Lab Control Sample	83	87	95	108
LCS 620-20230/2-A	Lab Control Sample	71	72	75	83
LCS 620-20339/2-A	Lab Control Sample	84	87	89	91
LCSD 620-20226/3-A	Lab Control Sample Dup	83	86	84	89
LCSD 620-20230/3-A	Lab Control Sample Dup	78	81	82	88
LCSD 620-20339/3-A	Lab Control Sample Dup	87	91	92	98
MB 620-20226/1-A	Method Blank	85	94	82	88
MB 620-20230/1-A	Method Blank	83	85	88	93
MB 620-20339/1-A	Method Blank	68	72	82	85

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10051-1	2023-MW-01-0406'	59	73	62	76	79	76	76	73
620-10051-1 MS	2023-MW-01-0406'	66	71	68	85	82	85	81	80
620-10051-1 MSD	2023-MW-01-0406'	72	74	73	87	87	82	83	85
620-10051-2	2023-MW-01-0608'	103	113	113	115	121	117	118	115
620-10051-3	2023-MW-01-0810'	96	115	99	109	115	106	106	106
620-10051-4	2023-MW-01-1012'	109	124	117	123	124	125	120	120
620-10051-5	2023-MW-02-0002'	83	91	88	85	85	87	98	91
620-10051-6	2023-MW-02-0204'	32	39	35	36	42	40	39	40
620-10051-7	2023-MW-02-0406'	104	129	119	105	116	117	109	124
620-10051-8 - RE	2023-MW-02-0608'	43	53	51	51	53	54	53	51
620-10051-8	2023-MW-02-0608'	77	84	86	82	86	85	76	85
620-10051-9	2023-MW-02-0810'	34	39	38	47	49	47	46	49
620-10051-9 - RE	2023-MW-02-0810'	50	56	55	66	67	67	62	66
620-10051-10	2023-MW-02-1012'	91	98	100	104	104	101	98	96
620-10051-11 - RE	2023-SB-16-0002'	32	44	35	37	39	38	40	41
620-10051-11	2023-SB-16-0002'	55	69	67	59	65	64	62	67
620-10051-12	2023-SB-16-0204'	67	73	74	77	82	78	84	75
620-10051-13	2023-SB-16-0406'	79	88	80	80	91	89	90	90
620-10051-14	2023-SB-16-0608'	98	95	97	110	115	110	104	102
620-10051-15	2023-SB-16-0810'	71	77	82	92	94	100	97	96
620-10051-16	2023-SB-16-1012'	79	93	89	101	111	103	101	99
620-10051-17	2023-SB-15-0002'	86	108	98	102	102	105	103	99
620-10051-17 MS	2023-SB-15-0002'	87	95	91	99	99	94	95	99
620-10051-17 MSD	2023-SB-15-0002'	84	98	87	95	95	95	90	91
620-10051-18	2023-SB-15-0204'	67	66	71	75	77	74	75	68
620-10051-19	2023-SB-15-0406'	88	99	99	102	104	105	103	98
620-10051-20	2023-SB-15-0608'	94	117	108	106	114	111	109	109
620-10051-21	2023-SB-15-0810'	87	102	99	100	105	102	108	106
620-10051-22	2023-SB-15-1012'	82	100	95	102	103	103	99	95
620-10051-23	2023-FD-03	61	73	75	79	83	80	80	76
620-10051-25	2023-SB-14-0002'	81	91	87	89	94	92	103	93
620-10051-26	2023-SB-14-0204'	81	95	91	92	98	93	95	94
620-10051-27	2023-SB-14-0406'	100	114	117	121	125	118	114	112
620-10051-28	2023-SB-14-0608'	86	109	94	96	97	105	110	105
620-10051-29	2023-SB-14-0810'	101	109	104	112	110	109	116	116
620-10051-30	2023-SB-14-1012'	83	99	96	101	99	105	100	104
620-10051-32	2023-SB-13-0002'	20	23	24	82	84	82	81	80
620-10051-32 - RE	2023-SB-13-0002'	106	122	113	141	143	143	115	131
620-10051-33	2023-SB-13-0204'	27	30	30	40	40	41	43	42
620-10051-33 - RE	2023-SB-13-0204'	100	104	110	126	127	124	109	116
620-10051-34	2023-FD-04	28	35	30	44	43	43	42	42
620-10051-34 - RE	2023-FD-04	32	46	38	53	55	53	47	52
620-10051-35	2023-SB-13-0406'	30	39	34	35	36	36	39	36
620-10051-35 - RE	2023-SB-13-0406'	34	39	37	37	42	39	35	38
620-10051-36	2023-SB-13-0608'	79	93	86	88	89	86	79	86
620-10051-37	2023-SB-13-0810'	61	74	70	70	72	70	77	69
620-10051-38	2023-SB-13-1012'	74	91	85	110	109	110	106	106
LCS 410-349822/3-B	Lab Control Sample	84	97	93	95	98	95	100	99
LCS 410-349825/3-B	Lab Control Sample	89	91	90	101	99	98	97	100

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
LCS 410-355125/2-B	Lab Control Sample	115	126	117	129	129	130	126	131
MB 410-349822/1-B	Method Blank	88	117	100	102	103	107	109	111
MB 410-349825/1-B	Method Blank	95	107	103	110	114	116	112	108
MB 410-355125/1-B	Method Blank	127	130	139	136	146	144	131	136

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10051-1	2023-MW-01-0406'	82	80	77	82	84	87	14	15
620-10051-1 MS	2023-MW-01-0406'	80	75	86	88	93	95	22	24
620-10051-1 MSD	2023-MW-01-0406'	79	76	92	86	93	88	26	31
620-10051-2	2023-MW-01-0608'	112	108	119	114	115	115	124	119
620-10051-3	2023-MW-01-0810'	124	110	107	103	107	111	117	118
620-10051-4	2023-MW-01-1012'	128	123	126	121	121	120	130	133
620-10051-5	2023-MW-02-0002'	90	90	106	92	95	102	14	20
620-10051-6	2023-MW-02-0204'	48	44	47	64	74	67	12	28
620-10051-7	2023-MW-02-0406'	135	131	130	133	149	131	11	14
620-10051-8 - RE	2023-MW-02-0608'	53	52	56	74	77	81	7 *5-	9 *5-
620-10051-8	2023-MW-02-0608'	88	89	87	121	132	118	9 *5-	13
620-10051-9	2023-MW-02-0810'	53	50	53	67	72	76	4 *5-	5 *5-
620-10051-9 - RE	2023-MW-02-0810'	67	63	68	102	115	102	4 *5-	6 *5-
620-10051-10	2023-MW-02-1012'	101	99	100	97	102	95	44	47
620-10051-11 - RE	2023-SB-16-0002'	45	43	47	69	72	72	5 *5-	8 *5-
620-10051-11	2023-SB-16-0002'	71	69	73	107	115	106	8 *5-	13
620-10051-12	2023-SB-16-0204'	82	78	84	93	102	100	13	16
620-10051-13	2023-SB-16-0406'	87	94	97	92	97	98	17	21
620-10051-14	2023-SB-16-0608'	107	102	106	105	111	107	75	84
620-10051-15	2023-SB-16-0810'	102	94	104	100	99	104	22	27
620-10051-16	2023-SB-16-1012'	105	99	100	101	103	108	41	49
620-10051-17	2023-SB-15-0002'	112	108	115	108	107	108	30	39
620-10051-17 MS	2023-SB-15-0002'	107	98	116	105	106	103	31	37
620-10051-17 MSD	2023-SB-15-0002'	94	97	98	98	105	95	22	27
620-10051-18	2023-SB-15-0204'	76	74	78	66	73	71	30	33
620-10051-19	2023-SB-15-0406'	106	98	113	106	107	104	27	32
620-10051-20	2023-SB-15-0608'	115	113	128	117	117	113	60	63
620-10051-21	2023-SB-15-0810'	108	105	113	101	101	105	104	104
620-10051-22	2023-SB-15-1012'	104	96	103	96	99	97	100	99
620-10051-23	2023-FD-03	82	83	84	96	104	105	10	13
620-10051-25	2023-SB-14-0002'	97	99	109	99	111	107	22	29
620-10051-26	2023-SB-14-0204'	99	96	106	95	103	101	25	30
620-10051-27	2023-SB-14-0406'	122	125	133	115	117	112	69	65
620-10051-28	2023-SB-14-0608'	112	104	123	107	110	117	37	40
620-10051-29	2023-SB-14-0810'	115	111	128	109	115	117	73	73
620-10051-30	2023-SB-14-1012'	94	97	103	97	95	102	72	73
620-10051-32	2023-SB-13-0002'	84	86	97	117	129	123	0.6 *5-	1 *5-
620-10051-32 - RE	2023-SB-13-0002'	132	130	125	148	168	137	5 *5-	6 *5-
620-10051-33	2023-SB-13-0204'	43	47	51	64	70	74	2 *5-	3 *5-
620-10051-33 - RE	2023-SB-13-0204'	119	118	117	136	158	136	4 *5-	6 *5-
620-10051-34	2023-FD-04	46	41	47	71	76	74	1 *5-	2 *5-
620-10051-34 - RE	2023-FD-04	52	53	57	88	96	89	2 *5-	3 *5-
620-10051-35	2023-SB-13-0406'	35	34	40	51	55	56	4 *5-	5 *5-

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10051-35 - RE	2023-SB-13-0406'	39	38	37	60	71	60	2 *5-	4 *5-
620-10051-36	2023-SB-13-0608'	90	85	91	103	108	102	11	15
620-10051-37	2023-SB-13-0810'	72	75	80	91	90	94	12	15
620-10051-38	2023-SB-13-1012'	116	103	115	115	114	111	36	41
LCS 410-349822/3-B	Lab Control Sample	95	98	125	99	96	100	108	98
LCS 410-349825/3-B	Lab Control Sample	99	99	106	96	99	104	94	101
LCS 410-355125/2-B	Lab Control Sample	138	130	139	136	139	133	123	126
MB 410-349822/1-B	Method Blank	113	109	125	103	105	104	113	109
MB 410-349825/1-B	Method Blank	121	110	124	117	100	110	103	109
MB 410-355125/1-B	Method Blank	139	138	139	134	150	136	114	114

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10051-1	2023-MW-01-0406'	101	72	71	93	84	94	84	66
620-10051-1 MS	2023-MW-01-0406'	105	78	80	102	95	101	94	97
620-10051-1 MSD	2023-MW-01-0406'	93	77	78	90	83	91	85	89
620-10051-2	2023-MW-01-0608'	114	120	119	103	101	105	102	103
620-10051-3	2023-MW-01-0810'	114	108	108	100	101	99	100	99
620-10051-4	2023-MW-01-1012'	125	123	126	114	111	111	113	123
620-10051-5	2023-MW-02-0002'	92	78	84	89	77	85	79	80
620-10051-6	2023-MW-02-0204'	122	33	34	114	80	124	84	44
620-10051-7	2023-MW-02-0406'	89	89	90	80	73	90	71	93
620-10051-8 - RE	2023-MW-02-0608'	100	48	50	94	84	90	85	59
620-10051-8	2023-MW-02-0608'	128	76	73	123	100	125	101	104
620-10051-9	2023-MW-02-0810'	104	42	42	92	81	94	85	56
620-10051-9 - RE	2023-MW-02-0810'	118	58	55	110	60	117	64	67
620-10051-10	2023-MW-02-1012'	89	96	95	83	68	79	68	90
620-10051-11 - RE	2023-SB-16-0002'	103	32	34	96	84	93	83	44
620-10051-11	2023-SB-16-0002'	114	53	53	103	30	108	32	69
620-10051-12	2023-SB-16-0204'	109	71	72	106	84	100	89	75
620-10051-13	2023-SB-16-0406'	96	77	77	89	82	88	87	83
620-10051-14	2023-SB-16-0608'	104	105	101	96	93	98	96	107
620-10051-15	2023-SB-16-0810'	107	94	90	96	93	97	96	84
620-10051-16	2023-SB-16-1012'	102	99	93	94	91	92	93	104
620-10051-17	2023-SB-15-0002'	102	99	99	97	82	97	84	92
620-10051-17 MS	2023-SB-15-0002'	96	90	93	90	79	92	79	88
620-10051-17 MSD	2023-SB-15-0002'	92	86	85	85	73	85	73	93
620-10051-18	2023-SB-15-0204'	71	69	70	66	62	67	64	73
620-10051-19	2023-SB-15-0406'	94	98	96	88	80	89	81	98
620-10051-20	2023-SB-15-0608'	116	108	106	110	101	107	104	107
620-10051-21	2023-SB-15-0810'	107	105	103	97	93	96	94	106
620-10051-22	2023-SB-15-1012'	99	102	97	93	83	93	85	92
620-10051-23	2023-FD-03	97	69	71	94	83	94	83	77
620-10051-25	2023-SB-14-0002'	97	79	77	90	83	93	85	79
620-10051-26	2023-SB-14-0204'	102	84	85	98	87	95	88	91
620-10051-27	2023-SB-14-0406'	112	111	110	105	96	105	99	111
620-10051-28	2023-SB-14-0608'	103	98	98	98	84	98	84	80
620-10051-29	2023-SB-14-0810'	110	106	102	103	94	103	97	100
620-10051-30	2023-SB-14-1012'	90	103	99	87	79	82	81	89
620-10051-32	2023-SB-13-0002'	111	71	69	105	94	104	99	102

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10051-32 - RE	2023-SB-13-0002'	124	132	123	109	89	114	92	142
620-10051-33	2023-SB-13-0204'	107	37	35	105	89	104	93	47
620-10051-33 - RE	2023-SB-13-0204'	132	112	110	124	123	133	122	124
620-10051-34	2023-FD-04	114	38	37	114	99	116	102	53
620-10051-34 - RE	2023-FD-04	109	46	44	93	56	96	60	57
620-10051-35	2023-SB-13-0406'	101	33	32	96	85	96	89	37
620-10051-35 - RE	2023-SB-13-0406'	124	34	32	108	89	111	91	48
620-10051-36	2023-SB-13-0608'	106	81	83	104	89	101	92	88
620-10051-37	2023-SB-13-0810'	114	69	69	107	97	104	100	70
620-10051-38	2023-SB-13-1012'	108	107	105	109	104	108	103	113
LCS 410-349822/3-B	Lab Control Sample	81	96	96	82	65	78	68	89
LCS 410-349825/3-B	Lab Control Sample	84	94	96	79	68	80	69	93
LCS 410-355125/2-B	Lab Control Sample	76	118	120	69	53	79	50	112
MB 410-349822/1-B	Method Blank	97	93	96	89	80	90	79	83
MB 410-349825/1-B	Method Blank	97	103	110	90	69	93	71	102
MB 410-355125/1-B	Method Blank	77	114	118	68	25	73	26	124

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01757		mg/Kg		88	70 - 130
Acetone	0.0200	0.01938	J	mg/Kg		97	70 - 130
Acrylonitrile	0.0200	0.02007		mg/Kg		100	70 - 130
Benzene	0.0200	0.02000		mg/Kg		100	70 - 130
Bromobenzene	0.0200	0.01839		mg/Kg		92	70 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.01978		mg/Kg		99	70 - 130
Bromodichloromethane	0.0200	0.02215		mg/Kg		111	70 - 130
Bromoform	0.0200	0.02074		mg/Kg		104	70 - 130
Bromomethane	0.0200	0.01718		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0200	0.01839		mg/Kg		92	70 - 130
n-Butylbenzene	0.0200	0.01927		mg/Kg		96	70 - 130
sec-Butylbenzene	0.0200	0.01901		mg/Kg		95	70 - 130
tert-Butylbenzene	0.0200	0.01893		mg/Kg		95	70 - 130
Carbon disulfide	0.0200	0.01728		mg/Kg		86	70 - 130
Carbon tetrachloride	0.0200	0.01901		mg/Kg		95	70 - 130
Chlorobenzene	0.0200	0.02132		mg/Kg		107	70 - 130
Chloroethane	0.0200	0.01847		mg/Kg		92	70 - 130
Chloroform	0.0200	0.01999		mg/Kg		100	70 - 130
Chloromethane	0.0200	0.02016		mg/Kg		101	70 - 130
2-Chlorotoluene	0.0200	0.01990		mg/Kg		100	70 - 130
4-Chlorotoluene	0.0200	0.01918		mg/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02172		mg/Kg		109	70 - 130
Dibromochloromethane	0.0200	0.02168		mg/Kg		108	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02034		mg/Kg		102	70 - 130
Dibromomethane	0.0200	0.02048		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.02037		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0200	0.01914		mg/Kg		96	70 - 130
1,4-Dichlorobenzene	0.0200	0.02002		mg/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01307	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0200	0.02090		mg/Kg		104	70 - 130
1,2-Dichloroethane	0.0200	0.01979		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0200	0.01927		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
1,2-Dichloropropane	0.0200	0.02203		mg/Kg		110	70 - 130
1,3-Dichloropropane	0.0200	0.01945		mg/Kg		97	70 - 130
2,2-Dichloropropane	0.0200	0.01877		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01782		mg/Kg		89	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01943		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02019		mg/Kg		101	70 - 130
Ethylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Hexachlorobutadiene	0.0200	0.01815		mg/Kg		91	70 - 130
2-Hexanone (MBK)	0.0200	0.01888		mg/Kg		94	70 - 130
Isopropylbenzene	0.0200	0.01909		mg/Kg		95	70 - 130
4-Isopropyltoluene	0.0200	0.01860		mg/Kg		93	70 - 130
Methyl tert-butyl ether	0.0200	0.01873		mg/Kg		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01908		mg/Kg		95	70 - 130
Methylene Chloride	0.0200	0.01901		mg/Kg		95	70 - 130
Naphthalene	0.0200	0.02120		mg/Kg		106	70 - 130
N-Propylbenzene	0.0200	0.01955		mg/Kg		98	70 - 130
Styrene	0.0200	0.01978		mg/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01996		mg/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02226		mg/Kg		111	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.01863		mg/Kg		93	70 - 130
Toluene	0.0200	0.01981		mg/Kg		99	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02055		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01920		mg/Kg		96	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01939		mg/Kg		97	70 - 130
1,1,1-Trichloroethane	0.0200	0.01987		mg/Kg		99	70 - 130
1,1,2-Trichloroethane	0.0200	0.02214		mg/Kg		111	70 - 130
Trichloroethene	0.0200	0.01959		mg/Kg		98	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01989		mg/Kg		99	70 - 130
1,2,3-Trichloropropane	0.0200	0.01879		mg/Kg		94	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01926		mg/Kg		96	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01910		mg/Kg		95	70 - 130
Vinyl chloride	0.0200	0.01813		mg/Kg		91	70 - 130
m,p-Xylene	0.0400	0.04135		mg/Kg		103	70 - 130
o-Xylene	0.0200	0.02024		mg/Kg		101	70 - 130
Tetrahydrofuran	0.0200	0.01827		mg/Kg		91	70 - 130
Ethyl ether	0.0200	0.01842		mg/Kg		92	70 - 130
Tert-amyl methyl ether	0.0200	0.01953		mg/Kg		98	70 - 130
Ethyl tert-butyl ether	0.0200	0.01904		mg/Kg		95	70 - 130
di-Isopropyl ether	0.0200	0.01879		mg/Kg		94	70 - 130
tert-Butanol	0.200	0.2141		mg/Kg		107	70 - 130
1,4-Dioxane	0.200	0.2059		mg/Kg		103	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02096	J	mg/Kg		105	70 - 130
Ethanol	0.400	0.4234	J	mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01827		mg/Kg		91	70 - 130	4	30
Acetone	0.0200	0.02043	J	mg/Kg		102	70 - 130	5	30
Acrylonitrile	0.0200	0.02072		mg/Kg		104	70 - 130	3	30
Benzene	0.0200	0.02069		mg/Kg		103	70 - 130	3	30
Bromobenzene	0.0200	0.01921		mg/Kg		96	70 - 130	4	30
Bromochloromethane	0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Bromodichloromethane	0.0200	0.02278		mg/Kg		114	70 - 130	3	30
Bromoform	0.0200	0.02118		mg/Kg		106	70 - 130	2	30
Bromomethane	0.0200	0.01756		mg/Kg		88	70 - 130	2	30
2-Butanone (MEK)	0.0200	0.01887		mg/Kg		94	70 - 130	3	30
n-Butylbenzene	0.0200	0.01994		mg/Kg		100	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	0.0200	0.01976		mg/Kg		99	70 - 130	4	30
tert-Butylbenzene	0.0200	0.01974		mg/Kg		99	70 - 130	4	30
Carbon disulfide	0.0200	0.01797		mg/Kg		90	70 - 130	4	30
Carbon tetrachloride	0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Chlorobenzene	0.0200	0.02203		mg/Kg		110	70 - 130	3	30
Chloroethane	0.0200	0.01874		mg/Kg		94	70 - 130	1	30
Chloroform	0.0200	0.02087		mg/Kg		104	70 - 130	4	30
Chloromethane	0.0200	0.02101		mg/Kg		105	70 - 130	4	30
2-Chlorotoluene	0.0200	0.02067		mg/Kg		103	70 - 130	4	30
4-Chlorotoluene	0.0200	0.01963		mg/Kg		98	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02174		mg/Kg		109	70 - 130	0	30
Dibromochloromethane	0.0200	0.02211		mg/Kg		111	70 - 130	2	30
1,2-Dibromoethane (EDB)	0.0200	0.02077		mg/Kg		104	70 - 130	2	30
Dibromomethane	0.0200	0.02065		mg/Kg		103	70 - 130	1	30
1,2-Dichlorobenzene	0.0200	0.02106		mg/Kg		105	70 - 130	3	30
1,3-Dichlorobenzene	0.0200	0.01946		mg/Kg		97	70 - 130	2	30
1,4-Dichlorobenzene	0.0200	0.02062		mg/Kg		103	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01382	*-	mg/Kg		69	70 - 130	6	30
1,1-Dichloroethane	0.0200	0.02173		mg/Kg		109	70 - 130	4	30
1,2-Dichloroethane	0.0200	0.02074		mg/Kg		104	70 - 130	5	30
1,1-Dichloroethene	0.0200	0.02053		mg/Kg		103	70 - 130	6	30
cis-1,2-Dichloroethene	0.0200	0.02106		mg/Kg		105	70 - 130	5	30
trans-1,2-Dichloroethene	0.0200	0.02060		mg/Kg		103	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02255		mg/Kg		113	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02012		mg/Kg		101	70 - 130	3	30
2,2-Dichloropropane	0.0200	0.01909		mg/Kg		95	70 - 130	2	30
1,1-Dichloropropene	0.0200	0.01866		mg/Kg		93	70 - 130	5	30
cis-1,3-Dichloropropene	0.0200	0.01967		mg/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02040		mg/Kg		102	70 - 130	1	30
Ethylbenzene	0.0200	0.02106		mg/Kg		105	70 - 130	4	30
Hexachlorobutadiene	0.0200	0.01894		mg/Kg		95	70 - 130	4	30
2-Hexanone (MBK)	0.0200	0.01921		mg/Kg		96	70 - 130	2	30
Isopropylbenzene	0.0200	0.01965		mg/Kg		98	70 - 130	3	30
4-Isopropyltoluene	0.0200	0.01955		mg/Kg		98	70 - 130	5	30
Methyl tert-butyl ether	0.0200	0.01926		mg/Kg		96	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01913		mg/Kg		96	70 - 130	0	30
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130	4	30
Naphthalene	0.0200	0.02180		mg/Kg		109	70 - 130	3	30
N-Propylbenzene	0.0200	0.02003		mg/Kg		100	70 - 130	2	30
Styrene	0.0200	0.02037		mg/Kg		102	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0200	0.02039		mg/Kg		102	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02245		mg/Kg		112	70 - 130	1	30
Tetrachloroethene	0.0200	0.01893		mg/Kg		95	70 - 130	2	30
Toluene	0.0200	0.02031		mg/Kg		102	70 - 130	3	30
1,2,3-Trichlorobenzene	0.0200	0.02115		mg/Kg		106	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0200	0.01988		mg/Kg		99	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.01945		mg/Kg		97	70 - 130	0	30
1,1,1-Trichloroethane	0.0200	0.02055		mg/Kg		103	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02258		mg/Kg		113	70 - 130	2	30
Trichloroethene			0.0200	0.01991		mg/Kg		100	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02080		mg/Kg		104	70 - 130	4	30
1,2,3-Trichloropropane			0.0200	0.02070		mg/Kg		103	70 - 130	10	30
1,2,4-Trimethylbenzene			0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3,5-Trimethylbenzene			0.0200	0.01990		mg/Kg		99	70 - 130	4	30
Vinyl chloride			0.0200	0.01867		mg/Kg		93	70 - 130	3	30
m,p-Xylene			0.0400	0.04282		mg/Kg		107	70 - 130	3	30
o-Xylene			0.0200	0.02086		mg/Kg		104	70 - 130	3	30
Tetrahydrofuran			0.0200	0.01952		mg/Kg		98	70 - 130	7	30
Ethyl ether			0.0200	0.01800		mg/Kg		90	70 - 130	2	30
Tert-amyl methyl ether			0.0200	0.01941		mg/Kg		97	70 - 130	1	30
Ethyl tert-butyl ether			0.0200	0.01894		mg/Kg		95	70 - 130	1	30
di-Isopropyl ether			0.0200	0.01936		mg/Kg		97	70 - 130	3	30
tert-Butanol			0.200	0.2113		mg/Kg		106	70 - 130	1	30
1,4-Dioxane			0.200	0.1895		mg/Kg		95	70 - 130	8	30
trans-1,4-Dichloro-2-butene			0.0200	0.02160	J	mg/Kg		108	70 - 130	3	30
Ethanol			0.400	0.4066	J	mg/Kg		102	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02096		mg/Kg		105	70 - 130
Acetone	0.0200	0.01748	J	mg/Kg		87	70 - 130
Acrylonitrile	0.0200	0.01945		mg/Kg		97	70 - 130
Benzene	0.0200	0.02067		mg/Kg		103	70 - 130
Bromobenzene	0.0200	0.01988		mg/Kg		99	70 - 130
Bromochloromethane	0.0200	0.02025		mg/Kg		101	70 - 130
Bromodichloromethane	0.0200	0.02042		mg/Kg		102	70 - 130
Bromoform	0.0200	0.02011		mg/Kg		101	70 - 130
Bromomethane	0.0200	0.02293		mg/Kg		115	70 - 130
2-Butanone (MEK)	0.0200	0.01932		mg/Kg		97	70 - 130
n-Butylbenzene	0.0200	0.02077		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0200	0.02139		mg/Kg		107	70 - 130
tert-Butylbenzene	0.0200	0.02043		mg/Kg		102	70 - 130
Carbon disulfide	0.0200	0.02131		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0200	0.02046		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02083		mg/Kg		104	70 - 130
Chloroethane	0.0200	0.02435		mg/Kg		122	70 - 130
Chloroform	0.0200	0.02055		mg/Kg		103	70 - 130
Chloromethane	0.0200	0.02048		mg/Kg		102	70 - 130
2-Chlorotoluene	0.0200	0.02147		mg/Kg		107	70 - 130
4-Chlorotoluene	0.0200	0.02089		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01950		mg/Kg		98	70 - 130
Dibromochloromethane	0.0200	0.01977		mg/Kg		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0200	0.02009		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.02040		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.02033		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0200	0.02106		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.02063		mg/Kg		103	70 - 130
1,1-Dichloroethane	0.0200	0.01982		mg/Kg		99	70 - 130
1,2-Dichloroethane	0.0200	0.01963		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01956		mg/Kg		98	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01971		mg/Kg		99	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02011		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0200	0.02010		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0200	0.02008		mg/Kg		100	70 - 130
2,2-Dichloropropane	0.0200	0.01921		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0200	0.01973		mg/Kg		99	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01942		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02028		mg/Kg		101	70 - 130
Ethylbenzene	0.0200	0.02106		mg/Kg		105	70 - 130
Hexachlorobutadiene	0.0200	0.01937		mg/Kg		97	70 - 130
2-Hexanone (MBK)	0.0200	0.01706		mg/Kg		85	70 - 130
Isopropylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130
4-Isopropyltoluene	0.0200	0.02046		mg/Kg		102	70 - 130
Methyl tert-butyl ether	0.0200	0.01835		mg/Kg		92	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01801		mg/Kg		90	70 - 130
Methylene Chloride	0.0200	0.01923		mg/Kg		96	70 - 130
Naphthalene	0.0200	0.01982		mg/Kg		99	70 - 130
N-Propylbenzene	0.0200	0.02133		mg/Kg		107	70 - 130
Styrene	0.0200	0.02090		mg/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02057		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02149		mg/Kg		107	70 - 130
Tetrachloroethene	0.0200	0.01948		mg/Kg		97	70 - 130
Toluene	0.0200	0.02071		mg/Kg		104	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01977		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01996		mg/Kg		100	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02024		mg/Kg		101	70 - 130
1,1,1-Trichloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02094		mg/Kg		105	70 - 130
Trichloroethene	0.0200	0.02045		mg/Kg		102	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01966		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	0.0200	0.02100		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02101		mg/Kg		105	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02122		mg/Kg		106	70 - 130
Vinyl chloride	0.0200	0.02156		mg/Kg		108	70 - 130
m,p-Xylene	0.0200	0.02023		mg/Kg		101	70 - 130
o-Xylene	0.0200	0.02000		mg/Kg		100	70 - 130
Tetrahydrofuran	0.0200	0.01770		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.01933		mg/Kg		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0200	0.01885		mg/Kg		94	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01830		mg/Kg		92	70 - 130		
di-Isopropyl ether			0.0200	0.01818		mg/Kg		91	70 - 130		
tert-Butanol			0.200	0.1695		mg/Kg		85	70 - 130		
1,4-Dioxane			0.200	0.1818		mg/Kg		91	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.01981	J	mg/Kg		99	70 - 130		
Ethanol			0.400	0.3363	J	mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.01969		mg/Kg		98	70 - 130	6	30
Acetone			0.0200	0.01853	J	mg/Kg		93	70 - 130	6	30
Acrylonitrile			0.0200	0.01950		mg/Kg		97	70 - 130	0	30
Benzene			0.0200	0.02062		mg/Kg		103	70 - 130	0	30
Bromobenzene			0.0200	0.01973		mg/Kg		99	70 - 130	1	30
Bromochloromethane			0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Bromodichloromethane			0.0200	0.02010		mg/Kg		100	70 - 130	2	30
Bromoform			0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Bromomethane			0.0200	0.02172		mg/Kg		109	70 - 130	5	30
2-Butanone (MEK)			0.0200	0.01913		mg/Kg		96	70 - 130	1	30
n-Butylbenzene			0.0200	0.02045		mg/Kg		102	70 - 130	2	30
sec-Butylbenzene			0.0200	0.02078		mg/Kg		104	70 - 130	3	30
tert-Butylbenzene			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Carbon disulfide			0.0200	0.02026		mg/Kg		101	70 - 130	5	30
Carbon tetrachloride			0.0200	0.01986		mg/Kg		99	70 - 130	3	30
Chlorobenzene			0.0200	0.02018		mg/Kg		101	70 - 130	3	30
Chloroethane			0.0200	0.02343		mg/Kg		117	70 - 130	4	30
Chloroform			0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Chloromethane			0.0200	0.02018		mg/Kg		101	70 - 130	1	30
2-Chlorotoluene			0.0200	0.02119		mg/Kg		106	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02057		mg/Kg		103	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02022		mg/Kg		101	70 - 130	4	30
Dibromochloromethane			0.0200	0.01999		mg/Kg		100	70 - 130	1	30
1,2-Dibromoethane (EDB)			0.0200	0.01981		mg/Kg		99	70 - 130	1	30
Dibromomethane			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02035		mg/Kg		102	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.02060		mg/Kg		103	70 - 130	2	30
1,4-Dichlorobenzene			0.0200	0.02055		mg/Kg		103	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0200	0.01996		mg/Kg		100	70 - 130	3	30
1,1-Dichloroethane	0.0200	0.02026		mg/Kg		101	70 - 130	2	30
1,2-Dichloroethane	0.0200	0.01996		mg/Kg		100	70 - 130	2	30
1,1-Dichloroethene	0.0200	0.01930		mg/Kg		96	70 - 130	1	30
cis-1,2-Dichloroethene	0.0200	0.01928		mg/Kg		96	70 - 130	2	30
trans-1,2-Dichloroethene	0.0200	0.01953		mg/Kg		98	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02020		mg/Kg		101	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.02039		mg/Kg		102	70 - 130	2	30
2,2-Dichloropropane	0.0200	0.01931		mg/Kg		97	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.01930		mg/Kg		96	70 - 130	2	30
cis-1,3-Dichloropropene	0.0200	0.01923		mg/Kg		96	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02008		mg/Kg		100	70 - 130	1	30
Ethylbenzene	0.0200	0.02082		mg/Kg		104	70 - 130	1	30
Hexachlorobutadiene	0.0200	0.01970		mg/Kg		98	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01794		mg/Kg		90	70 - 130	5	30
Isopropylbenzene	0.0200	0.02027		mg/Kg		101	70 - 130	2	30
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130	2	30
Methyl tert-butyl ether	0.0200	0.01876		mg/Kg		94	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01850		mg/Kg		92	70 - 130	3	30
Methylene Chloride	0.0200	0.01923		mg/Kg		96	70 - 130	0	30
Naphthalene	0.0200	0.02154		mg/Kg		108	70 - 130	8	30
N-Propylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130	3	30
Styrene	0.0200	0.02010		mg/Kg		101	70 - 130	4	30
1,1,1,2-Tetrachloroethane	0.0200	0.02000		mg/Kg		100	70 - 130	3	30
1,1,2,2-Tetrachloroethane	0.0200	0.02199		mg/Kg		110	70 - 130	2	30
Tetrachloroethene	0.0200	0.01857		mg/Kg		93	70 - 130	5	30
Toluene	0.0200	0.02034		mg/Kg		102	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0200	0.02093		mg/Kg		105	70 - 130	6	30
1,2,4-Trichlorobenzene	0.0200	0.02061		mg/Kg		103	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.02032		mg/Kg		102	70 - 130	0	30
1,1,1-Trichloroethane	0.0200	0.01941		mg/Kg		97	70 - 130	5	30
1,1,2-Trichloroethane	0.0200	0.02077		mg/Kg		104	70 - 130	1	30
Trichloroethene	0.0200	0.02030		mg/Kg		102	70 - 130	1	30
Trichlorofluoromethane (Freon 11)	0.0200	0.01940		mg/Kg		97	70 - 130	1	30
1,2,3-Trichloropropane	0.0200	0.02111		mg/Kg		106	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02073		mg/Kg		104	70 - 130	1	30
1,3,5-Trimethylbenzene	0.0200	0.02053		mg/Kg		103	70 - 130	3	30
Vinyl chloride	0.0200	0.02060		mg/Kg		103	70 - 130	5	30
m,p-Xylene	0.0200	0.02004		mg/Kg		100	70 - 130	1	30
o-Xylene	0.0200	0.01964		mg/Kg		98	70 - 130	2	30
Tetrahydrofuran	0.0200	0.01787		mg/Kg		89	70 - 130	1	30
Ethyl ether	0.0200	0.01916		mg/Kg		96	70 - 130	1	30
Tert-amyl methyl ether	0.0200	0.01857		mg/Kg		93	70 - 130	1	30
Ethyl tert-butyl ether	0.0200	0.01822		mg/Kg		91	70 - 130	0	30
di-Isopropyl ether	0.0200	0.01887		mg/Kg		94	70 - 130	4	30
tert-Butanol	0.200	0.1846		mg/Kg		92	70 - 130	9	30
1,4-Dioxane	0.200	0.1951		mg/Kg		98	70 - 130	7	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0200	0.02027	J	mg/Kg		101	70 - 130	2	30
Ethanol			0.400	0.4041	J	mg/Kg		101	70 - 130	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/06/23 09:50	03/06/23 13:14	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/06/23 09:50	03/06/23 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*

Lab Sample ID: LCS 620-20295/1-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02105		mg/Kg		105	70 - 130
Acetone	0.0200	0.01858	J	mg/Kg		93	70 - 130
Acrylonitrile	0.0200	0.01925		mg/Kg		96	70 - 130
Benzene	0.0200	0.02129		mg/Kg		106	70 - 130
Bromobenzene	0.0200	0.02084		mg/Kg		104	70 - 130
Bromochloromethane	0.0200	0.02048		mg/Kg		102	70 - 130
Bromodichloromethane	0.0200	0.02083		mg/Kg		104	70 - 130
Bromoform	0.0200	0.02048		mg/Kg		102	70 - 130
Bromomethane	0.0200	0.02105		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0200	0.02054		mg/Kg		103	70 - 130
n-Butylbenzene	0.0200	0.02130		mg/Kg		107	70 - 130
sec-Butylbenzene	0.0200	0.02167		mg/Kg		108	70 - 130
tert-Butylbenzene	0.0200	0.02099		mg/Kg		105	70 - 130
Carbon disulfide	0.0200	0.02158		mg/Kg		108	70 - 130
Carbon tetrachloride	0.0200	0.02079		mg/Kg		104	70 - 130
Chlorobenzene	0.0200	0.02128		mg/Kg		106	70 - 130
Chloroethane	0.0200	0.02335		mg/Kg		117	70 - 130
Chloroform	0.0200	0.02101		mg/Kg		105	70 - 130
Chloromethane	0.0200	0.02179		mg/Kg		109	70 - 130
2-Chlorotoluene	0.0200	0.02152		mg/Kg		108	70 - 130
4-Chlorotoluene	0.0200	0.02143		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02064		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02026		mg/Kg		101	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02051		mg/Kg		103	70 - 130
Dibromomethane	0.0200	0.02068		mg/Kg		103	70 - 130
1,2-Dichlorobenzene	0.0200	0.02123		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02157		mg/Kg		108	70 - 130
1,4-Dichlorobenzene	0.0200	0.02118		mg/Kg		106	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01915		mg/Kg		96	70 - 130
1,1-Dichloroethane	0.0200	0.02063		mg/Kg		103	70 - 130
1,2-Dichloroethane	0.0200	0.01976		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0200	0.02090		mg/Kg		105	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01999		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02027		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0200	0.02004		mg/Kg		100	70 - 130
1,3-Dichloropropane	0.0200	0.02061		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01966		mg/Kg		98	70 - 130
1,1-Dichloropropene	0.0200	0.01999		mg/Kg		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20295/1-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0200	0.01921		mg/Kg		96	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02008		mg/Kg		100	70 - 130
Ethylbenzene	0.0200	0.02142		mg/Kg		107	70 - 130
Hexachlorobutadiene	0.0200	0.02025		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01770		mg/Kg		88	70 - 130
Isopropylbenzene	0.0200	0.02108		mg/Kg		105	70 - 130
4-Isopropyltoluene	0.0200	0.02089		mg/Kg		104	70 - 130
Methyl tert-butyl ether	0.0200	0.01869		mg/Kg		93	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01805		mg/Kg		90	70 - 130
Methylene Chloride	0.0200	0.02069		mg/Kg		103	70 - 130
Naphthalene	0.0200	0.02055		mg/Kg		103	70 - 130
N-Propylbenzene	0.0200	0.02172		mg/Kg		109	70 - 130
Styrene	0.0200	0.02145		mg/Kg		107	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02082		mg/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02171		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01976		mg/Kg		99	70 - 130
Toluene	0.0200	0.02129		mg/Kg		106	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02067		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02063		mg/Kg		103	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02114		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02031		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02147		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02056		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02029		mg/Kg		101	70 - 130
1,2,3-Trichloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02186		mg/Kg		109	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Vinyl chloride	0.0200	0.02059		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02052		mg/Kg		103	70 - 130
o-Xylene	0.0200	0.02028		mg/Kg		101	70 - 130
Tetrahydrofuran	0.0200	0.01779		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.01992		mg/Kg		100	70 - 130
Tert-amyl methyl ether	0.0200	0.01848		mg/Kg		92	70 - 130
Ethyl tert-butyl ether	0.0200	0.01805		mg/Kg		90	70 - 130
di-Isopropyl ether	0.0200	0.01874		mg/Kg		94	70 - 130
tert-Butanol	0.200	0.1710		mg/Kg		86	70 - 130
1,4-Dioxane	0.200	0.1766		mg/Kg		88	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.01971	J	mg/Kg		99	70 - 130
Ethanol	0.400	0.3660	J	mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20295/2-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02085		mg/Kg		104	70 - 130	1	30
Acetone	0.0200	0.01856	J	mg/Kg		93	70 - 130	0	30
Acrylonitrile	0.0200	0.01985		mg/Kg		99	70 - 130	3	30
Benzene	0.0200	0.02138		mg/Kg		107	70 - 130	0	30
Bromobenzene	0.0200	0.02056		mg/Kg		103	70 - 130	1	30
Bromochloromethane	0.0200	0.02068		mg/Kg		103	70 - 130	1	30
Bromodichloromethane	0.0200	0.02054		mg/Kg		103	70 - 130	1	30
Bromoform	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Bromomethane	0.0200	0.02162		mg/Kg		108	70 - 130	3	30
2-Butanone (MEK)	0.0200	0.01767		mg/Kg		88	70 - 130	15	30
n-Butylbenzene	0.0200	0.02093		mg/Kg		105	70 - 130	2	30
sec-Butylbenzene	0.0200	0.02131		mg/Kg		107	70 - 130	2	30
tert-Butylbenzene	0.0200	0.02072		mg/Kg		104	70 - 130	1	30
Carbon disulfide	0.0200	0.02150		mg/Kg		107	70 - 130	0	30
Carbon tetrachloride	0.0200	0.02066		mg/Kg		103	70 - 130	1	30
Chlorobenzene	0.0200	0.02122		mg/Kg		106	70 - 130	0	30
Chloroethane	0.0200	0.02299		mg/Kg		115	70 - 130	2	30
Chloroform	0.0200	0.02096		mg/Kg		105	70 - 130	0	30
Chloromethane	0.0200	0.02130		mg/Kg		107	70 - 130	2	30
2-Chlorotoluene	0.0200	0.02018		mg/Kg		101	70 - 130	6	30
4-Chlorotoluene	0.0200	0.02115		mg/Kg		106	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02062		mg/Kg		103	70 - 130	0	30
Dibromochloromethane	0.0200	0.02042		mg/Kg		102	70 - 130	1	30
1,2-Dibromoethane (EDB)	0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Dibromomethane	0.0200	0.02069		mg/Kg		103	70 - 130	0	30
1,2-Dichlorobenzene	0.0200	0.02119		mg/Kg		106	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.02145		mg/Kg		107	70 - 130	1	30
1,4-Dichlorobenzene	0.0200	0.02097		mg/Kg		105	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01844		mg/Kg		92	70 - 130	4	30
1,1-Dichloroethane	0.0200	0.02050		mg/Kg		103	70 - 130	1	30
1,2-Dichloroethane	0.0200	0.01989		mg/Kg		99	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.02052		mg/Kg		103	70 - 130	2	30
cis-1,2-Dichloroethene	0.0200	0.02006		mg/Kg		100	70 - 130	0	30
trans-1,2-Dichloroethene	0.0200	0.02036		mg/Kg		102	70 - 130	0	30
1,2-Dichloropropane	0.0200	0.02010		mg/Kg		100	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.02041		mg/Kg		102	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01969		mg/Kg		98	70 - 130	0	30
1,1-Dichloropropene	0.0200	0.02030		mg/Kg		101	70 - 130	2	30
cis-1,3-Dichloropropene	0.0200	0.01953		mg/Kg		98	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02033		mg/Kg		102	70 - 130	1	30
Ethylbenzene	0.0200	0.02140		mg/Kg		107	70 - 130	0	30
Hexachlorobutadiene	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
2-Hexanone (MBK)	0.0200	0.01737		mg/Kg		87	70 - 130	2	30
Isopropylbenzene	0.0200	0.02103		mg/Kg		105	70 - 130	0	30
4-Isopropyltoluene	0.0200	0.02080		mg/Kg		104	70 - 130	0	30
Methyl tert-butyl ether	0.0200	0.01895		mg/Kg		95	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01804		mg/Kg		90	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20295/2-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	0.0200	0.02066		mg/Kg		103	70 - 130	0	30
Naphthalene	0.0200	0.02133		mg/Kg		107	70 - 130	4	30
N-Propylbenzene	0.0200	0.02157		mg/Kg		108	70 - 130	1	30
Styrene	0.0200	0.02114		mg/Kg		106	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02094		mg/Kg		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02174		mg/Kg		109	70 - 130	0	30
Tetrachloroethene	0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Toluene	0.0200	0.02111		mg/Kg		106	70 - 130	1	30
1,2,3-Trichlorobenzene	0.0200	0.02132		mg/Kg		107	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,3,5-Trichlorobenzene	0.0200	0.02047		mg/Kg		102	70 - 130	3	30
1,1,1-Trichloroethane	0.0200	0.02073		mg/Kg		104	70 - 130	2	30
1,1,2-Trichloroethane	0.0200	0.02063		mg/Kg		103	70 - 130	4	30
Trichloroethene	0.0200	0.02052		mg/Kg		103	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	0.0200	0.02006		mg/Kg		100	70 - 130	1	30
1,2,3-Trichloropropane	0.0200	0.02060		mg/Kg		103	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02124		mg/Kg		106	70 - 130	3	30
1,3,5-Trimethylbenzene	0.0200	0.02105		mg/Kg		105	70 - 130	2	30
Vinyl chloride	0.0200	0.02080		mg/Kg		104	70 - 130	1	30
m,p-Xylene	0.0200	0.02049		mg/Kg		102	70 - 130	0	30
o-Xylene	0.0200	0.02034		mg/Kg		102	70 - 130	0	30
Tetrahydrofuran	0.0200	0.01702		mg/Kg		85	70 - 130	4	30
Ethyl ether	0.0200	0.01983		mg/Kg		99	70 - 130	0	30
Tert-amyl methyl ether	0.0200	0.01838		mg/Kg		92	70 - 130	1	30
Ethyl tert-butyl ether	0.0200	0.01860		mg/Kg		93	70 - 130	3	30
di-Isopropyl ether	0.0200	0.01917		mg/Kg		96	70 - 130	2	30
tert-Butanol	0.200	0.1740		mg/Kg		87	70 - 130	2	30
1,4-Dioxane	0.200	0.1814		mg/Kg		91	70 - 130	3	30
trans-1,4-Dichloro-2-butene	0.0200	0.01989	J	mg/Kg		99	70 - 130	1	30
Ethanol	0.400	0.3912	J	mg/Kg		98	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0291	0.03127		mg/Kg	☼	107	70 - 130
Acetone	ND		0.0291	0.02831	J	mg/Kg	☼	97	70 - 130
Acrylonitrile	ND		0.0291	0.02899		mg/Kg	☼	99	70 - 130
Benzene	ND		0.0291	0.03208		mg/Kg	☼	110	70 - 130
Bromobenzene	ND		0.0291	0.02761		mg/Kg	☼	95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	ND		0.0291	0.03047		mg/Kg	☼	105	70 - 130
Bromodichloromethane	ND		0.0291	0.03367		mg/Kg	☼	116	70 - 130
Bromoform	ND		0.0291	0.03122		mg/Kg	☼	107	70 - 130
Bromomethane	ND		0.0291	0.02809		mg/Kg	☼	96	70 - 130
2-Butanone (MEK)	ND		0.0291	0.03104		mg/Kg	☼	107	70 - 130
n-Butylbenzene	ND		0.0291	0.02745		mg/Kg	☼	94	70 - 130
sec-Butylbenzene	ND		0.0291	0.02789		mg/Kg	☼	96	70 - 130
tert-Butylbenzene	ND		0.0291	0.02750		mg/Kg	☼	94	70 - 130
Carbon disulfide	ND		0.0291	0.03115		mg/Kg	☼	107	70 - 130
Carbon tetrachloride	ND		0.0291	0.03063		mg/Kg	☼	105	70 - 130
Chlorobenzene	ND		0.0291	0.03373		mg/Kg	☼	116	70 - 130
Chloroethane	ND		0.0291	0.03245		mg/Kg	☼	111	70 - 130
Chloroform	ND		0.0291	0.03072		mg/Kg	☼	105	70 - 130
Chloromethane	ND		0.0291	0.03160		mg/Kg	☼	108	70 - 130
2-Chlorotoluene	ND		0.0291	0.02809		mg/Kg	☼	96	70 - 130
4-Chlorotoluene	ND		0.0291	0.02917		mg/Kg	☼	100	70 - 130
1,2-Dibromo-3-Chloropropane	ND		0.0291	0.02647		mg/Kg	☼	91	70 - 130
Dibromochloromethane	ND		0.0291	0.03228		mg/Kg	☼	111	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0291	0.03063		mg/Kg	☼	105	70 - 130
Dibromomethane	ND		0.0291	0.03112		mg/Kg	☼	107	70 - 130
1,2-Dichlorobenzene	ND		0.0291	0.02871		mg/Kg	☼	99	70 - 130
1,3-Dichlorobenzene	ND		0.0291	0.02798		mg/Kg	☼	96	70 - 130
1,4-Dichlorobenzene	ND		0.0291	0.03019		mg/Kg	☼	104	70 - 130
Dichlorodifluoromethane (Freon 12)	ND		0.0291	0.02286		mg/Kg	☼	78	70 - 130
1,1-Dichloroethane	ND		0.0291	0.03308		mg/Kg	☼	114	70 - 130
1,2-Dichloroethane	ND		0.0291	0.02916		mg/Kg	☼	100	70 - 130
1,1-Dichloroethene	ND		0.0291	0.03171		mg/Kg	☼	109	70 - 130
cis-1,2-Dichloroethene	ND		0.0291	0.03114		mg/Kg	☼	107	70 - 130
trans-1,2-Dichloroethene	ND		0.0291	0.03276		mg/Kg	☼	112	70 - 130
1,2-Dichloropropane	ND		0.0291	0.03354		mg/Kg	☼	115	70 - 130
1,3-Dichloropropane	ND		0.0291	0.02904		mg/Kg	☼	100	70 - 130
2,2-Dichloropropane	ND		0.0291	0.02923		mg/Kg	☼	100	70 - 130
1,1-Dichloropropene	ND		0.0291	0.02730		mg/Kg	☼	94	70 - 130
cis-1,3-Dichloropropene	ND		0.0291	0.02752		mg/Kg	☼	94	70 - 130
trans-1,3-Dichloropropene	ND		0.0291	0.02991		mg/Kg	☼	103	70 - 130
Ethylbenzene	ND		0.0291	0.03202		mg/Kg	☼	110	70 - 130
Hexachlorobutadiene	ND	F1	0.0291	0.01568	F1	mg/Kg	☼	54	70 - 130
2-Hexanone (MBK)	ND		0.0291	0.02389		mg/Kg	☼	82	70 - 130
Isopropylbenzene	ND		0.0291	0.02859		mg/Kg	☼	98	70 - 130
4-Isopropyltoluene	ND		0.0291	0.02631		mg/Kg	☼	90	70 - 130
Methyl tert-butyl ether	ND		0.0291	0.02515		mg/Kg	☼	86	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		0.0291	0.02525		mg/Kg	☼	87	70 - 130
Methylene Chloride	ND		0.0291	0.03174		mg/Kg	☼	109	70 - 130
Naphthalene	ND	F1	0.0291	0.01804	F1	mg/Kg	☼	62	70 - 130
N-Propylbenzene	ND		0.0291	0.03055		mg/Kg	☼	105	70 - 130
Styrene	ND		0.0291	0.03053		mg/Kg	☼	105	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0291	0.03001		mg/Kg	☼	103	70 - 130
1,1,2,2-Tetrachloroethane	ND		0.0291	0.03481		mg/Kg	☼	119	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	ND		0.0291	0.02898		mg/Kg	☼	99	70 - 130
Toluene	ND		0.0291	0.03254		mg/Kg	☼	112	70 - 130
1,2,3-Trichlorobenzene	ND	F1	0.0291	0.01720	F1	mg/Kg	☼	59	70 - 130
1,2,4-Trichlorobenzene	ND	F1	0.0291	0.01737	F1	mg/Kg	☼	60	70 - 130
1,3,5-Trichlorobenzene	ND		0.0291	0.02075		mg/Kg	☼	71	70 - 130
1,1,1-Trichloroethane	ND		0.0291	0.03065		mg/Kg	☼	105	70 - 130
1,1,2-Trichloroethane	ND		0.0291	0.03554		mg/Kg	☼	122	70 - 130
Trichloroethene	ND		0.0291	0.02990		mg/Kg	☼	103	70 - 130
Trichlorofluoromethane (Freon 11)	ND		0.0291	0.03162		mg/Kg	☼	109	70 - 130
1,2,3-Trichloropropane	ND		0.0291	0.03047		mg/Kg	☼	105	70 - 130
1,2,4-Trimethylbenzene	ND		0.0291	0.02837		mg/Kg	☼	97	70 - 130
1,3,5-Trimethylbenzene	ND		0.0291	0.02883		mg/Kg	☼	99	70 - 130
Vinyl chloride	ND		0.0291	0.03041		mg/Kg	☼	104	70 - 130
m,p-Xylene	ND		0.0583	0.06447		mg/Kg	☼	111	70 - 130
o-Xylene	ND		0.0291	0.02944		mg/Kg	☼	101	70 - 130
Tetrahydrofuran	ND		0.0291	0.02582		mg/Kg	☼	89	70 - 130
Ethyl ether	ND		0.0291	0.02588		mg/Kg	☼	89	70 - 130
Tert-amyl methyl ether	ND		0.0291	0.02577		mg/Kg	☼	88	70 - 130
Ethyl tert-butyl ether	ND		0.0291	0.02426		mg/Kg	☼	83	70 - 130
di-Isopropyl ether	ND		0.0291	0.02432		mg/Kg	☼	83	70 - 130
tert-Butanol	ND		0.291	0.2901		mg/Kg	☼	100	70 - 130
1,4-Dioxane	ND		0.291	0.2697		mg/Kg	☼	93	70 - 130
trans-1,4-Dichloro-2-butene	ND		0.0291	0.03266	J	mg/Kg	☼	112	70 - 130
Ethanol	ND		0.583	0.6277	J	mg/Kg	☼	108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0500	0.0274	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Acetone	ND		0.500	0.0630	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Acrylonitrile	ND		0.0500	0.0181	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Benzene	ND		0.0500	0.00800	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromobenzene	ND		0.0500	0.0113	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromochloromethane	ND		0.0500	0.00715	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromodichloromethane	ND		0.0500	0.0129	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromoform	ND		0.0500	0.0107	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromomethane	ND		0.100	0.0247	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Butanone (MEK)	ND		0.100	0.0229	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
n-Butylbenzene	ND		0.0500	0.0200	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0500	0.0154	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
tert-Butylbenzene	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Carbon disulfide	ND		0.100	0.0185	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Carbon tetrachloride	ND		0.0500	0.0150	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chlorobenzene	ND		0.0500	0.00605	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloroethane	ND		0.100	0.0223	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloroform	ND		0.0500	0.00590	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloromethane	ND		0.100	0.0595	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Chlorotoluene	ND		0.0500	0.0124	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Chlorotoluene	ND		0.0500	0.00905	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dibromo-3-Chloropropane	ND		0.100	0.0198	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dibromochloromethane	ND		0.0500	0.00790	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dibromoethane (EDB)	ND		0.0500	0.0136	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dibromomethane	ND		0.0500	0.00940	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichlorobenzene	ND		0.0500	0.00900	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichlorobenzene	ND		0.0500	0.0125	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,4-Dichlorobenzene	ND		0.0500	0.00895	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dichlorodifluoromethane (Freon 12)	ND		0.100	0.0655	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloroethane	ND		0.0500	0.0116	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichloroethane	ND		0.0500	0.0131	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloroethene	ND		0.0500	0.0128	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
cis-1,2-Dichloroethene	ND		0.0500	0.0167	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,2-Dichloroethene	ND		0.0500	0.0114	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichloropropane	ND		0.0500	0.0174	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichloropropane	ND		0.0500	0.0158	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2,2-Dichloropropane	ND		0.0500	0.0132	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloropropene	ND		0.0500	0.0153	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
cis-1,3-Dichloropropene	ND		0.0500	0.0118	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,3-Dichloropropene	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethylbenzene	ND		0.0500	0.0105	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Hexachlorobutadiene	ND		0.0500	0.0160	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Hexanone (MBK)	ND		0.100	0.0333	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Isopropylbenzene	ND		0.0500	0.0182	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Isopropyltoluene	ND		0.0500	0.0139	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Methyl tert-butyl ether	ND		0.0500	0.0151	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.100	0.0358	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Methylene Chloride	ND		0.100	0.0427	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Naphthalene	ND		0.0500	0.0145	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
N-Propylbenzene	ND		0.0500	0.0125	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Styrene	ND		0.0500	0.00660	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0121	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0159	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tetrachloroethene	ND		0.0500	0.0158	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Toluene	ND		0.0500	0.00805	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,3-Trichlorobenzene	ND		0.0500	0.0117	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,4-Trichlorobenzene	ND		0.0500	0.00825	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3,5-Trichlorobenzene	ND		0.0500	0.00790	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,1-Trichloroethane	ND		0.0500	0.0121	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,2-Trichloroethane	ND		0.0500	0.0155	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0500	0.00855	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Trichlorofluoromethane (Freon 11)	ND		0.0500	0.0226	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,3-Trichloropropane	ND		0.0500	0.0231	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,4-Trimethylbenzene	ND		0.0500	0.0127	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3,5-Trimethylbenzene	ND		0.0500	0.0105	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Vinyl chloride	ND		0.0500	0.0246	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
m,p-Xylene	ND		0.0500	0.0294	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
o-Xylene	ND		0.0500	0.0154	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tetrahydrofuran	ND		0.100	0.0366	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethyl ether	ND		0.0500	0.0136	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tert-amyl methyl ether	ND		0.0500	0.0277	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethyl tert-butyl ether	ND		0.0500	0.0139	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
di-Isopropyl ether	ND		0.0500	0.0162	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
tert-Butanol	ND		1.00	0.710	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,4-Dioxane	ND		1.00	0.295	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,4-Dichloro-2-butene	ND		0.250	0.0330	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethanol	ND		10.0	0.860	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichloropropene, Total	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Xylenes, Total	ND		0.150	0.150	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.00	1.106		mg/Kg		111	70 - 130
Acetone	1.00	1.153		mg/Kg		115	70 - 130
Acrylonitrile	1.00	1.064		mg/Kg		106	70 - 130
Benzene	1.00	1.109		mg/Kg		111	70 - 130
Bromobenzene	1.00	1.042		mg/Kg		104	70 - 130
Bromochloromethane	1.00	1.120		mg/Kg		112	70 - 130
Bromodichloromethane	1.00	1.066		mg/Kg		107	70 - 130
Bromoform	1.00	1.084		mg/Kg		108	70 - 130
Bromomethane	1.00	0.9995		mg/Kg		100	70 - 130
2-Butanone (MEK)	1.00	1.154		mg/Kg		115	70 - 130
n-Butylbenzene	1.00	1.009		mg/Kg		101	70 - 130
sec-Butylbenzene	1.00	1.145		mg/Kg		115	70 - 130
tert-Butylbenzene	1.00	1.114		mg/Kg		111	70 - 130
Carbon disulfide	1.00	1.085		mg/Kg		108	70 - 130
Carbon tetrachloride	1.00	1.114		mg/Kg		111	70 - 130
Chlorobenzene	1.00	0.9928		mg/Kg		99	70 - 130
Chloroethane	1.00	1.056		mg/Kg		106	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	1.00	1.037		mg/Kg		104	70 - 130
Chloromethane	1.00	1.015		mg/Kg		102	70 - 130
2-Chlorotoluene	1.00	1.081		mg/Kg		108	70 - 130
4-Chlorotoluene	1.00	1.127		mg/Kg		113	70 - 130
1,2-Dibromo-3-Chloropropane	1.00	0.9423		mg/Kg		94	70 - 130
Dibromochloromethane	1.00	1.076		mg/Kg		108	70 - 130
1,2-Dibromoethane (EDB)	1.00	1.121		mg/Kg		112	70 - 130
Dibromomethane	1.00	1.077		mg/Kg		108	70 - 130
1,2-Dichlorobenzene	1.00	1.065		mg/Kg		107	70 - 130
1,3-Dichlorobenzene	1.00	1.100		mg/Kg		110	70 - 130
1,4-Dichlorobenzene	1.00	0.9312		mg/Kg		93	70 - 130
Dichlorodifluoromethane (Freon 12)	1.00	0.9875		mg/Kg		99	70 - 130
1,1-Dichloroethane	1.00	1.094		mg/Kg		109	70 - 130
1,2-Dichloroethane	1.00	1.066		mg/Kg		107	70 - 130
1,1-Dichloroethene	1.00	1.092		mg/Kg		109	70 - 130
cis-1,2-Dichloroethene	1.00	1.075		mg/Kg		108	70 - 130
trans-1,2-Dichloroethene	1.00	1.091		mg/Kg		109	70 - 130
1,2-Dichloropropane	1.00	1.070		mg/Kg		107	70 - 130
1,3-Dichloropropane	1.00	1.104		mg/Kg		110	70 - 130
2,2-Dichloropropane	1.00	1.099		mg/Kg		110	70 - 130
1,1-Dichloropropene	1.00	1.153		mg/Kg		115	70 - 130
cis-1,3-Dichloropropene	1.00	1.126		mg/Kg		113	70 - 130
trans-1,3-Dichloropropene	1.00	1.190		mg/Kg		119	70 - 130
Ethylbenzene	1.00	1.063		mg/Kg		106	70 - 130
Hexachlorobutadiene	1.00	1.005		mg/Kg		101	70 - 130
2-Hexanone (MBK)	1.00	1.097		mg/Kg		110	70 - 130
Isopropylbenzene	1.00	1.124		mg/Kg		112	70 - 130
4-Isopropyltoluene	1.00	0.9770		mg/Kg		98	70 - 130
Methyl tert-butyl ether	1.00	1.144		mg/Kg		114	70 - 130
4-Methyl-2-pentanone (MIBK)	1.00	1.125		mg/Kg		112	70 - 130
Methylene Chloride	1.00	1.055		mg/Kg		106	70 - 130
Naphthalene	1.00	0.9102		mg/Kg		91	70 - 130
N-Propylbenzene	1.00	1.120		mg/Kg		112	70 - 130
Styrene	1.00	0.9700		mg/Kg		97	70 - 130
1,1,1,2-Tetrachloroethane	1.00	1.032		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	1.00	1.013		mg/Kg		101	70 - 130
Tetrachloroethene	1.00	1.133		mg/Kg		113	70 - 130
Toluene	1.00	1.088		mg/Kg		109	70 - 130
1,2,3-Trichlorobenzene	1.00	1.092		mg/Kg		109	70 - 130
1,2,4-Trichlorobenzene	1.00	1.121		mg/Kg		112	70 - 130
1,3,5-Trichlorobenzene	1.00	1.123		mg/Kg		112	70 - 130
1,1,1-Trichloroethane	1.00	1.076		mg/Kg		108	70 - 130
1,1,2-Trichloroethane	1.00	1.073		mg/Kg		107	70 - 130
Trichloroethene	1.00	1.064		mg/Kg		106	70 - 130
Trichlorofluoromethane (Freon 11)	1.00	1.016		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	1.00	1.011		mg/Kg		101	70 - 130
1,2,4-Trimethylbenzene	1.00	1.013		mg/Kg		101	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,3,5-Trimethylbenzene			1.00	1.015		mg/Kg		101	70 - 130		
Vinyl chloride			1.00	0.8972		mg/Kg		90	70 - 130		
m,p-Xylene			1.00	1.135		mg/Kg		113	70 - 130		
o-Xylene			1.00	1.143		mg/Kg		114	70 - 130		
Tetrahydrofuran			1.00	0.9394		mg/Kg		94	70 - 130		
Ethyl ether			1.00	1.106		mg/Kg		111	70 - 130		
Tert-amyl methyl ether			1.00	1.121		mg/Kg		112	70 - 130		
Ethyl tert-butyl ether			1.00	1.144		mg/Kg		114	70 - 130		
di-Isopropyl ether			1.00	1.118		mg/Kg		112	70 - 130		
tert-Butanol			10.0	12.32		mg/Kg		123	70 - 130		
1,4-Dioxane			10.0	12.80		mg/Kg		128	70 - 130		
trans-1,4-Dichloro-2-butene			1.00	1.146		mg/Kg		115	70 - 130		
Ethanol			20.0	21.35		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			1.00	1.091		mg/Kg		109	70 - 130	1	30
Acetone			1.00	1.124		mg/Kg		112	70 - 130	2	30
Acrylonitrile			1.00	1.047		mg/Kg		105	70 - 130	2	30
Benzene			1.00	1.102		mg/Kg		110	70 - 130	1	30
Bromobenzene			1.00	1.044		mg/Kg		104	70 - 130	0	30
Bromochloromethane			1.00	1.139		mg/Kg		114	70 - 130	2	30
Bromodichloromethane			1.00	1.065		mg/Kg		107	70 - 130	0	30
Bromoform			1.00	1.073		mg/Kg		107	70 - 130	1	30
Bromomethane			1.00	1.013		mg/Kg		101	70 - 130	1	30
2-Butanone (MEK)			1.00	1.183		mg/Kg		118	70 - 130	2	30
n-Butylbenzene			1.00	0.9879		mg/Kg		99	70 - 130	2	30
sec-Butylbenzene			1.00	1.120		mg/Kg		112	70 - 130	2	30
tert-Butylbenzene			1.00	1.116		mg/Kg		112	70 - 130	0	30
Carbon disulfide			1.00	1.082		mg/Kg		108	70 - 130	0	30
Carbon tetrachloride			1.00	1.109		mg/Kg		111	70 - 130	0	30
Chlorobenzene			1.00	0.9760		mg/Kg		98	70 - 130	2	30
Chloroethane			1.00	1.061		mg/Kg		106	70 - 130	0	30
Chloroform			1.00	1.036		mg/Kg		104	70 - 130	0	30
Chloromethane			1.00	1.009		mg/Kg		101	70 - 130	1	30
2-Chlorotoluene			1.00	1.082		mg/Kg		108	70 - 130	0	30
4-Chlorotoluene			1.00	1.106		mg/Kg		111	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			1.00	0.9246		mg/Kg		92	70 - 130	2	30
Dibromochloromethane			1.00	1.085		mg/Kg		109	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			1.00	1.140		mg/Kg		114	70 - 130	2	30
Dibromomethane			1.00	1.087		mg/Kg		109	70 - 130	1	30
1,2-Dichlorobenzene			1.00	1.043		mg/Kg		104	70 - 130	2	30
1,3-Dichlorobenzene			1.00	1.088		mg/Kg		109	70 - 130	1	30
1,4-Dichlorobenzene			1.00	0.9230		mg/Kg		92	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)			1.00	0.9821		mg/Kg		98	70 - 130	1	30
1,1-Dichloroethane			1.00	1.092		mg/Kg		109	70 - 130	0	30
1,2-Dichloroethane			1.00	1.077		mg/Kg		108	70 - 130	1	30
1,1-Dichloroethene			1.00	1.090		mg/Kg		109	70 - 130	0	30
cis-1,2-Dichloroethene			1.00	1.102		mg/Kg		110	70 - 130	2	30
trans-1,2-Dichloroethene			1.00	1.112		mg/Kg		111	70 - 130	2	30
1,2-Dichloropropane			1.00	1.089		mg/Kg		109	70 - 130	2	30
1,3-Dichloropropane			1.00	1.118		mg/Kg		112	70 - 130	1	30
2,2-Dichloropropane			1.00	1.094		mg/Kg		109	70 - 130	0	30
1,1-Dichloropropene			1.00	1.148		mg/Kg		115	70 - 130	0	30
cis-1,3-Dichloropropene			1.00	1.154		mg/Kg		115	70 - 130	2	30
trans-1,3-Dichloropropene			1.00	1.211		mg/Kg		121	70 - 130	2	30
Ethylbenzene			1.00	1.036		mg/Kg		104	70 - 130	3	30
Hexachlorobutadiene			1.00	0.9825		mg/Kg		98	70 - 130	2	30
2-Hexanone (MBK)			1.00	1.089		mg/Kg		109	70 - 130	1	30
Isopropylbenzene			1.00	1.114		mg/Kg		111	70 - 130	1	30
4-Isopropyltoluene			1.00	0.9505		mg/Kg		95	70 - 130	3	30
Methyl tert-butyl ether			1.00	1.174		mg/Kg		117	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)			1.00	1.132		mg/Kg		113	70 - 130	1	30
Methylene Chloride			1.00	1.061		mg/Kg		106	70 - 130	1	30
Naphthalene			1.00	0.8998		mg/Kg		90	70 - 130	1	30
N-Propylbenzene			1.00	1.099		mg/Kg		110	70 - 130	2	30
Styrene			1.00	0.9803		mg/Kg		98	70 - 130	1	30
1,1,1,2-Tetrachloroethane			1.00	1.019		mg/Kg		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane			1.00	0.9997		mg/Kg		100	70 - 130	1	30
Tetrachloroethene			1.00	1.123		mg/Kg		112	70 - 130	1	30
Toluene			1.00	1.072		mg/Kg		107	70 - 130	2	30
1,2,3-Trichlorobenzene			1.00	1.075		mg/Kg		107	70 - 130	2	30
1,2,4-Trichlorobenzene			1.00	1.143		mg/Kg		114	70 - 130	2	30
1,3,5-Trichlorobenzene			1.00	1.124		mg/Kg		112	70 - 130	0	30
1,1,1-Trichloroethane			1.00	1.068		mg/Kg		107	70 - 130	1	30
1,1,2-Trichloroethane			1.00	1.086		mg/Kg		109	70 - 130	1	30
Trichloroethene			1.00	1.071		mg/Kg		107	70 - 130	1	30
Trichlorofluoromethane (Freon 11)			1.00	1.018		mg/Kg		102	70 - 130	0	30
1,2,3-Trichloropropane			1.00	0.9837		mg/Kg		98	70 - 130	3	30
1,2,4-Trimethylbenzene			1.00	0.9967		mg/Kg		100	70 - 130	2	30
1,3,5-Trimethylbenzene			1.00	0.9903		mg/Kg		99	70 - 130	2	30
Vinyl chloride			1.00	0.8813		mg/Kg		88	70 - 130	2	30
m,p-Xylene			1.00	1.109		mg/Kg		111	70 - 130	2	30
o-Xylene			1.00	1.127		mg/Kg		113	70 - 130	1	30
Tetrahydrofuran			1.00	0.9482		mg/Kg		95	70 - 130	1	30
Ethyl ether			1.00	1.112		mg/Kg		111	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tert-amyl methyl ether			1.00	1.145		mg/Kg		114	70 - 130	2	30
Ethyl tert-butyl ether			1.00	1.173		mg/Kg		117	70 - 130	3	30
di-Isopropyl ether			1.00	1.156		mg/Kg		116	70 - 130	3	30
tert-Butanol			10.0	12.41		mg/Kg		124	70 - 130	1	30
1,4-Dioxane			10.0	12.68		mg/Kg		127	70 - 130	1	30
trans-1,4-Dichloro-2-butene			1.00	1.136		mg/Kg		114	70 - 130	1	30
Ethanol			20.0	19.71		mg/Kg		99	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.12	1.207		mg/Kg	☼	108	70 - 130
Acetone	ND	F1 F2	1.12	1.483	F1	mg/Kg	☼	132	70 - 130
Acrylonitrile	ND		1.12	1.106		mg/Kg	☼	98	70 - 130
Benzene	ND		1.12	1.254		mg/Kg	☼	112	70 - 130
Bromobenzene	ND		1.12	1.096		mg/Kg	☼	98	70 - 130
Bromochloromethane	ND		1.12	1.253		mg/Kg	☼	112	70 - 130
Bromodichloromethane	ND		1.12	1.264		mg/Kg	☼	113	70 - 130
Bromoform	ND		1.12	1.120		mg/Kg	☼	100	70 - 130
Bromomethane	ND	F1	1.12	0.6812	F1	mg/Kg	☼	61	70 - 130
2-Butanone (MEK)	ND		1.12	1.212		mg/Kg	☼	108	70 - 130
n-Butylbenzene	ND		1.12	1.206		mg/Kg	☼	107	70 - 130
sec-Butylbenzene	ND		1.12	1.234		mg/Kg	☼	110	70 - 130
tert-Butylbenzene	ND		1.12	1.216		mg/Kg	☼	108	70 - 130
Carbon disulfide	ND		1.12	1.112		mg/Kg	☼	99	70 - 130
Carbon tetrachloride	ND		1.12	1.186		mg/Kg	☼	106	70 - 130
Chlorobenzene	ND		1.12	1.172		mg/Kg	☼	104	70 - 130
Chloroethane	ND	F1	1.12	0.2654	F1	mg/Kg	☼	24	70 - 130
Chloroform	ND		1.12	1.156		mg/Kg	☼	103	70 - 130
Chloromethane	ND		1.12	1.210		mg/Kg	☼	108	70 - 130
2-Chlorotoluene	ND		1.12	1.178		mg/Kg	☼	105	70 - 130
4-Chlorotoluene	ND		1.12	1.201		mg/Kg	☼	107	70 - 130
1,2-Dibromo-3-Chloropropane	ND		1.12	0.7903		mg/Kg	☼	70	70 - 130
Dibromochloromethane	ND		1.12	1.244		mg/Kg	☼	111	70 - 130
1,2-Dibromoethane (EDB)	ND		1.12	1.233		mg/Kg	☼	110	70 - 130
Dibromomethane	ND		1.12	1.212		mg/Kg	☼	108	70 - 130
1,2-Dichlorobenzene	ND		1.12	1.170		mg/Kg	☼	104	70 - 130
1,3-Dichlorobenzene	ND		1.12	1.200		mg/Kg	☼	107	70 - 130
1,4-Dichlorobenzene	ND		1.12	1.054		mg/Kg	☼	94	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MS **Client Sample ID: 2023-MW-01-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20323 **Prep Batch: 20322**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane (Freon 12)	ND		1.12	0.8894		mg/Kg	☼	79	70 - 130
1,1-Dichloroethane	ND		1.12	1.291		mg/Kg	☼	115	70 - 130
1,2-Dichloroethane	ND		1.12	1.157		mg/Kg	☼	103	70 - 130
1,1-Dichloroethene	ND		1.12	1.283		mg/Kg	☼	114	70 - 130
cis-1,2-Dichloroethene	ND		1.12	1.277		mg/Kg	☼	114	70 - 130
trans-1,2-Dichloroethene	ND		1.12	1.335		mg/Kg	☼	119	70 - 130
1,2-Dichloropropane	ND		1.12	1.324		mg/Kg	☼	118	70 - 130
1,3-Dichloropropane	ND		1.12	1.166		mg/Kg	☼	104	70 - 130
2,2-Dichloropropane	ND		1.12	1.206		mg/Kg	☼	107	70 - 130
1,1-Dichloropropene	ND		1.12	1.178		mg/Kg	☼	105	70 - 130
cis-1,3-Dichloropropene	ND		1.12	1.242		mg/Kg	☼	111	70 - 130
trans-1,3-Dichloropropene	ND		1.12	1.285		mg/Kg	☼	114	70 - 130
Ethylbenzene	ND		1.12	1.179		mg/Kg	☼	105	70 - 130
Hexachlorobutadiene	ND		1.12	1.130		mg/Kg	☼	101	70 - 130
2-Hexanone (MBK)	ND		1.12	0.9625		mg/Kg	☼	86	70 - 130
Isopropylbenzene	ND		1.12	1.183		mg/Kg	☼	105	70 - 130
4-Isopropyltoluene	ND		1.12	1.027		mg/Kg	☼	91	70 - 130
Methyl tert-butyl ether	ND		1.12	1.164		mg/Kg	☼	104	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		1.12	1.008		mg/Kg	☼	90	70 - 130
Methylene Chloride	ND		1.12	1.195		mg/Kg	☼	106	70 - 130
Naphthalene	ND		1.12	0.8519		mg/Kg	☼	76	70 - 130
N-Propylbenzene	ND		1.12	1.226		mg/Kg	☼	109	70 - 130
Styrene	ND		1.12	1.074		mg/Kg	☼	96	70 - 130
1,1,1,2-Tetrachloroethane	ND		1.12	1.105		mg/Kg	☼	98	70 - 130
1,1,2,2-Tetrachloroethane	ND		1.12	1.063		mg/Kg	☼	95	70 - 130
Tetrachloroethene	ND		1.12	1.255		mg/Kg	☼	112	70 - 130
Toluene	ND		1.12	1.219		mg/Kg	☼	109	70 - 130
1,2,3-Trichlorobenzene	ND		1.12	1.037		mg/Kg	☼	92	70 - 130
1,2,4-Trichlorobenzene	ND		1.12	1.241		mg/Kg	☼	111	70 - 130
1,3,5-Trichlorobenzene	ND		1.12	1.289		mg/Kg	☼	115	70 - 130
1,1,1-Trichloroethane	ND		1.12	1.193		mg/Kg	☼	106	70 - 130
1,1,2-Trichloroethane	ND		1.12	1.270		mg/Kg	☼	113	70 - 130
Trichloroethene	ND		1.12	1.110		mg/Kg	☼	99	70 - 130
Trichlorofluoromethane (Freon 11)	ND	F1 F2	1.12	0.3689	F1	mg/Kg	☼	33	70 - 130
1,2,3-Trichloropropane	ND		1.12	0.9521		mg/Kg	☼	85	70 - 130
1,2,4-Trimethylbenzene	ND		1.12	1.097		mg/Kg	☼	98	70 - 130
1,3,5-Trimethylbenzene	ND		1.12	1.089		mg/Kg	☼	97	70 - 130
Vinyl chloride	ND		1.12	0.9156		mg/Kg	☼	82	70 - 130
m,p-Xylene	ND		2.25	2.669		mg/Kg	☼	119	70 - 130
o-Xylene	ND		1.12	1.279		mg/Kg	☼	114	70 - 130
Tetrahydrofuran	ND		1.12	0.9108		mg/Kg	☼	81	70 - 130
Ethyl ether	ND		1.12	1.129		mg/Kg	☼	101	70 - 130
Tert-amyl methyl ether	ND		1.12	1.184		mg/Kg	☼	105	70 - 130
Ethyl tert-butyl ether	ND		1.12	1.206		mg/Kg	☼	107	70 - 130
di-Isopropyl ether	ND		1.12	1.200		mg/Kg	☼	107	70 - 130
tert-Butanol	ND	F1	11.2	7.662	F1	mg/Kg	☼	68	70 - 130
1,4-Dioxane	ND		11.2	9.516		mg/Kg	☼	85	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,4-Dichloro-2-butene	ND		1.12	1.207		mg/Kg	☼	107	70 - 130
Ethanol	ND	F1	22.5	14.25	F1	mg/Kg	☼	63	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.07	1.078		mg/Kg	☼	101	70 - 130	11	30
Acetone	ND	F1 F2	1.07	1.044	F2	mg/Kg	☼	98	70 - 130	35	30
Acrylonitrile	ND		1.07	1.096		mg/Kg	☼	102	70 - 130	1	30
Benzene	ND		1.07	1.152		mg/Kg	☼	108	70 - 130	8	30
Bromobenzene	ND		1.07	1.032		mg/Kg	☼	96	70 - 130	6	30
Bromochloromethane	ND		1.07	1.146		mg/Kg	☼	107	70 - 130	9	30
Bromodichloromethane	ND		1.07	1.168		mg/Kg	☼	109	70 - 130	8	30
Bromoform	ND		1.07	1.053		mg/Kg	☼	98	70 - 130	6	30
Bromomethane	ND	F1	1.07	0.6560	F1	mg/Kg	☼	61	70 - 130	4	30
2-Butanone (MEK)	ND		1.07	1.207		mg/Kg	☼	113	70 - 130	0	30
n-Butylbenzene	ND		1.07	1.153		mg/Kg	☼	108	70 - 130	5	30
sec-Butylbenzene	ND		1.07	1.158		mg/Kg	☼	108	70 - 130	6	30
tert-Butylbenzene	ND		1.07	1.150		mg/Kg	☼	107	70 - 130	6	30
Carbon disulfide	ND		1.07	1.014		mg/Kg	☼	95	70 - 130	9	30
Carbon tetrachloride	ND		1.07	1.084		mg/Kg	☼	101	70 - 130	9	30
Chlorobenzene	ND		1.07	1.102		mg/Kg	☼	103	70 - 130	6	30
Chloroethane	ND	F1	1.07	0.2146	F1	mg/Kg	☼	20	70 - 130	21	30
Chloroform	ND		1.07	1.063		mg/Kg	☼	99	70 - 130	8	30
Chloromethane	ND		1.07	1.136		mg/Kg	☼	106	70 - 130	6	30
2-Chlorotoluene	ND		1.07	1.113		mg/Kg	☼	104	70 - 130	6	30
4-Chlorotoluene	ND		1.07	1.129		mg/Kg	☼	106	70 - 130	6	30
1,2-Dibromo-3-Chloropropane	ND		1.07	0.7989		mg/Kg	☼	75	70 - 130	1	30
Dibromochloromethane	ND		1.07	1.145		mg/Kg	☼	107	70 - 130	8	30
1,2-Dibromoethane (EDB)	ND		1.07	1.160		mg/Kg	☼	108	70 - 130	6	30
Dibromomethane	ND		1.07	1.110		mg/Kg	☼	104	70 - 130	9	30
1,2-Dichlorobenzene	ND		1.07	1.123		mg/Kg	☼	105	70 - 130	4	30
1,3-Dichlorobenzene	ND		1.07	1.120		mg/Kg	☼	105	70 - 130	7	30
1,4-Dichlorobenzene	ND		1.07	1.007		mg/Kg	☼	94	70 - 130	5	30
Dichlorodifluoromethane (Freon 12)	ND		1.07	0.8034		mg/Kg	☼	75	70 - 130	10	30
1,1-Dichloroethane	ND		1.07	1.164		mg/Kg	☼	109	70 - 130	10	30
1,2-Dichloroethane	ND		1.07	1.048		mg/Kg	☼	98	70 - 130	10	30
1,1-Dichloroethene	ND		1.07	1.184		mg/Kg	☼	111	70 - 130	8	30
cis-1,2-Dichloroethene	ND		1.07	1.202		mg/Kg	☼	112	70 - 130	6	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	ND		1.07	1.252		mg/Kg	☼	117	70 - 130	6	30
1,2-Dichloropropane	ND		1.07	1.226		mg/Kg	☼	115	70 - 130	8	30
1,3-Dichloropropane	ND		1.07	1.083		mg/Kg	☼	101	70 - 130	7	30
2,2-Dichloropropane	ND		1.07	1.110		mg/Kg	☼	104	70 - 130	8	30
1,1-Dichloropropene	ND		1.07	1.085		mg/Kg	☼	101	70 - 130	8	30
cis-1,3-Dichloropropene	ND		1.07	1.166		mg/Kg	☼	109	70 - 130	6	30
trans-1,3-Dichloropropene	ND		1.07	1.199		mg/Kg	☼	112	70 - 130	7	30
Ethylbenzene	ND		1.07	1.103		mg/Kg	☼	103	70 - 130	7	30
Hexachlorobutadiene	ND		1.07	1.082		mg/Kg	☼	101	70 - 130	4	30
2-Hexanone (MBK)	ND		1.07	0.9488		mg/Kg	☼	89	70 - 130	1	30
Isopropylbenzene	ND		1.07	1.134		mg/Kg	☼	106	70 - 130	4	30
4-Isopropyltoluene	ND		1.07	1.008		mg/Kg	☼	94	70 - 130	2	30
Methyl tert-butyl ether	ND		1.07	1.108		mg/Kg	☼	104	70 - 130	5	30
4-Methyl-2-pentanone (MIBK)	ND		1.07	1.005		mg/Kg	☼	94	70 - 130	0	30
Methylene Chloride	ND		1.07	1.094		mg/Kg	☼	102	70 - 130	9	30
Naphthalene	ND		1.07	0.8892		mg/Kg	☼	83	70 - 130	4	30
N-Propylbenzene	ND		1.07	1.149		mg/Kg	☼	107	70 - 130	7	30
Styrene	ND		1.07	1.021		mg/Kg	☼	95	70 - 130	5	30
1,1,1,2-Tetrachloroethane	ND		1.07	1.024		mg/Kg	☼	96	70 - 130	8	30
1,1,2,2-Tetrachloroethane	ND		1.07	1.009		mg/Kg	☼	94	70 - 130	5	30
Tetrachloroethene	ND		1.07	1.173		mg/Kg	☼	110	70 - 130	7	30
Toluene	ND		1.07	1.118		mg/Kg	☼	104	70 - 130	9	30
1,2,3-Trichlorobenzene	ND		1.07	1.049		mg/Kg	☼	98	70 - 130	1	30
1,2,4-Trichlorobenzene	ND		1.07	1.219		mg/Kg	☼	114	70 - 130	2	30
1,3,5-Trichlorobenzene	ND		1.07	1.229		mg/Kg	☼	115	70 - 130	5	30
1,1,1-Trichloroethane	ND		1.07	1.098		mg/Kg	☼	103	70 - 130	8	30
1,1,2-Trichloroethane	ND		1.07	1.169		mg/Kg	☼	109	70 - 130	8	30
Trichloroethene	ND		1.07	1.010		mg/Kg	☼	94	70 - 130	9	30
Trichlorofluoromethane (Freon 11)	ND	F1 F2	1.07	0.2701	F1 F2	mg/Kg	☼	25	70 - 130	31	30
1,2,3-Trichloropropane	ND		1.07	0.9037		mg/Kg	☼	84	70 - 130	5	30
1,2,4-Trimethylbenzene	ND		1.07	1.041		mg/Kg	☼	97	70 - 130	5	30
1,3,5-Trimethylbenzene	ND		1.07	1.030		mg/Kg	☼	96	70 - 130	6	30
Vinyl chloride	ND		1.07	0.8772		mg/Kg	☼	82	70 - 130	4	30
m,p-Xylene	ND		2.14	2.502		mg/Kg	☼	117	70 - 130	6	30
o-Xylene	ND		1.07	1.217		mg/Kg	☼	114	70 - 130	5	30
Tetrahydrofuran	ND		1.07	0.9101		mg/Kg	☼	85	70 - 130	0	30
Ethyl ether	ND		1.07	1.045		mg/Kg	☼	98	70 - 130	8	30
Tert-amyl methyl ether	ND		1.07	1.119		mg/Kg	☼	105	70 - 130	6	30
Ethyl tert-butyl ether	ND		1.07	1.154		mg/Kg	☼	108	70 - 130	4	30
di-Isopropyl ether	ND		1.07	1.127		mg/Kg	☼	105	70 - 130	6	30
tert-Butanol	ND	F1	10.7	7.498		mg/Kg	☼	70	70 - 130	2	30
1,4-Dioxane	ND		10.7	10.59		mg/Kg	☼	99	70 - 130	11	30
trans-1,4-Dichloro-2-butene	ND		1.07	1.114		mg/Kg	☼	104	70 - 130	8	30
Ethanol	ND	F1	21.4	13.37	F1	mg/Kg	☼	62	70 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acetone	0.02699	J	0.0500	0.0112	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01999		mg/Kg		100	70 - 130
Acetone	0.0200	0.01764	J	mg/Kg		88	70 - 130
Acrylonitrile	0.0200	0.01974		mg/Kg		99	70 - 130
Benzene	0.0200	0.02049		mg/Kg		102	70 - 130
Bromobenzene	0.0200	0.01990		mg/Kg		100	70 - 130
Bromochloromethane	0.0200	0.02008		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.01974		mg/Kg		99	70 - 130
Bromoform	0.0200	0.02004		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02232		mg/Kg		112	70 - 130
2-Butanone (MEK)	0.0200	0.01883		mg/Kg		94	70 - 130
n-Butylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
sec-Butylbenzene	0.0200	0.02100		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0200	0.01988		mg/Kg		99	70 - 130
Carbon disulfide	0.0200	0.02084		mg/Kg		104	70 - 130
Carbon tetrachloride	0.0200	0.01948		mg/Kg		97	70 - 130
Chlorobenzene	0.0200	0.02049		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.02218		mg/Kg		111	70 - 130
Chloroform	0.0200	0.02035		mg/Kg		102	70 - 130
Chloromethane	0.0200	0.01937		mg/Kg		97	70 - 130
2-Chlorotoluene	0.0200	0.02091		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02002		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.01989		mg/Kg		99	70 - 130
1,2-Dichlorobenzene	0.0200	0.02019		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02098		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02058		mg/Kg		103	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01662		mg/Kg		83	70 - 130
1,1-Dichloroethane	0.0200	0.01992		mg/Kg		100	70 - 130
1,2-Dichloroethane	0.0200	0.01955		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01916		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01938		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.01916		mg/Kg		96	70 - 130
1,3-Dichloropropane	0.0200	0.02057		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01874		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01903		mg/Kg		95	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01846		mg/Kg		92	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01971		mg/Kg		99	70 - 130
Ethylbenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Hexachlorobutadiene	0.0200	0.01850		mg/Kg		93	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
4-Isopropyltoluene	0.0200	0.01938		mg/Kg		97	70 - 130
Methyl tert-butyl ether	0.0200	0.01825		mg/Kg		91	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01719		mg/Kg		86	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130
Naphthalene	0.0200	0.02003		mg/Kg		100	70 - 130
N-Propylbenzene	0.0200	0.02091		mg/Kg		105	70 - 130
Styrene	0.0200	0.02054		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02172		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01869		mg/Kg		93	70 - 130
Toluene	0.0200	0.02058		mg/Kg		103	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01954		mg/Kg		98	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01966		mg/Kg		98	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01991		mg/Kg		100	70 - 130
1,1,1-Trichloroethane	0.0200	0.01933		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0200	0.02138		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02068		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01910		mg/Kg		95	70 - 130
1,2,3-Trichloropropane	0.0200	0.02101		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02072		mg/Kg		104	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02044		mg/Kg		102	70 - 130
Vinyl chloride	0.0200	0.01947		mg/Kg		97	70 - 130
m,p-Xylene	0.0200	0.01982		mg/Kg		99	70 - 130
o-Xylene	0.0200	0.01928		mg/Kg		96	70 - 130
Tetrahydrofuran	0.0200	0.01673		mg/Kg		84	70 - 130
Ethyl ether	0.0200	0.01904		mg/Kg		95	70 - 130
Tert-amyl methyl ether	0.0200	0.01763		mg/Kg		88	70 - 130
Ethyl tert-butyl ether	0.0200	0.01748		mg/Kg		87	70 - 130
di-Isopropyl ether	0.0200	0.01755		mg/Kg		88	70 - 130
tert-Butanol	0.200	0.1754		mg/Kg		88	70 - 130
1,4-Dioxane	0.200	0.1699		mg/Kg		85	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02037	J	mg/Kg		102	70 - 130
Ethanol	0.400	0.4083	J	mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
Acetone	0.0200	0.02125	J	mg/Kg		106	70 - 130	19	30
Acrylonitrile	0.0200	0.02073		mg/Kg		104	70 - 130	5	30
Benzene	0.0200	0.02034		mg/Kg		102	70 - 130	1	30
Bromobenzene	0.0200	0.01934		mg/Kg		97	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane			0.0200	0.02001		mg/Kg		100	70 - 130	0	30
Bromodichloromethane			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Bromoform			0.0200	0.01998		mg/Kg		100	70 - 130	0	30
Bromomethane			0.0200	0.02216		mg/Kg		111	70 - 130	1	30
2-Butanone (MEK)			0.0200	0.02057		mg/Kg		103	70 - 130	9	30
n-Butylbenzene			0.0200	0.01974		mg/Kg		99	70 - 130	0	30
sec-Butylbenzene			0.0200	0.02023		mg/Kg		101	70 - 130	4	30
tert-Butylbenzene			0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Carbon disulfide			0.0200	0.02062		mg/Kg		103	70 - 130	1	30
Carbon tetrachloride			0.0200	0.01930		mg/Kg		96	70 - 130	1	30
Chlorobenzene			0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Chloroethane			0.0200	0.02316		mg/Kg		116	70 - 130	4	30
Chloroform			0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloromethane			0.0200	0.01938		mg/Kg		97	70 - 130	0	30
2-Chlorotoluene			0.0200	0.01922		mg/Kg		96	70 - 130	8	30
4-Chlorotoluene			0.0200	0.02018		mg/Kg		101	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Dibromochloromethane			0.0200	0.02003		mg/Kg		100	70 - 130	0	30
1,2-Dibromoethane (EDB)			0.0200	0.02050		mg/Kg		103	70 - 130	2	30
Dibromomethane			0.0200	0.02024		mg/Kg		101	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02011		mg/Kg		101	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.02043		mg/Kg		102	70 - 130	3	30
1,4-Dichlorobenzene			0.0200	0.01993		mg/Kg		100	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01643		mg/Kg		82	70 - 130	1	30
1,1-Dichloroethane			0.0200	0.01996		mg/Kg		100	70 - 130	0	30
1,2-Dichloroethane			0.0200	0.01943		mg/Kg		97	70 - 130	1	30
1,1-Dichloroethene			0.0200	0.01925		mg/Kg		96	70 - 130	0	30
cis-1,2-Dichloroethene			0.0200	0.01915		mg/Kg		96	70 - 130	1	30
trans-1,2-Dichloroethene			0.0200	0.01933		mg/Kg		97	70 - 130	0	30
1,2-Dichloropropane			0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3-Dichloropropane			0.0200	0.02026		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane			0.0200	0.01859		mg/Kg		93	70 - 130	1	30
1,1-Dichloropropene			0.0200	0.01904		mg/Kg		95	70 - 130	0	30
cis-1,3-Dichloropropene			0.0200	0.01863		mg/Kg		93	70 - 130	1	30
trans-1,3-Dichloropropene			0.0200	0.02004		mg/Kg		100	70 - 130	2	30
Ethylbenzene			0.0200	0.01993		mg/Kg		100	70 - 130	4	30
Hexachlorobutadiene			0.0200	0.01892		mg/Kg		95	70 - 130	2	30
2-Hexanone (MBK)			0.0200	0.01777		mg/Kg		89	70 - 130	8	30
Isopropylbenzene			0.0200	0.01954		mg/Kg		98	70 - 130	1	30
4-Isopropyltoluene			0.0200	0.01909		mg/Kg		95	70 - 130	2	30
Methyl tert-butyl ether			0.0200	0.01870		mg/Kg		93	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.01816		mg/Kg		91	70 - 130	6	30
Methylene Chloride			0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Naphthalene			0.0200	0.02173		mg/Kg		109	70 - 130	8	30
N-Propylbenzene			0.0200	0.02026		mg/Kg		101	70 - 130	3	30
Styrene			0.0200	0.02016		mg/Kg		101	70 - 130	2	30
1,1,1,2-Tetrachloroethane			0.0200	0.01989		mg/Kg		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane			0.0200	0.02216		mg/Kg		111	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene			0.0200	0.01808		mg/Kg		90	70 - 130	3	30
Toluene			0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,2,3-Trichlorobenzene			0.0200	0.02039		mg/Kg		102	70 - 130	4	30
1,2,4-Trichlorobenzene			0.0200	0.02030		mg/Kg		101	70 - 130	3	30
1,3,5-Trichlorobenzene			0.0200	0.02008		mg/Kg		100	70 - 130	1	30
1,1,1-Trichloroethane			0.0200	0.01923		mg/Kg		96	70 - 130	1	30
1,1,2-Trichloroethane			0.0200	0.02106		mg/Kg		105	70 - 130	1	30
Trichloroethene			0.0200	0.01959		mg/Kg		98	70 - 130	5	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01868		mg/Kg		93	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02133		mg/Kg		107	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02025		mg/Kg		101	70 - 130	2	30
1,3,5-Trimethylbenzene			0.0200	0.01990		mg/Kg		99	70 - 130	3	30
Vinyl chloride			0.0200	0.01934		mg/Kg		97	70 - 130	1	30
m,p-Xylene			0.0200	0.01933		mg/Kg		97	70 - 130	2	30
o-Xylene			0.0200	0.01913		mg/Kg		96	70 - 130	1	30
Tetrahydrofuran			0.0200	0.01835		mg/Kg		92	70 - 130	9	30
Ethyl ether			0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Tert-amyl methyl ether			0.0200	0.01803		mg/Kg		90	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01797		mg/Kg		90	70 - 130	3	30
di-Isopropyl ether			0.0200	0.01826		mg/Kg		91	70 - 130	4	30
tert-Butanol			0.200	0.1724		mg/Kg		86	70 - 130	2	30
1,4-Dioxane			0.200	0.1765		mg/Kg		88	70 - 130	4	30
trans-1,4-Dichloro-2-butene			0.0200	0.02041	J	mg/Kg		102	70 - 130	0	30
Ethanol			0.400	0.3934	J	mg/Kg		98	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0221	0.02824		mg/Kg	☼	128	70 - 130	10	30
Acetone	ND		0.0221	0.02196	J	mg/Kg	☼	99	70 - 130	25	30
Acrylonitrile	ND		0.0221	0.02668		mg/Kg	☼	121	70 - 130	8	30
Benzene	ND		0.0221	0.02742		mg/Kg	☼	124	70 - 130	16	30
Bromobenzene	ND		0.0221	0.02466		mg/Kg	☼	112	70 - 130	11	30
Bromochloromethane	ND		0.0221	0.02733		mg/Kg	☼	124	70 - 130	11	30
Bromodichloromethane	ND		0.0221	0.02854		mg/Kg	☼	129	70 - 130	16	30
Bromoform	ND		0.0221	0.02756		mg/Kg	☼	125	70 - 130	12	30
Bromomethane	ND		0.0221	0.02499		mg/Kg	☼	113	70 - 130	12	30
2-Butanone (MEK)	ND		0.0221	0.02183	F2	mg/Kg	☼	99	70 - 130	35	30
n-Butylbenzene	ND		0.0221	0.02614		mg/Kg	☼	118	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	ND		0.0221	0.02616		mg/Kg	☼	118	70 - 130	6	30
tert-Butylbenzene	ND		0.0221	0.02472		mg/Kg	☼	112	70 - 130	11	30
Carbon disulfide	ND		0.0221	0.02703		mg/Kg	☼	122	70 - 130	14	30
Carbon tetrachloride	ND		0.0221	0.02644		mg/Kg	☼	120	70 - 130	15	30
Chlorobenzene	ND		0.0221	0.02974	F1	mg/Kg	☼	135	70 - 130	13	30
Chloroethane	ND		0.0221	0.02940	F1	mg/Kg	☼	133	70 - 130	10	30
Chloroform	ND		0.0221	0.02581		mg/Kg	☼	117	70 - 130	17	30
Chloromethane	ND		0.0221	0.02595		mg/Kg	☼	117	70 - 130	20	30
2-Chlorotoluene	ND		0.0221	0.02577		mg/Kg	☼	117	70 - 130	9	30
4-Chlorotoluene	ND		0.0221	0.02651		mg/Kg	☼	120	70 - 130	10	30
1,2-Dibromo-3-Chloropropane	ND		0.0221	0.02436		mg/Kg	☼	110	70 - 130	8	30
Dibromochloromethane	ND		0.0221	0.02808		mg/Kg	☼	127	70 - 130	14	30
1,2-Dibromoethane (EDB)	ND		0.0221	0.02636		mg/Kg	☼	119	70 - 130	15	30
Dibromomethane	ND		0.0221	0.02772		mg/Kg	☼	125	70 - 130	12	30
1,2-Dichlorobenzene	ND		0.0221	0.02596		mg/Kg	☼	117	70 - 130	10	30
1,3-Dichlorobenzene	ND		0.0221	0.02610		mg/Kg	☼	118	70 - 130	7	30
1,4-Dichlorobenzene	ND		0.0221	0.02635		mg/Kg	☼	119	70 - 130	14	30
Dichlorodifluoromethane (Freon 12)	ND		0.0221	0.01945		mg/Kg	☼	88	70 - 130	16	30
1,1-Dichloroethane	ND		0.0221	0.02675		mg/Kg	☼	121	70 - 130	21	30
1,2-Dichloroethane	ND		0.0221	0.02400		mg/Kg	☼	109	70 - 130	19	30
1,1-Dichloroethene	ND		0.0221	0.02893	F1	mg/Kg	☼	131	70 - 130	9	30
cis-1,2-Dichloroethene	ND		0.0221	0.02683		mg/Kg	☼	121	70 - 130	15	30
trans-1,2-Dichloroethene	ND		0.0221	0.02822		mg/Kg	☼	128	70 - 130	15	30
1,2-Dichloropropane	ND		0.0221	0.02818		mg/Kg	☼	127	70 - 130	17	30
1,3-Dichloropropane	ND		0.0221	0.02508		mg/Kg	☼	113	70 - 130	15	30
2,2-Dichloropropane	ND		0.0221	0.02475		mg/Kg	☼	112	70 - 130	17	30
1,1-Dichloropropene	ND		0.0221	0.02368		mg/Kg	☼	107	70 - 130	14	30
cis-1,3-Dichloropropene	ND		0.0221	0.02313		mg/Kg	☼	105	70 - 130	17	30
trans-1,3-Dichloropropene	ND		0.0221	0.02527		mg/Kg	☼	114	70 - 130	17	30
Ethylbenzene	ND		0.0221	0.02864		mg/Kg	☼	130	70 - 130	11	30
Hexachlorobutadiene	ND	F1	0.0221	0.01798		mg/Kg	☼	81	70 - 130	14	30
2-Hexanone (MBK)	ND		0.0221	0.02041		mg/Kg	☼	92	70 - 130	16	30
Isopropylbenzene	ND		0.0221	0.02584		mg/Kg	☼	117	70 - 130	10	30
4-Isopropyltoluene	ND		0.0221	0.02419		mg/Kg	☼	109	70 - 130	8	30
Methyl tert-butyl ether	ND		0.0221	0.02146		mg/Kg	☼	97	70 - 130	16	30
4-Methyl-2-pentanone (MIBK)	ND		0.0221	0.02238		mg/Kg	☼	101	70 - 130	12	30
Methylene Chloride	ND		0.0221	0.02585		mg/Kg	☼	117	70 - 130	20	30
Naphthalene	ND	F1	0.0221	0.01837		mg/Kg	☼	83	70 - 130	2	30
N-Propylbenzene	ND		0.0221	0.02788		mg/Kg	☼	126	70 - 130	9	30
Styrene	ND		0.0221	0.02704		mg/Kg	☼	122	70 - 130	12	30
1,1,1,2-Tetrachloroethane	ND		0.0221	0.02681		mg/Kg	☼	121	70 - 130	11	30
1,1,2,2-Tetrachloroethane	ND		0.0221	0.03162	F1	mg/Kg	☼	143	70 - 130	10	30
Tetrachloroethene	ND		0.0221	0.02563		mg/Kg	☼	116	70 - 130	12	30
Toluene	ND		0.0221	0.02782		mg/Kg	☼	126	70 - 130	16	30
1,2,3-Trichlorobenzene	ND	F1	0.0221	0.01835		mg/Kg	☼	83	70 - 130	7	30
1,2,4-Trichlorobenzene	ND	F1	0.0221	0.01955		mg/Kg	☼	88	70 - 130	12	30
1,3,5-Trichlorobenzene	ND		0.0221	0.02122		mg/Kg	☼	96	70 - 130	2	30
1,1,1-Trichloroethane	ND		0.0221	0.02618		mg/Kg	☼	118	70 - 130	16	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD **Client Sample ID: 2023-SB-15-0002'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20328 **Prep Batch: 20327**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		0.0221	0.02952	F1	mg/Kg	☼	134	70 - 130	19	30
Trichloroethene	ND		0.0221	0.02589		mg/Kg	☼	117	70 - 130	14	30
Trichlorofluoromethane (Freon 11)	ND		0.0221	0.02839		mg/Kg	☼	128	70 - 130	11	30
1,2,3-Trichloropropane	ND		0.0221	0.02771		mg/Kg	☼	125	70 - 130	9	30
1,2,4-Trimethylbenzene	ND		0.0221	0.02635		mg/Kg	☼	119	70 - 130	7	30
1,3,5-Trimethylbenzene	ND		0.0221	0.02654		mg/Kg	☼	120	70 - 130	8	30
Vinyl chloride	ND		0.0221	0.02658		mg/Kg	☼	120	70 - 130	13	30
m,p-Xylene	ND		0.0442	0.05799	F1	mg/Kg	☼	131	70 - 130	11	30
o-Xylene	ND		0.0221	0.02611		mg/Kg	☼	118	70 - 130	12	30
Tetrahydrofuran	ND		0.0221	0.02149		mg/Kg	☼	97	70 - 130	18	30
Ethyl ether	ND		0.0221	0.02198		mg/Kg	☼	99	70 - 130	16	30
Tert-amyl methyl ether	ND		0.0221	0.02191		mg/Kg	☼	99	70 - 130	16	30
Ethyl tert-butyl ether	ND		0.0221	0.02030		mg/Kg	☼	92	70 - 130	18	30
di-Isopropyl ether	ND		0.0221	0.01989		mg/Kg	☼	90	70 - 130	20	30
tert-Butanol	ND		0.221	0.2583		mg/Kg	☼	117	70 - 130	12	30
1,4-Dioxane	ND		0.221	0.2774		mg/Kg	☼	126	70 - 130	3	30
trans-1,4-Dichloro-2-butene	ND		0.0221	0.02751	J	mg/Kg	☼	124	70 - 130	17	30
Ethanol	ND		0.442	0.5588	J	mg/Kg	☼	126	70 - 130	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20241/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20349 **Prep Batch: 20241**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/03/23 08:01	03/08/23 12:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20241/1-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Aniline	ND		0.330	0.0253	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/03/23 08:01	03/08/23 12:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20241/1-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pentachlorophenol	0.2140	J	0.330	0.135	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Phenol	ND		0.330	0.0680	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/03/23 08:01	03/08/23 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
Nitrobenzene-d5 (Surr)	*49*		*30 - 130*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
Phenol-d5 (Surr)	*61*		*15 - 110*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*15 - 110*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
Terphenyl-d14	*74*		*30 - 130*	*03/03/23 08:01*	*03/08/23 12:05*	*1*

Lab Sample ID: LCS 620-20241/2-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9144		mg/Kg		55	40 - 140
1,2,4-Trichlorobenzene	1.67	1.108		mg/Kg		67	40 - 140
1,2-Dichlorobenzene	1.67	1.299		mg/Kg		78	40 - 140
1,3-Dichlorobenzene	1.67	1.332		mg/Kg		80	40 - 140
1,4-Dichlorobenzene	1.67	1.319		mg/Kg		79	40 - 140
1-Methylnaphthalene	1.67	1.522		mg/Kg		91	40 - 140
2,4,5-Trichlorophenol	1.67	1.375		mg/Kg		82	30 - 130
2,4,6-Trichlorophenol	1.67	1.383		mg/Kg		83	30 - 130
2,4-Dichlorophenol	1.67	1.210		mg/Kg		73	30 - 130
2,4-Dimethylphenol	1.67	1.125		mg/Kg		68	30 - 130
2,4-Dinitrophenol	1.67	1.532		mg/Kg		92	30 - 130
2,4-Dinitrotoluene	1.67	1.467		mg/Kg		88	40 - 140
2,6-Dinitrotoluene	1.67	1.473		mg/Kg		88	40 - 140
2-Chloronaphthalene	1.67	1.396		mg/Kg		84	40 - 140
2-Chlorophenol	1.67	1.396		mg/Kg		84	30 - 130
2-Methylnaphthalene	1.67	1.338		mg/Kg		80	40 - 140
2-Methylphenol	1.67	1.363		mg/Kg		82	30 - 130
2-Nitroaniline	1.67	1.547		mg/Kg		93	40 - 140
2-Nitrophenol	1.67	1.320		mg/Kg		79	30 - 130
3 & 4 Methylphenol	1.67	1.307		mg/Kg		78	30 - 130
3,3'-Dichlorobenzidine	1.67	1.724		mg/Kg		103	40 - 140
3-Nitroaniline	1.67	1.127		mg/Kg		68	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.217		mg/Kg		73	30 - 130
4-Bromophenyl phenyl ether	1.67	1.300		mg/Kg		78	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20241/2-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	1.67	1.122		mg/Kg		67	30 - 130
4-Chloroaniline	1.67	0.7149		mg/Kg		43	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.198		mg/Kg		72	40 - 140
4-Nitroaniline	1.67	1.491		mg/Kg		89	40 - 140
4-Nitrophenol	1.67	1.451		mg/Kg		87	30 - 130
Acenaphthene	1.67	1.384		mg/Kg		83	40 - 140
Acenaphthylene	1.67	1.389		mg/Kg		83	40 - 140
Acetophenone	1.67	1.356		mg/Kg		81	40 - 140
Aniline	1.67	0.8637		mg/Kg		52	40 - 140
Anthracene	1.67	1.733		mg/Kg		104	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.344		mg/Kg		81	40 - 140
Benzidine	1.67	0.3701	J *-	mg/Kg		22	40 - 140
Benzo[a]anthracene	1.67	1.623		mg/Kg		97	40 - 140
Benzo[a]pyrene	1.67	1.477		mg/Kg		89	40 - 140
Benzo[b]fluoranthene	1.67	1.710		mg/Kg		103	40 - 140
Benzo[g,h,i]perylene	1.67	1.431		mg/Kg		86	40 - 140
Benzo[k]fluoranthene	1.67	1.286		mg/Kg		77	40 - 140
Benzoic acid	1.67	0.8251		mg/Kg		50	30 - 130
Benzyl alcohol	1.67	0.9626		mg/Kg		58	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.072		mg/Kg		64	40 - 140
Bis(2-chloroethyl)ether	1.67	1.077		mg/Kg		65	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.296		mg/Kg		78	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.996		mg/Kg		120	40 - 140
Butyl benzyl phthalate	1.67	1.808		mg/Kg		108	40 - 140
Carbazole	1.67	1.629		mg/Kg		98	40 - 140
Chrysene	1.67	1.581		mg/Kg		95	40 - 140
Dibenz(a,h)anthracene	1.67	1.398		mg/Kg		84	40 - 140
Dibenzofuran	1.67	1.391		mg/Kg		83	40 - 140
Diethyl phthalate	1.67	1.446		mg/Kg		87	40 - 140
Dimethyl phthalate	1.67	1.556		mg/Kg		93	40 - 140
Di-n-butyl phthalate	1.67	1.899		mg/Kg		114	40 - 140
Di-n-octyl phthalate	1.67	1.988		mg/Kg		119	40 - 140
Fluoranthene	1.67	1.557		mg/Kg		93	40 - 140
Fluorene	1.67	1.297		mg/Kg		78	40 - 140
Hexachlorobenzene	1.67	1.370		mg/Kg		82	40 - 140
Hexachlorobutadiene	1.67	0.8794		mg/Kg		53	40 - 140
Hexachlorocyclopentadiene	1.67	1.228		mg/Kg		74	40 - 140
Hexachloroethane	1.67	1.136		mg/Kg		68	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.320		mg/Kg		79	40 - 140
Isophorone	1.67	0.8208		mg/Kg		49	40 - 140
Naphthalene	1.67	1.214		mg/Kg		73	40 - 140
Nitrobenzene	1.67	1.036		mg/Kg		62	40 - 140
N-Nitrosodimethylamine	1.67	0.8806		mg/Kg		53	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.073		mg/Kg		64	40 - 140
N-Nitrosodiphenylamine	1.67	1.572		mg/Kg		94	40 - 140
Pentachloronitrobenzene	1.67	1.031		mg/Kg		62	40 - 140
Pentachlorophenol	1.67	1.134		mg/Kg		68	30 - 130
Phenanthrene	1.67	1.537		mg/Kg		92	40 - 140
Phenol	1.67	1.163		mg/Kg		70	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20241/2-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20241

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pyrene			1.67	1.622		mg/Kg		97	40 - 140		
Pyridine			1.67	0.7357		mg/Kg		44	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*
Phenol-d5 (Surr)	*76*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*93*		*15 - 110*
Terphenyl-d14	*74*		*30 - 130*

Lab Sample ID: LCSD 620-20241/3-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	0.8776		mg/Kg		53	40 - 140	4	30
1,2,4-Trichlorobenzene			1.67	1.062		mg/Kg		64	40 - 140	4	30
1,2-Dichlorobenzene			1.67	1.244		mg/Kg		75	40 - 140	4	30
1,3-Dichlorobenzene			1.67	1.283		mg/Kg		77	40 - 140	4	30
1,4-Dichlorobenzene			1.67	1.261		mg/Kg		76	40 - 140	5	30
1-Methylnaphthalene			1.67	1.485		mg/Kg		89	40 - 140	2	30
2,4,5-Trichlorophenol			1.67	1.322		mg/Kg		79	30 - 130	4	30
2,4,6-Trichlorophenol			1.67	1.327		mg/Kg		80	30 - 130	4	30
2,4-Dichlorophenol			1.67	1.170		mg/Kg		70	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.081		mg/Kg		65	30 - 130	4	30
2,4-Dinitrophenol			1.67	1.490		mg/Kg		89	30 - 130	3	30
2,4-Dinitrotoluene			1.67	1.407		mg/Kg		84	40 - 140	4	30
2,6-Dinitrotoluene			1.67	1.396		mg/Kg		84	40 - 140	5	30
2-Chloronaphthalene			1.67	1.354		mg/Kg		81	40 - 140	3	30
2-Chlorophenol			1.67	1.361		mg/Kg		82	30 - 130	3	30
2-Methylnaphthalene			1.67	1.268		mg/Kg		76	40 - 140	5	30
2-Methylphenol			1.67	1.303		mg/Kg		78	30 - 130	5	30
2-Nitroaniline			1.67	1.504		mg/Kg		90	40 - 140	3	30
2-Nitrophenol			1.67	1.287		mg/Kg		77	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.258		mg/Kg		76	30 - 130	4	30
3,3'-Dichlorobenzidine			1.67	1.525		mg/Kg		91	40 - 140	12	30
3-Nitroaniline			1.67	1.072		mg/Kg		64	40 - 140	5	30
4,6-Dinitro-2-methylphenol			1.67	1.213		mg/Kg		73	30 - 130	0	30
4-Bromophenyl phenyl ether			1.67	1.221		mg/Kg		73	40 - 140	6	30
4-Chloro-3-methylphenol			1.67	1.054		mg/Kg		63	30 - 130	6	30
4-Chloroaniline			1.67	0.6832		mg/Kg		41	40 - 140	5	30
4-Chlorophenyl phenyl ether			1.67	1.125		mg/Kg		68	40 - 140	6	30
4-Nitroaniline			1.67	1.438		mg/Kg		86	40 - 140	4	30
4-Nitrophenol			1.67	1.382		mg/Kg		83	30 - 130	5	30
Acenaphthene			1.67	1.313		mg/Kg		79	40 - 140	5	30
Acenaphthylene			1.67	1.330		mg/Kg		80	40 - 140	4	30
Acetophenone			1.67	1.291		mg/Kg		77	40 - 140	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20241/3-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline			1.67	0.7961		mg/Kg		48	40 - 140	8	30
Anthracene			1.67	1.582		mg/Kg		95	40 - 140	9	30
Azobenzene/Diphenyldiazene			1.67	1.286		mg/Kg		77	40 - 140	4	30
Benzidine			1.67	0.3581	J *-	mg/Kg		21	40 - 140	3	30
Benzo[a]anthracene			1.67	1.480		mg/Kg		89	40 - 140	9	30
Benzo[a]pyrene			1.67	1.344		mg/Kg		81	40 - 140	9	30
Benzo[b]fluoranthene			1.67	1.432		mg/Kg		86	40 - 140	18	30
Benzo[g,h,i]perylene			1.67	1.330		mg/Kg		80	40 - 140	7	30
Benzo[k]fluoranthene			1.67	1.275		mg/Kg		76	40 - 140	1	30
Benzoic acid			1.67	0.7655		mg/Kg		46	30 - 130	7	30
Benzyl alcohol			1.67	0.9341		mg/Kg		56	40 - 140	3	30
Bis(2-chloroethoxy)methane			1.67	1.021		mg/Kg		61	40 - 140	5	30
Bis(2-chloroethyl)ether			1.67	1.040		mg/Kg		62	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.260		mg/Kg		76	40 - 140	3	30
Bis(2-ethylhexyl) phthalate			1.67	1.779		mg/Kg		107	40 - 140	12	30
Butyl benzyl phthalate			1.67	1.646		mg/Kg		99	40 - 140	9	30
Carbazole			1.67	1.485		mg/Kg		89	40 - 140	9	30
Chrysene			1.67	1.441		mg/Kg		86	40 - 140	9	30
Dibenz(a,h)anthracene			1.67	1.289		mg/Kg		77	40 - 140	8	30
Dibenzofuran			1.67	1.346		mg/Kg		81	40 - 140	3	30
Diethyl phthalate			1.67	1.398		mg/Kg		84	40 - 140	3	30
Dimethyl phthalate			1.67	1.498		mg/Kg		90	40 - 140	4	30
Di-n-butyl phthalate			1.67	1.712		mg/Kg		103	40 - 140	10	30
Di-n-octyl phthalate			1.67	1.802		mg/Kg		108	40 - 140	10	30
Fluoranthene			1.67	1.414		mg/Kg		85	40 - 140	10	30
Fluorene			1.67	1.230		mg/Kg		74	40 - 140	5	30
Hexachlorobenzene			1.67	1.277		mg/Kg		77	40 - 140	7	30
Hexachlorobutadiene			1.67	0.8371		mg/Kg		50	40 - 140	5	30
Hexachlorocyclopentadiene			1.67	1.169		mg/Kg		70	40 - 140	5	30
Hexachloroethane			1.67	1.100		mg/Kg		66	40 - 140	3	30
Indeno[1,2,3-cd]pyrene			1.67	1.225		mg/Kg		74	40 - 140	7	30
Isophorone			1.67	0.7860		mg/Kg		47	40 - 140	4	30
Naphthalene			1.67	1.175		mg/Kg		71	40 - 140	3	30
Nitrobenzene			1.67	1.010		mg/Kg		61	40 - 140	3	30
N-Nitrosodimethylamine			1.67	0.8239		mg/Kg		49	40 - 140	7	30
N-Nitrosodi-n-propylamine			1.67	1.026		mg/Kg		62	40 - 140	4	30
N-Nitrosodiphenylamine			1.67	1.487		mg/Kg		89	40 - 140	6	30
Pentachloronitrobenzene			1.67	0.9488		mg/Kg		57	40 - 140	8	30
Pentachlorophenol			1.67	1.142		mg/Kg		69	30 - 130	1	30
Phenanthrene			1.67	1.411		mg/Kg		85	40 - 140	9	30
Phenol			1.67	1.113		mg/Kg		67	40 - 140	4	30
Pyrene			1.67	1.484		mg/Kg		89	40 - 140	9	30
Pyridine			1.67	0.7359		mg/Kg		44	40 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*88*		*15 - 110*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20241/3-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20241

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Phenol-d5 (Surr)	74		15 - 110
2,4,6-Tribromophenol (Surr)	86		15 - 110
Terphenyl-d14	67		30 - 130

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.90	1.262		mg/Kg	☼	66	40 - 140
1,2,4-Trichlorobenzene	ND		1.90	1.394		mg/Kg	☼	73	40 - 140
1,2-Dichlorobenzene	ND		1.90	1.608		mg/Kg	☼	85	40 - 140
1,3-Dichlorobenzene	ND		1.90	1.695		mg/Kg	☼	89	40 - 140
1,4-Dichlorobenzene	ND		1.90	1.671		mg/Kg	☼	88	40 - 140
1-Methylnaphthalene	ND		1.90	2.318		mg/Kg	☼	122	40 - 140
2,4,5-Trichlorophenol	ND		1.90	2.063		mg/Kg	☼	109	30 - 130
2,4,6-Trichlorophenol	ND		1.90	2.088		mg/Kg	☼	110	30 - 130
2,4-Dichlorophenol	ND		1.90	1.735		mg/Kg	☼	91	30 - 130
2,4-Dimethylphenol	ND		1.90	1.602		mg/Kg	☼	84	30 - 130
2,4-Dinitrophenol	ND	F1	1.90	3.637	F1	mg/Kg	☼	191	30 - 130
2,4-Dinitrotoluene	ND		1.90	1.965		mg/Kg	☼	103	40 - 140
2,6-Dinitrotoluene	ND		1.90	1.916		mg/Kg	☼	101	40 - 140
2-Chloronaphthalene	ND		1.90	1.983		mg/Kg	☼	104	40 - 140
2-Chlorophenol	ND		1.90	1.877		mg/Kg	☼	99	30 - 130
2-Methylnaphthalene	ND		1.90	1.789		mg/Kg	☼	94	40 - 140
2-Methylphenol	ND		1.90	1.821		mg/Kg	☼	96	30 - 130
2-Nitroaniline	ND		1.90	2.430		mg/Kg	☼	128	40 - 140
2-Nitrophenol	ND		1.90	1.706		mg/Kg	☼	90	30 - 130
3 & 4 Methylphenol	ND		1.90	1.684		mg/Kg	☼	89	30 - 130
3,3'-Dichlorobenzidine	ND		1.90	2.224		mg/Kg	☼	117	40 - 140
3-Nitroaniline	ND		1.90	1.627		mg/Kg	☼	86	40 - 140
4,6-Dinitro-2-methylphenol	0.341	J F1	1.90	0.9364		mg/Kg	☼	31	30 - 130
4-Bromophenyl phenyl ether	ND		1.90	1.776		mg/Kg	☼	93	40 - 140
4-Chloro-3-methylphenol	ND		1.90	1.533		mg/Kg	☼	81	30 - 130
4-Chloroaniline	ND		1.90	0.8818		mg/Kg	☼	46	40 - 140
4-Chlorophenyl phenyl ether	ND		1.90	1.642		mg/Kg	☼	86	40 - 140
4-Nitroaniline	ND		1.90	2.026		mg/Kg	☼	107	40 - 140
4-Nitrophenol	ND		1.90	2.048		mg/Kg	☼	108	30 - 130
Acenaphthene	ND		1.90	2.005		mg/Kg	☼	105	40 - 140
Acenaphthylene	ND		1.90	1.964		mg/Kg	☼	103	40 - 140
Acetophenone	ND		1.90	1.778		mg/Kg	☼	94	40 - 140
Aniline	ND		1.90	1.019		mg/Kg	☼	54	40 - 140
Anthracene	ND		1.90	2.243		mg/Kg	☼	118	40 - 140
Azobenzene/Diphenyldiazene	ND		1.90	1.849		mg/Kg	☼	97	40 - 140
Benzidine	ND	*- F1	1.90	ND	F1	mg/Kg	☼	0	40 - 140
Benzo[a]anthracene	0.0915	J	1.90	2.032		mg/Kg	☼	102	40 - 140
Benzo[a]pyrene	0.123	J	1.90	1.855		mg/Kg	☼	91	40 - 140
Benzo[b]fluoranthene	ND		1.90	1.811		mg/Kg	☼	95	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	ND		1.90	1.856		mg/Kg	☼	98	40 - 140
Benzo[k]fluoranthene	ND		1.90	1.789		mg/Kg	☼	94	40 - 140
Benzoic acid	ND	F1	1.90	2.922	F1	mg/Kg	☼	154	30 - 130
Benzyl alcohol	ND		1.90	1.248		mg/Kg	☼	66	40 - 140
Bis(2-chloroethoxy)methane	ND		1.90	1.449		mg/Kg	☼	76	40 - 140
Bis(2-chloroethyl)ether	ND		1.90	1.435		mg/Kg	☼	76	40 - 140
bis (2-chloroisopropyl) ether	ND		1.90	1.776		mg/Kg	☼	93	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.90	2.133		mg/Kg	☼	112	40 - 140
Butyl benzyl phthalate	ND		1.90	2.236		mg/Kg	☼	118	40 - 140
Carbazole	ND		1.90	2.120		mg/Kg	☼	112	40 - 140
Chrysene	0.106	J	1.90	2.042		mg/Kg	☼	102	40 - 140
Dibenz(a,h)anthracene	ND		1.90	1.709		mg/Kg	☼	90	40 - 140
Dibenzofuran	ND		1.90	1.942		mg/Kg	☼	102	40 - 140
Diethyl phthalate	ND		1.90	2.099		mg/Kg	☼	110	40 - 140
Dimethyl phthalate	ND		1.90	2.110		mg/Kg	☼	111	40 - 140
Di-n-butyl phthalate	ND		1.90	2.217		mg/Kg	☼	117	40 - 140
Di-n-octyl phthalate	ND		1.90	1.926		mg/Kg	☼	101	40 - 140
Fluoranthene	0.0928	J	1.90	1.957		mg/Kg	☼	98	40 - 140
Fluorene	ND		1.90	1.797		mg/Kg	☼	95	40 - 140
Hexachlorobenzene	ND		1.90	1.818		mg/Kg	☼	96	40 - 140
Hexachlorobutadiene	ND		1.90	1.081		mg/Kg	☼	57	40 - 140
Hexachlorocyclopentadiene	ND	F2 F1	1.90	0.2533	J F1	mg/Kg	☼	13	40 - 140
Hexachloroethane	ND		1.90	0.9769		mg/Kg	☼	51	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.90	1.688		mg/Kg	☼	89	40 - 140
Isophorone	ND		1.90	1.060		mg/Kg	☼	56	40 - 140
Naphthalene	ND		1.90	1.647		mg/Kg	☼	87	40 - 140
Nitrobenzene	ND		1.90	1.320		mg/Kg	☼	69	40 - 140
N-Nitrosodimethylamine	ND		1.90	1.006		mg/Kg	☼	53	40 - 140
N-Nitrosodi-n-propylamine	ND		1.90	1.405		mg/Kg	☼	74	40 - 140
N-Nitrosodiphenylamine	ND		1.90	2.388		mg/Kg	☼	126	40 - 140
Pentachloronitrobenzene	ND		1.90	1.198		mg/Kg	☼	63	40 - 140
Pentachlorophenol	ND		1.90	2.178		mg/Kg	☼	115	30 - 130
Phenanthrene	0.0968	J	1.90	2.131		mg/Kg	☼	107	40 - 140
Phenol	ND		1.90	1.543		mg/Kg	☼	81	40 - 140
Pyrene	0.213		1.90	2.428		mg/Kg	☼	117	40 - 140
Pyridine	ND		1.90	1.073		mg/Kg	☼	56	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*30 - 130*
2-Fluorophenol (Surr)	*106*		*15 - 110*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*
Phenol-d5 (Surr)	*86*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*126*	*S1+*	*15 - 110*
Terphenyl-d14	*81*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.92	1.280		mg/Kg	☼	67	40 - 140	1	30
1,2,4-Trichlorobenzene	ND		1.92	1.388		mg/Kg	☼	72	40 - 140	0	30
1,2-Dichlorobenzene	ND		1.92	1.593		mg/Kg	☼	83	40 - 140	1	30
1,3-Dichlorobenzene	ND		1.92	1.704		mg/Kg	☼	89	40 - 140	1	30
1,4-Dichlorobenzene	ND		1.92	1.666		mg/Kg	☼	87	40 - 140	0	30
1-Methylnaphthalene	ND		1.92	2.276		mg/Kg	☼	119	40 - 140	2	30
2,4,5-Trichlorophenol	ND		1.92	2.024		mg/Kg	☼	106	30 - 130	2	30
2,4,6-Trichlorophenol	ND		1.92	2.038		mg/Kg	☼	106	30 - 130	2	30
2,4-Dichlorophenol	ND		1.92	1.707		mg/Kg	☼	89	30 - 130	2	30
2,4-Dimethylphenol	ND		1.92	1.618		mg/Kg	☼	84	30 - 130	1	30
2,4-Dinitrophenol	ND	F1	1.92	4.870	F1	mg/Kg	☼	254	30 - 130	29	30
2,4-Dinitrotoluene	ND		1.92	1.862		mg/Kg	☼	97	40 - 140	5	30
2,6-Dinitrotoluene	ND		1.92	1.834		mg/Kg	☼	96	40 - 140	4	30
2-Chloronaphthalene	ND		1.92	1.943		mg/Kg	☼	101	40 - 140	2	30
2-Chlorophenol	ND		1.92	1.840		mg/Kg	☼	96	30 - 130	2	30
2-Methylnaphthalene	ND		1.92	1.783		mg/Kg	☼	93	40 - 140	0	30
2-Methylphenol	ND		1.92	1.782		mg/Kg	☼	93	30 - 130	2	30
2-Nitroaniline	ND		1.92	2.338		mg/Kg	☼	122	40 - 140	4	30
2-Nitrophenol	ND		1.92	1.702		mg/Kg	☼	89	30 - 130	0	30
3 & 4 Methylphenol	ND		1.92	1.665		mg/Kg	☼	87	30 - 130	1	30
3,3'-Dichlorobenzidine	ND		1.92	1.895		mg/Kg	☼	99	40 - 140	16	30
3-Nitroaniline	ND		1.92	1.509		mg/Kg	☼	79	40 - 140	8	30
4,6-Dinitro-2-methylphenol	0.341	J F1	1.92	0.8263	F1	mg/Kg	☼	25	30 - 130	12	30
4-Bromophenyl phenyl ether	ND		1.92	1.804		mg/Kg	☼	94	40 - 140	2	30
4-Chloro-3-methylphenol	ND		1.92	1.465		mg/Kg	☼	76	30 - 130	5	30
4-Chloroaniline	ND		1.92	0.7710		mg/Kg	☼	40	40 - 140	13	30
4-Chlorophenyl phenyl ether	ND		1.92	1.665		mg/Kg	☼	87	40 - 140	1	30
4-Nitroaniline	ND		1.92	2.006		mg/Kg	☼	105	40 - 140	1	30
4-Nitrophenol	ND		1.92	1.982		mg/Kg	☼	103	30 - 130	3	30
Acenaphthene	ND		1.92	1.957		mg/Kg	☼	102	40 - 140	2	30
Acenaphthylene	ND		1.92	1.911		mg/Kg	☼	100	40 - 140	3	30
Acetophenone	ND		1.92	1.778		mg/Kg	☼	93	40 - 140	0	30
Aniline	ND		1.92	0.8565		mg/Kg	☼	45	40 - 140	17	30
Anthracene	ND		1.92	2.307		mg/Kg	☼	120	40 - 140	3	30
Azobenzene/Diphenyldiazene	ND		1.92	1.835		mg/Kg	☼	96	40 - 140	1	30
Benzidine	ND	*- F1	1.92	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Benzo[a]anthracene	0.0915	J	1.92	2.072		mg/Kg	☼	103	40 - 140	2	30
Benzo[a]pyrene	0.123	J	1.92	1.899		mg/Kg	☼	93	40 - 140	2	30
Benzo[b]fluoranthene	ND		1.92	1.882		mg/Kg	☼	98	40 - 140	4	30
Benzo[g,h,i]perylene	ND		1.92	1.908		mg/Kg	☼	100	40 - 140	3	30
Benzo[k]fluoranthene	ND		1.92	1.852		mg/Kg	☼	97	40 - 140	3	30
Benzoic acid	ND	F1	1.92	2.737	F1	mg/Kg	☼	143	30 - 130	7	30
Benzyl alcohol	ND		1.92	1.198		mg/Kg	☼	63	40 - 140	4	30
Bis(2-chloroethoxy)methane	ND		1.92	1.435		mg/Kg	☼	75	40 - 140	1	30
Bis(2-chloroethyl)ether	ND		1.92	1.386		mg/Kg	☼	72	40 - 140	3	30
bis (2-chloroisopropyl) ether	ND		1.92	1.750		mg/Kg	☼	91	40 - 140	1	30
Bis(2-ethylhexyl) phthalate	ND		1.92	2.367		mg/Kg	☼	124	40 - 140	10	30
Butyl benzyl phthalate	ND		1.92	2.293		mg/Kg	☼	120	40 - 140	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbazole	ND		1.92	2.069		mg/Kg	☼	108	40 - 140	2	30
Chrysene	0.106	J	1.92	2.138		mg/Kg	☼	106	40 - 140	5	30
Dibenz(a,h)anthracene	ND		1.92	1.788		mg/Kg	☼	93	40 - 140	5	30
Dibenzofuran	ND		1.92	1.912		mg/Kg	☼	100	40 - 140	2	30
Diethyl phthalate	ND		1.92	2.043		mg/Kg	☼	107	40 - 140	3	30
Dimethyl phthalate	ND		1.92	2.040		mg/Kg	☼	106	40 - 140	3	30
Di-n-butyl phthalate	ND		1.92	2.257		mg/Kg	☼	118	40 - 140	2	30
Di-n-octyl phthalate	ND		1.92	2.063		mg/Kg	☼	108	40 - 140	7	30
Fluoranthene	0.0928	J	1.92	2.029		mg/Kg	☼	101	40 - 140	4	30
Fluorene	ND		1.92	1.780		mg/Kg	☼	93	40 - 140	1	30
Hexachlorobenzene	ND		1.92	1.850		mg/Kg	☼	97	40 - 140	2	30
Hexachlorobutadiene	ND		1.92	1.107		mg/Kg	☼	58	40 - 140	2	30
Hexachlorocyclopentadiene	ND	F2 F1	1.92	0.1582	J F2 F1	mg/Kg	☼	8	40 - 140	46	30
Hexachloroethane	ND		1.92	0.9417		mg/Kg	☼	49	40 - 140	4	30
Indeno[1,2,3-cd]pyrene	ND		1.92	1.754		mg/Kg	☼	92	40 - 140	4	30
Isophorone	ND		1.92	1.032		mg/Kg	☼	54	40 - 140	3	30
Naphthalene	ND		1.92	1.649		mg/Kg	☼	86	40 - 140	0	30
Nitrobenzene	ND		1.92	1.323		mg/Kg	☼	69	40 - 140	0	30
N-Nitrosodimethylamine	ND		1.92	0.9837		mg/Kg	☼	51	40 - 140	2	30
N-Nitrosodi-n-propylamine	ND		1.92	1.389		mg/Kg	☼	72	40 - 140	1	30
N-Nitrosodiphenylamine	ND		1.92	2.327		mg/Kg	☼	121	40 - 140	3	30
Pentachloronitrobenzene	ND		1.92	1.199		mg/Kg	☼	63	40 - 140	0	30
Pentachlorophenol	ND		1.92	2.136		mg/Kg	☼	111	30 - 130	2	30
Phenanthrene	0.0968	J	1.92	2.217		mg/Kg	☼	111	40 - 140	4	30
Phenol	ND		1.92	1.508		mg/Kg	☼	79	40 - 140	2	30
Pyrene	0.213		1.92	2.438		mg/Kg	☼	116	40 - 140	0	30
Pyridine	ND		1.92	1.164		mg/Kg	☼	61	40 - 140	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*97*		*30 - 130*
2-Fluorophenol (Surr)	*102*		*15 - 110*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*
Phenol-d5 (Surr)	*86*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*120*	*S1+*	*15 - 110*
Terphenyl-d14	*77*		*30 - 130*

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.73	0.9692		mg/Kg	☼	56	40 - 140
1,2,4-Trichlorobenzene	ND		1.73	1.065		mg/Kg	☼	62	40 - 140
1,2-Dichlorobenzene	ND		1.73	1.254		mg/Kg	☼	73	40 - 140
1,3-Dichlorobenzene	ND		1.73	1.328		mg/Kg	☼	77	40 - 140
1,4-Dichlorobenzene	ND		1.73	1.335		mg/Kg	☼	77	40 - 140
1-Methylnaphthalene	ND		1.73	1.701		mg/Kg	☼	98	40 - 140
2,4,5-Trichlorophenol	ND		1.73	1.574		mg/Kg	☼	91	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	ND		1.73	1.547		mg/Kg	☼	90	30 - 130
2,4-Dichlorophenol	ND		1.73	1.284		mg/Kg	☼	74	30 - 130
2,4-Dimethylphenol	ND		1.73	1.199		mg/Kg	☼	69	30 - 130
2,4-Dinitrophenol	ND		1.73	1.678		mg/Kg	☼	97	30 - 130
2,4-Dinitrotoluene	ND		1.73	1.558		mg/Kg	☼	90	40 - 140
2,6-Dinitrotoluene	ND		1.73	1.404		mg/Kg	☼	81	40 - 140
2-Chloronaphthalene	ND		1.73	1.476		mg/Kg	☼	85	40 - 140
2-Chlorophenol	ND		1.73	1.409		mg/Kg	☼	82	30 - 130
2-Methylnaphthalene	ND		1.73	1.385		mg/Kg	☼	80	40 - 140
2-Methylphenol	ND		1.73	1.355		mg/Kg	☼	78	30 - 130
2-Nitroaniline	ND		1.73	1.796		mg/Kg	☼	104	40 - 140
2-Nitrophenol	ND		1.73	1.421		mg/Kg	☼	82	30 - 130
3 & 4 Methylphenol	ND		1.73	1.241		mg/Kg	☼	72	30 - 130
3,3'-Dichlorobenzidine	ND		1.73	1.585		mg/Kg	☼	92	40 - 140
3-Nitroaniline	ND		1.73	1.202		mg/Kg	☼	70	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.73	1.525		mg/Kg	☼	88	30 - 130
4-Bromophenyl phenyl ether	ND		1.73	1.433		mg/Kg	☼	83	40 - 140
4-Chloro-3-methylphenol	ND		1.73	1.140		mg/Kg	☼	66	30 - 130
4-Chloroaniline	ND	F1	1.73	0.4139	F1	mg/Kg	☼	24	40 - 140
4-Chlorophenyl phenyl ether	ND		1.73	1.294		mg/Kg	☼	75	40 - 140
4-Nitroaniline	ND		1.73	1.451		mg/Kg	☼	84	40 - 140
4-Nitrophenol	ND		1.73	1.615		mg/Kg	☼	93	30 - 130
Acenaphthene	ND		1.73	1.472		mg/Kg	☼	85	40 - 140
Acenaphthylene	ND		1.73	1.344		mg/Kg	☼	78	40 - 140
Acetophenone	ND		1.73	1.359		mg/Kg	☼	79	40 - 140
Aniline	ND	F1	1.73	0.5859	J F1	mg/Kg	☼	34	40 - 140
Anthracene	ND		1.73	1.628		mg/Kg	☼	94	40 - 140
Azobenzene/Diphenyldiazene	ND		1.73	1.416		mg/Kg	☼	82	40 - 140
Benzidine	ND	*- F1	1.73	ND	F1	mg/Kg	☼	0	40 - 140
Benzo[a]anthracene	ND		1.73	1.518		mg/Kg	☼	88	40 - 140
Benzo[a]pyrene	ND		1.73	1.434		mg/Kg	☼	83	40 - 140
Benzo[b]fluoranthene	ND		1.73	1.498		mg/Kg	☼	87	40 - 140
Benzo[g,h,i]perylene	ND		1.73	1.557		mg/Kg	☼	90	40 - 140
Benzo[k]fluoranthene	ND		1.73	1.414		mg/Kg	☼	82	40 - 140
Benzoic acid	ND	F1	1.73	2.795	F1	mg/Kg	☼	162	30 - 130
Benzyl alcohol	ND		1.73	0.9344		mg/Kg	☼	54	40 - 140
Bis(2-chloroethoxy)methane	ND		1.73	1.101		mg/Kg	☼	64	40 - 140
Bis(2-chloroethyl)ether	ND		1.73	1.082		mg/Kg	☼	63	40 - 140
bis (2-chloroisopropyl) ether	ND		1.73	1.415		mg/Kg	☼	82	40 - 140
Bis(2-ethylhexyl) phthalate	0.0999	J	1.73	2.072		mg/Kg	☼	114	40 - 140
Butyl benzyl phthalate	ND		1.73	1.920		mg/Kg	☼	111	40 - 140
Carbazole	ND		1.73	1.564		mg/Kg	☼	91	40 - 140
Chrysene	ND		1.73	1.544		mg/Kg	☼	89	40 - 140
Dibenz(a,h)anthracene	ND		1.73	1.458		mg/Kg	☼	84	40 - 140
Dibenzofuran	ND		1.73	1.455		mg/Kg	☼	84	40 - 140
Diethyl phthalate	ND		1.73	1.596		mg/Kg	☼	92	40 - 140
Dimethyl phthalate	ND		1.73	1.592		mg/Kg	☼	92	40 - 140
Di-n-butyl phthalate	ND		1.73	1.761		mg/Kg	☼	102	40 - 140
Di-n-octyl phthalate	ND		1.73	1.839		mg/Kg	☼	106	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	ND		1.73	1.388		mg/Kg	☼	80	40 - 140
Fluorene	ND		1.73	1.371		mg/Kg	☼	79	40 - 140
Hexachlorobenzene	ND		1.73	1.505		mg/Kg	☼	87	40 - 140
Hexachlorobutadiene	ND		1.73	0.8801		mg/Kg	☼	51	40 - 140
Hexachlorocyclopentadiene	ND	F1	1.73	0.3846	F1	mg/Kg	☼	22	40 - 140
Hexachloroethane	ND		1.73	0.8805		mg/Kg	☼	51	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.73	1.423		mg/Kg	☼	82	40 - 140
Isophorone	ND		1.73	0.7832		mg/Kg	☼	45	40 - 140
Naphthalene	ND		1.73	1.257		mg/Kg	☼	73	40 - 140
Nitrobenzene	ND		1.73	1.036		mg/Kg	☼	60	40 - 140
N-Nitrosodimethylamine	ND		1.73	0.8474		mg/Kg	☼	49	40 - 140
N-Nitrosodi-n-propylamine	ND		1.73	1.084		mg/Kg	☼	63	40 - 140
N-Nitrosodiphenylamine	ND		1.73	1.802		mg/Kg	☼	104	40 - 140
Pentachloronitrobenzene	ND		1.73	0.9746		mg/Kg	☼	56	40 - 140
Pentachlorophenol	ND		1.73	1.731		mg/Kg	☼	100	30 - 130
Phenanthrene	ND		1.73	1.501		mg/Kg	☼	87	40 - 140
Phenol	ND		1.73	1.162		mg/Kg	☼	67	40 - 140
Pyrene	ND		1.73	1.624		mg/Kg	☼	94	40 - 140
Pyridine	ND		1.73	0.9655		mg/Kg	☼	56	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*
2-Fluorophenol (Surr)	*87*		*15 - 110*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*
Phenol-d5 (Surr)	*73*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*106*		*15 - 110*
Terphenyl-d14	*73*		*30 - 130*

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.69	1.067		mg/Kg	☼	63	40 - 140	10	30
1,2,4-Trichlorobenzene	ND		1.69	1.169		mg/Kg	☼	69	40 - 140	9	30
1,2-Dichlorobenzene	ND		1.69	1.363		mg/Kg	☼	80	40 - 140	8	30
1,3-Dichlorobenzene	ND		1.69	1.478		mg/Kg	☼	87	40 - 140	11	30
1,4-Dichlorobenzene	ND		1.69	1.426		mg/Kg	☼	84	40 - 140	7	30
1-Methylnaphthalene	ND		1.69	1.897		mg/Kg	☼	112	40 - 140	11	30
2,4,5-Trichlorophenol	ND		1.69	1.741		mg/Kg	☼	103	30 - 130	10	30
2,4,6-Trichlorophenol	ND		1.69	1.705		mg/Kg	☼	101	30 - 130	10	30
2,4-Dichlorophenol	ND		1.69	1.418		mg/Kg	☼	84	30 - 130	10	30
2,4-Dimethylphenol	ND		1.69	1.322		mg/Kg	☼	78	30 - 130	10	30
2,4-Dinitrophenol	ND		1.69	1.771		mg/Kg	☼	105	30 - 130	5	30
2,4-Dinitrotoluene	ND		1.69	1.677		mg/Kg	☼	99	40 - 140	7	30
2,6-Dinitrotoluene	ND		1.69	1.595		mg/Kg	☼	94	40 - 140	13	30
2-Chloronaphthalene	ND		1.69	1.645		mg/Kg	☼	97	40 - 140	11	30
2-Chlorophenol	ND		1.69	1.576		mg/Kg	☼	93	30 - 130	11	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		1.69	1.496		mg/Kg	☼	88	40 - 140	8	30
2-Methylphenol	ND		1.69	1.520		mg/Kg	☼	90	30 - 130	12	30
2-Nitroaniline	ND		1.69	1.987		mg/Kg	☼	117	40 - 140	10	30
2-Nitrophenol	ND		1.69	1.544		mg/Kg	☼	91	30 - 130	8	30
3 & 4 Methylphenol	ND		1.69	1.418		mg/Kg	☼	84	30 - 130	13	30
3,3'-Dichlorobenzidine	ND		1.69	1.662		mg/Kg	☼	98	40 - 140	5	30
3-Nitroaniline	ND		1.69	1.251		mg/Kg	☼	74	40 - 140	4	30
4,6-Dinitro-2-methylphenol	ND		1.69	1.539		mg/Kg	☼	91	30 - 130	1	30
4-Bromophenyl phenyl ether	ND		1.69	1.534		mg/Kg	☼	91	40 - 140	7	30
4-Chloro-3-methylphenol	ND		1.69	1.260		mg/Kg	☼	74	30 - 130	10	30
4-Chloroaniline	ND	F1	1.69	0.5164	F1	mg/Kg	☼	31	40 - 140	22	30
4-Chlorophenyl phenyl ether	ND		1.69	1.424		mg/Kg	☼	84	40 - 140	10	30
4-Nitroaniline	ND		1.69	1.505		mg/Kg	☼	89	40 - 140	4	30
4-Nitrophenol	ND		1.69	1.739		mg/Kg	☼	103	30 - 130	7	30
Acenaphthene	ND		1.69	1.639		mg/Kg	☼	97	40 - 140	11	30
Acenaphthylene	ND		1.69	1.535		mg/Kg	☼	91	40 - 140	13	30
Acetophenone	ND		1.69	1.500		mg/Kg	☼	89	40 - 140	10	30
Aniline	ND	F1	1.69	0.6495	J F1	mg/Kg	☼	38	40 - 140	10	30
Anthracene	ND		1.69	1.785		mg/Kg	☼	105	40 - 140	9	30
Azobenzene/Diphenyldiazene	ND		1.69	1.557		mg/Kg	☼	92	40 - 140	10	30
Benzidine	ND	*- F1	1.69	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Benzo[a]anthracene	ND		1.69	1.660		mg/Kg	☼	98	40 - 140	9	30
Benzo[a]pyrene	ND		1.69	1.540		mg/Kg	☼	91	40 - 140	7	30
Benzo[b]fluoranthene	ND		1.69	1.643		mg/Kg	☼	97	40 - 140	9	30
Benzo[g,h,i]perylene	ND		1.69	1.616		mg/Kg	☼	95	40 - 140	4	30
Benzo[k]fluoranthene	ND		1.69	1.447		mg/Kg	☼	85	40 - 140	2	30
Benzoic acid	ND	F1	1.69	3.071	F1	mg/Kg	☼	181	30 - 130	9	30
Benzyl alcohol	ND		1.69	1.041		mg/Kg	☼	62	40 - 140	11	30
Bis(2-chloroethoxy)methane	ND		1.69	1.176		mg/Kg	☼	69	40 - 140	7	30
Bis(2-chloroethyl)ether	ND		1.69	1.195		mg/Kg	☼	71	40 - 140	10	30
bis (2-chloroisopropyl) ether	ND		1.69	1.529		mg/Kg	☼	90	40 - 140	8	30
Bis(2-ethylhexyl) phthalate	0.0999	J	1.69	2.223		mg/Kg	☼	125	40 - 140	7	30
Butyl benzyl phthalate	ND		1.69	2.069		mg/Kg	☼	122	40 - 140	7	30
Carbazole	ND		1.69	1.699		mg/Kg	☼	100	40 - 140	8	30
Chrysene	ND		1.69	1.662		mg/Kg	☼	98	40 - 140	7	30
Dibenz(a,h)anthracene	ND		1.69	1.558		mg/Kg	☼	92	40 - 140	7	30
Dibenzofuran	ND		1.69	1.619		mg/Kg	☼	96	40 - 140	11	30
Diethyl phthalate	ND		1.69	1.747		mg/Kg	☼	103	40 - 140	9	30
Dimethyl phthalate	ND		1.69	1.753		mg/Kg	☼	104	40 - 140	10	30
Di-n-butyl phthalate	ND		1.69	1.903		mg/Kg	☼	112	40 - 140	8	30
Di-n-octyl phthalate	ND		1.69	1.974		mg/Kg	☼	117	40 - 140	7	30
Fluoranthene	ND		1.69	1.516		mg/Kg	☼	90	40 - 140	9	30
Fluorene	ND		1.69	1.518		mg/Kg	☼	90	40 - 140	10	30
Hexachlorobenzene	ND		1.69	1.605		mg/Kg	☼	95	40 - 140	6	30
Hexachlorobutadiene	ND		1.69	0.9461		mg/Kg	☼	56	40 - 140	7	30
Hexachlorocyclopentadiene	ND	F1	1.69	0.3729	F1	mg/Kg	☼	22	40 - 140	3	30
Hexachloroethane	ND		1.69	0.9541		mg/Kg	☼	56	40 - 140	8	30
Indeno[1,2,3-cd]pyrene	ND		1.69	1.526		mg/Kg	☼	90	40 - 140	7	30
Isophorone	ND		1.69	0.8771		mg/Kg	☼	52	40 - 140	11	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	ND		1.69	1.374		mg/Kg	☼	81	40 - 140	9	30
Nitrobenzene	ND		1.69	1.136		mg/Kg	☼	67	40 - 140	9	30
N-Nitrosodimethylamine	ND		1.69	0.9095		mg/Kg	☼	54	40 - 140	7	30
N-Nitrosodi-n-propylamine	ND		1.69	1.204		mg/Kg	☼	71	40 - 140	11	30
N-Nitrosodiphenylamine	ND		1.69	1.923		mg/Kg	☼	114	40 - 140	6	30
Pentachloronitrobenzene	ND		1.69	1.075		mg/Kg	☼	63	40 - 140	10	30
Pentachlorophenol	ND		1.69	1.761		mg/Kg	☼	104	30 - 130	2	30
Phenanthrene	ND		1.69	1.615		mg/Kg	☼	95	40 - 140	7	30
Phenol	ND		1.69	1.263		mg/Kg	☼	75	40 - 140	8	30
Pyrene	ND		1.69	1.804		mg/Kg	☼	107	40 - 140	11	30
Pyridine	ND		1.69	1.002		mg/Kg	☼	59	40 - 140	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*30 - 130*
2-Fluorophenol (Surr)	*101*		*15 - 110*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*
Phenol-d5 (Surr)	*82*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*112*	*S1+*	*15 - 110*
Terphenyl-d14	*81*		*30 - 130*

Lab Sample ID: MB 620-20399/1-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/09/23 11:00	03/10/23 13:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20399/1-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Aniline	ND		0.330	0.0253	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/09/23 11:00	03/10/23 13:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20399/1-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.330	0.0680	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/09/23 11:00	03/10/23 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
Terphenyl-d14	*90*		*30 - 130*	*03/09/23 11:00*	*03/10/23 13:23*	*1*

Lab Sample ID: LCS 620-20399/2-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.8756		mg/Kg		53	40 - 140
1,2,4-Trichlorobenzene	1.67	0.9895		mg/Kg		59	40 - 140
1,2-Dichlorobenzene	1.67	1.175		mg/Kg		71	40 - 140
1,3-Dichlorobenzene	1.67	1.238		mg/Kg		74	40 - 140
1,4-Dichlorobenzene	1.67	1.204		mg/Kg		72	40 - 140
1-Methylnaphthalene	1.67	1.496		mg/Kg		90	40 - 140
2,4,5-Trichlorophenol	1.67	1.315		mg/Kg		79	30 - 130
2,4,6-Trichlorophenol	1.67	1.387		mg/Kg		83	30 - 130
2,4-Dichlorophenol	1.67	1.120		mg/Kg		67	30 - 130
2,4-Dimethylphenol	1.67	1.067		mg/Kg		64	30 - 130
2,4-Dinitrophenol	1.67	1.661		mg/Kg		100	30 - 130
2,4-Dinitrotoluene	1.67	1.556		mg/Kg		93	40 - 140
2,6-Dinitrotoluene	1.67	1.604		mg/Kg		96	40 - 140
2-Chloronaphthalene	1.67	1.324		mg/Kg		79	40 - 140
2-Chlorophenol	1.67	1.322		mg/Kg		79	30 - 130
2-Methylnaphthalene	1.67	1.200		mg/Kg		72	40 - 140
2-Methylphenol	1.67	1.294		mg/Kg		78	30 - 130
2-Nitroaniline	1.67	1.735		mg/Kg		104	40 - 140
2-Nitrophenol	1.67	1.269		mg/Kg		76	30 - 130
3 & 4 Methylphenol	1.67	1.240		mg/Kg		74	30 - 130
3,3'-Dichlorobenzidine	1.67	2.200		mg/Kg		132	40 - 140
3-Nitroaniline	1.67	1.331		mg/Kg		80	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.807		mg/Kg		108	30 - 130
4-Bromophenyl phenyl ether	1.67	1.390		mg/Kg		83	40 - 140
4-Chloro-3-methylphenol	1.67	1.113		mg/Kg		67	30 - 130
4-Chloroaniline	1.67	0.9574		mg/Kg		57	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.186		mg/Kg		71	40 - 140
4-Nitroaniline	1.67	1.739		mg/Kg		104	40 - 140
4-Nitrophenol	1.67	1.433		mg/Kg		86	30 - 130
Acenaphthene	1.67	1.379		mg/Kg		83	40 - 140
Acenaphthylene	1.67	1.424		mg/Kg		85	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20399/2-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	1.67	1.234		mg/Kg		74	40 - 140
Aniline	1.67	1.020		mg/Kg		61	40 - 140
Anthracene	1.67	1.826		mg/Kg		110	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.514		mg/Kg		91	40 - 140
Benzidine	1.67	1.212		mg/Kg		73	40 - 140
Benzo[a]anthracene	1.67	1.773		mg/Kg		106	40 - 140
Benzo[a]pyrene	1.67	1.597		mg/Kg		96	40 - 140
Benzo[b]fluoranthene	1.67	1.963		mg/Kg		118	40 - 140
Benzo[g,h,i]perylene	1.67	1.541		mg/Kg		92	40 - 140
Benzo[k]fluoranthene	1.67	1.370		mg/Kg		82	40 - 140
Benzoic acid	1.67	1.224		mg/Kg		73	30 - 130
Benzyl alcohol	1.67	0.9318		mg/Kg		56	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.055		mg/Kg		63	40 - 140
Bis(2-chloroethyl)ether	1.67	1.131		mg/Kg		68	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.342		mg/Kg		81	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	2.119		mg/Kg		127	40 - 140
Butyl benzyl phthalate	1.67	1.990		mg/Kg		119	40 - 140
Carbazole	1.67	1.788		mg/Kg		107	40 - 140
Chrysene	1.67	1.707		mg/Kg		102	40 - 140
Dibenz(a,h)anthracene	1.67	1.494		mg/Kg		90	40 - 140
Dibenzofuran	1.67	1.387		mg/Kg		83	40 - 140
Diethyl phthalate	1.67	1.505		mg/Kg		90	40 - 140
Dimethyl phthalate	1.67	1.550		mg/Kg		93	40 - 140
Di-n-butyl phthalate	1.67	1.977		mg/Kg		119	40 - 140
Di-n-octyl phthalate	1.67	2.124		mg/Kg		127	40 - 140
Fluoranthene	1.67	1.606		mg/Kg		96	40 - 140
Fluorene	1.67	1.307		mg/Kg		78	40 - 140
Hexachlorobenzene	1.67	1.477		mg/Kg		89	40 - 140
Hexachlorobutadiene	1.67	0.7419		mg/Kg		45	40 - 140
Hexachlorocyclopentadiene	1.67	1.203		mg/Kg		72	40 - 140
Hexachloroethane	1.67	1.039		mg/Kg		62	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.416		mg/Kg		85	40 - 140
Isophorone	1.67	0.7932		mg/Kg		48	40 - 140
Naphthalene	1.67	1.138		mg/Kg		68	40 - 140
Nitrobenzene	1.67	1.014		mg/Kg		61	40 - 140
N-Nitrosodimethylamine	1.67	0.6779		mg/Kg		41	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.030		mg/Kg		62	40 - 140
N-Nitrosodiphenylamine	1.67	1.724		mg/Kg		103	40 - 140
Pentachloronitrobenzene	1.67	1.010		mg/Kg		61	40 - 140
Pentachlorophenol	1.67	1.429		mg/Kg		86	30 - 130
Phenanthrene	1.67	1.648		mg/Kg		99	40 - 140
Phenol	1.67	1.191		mg/Kg		71	40 - 140
Pyrene	1.67	1.889		mg/Kg		113	40 - 140
Pyridine	1.67	0.7988		mg/Kg		48	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*90*		*15 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20399/2-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20399

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	58		30 - 130
Phenol-d5 (Surr)	77		15 - 110
2,4,6-Tribromophenol (Surr)	103		15 - 110
Terphenyl-d14	87		30 - 130

Lab Sample ID: LCSD 620-20399/3-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20399

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	0.8779		mg/Kg		53	40 - 140	0	30
1,2,4-Trichlorobenzene			1.67	1.023		mg/Kg		61	40 - 140	3	30
1,2-Dichlorobenzene			1.67	1.217		mg/Kg		73	40 - 140	3	30
1,3-Dichlorobenzene			1.67	1.290		mg/Kg		77	40 - 140	4	30
1,4-Dichlorobenzene			1.67	1.257		mg/Kg		75	40 - 140	4	30
1-Methylnaphthalene			1.67	1.527		mg/Kg		92	40 - 140	2	30
2,4,5-Trichlorophenol			1.67	1.258		mg/Kg		75	30 - 130	4	30
2,4,6-Trichlorophenol			1.67	1.337		mg/Kg		80	30 - 130	4	30
2,4-Dichlorophenol			1.67	1.151		mg/Kg		69	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.090		mg/Kg		65	30 - 130	2	30
2,4-Dinitrophenol			1.67	1.435		mg/Kg		86	30 - 130	15	30
2,4-Dinitrotoluene			1.67	1.409		mg/Kg		85	40 - 140	10	30
2,6-Dinitrotoluene			1.67	1.441		mg/Kg		86	40 - 140	11	30
2-Chloronaphthalene			1.67	1.316		mg/Kg		79	40 - 140	1	30
2-Chlorophenol			1.67	1.376		mg/Kg		83	30 - 130	4	30
2-Methylnaphthalene			1.67	1.233		mg/Kg		74	40 - 140	3	30
2-Methylphenol			1.67	1.376		mg/Kg		83	30 - 130	6	30
2-Nitroaniline			1.67	1.607		mg/Kg		96	40 - 140	8	30
2-Nitrophenol			1.67	1.324		mg/Kg		79	30 - 130	4	30
3 & 4 Methylphenol			1.67	1.293		mg/Kg		78	30 - 130	4	30
3,3'-Dichlorobenzidine			1.67	1.879		mg/Kg		113	40 - 140	16	30
3-Nitroaniline			1.67	1.220		mg/Kg		73	40 - 140	9	30
4,6-Dinitro-2-methylphenol			1.67	1.698		mg/Kg		102	30 - 130	6	30
4-Bromophenyl phenyl ether			1.67	1.284		mg/Kg		77	40 - 140	8	30
4-Chloro-3-methylphenol			1.67	1.109		mg/Kg		67	30 - 130	0	30
4-Chloroaniline			1.67	0.9721		mg/Kg		58	40 - 140	2	30
4-Chlorophenyl phenyl ether			1.67	1.105		mg/Kg		66	40 - 140	7	30
4-Nitroaniline			1.67	1.461		mg/Kg		88	40 - 140	17	30
4-Nitrophenol			1.67	1.278		mg/Kg		77	30 - 130	11	30
Acenaphthene			1.67	1.340		mg/Kg		80	40 - 140	3	30
Acenaphthylene			1.67	1.371		mg/Kg		82	40 - 140	4	30
Acetophenone			1.67	1.304		mg/Kg		78	40 - 140	6	30
Aniline			1.67	1.049		mg/Kg		63	40 - 140	3	30
Anthracene			1.67	1.632		mg/Kg		98	40 - 140	11	30
Azobenzene/Diphenyldiazene			1.67	1.285		mg/Kg		77	40 - 140	16	30
Benzidine			1.67	0.8101	*1	mg/Kg		49	40 - 140	40	30
Benzo[a]anthracene			1.67	1.526		mg/Kg		92	40 - 140	15	30
Benzo[a]pyrene			1.67	1.374		mg/Kg		82	40 - 140	15	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20399/3-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20399

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene			1.67	1.605		mg/Kg		96	40 - 140	20	30
Benzo[g,h,i]perylene			1.67	1.334		mg/Kg		80	40 - 140	14	30
Benzo[k]fluoranthene			1.67	1.240		mg/Kg		74	40 - 140	10	30
Benzoic acid			1.67	1.161		mg/Kg		70	30 - 130	5	30
Benzyl alcohol			1.67	0.9419		mg/Kg		57	40 - 140	1	30
Bis(2-chloroethoxy)methane			1.67	1.094		mg/Kg		66	40 - 140	4	30
Bis(2-chloroethyl)ether			1.67	1.163		mg/Kg		70	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.406		mg/Kg		84	40 - 140	5	30
Bis(2-ethylhexyl) phthalate			1.67	1.866		mg/Kg		112	40 - 140	13	30
Butyl benzyl phthalate			1.67	1.809		mg/Kg		109	40 - 140	10	30
Carbazole			1.67	1.583		mg/Kg		95	40 - 140	12	30
Chrysene			1.67	1.477		mg/Kg		89	40 - 140	14	30
Dibenz(a,h)anthracene			1.67	1.294		mg/Kg		78	40 - 140	14	30
Dibenzofuran			1.67	1.338		mg/Kg		80	40 - 140	4	30
Diethyl phthalate			1.67	1.377		mg/Kg		83	40 - 140	9	30
Dimethyl phthalate			1.67	1.416		mg/Kg		85	40 - 140	9	30
Di-n-butyl phthalate			1.67	1.766		mg/Kg		106	40 - 140	11	30
Di-n-octyl phthalate			1.67	1.852		mg/Kg		111	40 - 140	14	30
Fluoranthene			1.67	1.452		mg/Kg		87	40 - 140	10	30
Fluorene			1.67	1.226		mg/Kg		74	40 - 140	6	30
Hexachlorobenzene			1.67	1.347		mg/Kg		81	40 - 140	9	30
Hexachlorobutadiene			1.67	0.7820		mg/Kg		47	40 - 140	5	30
Hexachlorocyclopentadiene			1.67	1.194		mg/Kg		72	40 - 140	1	30
Hexachloroethane			1.67	1.083		mg/Kg		65	40 - 140	4	30
Indeno[1,2,3-cd]pyrene			1.67	1.230		mg/Kg		74	40 - 140	14	30
Isophorone			1.67	0.8162		mg/Kg		49	40 - 140	3	30
Naphthalene			1.67	1.193		mg/Kg		72	40 - 140	5	30
Nitrobenzene			1.67	1.046		mg/Kg		63	40 - 140	3	30
N-Nitrosodimethylamine			1.67	0.7245		mg/Kg		43	40 - 140	7	30
N-Nitrosodi-n-propylamine			1.67	1.074		mg/Kg		64	40 - 140	4	30
N-Nitrosodiphenylamine			1.67	1.604		mg/Kg		96	40 - 140	7	30
Pentachloronitrobenzene			1.67	0.9272		mg/Kg		56	40 - 140	9	30
Pentachlorophenol			1.67	1.309		mg/Kg		79	30 - 130	9	30
Phenanthrene			1.67	1.471		mg/Kg		88	40 - 140	11	30
Phenol			1.67	1.251		mg/Kg		75	40 - 140	5	30
Pyrene			1.67	1.676		mg/Kg		101	40 - 140	12	30
Pyridine			1.67	0.7723		mg/Kg		46	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*88*		*15 - 110*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*
Phenol-d5 (Surr)	*79*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*
Terphenyl-d14	*74*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660379/1-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Naphthalene	0.03935	J	0.0500	0.0340	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/03/23 07:17	03/03/23 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*103*		*70 - 130*	*03/03/23 07:17*	*03/03/23 08:24*	*1*
a,a,a-Trifluorotoluene (fid)	*105*		*70 - 130*	*03/03/23 07:17*	*03/03/23 08:24*	*1*

Lab Sample ID: LCS 480-660379/2-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.487		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.511		mg/Kg		100	70 - 130
Methyl tert-butyl ether	2.50	2.301		mg/Kg		92	70 - 130
m,p-Xylene	5.00	5.014		mg/Kg		100	70 - 130
Naphthalene	2.50	2.342		mg/Kg		94	70 - 130
o-Xylene	2.50	2.493		mg/Kg		100	70 - 130
Toluene	2.50	2.500		mg/Kg		100	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.595		mg/Kg		101	70 - 130
C9-C10 Aromatics	2.50	2.507		mg/Kg		100	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.565		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-660379/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene	2.50	2.433		mg/Kg		97	70 - 130	3	25
Methyl tert-butyl ether	2.50	2.287		mg/Kg		91	70 - 130	1	25
m,p-Xylene	5.00	4.991		mg/Kg		100	70 - 130	0	25
Naphthalene	2.50	2.314		mg/Kg		93	70 - 130	1	25
o-Xylene	2.50	2.492		mg/Kg		100	70 - 130	0	25
Toluene	2.50	2.479		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)	7.50	7.444		mg/Kg		99	70 - 130	2	25

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660379/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660379

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			2.50	2.449		mg/Kg		98	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.382		mg/Kg		98	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		2.51	2.492		mg/Kg	☼	99	70 - 130
Ethylbenzene	ND		2.51	2.499		mg/Kg	☼	100	70 - 130
Methyl tert-butyl ether	ND		2.51	2.534		mg/Kg	☼	101	70 - 130
m,p-Xylene	ND		5.01	5.054		mg/Kg	☼	101	70 - 130
Naphthalene	0.101	B	2.51	2.298		mg/Kg	☼	88	70 - 130
o-Xylene	ND		2.51	2.501		mg/Kg	☼	100	70 - 130
Toluene	ND		2.51	2.512		mg/Kg	☼	100	70 - 130
C5-C8 Aliphatics (unadjusted)	ND		7.52	7.528		mg/Kg	☼	100	70 - 130
C9-C10 Aromatics	ND		2.51	2.601		mg/Kg	☼	104	70 - 130
C9-C12 Aliphatics (unadjusted)	ND		7.52	8.296		mg/Kg	☼	110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.60	2.581		mg/Kg	☼	99	70 - 130	4	50
Ethylbenzene	ND		2.60	2.605		mg/Kg	☼	100	70 - 130	4	50
Methyl tert-butyl ether	ND		2.60	2.503		mg/Kg	☼	96	70 - 130	1	50
m,p-Xylene	ND		5.20	5.221		mg/Kg	☼	100	70 - 130	3	50
Naphthalene	0.101	B	2.60	2.607		mg/Kg	☼	96	70 - 130	13	50
o-Xylene	ND		2.60	2.592		mg/Kg	☼	100	70 - 130	4	50
Toluene	ND		2.60	2.612		mg/Kg	☼	100	70 - 130	4	50
C5-C8 Aliphatics (unadjusted)	ND		7.81	7.836		mg/Kg	☼	100	70 - 130	4	50
C9-C10 Aromatics	ND		2.60	2.759		mg/Kg	☼	106	70 - 130	6	50
C9-C12 Aliphatics (unadjusted)	ND		7.81	8.758		mg/Kg	☼	112	70 - 130	5	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 480-660381/1-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Naphthalene	ND		0.0500	0.0340	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/03/23 07:25	03/04/23 01:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*104*		*70 - 130*	*03/03/23 07:25*	*03/04/23 01:28*	*1*
a,a,a-Trifluorotoluene (fid)	*111*		*70 - 130*	*03/03/23 07:25*	*03/04/23 01:28*	*1*

Lab Sample ID: LCS 480-660381/2-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660381

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.50	2.458		mg/Kg		98	70 - 130		
Ethylbenzene			2.50	2.486		mg/Kg		99	70 - 130		
Methyl tert-butyl ether			2.50	2.225		mg/Kg		89	70 - 130		
m,p-Xylene			5.00	4.947		mg/Kg		99	70 - 130		
Naphthalene			2.50	2.375		mg/Kg		95	70 - 130		
o-Xylene			2.50	2.471		mg/Kg		99	70 - 130		
Toluene			2.50	2.478		mg/Kg		99	70 - 130		
C5-C8 Aliphatics (unadjusted)			7.50	6.951		mg/Kg		93	70 - 130		
C9-C10 Aromatics			2.50	2.343		mg/Kg		94	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	6.930		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-660381/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660381

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.429		mg/Kg		97	70 - 130	1	25
Ethylbenzene			2.50	2.451		mg/Kg		98	70 - 130	1	25
Methyl tert-butyl ether			2.50	2.240		mg/Kg		90	70 - 130	1	25
m,p-Xylene			5.00	4.885		mg/Kg		98	70 - 130	1	25
Naphthalene			2.50	2.401		mg/Kg		96	70 - 130	1	25
o-Xylene			2.50	2.431		mg/Kg		97	70 - 130	2	25
Toluene			2.50	2.448		mg/Kg		98	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	6.794		mg/Kg		91	70 - 130	2	25

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660381/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660381

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			2.50	2.270		mg/Kg		91	70 - 130	3	25
C9-C12 Aliphatics (unadjusted)			7.50	6.740		mg/Kg		90	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 660381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		2.65	2.569		mg/Kg	☼	97	70 - 130
Ethylbenzene	ND		2.65	2.545		mg/Kg	☼	96	70 - 130
Methyl tert-butyl ether	ND		2.65	2.579		mg/Kg	☼	97	70 - 130
m,p-Xylene	ND		5.30	5.187		mg/Kg	☼	98	70 - 130
Naphthalene	0.0376	J	2.65	2.322		mg/Kg	☼	86	70 - 130
o-Xylene	ND		2.65	2.566		mg/Kg	☼	97	70 - 130
Toluene	ND		2.65	2.579		mg/Kg	☼	97	70 - 130
C5-C8 Aliphatics (unadjusted)	ND		7.95	7.406		mg/Kg	☼	93	70 - 130
C9-C10 Aromatics	ND		2.65	2.545		mg/Kg	☼	96	70 - 130
C9-C12 Aliphatics (unadjusted)	ND		7.95	8.025		mg/Kg	☼	101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 660381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		3.89	3.845		mg/Kg	☼	99	70 - 130	40	50
Ethylbenzene	ND		3.89	3.802		mg/Kg	☼	98	70 - 130	40	50
Methyl tert-butyl ether	ND		3.89	3.905		mg/Kg	☼	101	70 - 130	41	50
m,p-Xylene	ND		7.77	7.761		mg/Kg	☼	100	70 - 130	40	50
Naphthalene	0.0376	J	3.89	3.535		mg/Kg	☼	90	70 - 130	41	50
o-Xylene	ND		3.89	3.841		mg/Kg	☼	99	70 - 130	40	50
Toluene	ND		3.89	3.869		mg/Kg	☼	100	70 - 130	40	50
C5-C8 Aliphatics (unadjusted)	ND		11.7	10.97		mg/Kg	☼	94	70 - 130	39	50
C9-C10 Aromatics	ND		3.89	3.791		mg/Kg	☼	98	70 - 130	39	50
C9-C12 Aliphatics (unadjusted)	ND		11.7	11.77		mg/Kg	☼	101	70 - 130	38	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20226/1-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/02/23 12:19	03/06/23 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*

Lab Sample ID: LCS 620-20226/2-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20226

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1466		mg/Kg		88	40 - 140		
PCB-1016			0.167	0.1456		mg/Kg		87	40 - 140		
PCB-1260			0.167	0.1873		mg/Kg		112	40 - 140		
PCB-1260			0.167	0.1763		mg/Kg		106	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*30 - 150*
Tetrachloro-m-xylene	*87*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*108*		*30 - 150*

Lab Sample ID: LCSD 620-20226/3-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20226

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1533		mg/Kg		92	40 - 140	4	30
PCB-1016			0.167	0.1530		mg/Kg		92	40 - 140	5	30
PCB-1260			0.167	0.1998		mg/Kg		120	40 - 140	6	30
PCB-1260			0.167	0.1995		mg/Kg		120	40 - 140	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*30 - 150*
Tetrachloro-m-xylene	*86*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10051-1 MS — **Client Sample ID: 2023-MW-01-0406'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20249 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.190	0.2448		mg/Kg	☼	129	40 - 140
PCB-1260	ND	F1	0.190	0.3066	F1	mg/Kg	☼	162	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*30 - 150*
Tetrachloro-m-xylene	*75*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*

Lab Sample ID: 620-10051-1 MSD — **Client Sample ID: 2023-MW-01-0406'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20249 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.191	0.2643		mg/Kg	☼	138	40 - 140	8	30
PCB-1260	ND	F1	0.191	0.3473	F1	mg/Kg	☼	182	40 - 140	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*30 - 150*
Tetrachloro-m-xylene	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*

Lab Sample ID: 620-10051-17 MS — **Client Sample ID: 2023-SB-15-0002'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20363 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.172	0.09290		mg/Kg	☼	54	40 - 140
PCB-1260	ND		0.172	0.1417		mg/Kg	☼	82	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*30 - 150*
Tetrachloro-m-xylene	*58*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*

Lab Sample ID: 620-10051-17 MSD — **Client Sample ID: 2023-SB-15-0002'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20363 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.167	0.1193		mg/Kg	☼	71	40 - 140	25	30
PCB-1260	ND		0.167	0.1638		mg/Kg	☼	98	40 - 140	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20363

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20226

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	66		30 - 150
DCB Decachlorobiphenyl (Surr)	68		30 - 150
DCB Decachlorobiphenyl (Surr)	71		30 - 150

Lab Sample ID: MB 620-20230/1-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/02/23 13:19	03/03/23 23:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		30 - 150	03/02/23 13:19	03/03/23 23:44	1
Tetrachloro-m-xylene	85		30 - 150	03/02/23 13:19	03/03/23 23:44	1
DCB Decachlorobiphenyl (Surr)	88		30 - 150	03/02/23 13:19	03/03/23 23:44	1
DCB Decachlorobiphenyl (Surr)	93		30 - 150	03/02/23 13:19	03/03/23 23:44	1

Lab Sample ID: LCS 620-20230/2-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20230

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1155		mg/Kg		69	40 - 140		
PCB-1016			0.167	0.1197		mg/Kg		72	40 - 140		
PCB-1260			0.167	0.1439		mg/Kg		86	40 - 140		
PCB-1260			0.167	0.1283		mg/Kg		77	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	71		30 - 150
Tetrachloro-m-xylene	72		30 - 150
DCB Decachlorobiphenyl (Surr)	75		30 - 150
DCB Decachlorobiphenyl (Surr)	83		30 - 150

Lab Sample ID: LCSD 620-20230/3-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20230

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1206		mg/Kg		72	40 - 140	4	30
PCB-1016			0.167	0.1188		mg/Kg		71	40 - 140	1	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20230/3-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20230

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260			0.167	0.1513		mg/Kg		91	40 - 140	5	30
PCB-1260			0.167	0.1427		mg/Kg		86	40 - 140	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*30 - 150*
Tetrachloro-m-xylene	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*

Lab Sample ID: MB 620-20339/1-A
Matrix: Solid
Analysis Batch: 20401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/07/23 15:15	03/09/23 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*

Lab Sample ID: LCS 620-20339/2-A
Matrix: Solid
Analysis Batch: 20363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016			0.167	0.1531		mg/Kg		92	40 - 140
PCB-1016			0.167	0.1518		mg/Kg		91	40 - 140
PCB-1260			0.167	0.1764		mg/Kg		106	40 - 140
PCB-1260			0.167	0.1587		mg/Kg		95	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*30 - 150*
Tetrachloro-m-xylene	*87*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20339/3-A
Matrix: Solid
Analysis Batch: 20363

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1618		mg/Kg		97	40 - 140	6	30
PCB-1016			0.167	0.1588		mg/Kg		95	40 - 140	5	30
PCB-1260			0.167	0.1959		mg/Kg		118	40 - 140	10	30
PCB-1260			0.167	0.1702		mg/Kg		102	40 - 140	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*30 - 150*
Tetrachloro-m-xylene	*91*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-349822/1-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
HFPODA	ND		2.00	1.00	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
DONA	ND		3.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349822/1-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
M2-8:2 FTS	*117*		*15 - 200*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
M2-6:2 FTS	*100*		*10 - 200*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C4 PFHpA	*103*		*10 - 178*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C6 PFDA	*111*		*26 - 161*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C7 PFUnA	*113*		*12 - 173*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C2-PFDoDA	*109*		*11 - 166*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C3 PFBS	*103*		*27 - 179*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C3 PFHxS	*105*		*24 - 171*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C8 PFOS	*104*		*41 - 154*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d3-NMeFOSAA	*113*		*10 - 178*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d5-NEtFOSAA	*109*		*10 - 193*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C4 PFBA	*93*		*28 - 153*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C5 PFPeA	*96*		*24 - 161*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d5-NEtPFOSA	*79*		*10 - 180*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/03/23 07:13*	*03/15/23 22:59*	*1*

Lab Sample ID: LCS 410-349822/3-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	20.48		ug/Kg		82	59 - 132
Perfluoroheptanoic acid	25.0	20.91		ug/Kg		84	59 - 137
Perfluorooctanoic acid	25.0	21.12		ug/Kg		84	59 - 131
Perfluorononanoic acid	25.0	19.96		ug/Kg		80	61 - 134
Perfluorodecanoic acid	25.0	19.41		ug/Kg		78	56 - 133
Perfluorotridecanoic acid	25.0	21.67		ug/Kg		87	53 - 143
Perfluorotetradecanoic acid	25.0	20.35		ug/Kg		81	62 - 134
Perfluorobutanesulfonic acid	22.1	18.23		ug/Kg		82	54 - 130
Perfluorohexanesulfonic acid	22.8	18.08		ug/Kg		79	59 - 129
Perfluorooctanesulfonic acid	23.1	17.21		ug/Kg		74	61 - 126
NEtFOSAA	25.0	21.60		ug/Kg		86	57 - 127

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349822/3-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	20.28		ug/Kg		81	60 - 134
10:2 FTS	24.1	19.76		ug/Kg		82	46 - 143
Perfluoropentanesulfonic acid	23.5	20.49		ug/Kg		87	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.71		ug/Kg		83	59 - 132
Perfluorononanesulfonic acid	24.0	18.49		ug/Kg		77	60 - 132
Perfluorodecanesulfonic acid	24.1	17.68		ug/Kg		73	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	16.44		ug/Kg		68	38 - 145
Perfluorooctanesulfonamide	25.0	23.17		ug/Kg		93	47 - 149
Perfluorohexadecanoic acid	25.0	16.79		ug/Kg		67	38 - 147
Perfluorooctadecanoic acid	25.0	19.72		ug/Kg		79	16 - 160
Perfluorobutanoic acid	25.0	19.58		ug/Kg		78	60 - 128
Perfluoropentanoic acid	25.0	20.01		ug/Kg		80	58 - 134
NMeFOSE	25.0	22.19		ug/Kg		89	60 - 130
NMeFOSA	25.0	22.98		ug/Kg		92	60 - 129
NEtFOSE	25.0	22.57		ug/Kg		90	60 - 126
NEtFOSA	25.0	21.64		ug/Kg		87	60 - 123
HFPODA	25.0	19.23		ug/Kg		77	49 - 135
DONA	23.6	19.31		ug/Kg		82	57 - 137
9Cl-PF3ONS	23.3	17.61		ug/Kg		76	62 - 130
11Cl-PF3OUdS	23.3	17.54		ug/Kg		75	55 - 135
Perfluorododecanoic acid	25.0	20.63		ug/Kg		83	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.56		ug/Kg		84	58 - 131
Perfluoroundecanoic acid	25.0	22.05		ug/Kg		88	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.69		ug/Kg		87	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	20.84		ug/Kg		87	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*84*		*10 - 200*
M2-8:2 FTS	*97*		*15 - 200*
M2-6:2 FTS	*93*		*10 - 200*
13C5 PFHxA	*95*		*10 - 174*
13C4 PFHpA	*98*		*10 - 178*
13C8 PFOA	*95*		*26 - 159*
13C9 PFNA	*100*		*26 - 165*
13C6 PFDA	*99*		*26 - 161*
13C7 PFUnA	*95*		*12 - 173*
13C2-PFDoDA	*98*		*11 - 166*
13C2 PFTeDA	*125*		*10 - 169*
13C3 PFBS	*99*		*27 - 179*
13C3 PFHxS	*96*		*24 - 171*
13C8 PFOS	*100*		*41 - 154*
d3-NMeFOSAA	*108*		*10 - 178*
d5-NEtFOSAA	*98*		*10 - 193*
13C8 FOSA	*81*		*14 - 163*
13C4 PFBA	*96*		*28 - 153*
13C5 PFPeA	*96*		*24 - 161*
d7-N-MeFOSE-M	*82*		*10 - 179*
d3-NMePFOSA	*65*		*10 - 175*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349822/3-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349822

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	78		10 - 185
d5-NEtPFOSA	68		10 - 180
13C3 HFPO-DA	89		10 - 169

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		24.5	18.58		ug/Kg	☼	76	59 - 132
Perfluoroheptanoic acid	ND		24.5	20.43		ug/Kg	☼	83	59 - 137
Perfluorooctanoic acid	ND		24.5	21.79		ug/Kg	☼	89	59 - 131
Perfluorononanoic acid	ND		24.5	21.01		ug/Kg	☼	86	61 - 134
Perfluorodecanoic acid	ND		24.5	19.39		ug/Kg	☼	79	56 - 133
Perfluorotridecanoic acid	ND		24.5	22.77		ug/Kg	☼	93	53 - 143
Perfluorotetradecanoic acid	ND		24.5	20.45		ug/Kg	☼	84	62 - 134
Perfluorobutanesulfonic acid	ND		21.7	17.81		ug/Kg	☼	82	54 - 130
Perfluorohexanesulfonic acid	ND		22.3	17.78		ug/Kg	☼	80	59 - 129
Perfluorooctanesulfonic acid	ND		22.6	19.10		ug/Kg	☼	84	61 - 126
NEtFOSAA	ND		24.5	20.38		ug/Kg	☼	83	57 - 127
NMeFOSAA	ND		24.5	23.31		ug/Kg	☼	95	60 - 134
10:2 FTS	ND		23.6	22.12		ug/Kg	☼	94	46 - 143
Perfluoropentanesulfonic acid	ND		23.0	19.42		ug/Kg	☼	85	57 - 133
Perfluoroheptanesulfonic acid	ND		23.3	19.12		ug/Kg	☼	82	59 - 132
Perfluorononanesulfonic acid	ND		23.5	19.64		ug/Kg	☼	84	60 - 132
Perfluorodecanesulfonic acid	ND		23.6	18.83		ug/Kg	☼	80	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		23.7	19.80		ug/Kg	☼	84	38 - 145
Perfluorooctanesulfonamide	ND		24.5	22.20		ug/Kg	☼	91	47 - 149
Perfluorohexadecanoic acid	ND		24.5	21.03		ug/Kg	☼	86	38 - 147
Perfluorooctadecanoic acid	ND		24.5	22.30		ug/Kg	☼	91	16 - 160
Perfluorobutanoic acid	ND		24.5	19.41		ug/Kg	☼	79	60 - 128
Perfluoropentanoic acid	ND		24.5	19.98		ug/Kg	☼	82	58 - 134
NMeFOSE	ND		24.5	22.55		ug/Kg	☼	92	60 - 130
NMeFOSA	ND		24.5	21.62		ug/Kg	☼	88	60 - 129
NEtFOSE	ND		24.5	21.97		ug/Kg	☼	90	60 - 126
NEtFOSA	ND		24.5	21.83		ug/Kg	☼	89	60 - 123
HFPODA	ND		24.5	21.07		ug/Kg	☼	86	49 - 135
DONA	ND		23.1	18.73		ug/Kg	☼	81	57 - 137
9Cl-PF3ONS	ND		22.8	18.71		ug/Kg	☼	82	62 - 130
11Cl-PF3OUdS	ND		22.8	19.18		ug/Kg	☼	84	55 - 135
Perfluorododecanoic acid	ND		24.5	20.32		ug/Kg	☼	83	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		22.9	17.94		ug/Kg	☼	79	58 - 131
Perfluoroundecanoic acid	ND		24.5	19.71		ug/Kg	☼	81	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		23.2	19.09		ug/Kg	☼	82	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		23.4	21.54		ug/Kg	☼	92	55 - 133

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	87		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-8:2 FTS	95		15 - 200
M2-6:2 FTS	91		10 - 200
13C5 PFHxA	99		10 - 174
13C4 PFHpA	99		10 - 178
13C8 PFOA	94		26 - 159
13C9 PFNA	95		26 - 165
13C6 PFDA	99		26 - 161
13C7 PFUnA	107		12 - 173
13C2-PFDoDA	98		11 - 166
13C2 PFTeDA	116		10 - 169
13C3 PFBS	105		27 - 179
13C3 PFHxS	106		24 - 171
13C8 PFOS	103		41 - 154
d3-NMeFOSAA	31		10 - 178
d5-NEtFOSAA	37		10 - 193
13C8 FOSA	96		14 - 163
13C4 PFBA	90		28 - 153
13C5 PFPeA	93		24 - 161
d7-N-MeFOSE-M	90		10 - 179
d3-NMePFOSA	79		10 - 175
d9-N-EtFOSE-M	92		10 - 185
d5-NEtPFOSA	79		10 - 180
13C3 HFPO-DA	88		10 - 169

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		24.0	18.46		ug/Kg	☼	77	59 - 132	1	30
Perfluoroheptanoic acid	ND		24.0	20.28		ug/Kg	☼	84	59 - 137	1	30
Perfluorooctanoic acid	ND		24.0	20.81		ug/Kg	☼	87	59 - 131	5	30
Perfluorononanoic acid	ND		24.0	20.39		ug/Kg	☼	85	61 - 134	3	30
Perfluorodecanoic acid	ND		24.0	19.61		ug/Kg	☼	82	56 - 133	1	30
Perfluorotridecanoic acid	ND		24.0	20.50		ug/Kg	☼	85	53 - 143	10	30
Perfluorotetradecanoic acid	ND		24.0	20.48		ug/Kg	☼	85	62 - 134	0	30
Perfluorobutanesulfonic acid	ND		21.3	18.03		ug/Kg	☼	85	54 - 130	1	30
Perfluorohexanesulfonic acid	ND		21.9	17.45		ug/Kg	☼	80	59 - 129	2	30
Perfluorooctanesulfonic acid	ND		22.2	18.64		ug/Kg	☼	84	61 - 126	2	30
NEtFOSAA	ND		24.0	21.33		ug/Kg	☼	89	57 - 127	5	30
NMeFOSAA	ND		24.0	23.69		ug/Kg	☼	99	60 - 134	2	30
10:2 FTS	ND		23.2	19.36		ug/Kg	☼	84	46 - 143	13	30
Perfluoropentanesulfonic acid	ND		22.5	19.95		ug/Kg	☼	89	57 - 133	3	30
Perfluoroheptanesulfonic acid	ND		22.9	18.98		ug/Kg	☼	83	59 - 132	1	30
Perfluorononanesulfonic acid	ND		23.1	18.69		ug/Kg	☼	81	60 - 132	5	30
Perfluorodecanesulfonic acid	ND		23.2	18.27		ug/Kg	☼	79	57 - 132	3	30
Perfluorododecanesulfonic acid (PFDoS)	ND		23.3	18.87		ug/Kg	☼	81	38 - 145	5	30
Perfluorooctanesulfonamide	ND		24.0	21.99		ug/Kg	☼	92	47 - 149	1	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexadecanoic acid	ND		24.0	22.06		ug/Kg	☼	92	38 - 147	5	30
Perfluorooctadecanoic acid	ND		24.0	23.19		ug/Kg	☼	97	16 - 160	4	30
Perfluorobutanoic acid	ND		24.0	19.32		ug/Kg	☼	80	60 - 128	0	30
Perfluoropentanoic acid	ND		24.0	20.55		ug/Kg	☼	86	58 - 134	3	30
NMeFOSE	ND		24.0	21.51		ug/Kg	☼	90	60 - 130	5	30
NMeFOSA	ND		24.0	21.59		ug/Kg	☼	90	60 - 129	0	30
NEtFOSE	ND		24.0	22.20		ug/Kg	☼	92	60 - 126	1	30
NEtFOSA	ND		24.0	21.80		ug/Kg	☼	91	60 - 123	0	30
HFPODA	ND		24.0	18.62		ug/Kg	☼	78	49 - 135	12	30
DONA	ND		22.7	19.04		ug/Kg	☼	84	57 - 137	2	30
9Cl-PF3ONS	ND		22.3	18.53		ug/Kg	☼	83	62 - 130	1	30
11Cl-PF3OUdS	ND		22.3	19.03		ug/Kg	☼	85	55 - 135	1	30
Perfluorododecanoic acid	ND		24.0	20.03		ug/Kg	☼	83	60 - 135	1	30
4:2 Fluorotelomer sulfonic acid	ND		22.4	18.22		ug/Kg	☼	81	58 - 131	2	30
Perfluoroundecanoic acid	ND		24.0	22.12		ug/Kg	☼	92	60 - 134	12	30
6:2 Fluorotelomer sulfonic acid	ND		22.8	20.54		ug/Kg	☼	90	59 - 135	7	30
8:2 Fluorotelomer sulfonic acid	ND		23.0	19.39		ug/Kg	☼	84	55 - 133	11	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*84*		*10 - 200*
M2-8:2 FTS	*98*		*15 - 200*
M2-6:2 FTS	*87*		*10 - 200*
13C5 PFHxA	*95*		*10 - 174*
13C4 PFHpA	*95*		*10 - 178*
13C8 PFOA	*95*		*26 - 159*
13C9 PFNA	*90*		*26 - 165*
13C6 PFDA	*91*		*26 - 161*
13C7 PFUnA	*94*		*12 - 173*
13C2-PFDoDA	*97*		*11 - 166*
13C2 PFTeDA	*98*		*10 - 169*
13C3 PFBS	*98*		*27 - 179*
13C3 PFHxS	*105*		*24 - 171*
13C8 PFOS	*95*		*41 - 154*
d3-NMeFOSAA	*22*		*10 - 178*
d5-NEtFOSAA	*27*		*10 - 193*
13C8 FOSA	*92*		*14 - 163*
13C4 PFBA	*86*		*28 - 153*
13C5 PFPeA	*85*		*24 - 161*
d7-N-MeFOSE-M	*85*		*10 - 179*
d3-NMePFOSA	*73*		*10 - 175*
d9-N-EtFOSE-M	*85*		*10 - 185*
d5-NEtPFOSA	*73*		*10 - 180*
13C3 HFPO-DA	*93*		*10 - 169*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349825/1-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
HFPODA	ND		2.00	1.00	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
DONA	ND		3.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
M2-8:2 FTS	*107*		*15 - 200*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
M2-6:2 FTS	*103*		*10 - 200*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C5 PFHxA	*110*		*10 - 174*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C4 PFHpA	*114*		*10 - 178*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C8 PFOA	*116*		*26 - 159*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C9 PFNA	*112*		*26 - 165*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C7 PFUnA	*121*		*12 - 173*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*03/03/23 07:14*	*03/14/23 22:33*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349825/1-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349825

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	124		10 - 169	03/03/23 07:14	03/14/23 22:33	1
13C3 PFBS	117		27 - 179	03/03/23 07:14	03/14/23 22:33	1
13C3 PFHxS	100		24 - 171	03/03/23 07:14	03/14/23 22:33	1
13C8 PFOS	110		41 - 154	03/03/23 07:14	03/14/23 22:33	1
d3-NMeFOSAA	103		10 - 178	03/03/23 07:14	03/14/23 22:33	1
d5-NEtFOSAA	109		10 - 193	03/03/23 07:14	03/14/23 22:33	1
13C8 FOSA	97		14 - 163	03/03/23 07:14	03/14/23 22:33	1
13C4 PFBA	103		28 - 153	03/03/23 07:14	03/14/23 22:33	1
13C5 PFPeA	110		24 - 161	03/03/23 07:14	03/14/23 22:33	1
d7-N-MeFOSE-M	90		10 - 179	03/03/23 07:14	03/14/23 22:33	1
d3-NMePFOSA	69		10 - 175	03/03/23 07:14	03/14/23 22:33	1
d9-N-EtFOSE-M	93		10 - 185	03/03/23 07:14	03/14/23 22:33	1
d5-NEtPFOSA	71		10 - 180	03/03/23 07:14	03/14/23 22:33	1
13C3 HFPO-DA	102		10 - 169	03/03/23 07:14	03/14/23 22:33	1

Lab Sample ID: LCS 410-349825/3-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	18.70		ug/Kg		75	59 - 132
Perfluoroheptanoic acid	25.0	21.31		ug/Kg		85	59 - 137
Perfluorooctanoic acid	25.0	21.00		ug/Kg		84	59 - 131
Perfluorononanoic acid	25.0	21.61		ug/Kg		86	61 - 134
Perfluorodecanoic acid	25.0	18.94		ug/Kg		76	56 - 133
Perfluorotridecanoic acid	25.0	22.04		ug/Kg		88	53 - 143
Perfluorotetradecanoic acid	25.0	19.92		ug/Kg		80	62 - 134
Perfluorobutanesulfonic acid	22.1	18.47		ug/Kg		83	54 - 130
Perfluorohexanesulfonic acid	22.8	18.37		ug/Kg		81	59 - 129
Perfluorooctanesulfonic acid	23.1	17.82		ug/Kg		77	61 - 126
NEtFOSAA	25.0	20.03		ug/Kg		80	57 - 127
NMeFOSAA	25.0	22.82		ug/Kg		91	60 - 134
10:2 FTS	24.1	21.76		ug/Kg		90	46 - 143
Perfluoropentanesulfonic acid	23.5	20.48		ug/Kg		87	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.36		ug/Kg		81	59 - 132
Perfluorononanesulfonic acid	24.0	18.66		ug/Kg		78	60 - 132
Perfluorodecanesulfonic acid	24.1	17.26		ug/Kg		72	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	18.64		ug/Kg		77	38 - 145
Perfluorooctanesulfonamide	25.0	23.93		ug/Kg		96	47 - 149
Perfluorohexadecanoic acid	25.0	21.14		ug/Kg		85	38 - 147
Perfluorooctadecanoic acid	25.0	24.49		ug/Kg		98	16 - 160
Perfluorobutanoic acid	25.0	19.84		ug/Kg		79	60 - 128
Perfluoropentanoic acid	25.0	20.03		ug/Kg		80	58 - 134
NMeFOSE	25.0	22.56		ug/Kg		90	60 - 130
NMeFOSA	25.0	22.06		ug/Kg		88	60 - 129
NEtFOSE	25.0	23.22		ug/Kg		93	60 - 126
NEtFOSA	25.0	22.36		ug/Kg		89	60 - 123
HFPODA	25.0	19.44		ug/Kg		78	49 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349825/3-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	23.6	19.52		ug/Kg		83	57 - 137
9Cl-PF3ONS	23.3	18.29		ug/Kg		79	62 - 130
11Cl-PF3OUdS	23.3	17.82		ug/Kg		77	55 - 135
Perfluorododecanoic acid	25.0	20.92		ug/Kg		84	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.16		ug/Kg		86	58 - 131
Perfluoroundecanoic acid	25.0	21.95		ug/Kg		88	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.30		ug/Kg		94	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	22.41		ug/Kg		94	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*89*		*10 - 200*
M2-8:2 FTS	*91*		*15 - 200*
M2-6:2 FTS	*90*		*10 - 200*
13C5 PFHxA	*101*		*10 - 174*
13C4 PFHpA	*99*		*10 - 178*
13C8 PFOA	*98*		*26 - 159*
13C9 PFNA	*97*		*26 - 165*
13C6 PFDA	*100*		*26 - 161*
13C7 PFUnA	*99*		*12 - 173*
13C2-PFDoDA	*99*		*11 - 166*
13C2 PFTeDA	*106*		*10 - 169*
13C3 PFBS	*96*		*27 - 179*
13C3 PFHxS	*99*		*24 - 171*
13C8 PFOS	*104*		*41 - 154*
d3-NMeFOSAA	*94*		*10 - 178*
d5-NEtFOSAA	*101*		*10 - 193*
13C8 FOSA	*84*		*14 - 163*
13C4 PFBA	*94*		*28 - 153*
13C5 PFPeA	*96*		*24 - 161*
d7-N-MeFOSE-M	*79*		*10 - 179*
d3-NMePFOSA	*68*		*10 - 175*
d9-N-EtFOSE-M	*80*		*10 - 185*
d5-NEtPFOSA	*69*		*10 - 180*
13C3 HFPO-DA	*93*		*10 - 169*

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		26.8	20.39		ug/Kg	☼	76	59 - 132
Perfluoroheptanoic acid	ND		26.8	22.65		ug/Kg	☼	85	59 - 137
Perfluorooctanoic acid	ND		26.8	22.51		ug/Kg	☼	84	59 - 131
Perfluorononanoic acid	ND		26.8	22.21		ug/Kg	☼	83	61 - 134
Perfluorodecanoic acid	ND		26.8	20.21		ug/Kg	☼	76	56 - 133
Perfluorotridecanoic acid	ND		26.8	24.32		ug/Kg	☼	91	53 - 143
Perfluorotetradecanoic acid	ND		26.8	22.51		ug/Kg	☼	84	62 - 134
Perfluorobutanesulfonic acid	ND		23.7	19.41		ug/Kg	☼	82	54 - 130
Perfluorohexanesulfonic acid	ND		24.4	19.37		ug/Kg	☼	79	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	ND		24.8	19.13		ug/Kg	☼	77	61 - 126
NEtFOSAA	ND		26.8	24.95		ug/Kg	☼	93	57 - 127
NMeFOSAA	ND		26.8	21.08		ug/Kg	☼	79	60 - 134
10:2 FTS	ND		25.8	24.85		ug/Kg	☼	96	46 - 143
Perfluoropentanesulfonic acid	ND		25.1	21.65		ug/Kg	☼	86	57 - 133
Perfluoroheptanesulfonic acid	ND		25.5	20.87		ug/Kg	☼	82	59 - 132
Perfluorononanesulfonic acid	ND		25.7	19.74		ug/Kg	☼	77	60 - 132
Perfluorodecanesulfonic acid	ND		25.8	18.82		ug/Kg	☼	73	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		25.9	20.61		ug/Kg	☼	80	38 - 145
Perfluorooctanesulfonamide	ND		26.8	23.16		ug/Kg	☼	87	47 - 149
Perfluorohexadecanoic acid	ND		26.8	22.61		ug/Kg	☼	85	38 - 147
Perfluorooctadecanoic acid	ND		26.8	23.81		ug/Kg	☼	89	16 - 160
Perfluorobutanoic acid	ND		26.8	21.45		ug/Kg	☼	80	60 - 128
Perfluoropentanoic acid	ND		26.8	21.49		ug/Kg	☼	80	58 - 134
NMeFOSE	ND		26.8	23.76		ug/Kg	☼	89	60 - 130
NMeFOSA	ND		26.8	23.53		ug/Kg	☼	88	60 - 129
NEtFOSE	ND		26.8	23.72		ug/Kg	☼	89	60 - 126
NEtFOSA	ND		26.8	24.64		ug/Kg	☼	92	60 - 123
HFPODA	ND		26.8	18.02		ug/Kg	☼	67	49 - 135
DONA	ND		25.3	21.18		ug/Kg	☼	84	57 - 137
9Cl-PF3ONS	ND		24.9	19.61		ug/Kg	☼	79	62 - 130
11Cl-PF3OUdS	ND		24.9	19.77		ug/Kg	☼	79	55 - 135
Perfluorododecanoic acid	ND		26.8	22.66		ug/Kg	☼	85	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.0	21.81		ug/Kg	☼	87	58 - 131
Perfluoroundecanoic acid	ND		26.8	22.55		ug/Kg	☼	84	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		25.4	24.00		ug/Kg	☼	95	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		25.6	23.34		ug/Kg	☼	91	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*66*		*10 - 200*
M2-8:2 FTS	*71*		*15 - 200*
M2-6:2 FTS	*68*		*10 - 200*
13C5 PFHxA	*85*		*10 - 174*
13C4 PFHpA	*82*		*10 - 178*
13C8 PFOA	*85*		*26 - 159*
13C9 PFNA	*81*		*26 - 165*
13C6 PFDA	*80*		*26 - 161*
13C7 PFUnA	*80*		*12 - 173*
13C2-PFDoDA	*75*		*11 - 166*
13C2 PFTeDA	*86*		*10 - 169*
13C3 PFBS	*88*		*27 - 179*
13C3 PFHxS	*93*		*24 - 171*
13C8 PFOS	*95*		*41 - 154*
d3-NMeFOSAA	*22*		*10 - 178*
d5-NEtFOSAA	*24*		*10 - 193*
13C8 FOSA	*105*		*14 - 163*
13C4 PFBA	*78*		*28 - 153*
13C5 PFPeA	*80*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d7-N-MeFOSE-M	102		10 - 179
d3-NMePFOSA	95		10 - 175
d9-N-EtFOSE-M	101		10 - 185
d5-NEtPFOSA	94		10 - 180
13C3 HFPO-DA	97		10 - 169

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		29.1	21.34		ug/Kg	☼	73	59 - 132	5	30
Perfluoroheptanoic acid	ND		29.1	23.47		ug/Kg	☼	81	59 - 137	4	30
Perfluorooctanoic acid	ND		29.1	25.49		ug/Kg	☼	87	59 - 131	12	30
Perfluorononanoic acid	ND		29.1	23.92		ug/Kg	☼	82	61 - 134	7	30
Perfluorodecanoic acid	ND		29.1	19.95		ug/Kg	☼	68	56 - 133	1	30
Perfluorotridecanoic acid	ND		29.1	25.48		ug/Kg	☼	87	53 - 143	5	30
Perfluorotetradecanoic acid	ND		29.1	25.15		ug/Kg	☼	86	62 - 134	11	30
Perfluorobutanesulfonic acid	ND		25.8	21.60		ug/Kg	☼	84	54 - 130	11	30
Perfluorohexanesulfonic acid	ND		26.6	20.97		ug/Kg	☼	79	59 - 129	8	30
Perfluorooctanesulfonic acid	ND		27.0	21.48		ug/Kg	☼	80	61 - 126	12	30
NEtFOSAA	ND		29.1	23.84		ug/Kg	☼	82	57 - 127	5	30
NMeFOSAA	ND		29.1	23.71		ug/Kg	☼	81	60 - 134	12	30
10:2 FTS	ND		28.1	26.45		ug/Kg	☼	94	46 - 143	6	30
Perfluoropentanesulfonic acid	ND		27.3	23.38		ug/Kg	☼	86	57 - 133	8	30
Perfluoroheptanesulfonic acid	ND		27.7	22.43		ug/Kg	☼	81	59 - 132	7	30
Perfluorononanesulfonic acid	ND		28.0	22.05		ug/Kg	☼	79	60 - 132	11	30
Perfluorodecanesulfonic acid	ND		28.1	21.28		ug/Kg	☼	76	57 - 132	12	30
Perfluorododecanesulfonic acid (PFDoS)	ND		28.2	22.47		ug/Kg	☼	80	38 - 145	9	30
Perfluorooctanesulfonamide	ND		29.1	25.56		ug/Kg	☼	88	47 - 149	10	30
Perfluorohexadecanoic acid	ND		29.1	21.56		ug/Kg	☼	74	38 - 147	5	30
Perfluorooctadecanoic acid	ND		29.1	26.23		ug/Kg	☼	90	16 - 160	10	30
Perfluorobutanoic acid	ND		29.1	22.76		ug/Kg	☼	78	60 - 128	6	30
Perfluoropentanoic acid	ND		29.1	24.25		ug/Kg	☼	83	58 - 134	12	30
NMeFOSE	ND		29.1	25.53		ug/Kg	☼	88	60 - 130	7	30
NMeFOSA	ND		29.1	25.34		ug/Kg	☼	87	60 - 129	7	30
NEtFOSE	ND		29.1	25.82		ug/Kg	☼	89	60 - 126	8	30
NEtFOSA	ND		29.1	24.62		ug/Kg	☼	84	60 - 123	0	30
HFPODA	ND		29.1	20.77		ug/Kg	☼	71	49 - 135	14	30
DONA	ND		27.5	21.96		ug/Kg	☼	80	57 - 137	4	30
9Cl-PF3ONS	ND		27.1	21.38		ug/Kg	☼	79	62 - 130	9	30
11Cl-PF3OUdS	ND		27.1	21.50		ug/Kg	☼	79	55 - 135	8	30
Perfluorododecanoic acid	ND		29.1	25.41		ug/Kg	☼	87	60 - 135	11	30
4:2 Fluorotelomer sulfonic acid	ND		27.2	21.60		ug/Kg	☼	79	58 - 131	1	30
Perfluoroundecanoic acid	ND		29.1	25.54		ug/Kg	☼	88	60 - 134	12	30
6:2 Fluorotelomer sulfonic acid	ND		27.6	24.66		ug/Kg	☼	89	59 - 135	3	30
8:2 Fluorotelomer sulfonic acid	ND		27.9	25.38		ug/Kg	☼	91	55 - 133	8	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	72		10 - 200
M2-8:2 FTS	74		15 - 200
M2-6:2 FTS	73		10 - 200
13C5 PFHxA	87		10 - 174
13C4 PFHpA	87		10 - 178
13C8 PFOA	82		26 - 159
13C9 PFNA	83		26 - 165
13C6 PFDA	85		26 - 161
13C7 PFUnA	79		12 - 173
13C2-PFDoDA	76		11 - 166
13C2 PFTeDA	92		10 - 169
13C3 PFBS	86		27 - 179
13C3 PFHxS	93		24 - 171
13C8 PFOS	88		41 - 154
d3-NMeFOSAA	26		10 - 178
d5-NEtFOSAA	31		10 - 193
13C8 FOSA	93		14 - 163
13C4 PFBA	77		28 - 153
13C5 PFPeA	78		24 - 161
d7-N-MeFOSE-M	90		10 - 179
d3-NMePFOSA	83		10 - 175
d9-N-EtFOSE-M	91		10 - 185
d5-NEtPFOSA	85		10 - 180
13C3 HFPO-DA	89		10 - 169

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
HFPODA	ND		2.00	1.00	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
DONA	ND		3.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-8:2 FTS	*130*		*15 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-6:2 FTS	*139*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFHxA	*136*		*10 - 174*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFHpA	*146*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOA	*144*		*26 - 159*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C9 PFNA	*131*		*26 - 165*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C6 PFDA	*136*		*26 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C7 PFUnA	*139*		*12 - 173*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2-PFDoDA	*138*		*11 - 166*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFHxS	*150*		*24 - 171*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMeFOSAA	*114*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtFOSAA	*114*		*10 - 193*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 FOSA	*77*		*14 - 163*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFBA	*114*		*28 - 153*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFPeA	*118*		*24 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d7-N-MeFOSE-M	*68*		*10 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMePFOSA	*25*		*10 - 175*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d9-N-EtFOSE-M	*73*		*10 - 185*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtPFOSA	*26*		*10 - 180*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 HFPO-DA	*124*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	18.06		ug/Kg		72	59 - 132
Perfluoroheptanoic acid	25.0	19.47		ug/Kg		78	59 - 137

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	25.0	18.41		ug/Kg		74	59 - 131
Perfluorononanoic acid	25.0	20.12		ug/Kg		80	61 - 134
Perfluorodecanoic acid	25.0	18.34		ug/Kg		73	56 - 133
Perfluorotridecanoic acid	25.0	19.39		ug/Kg		78	53 - 143
Perfluorotetradecanoic acid	25.0	18.76		ug/Kg		75	62 - 134
Perfluorobutanesulfonic acid	22.1	17.21		ug/Kg		78	54 - 130
Perfluorohexanesulfonic acid	22.8	16.76		ug/Kg		74	59 - 129
Perfluorooctanesulfonic acid	23.1	17.28		ug/Kg		75	61 - 126
NEtFOSAA	25.0	20.51		ug/Kg		82	57 - 127
NMeFOSAA	25.0	21.10		ug/Kg		84	60 - 134
10:2 FTS	24.1	16.95		ug/Kg		70	46 - 143
Perfluoropentanesulfonic acid	23.5	17.61		ug/Kg		75	57 - 133
Perfluoroheptanesulfonic acid	23.8	18.09		ug/Kg		76	59 - 132
Perfluorononanesulfonic acid	24.0	18.24		ug/Kg		76	60 - 132
Perfluorodecanesulfonic acid	24.1	19.20		ug/Kg		80	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	18.47		ug/Kg		76	38 - 145
Perfluorooctanesulfonamide	25.0	19.43		ug/Kg		78	47 - 149
Perfluorohexadecanoic acid	25.0	16.54		ug/Kg		66	38 - 147
Perfluorooctadecanoic acid	25.0	17.26		ug/Kg		69	16 - 160
Perfluorobutanoic acid	25.0	17.18		ug/Kg		69	60 - 128
Perfluoropentanoic acid	25.0	17.58		ug/Kg		70	58 - 134
NMeFOSE	25.0	20.91		ug/Kg		84	60 - 130
NMeFOSA	25.0	20.01		ug/Kg		80	60 - 129
NEtFOSE	25.0	18.38		ug/Kg		74	60 - 126
NEtFOSA	25.0	20.72		ug/Kg		83	60 - 123
HFPODA	25.0	19.86		ug/Kg		79	49 - 135
DONA	23.6	17.05		ug/Kg		72	57 - 137
9Cl-PF3ONS	23.3	17.98		ug/Kg		77	62 - 130
11Cl-PF3OUdS	23.3	17.23		ug/Kg		74	55 - 135
Perfluorododecanoic acid	25.0	18.00		ug/Kg		72	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.57		ug/Kg		84	58 - 131
Perfluoroundecanoic acid	25.0	18.88		ug/Kg		76	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	17.47		ug/Kg		74	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.38		ug/Kg		77	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*115*		*10 - 200*
M2-8:2 FTS	*126*		*15 - 200*
M2-6:2 FTS	*117*		*10 - 200*
13C5 PFHxA	*129*		*10 - 174*
13C4 PFHpA	*129*		*10 - 178*
13C8 PFOA	*130*		*26 - 159*
13C9 PFNA	*126*		*26 - 165*
13C6 PFDA	*131*		*26 - 161*
13C7 PFUnA	*138*		*12 - 173*
13C2-PFDoDA	*130*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*136*		*27 - 179*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFHxS	139		24 - 171
13C8 PFOS	133		41 - 154
d3-NMeFOSAA	123		10 - 178
d5-NEtFOSAA	126		10 - 193
13C8 FOSA	76		14 - 163
13C4 PFBA	118		28 - 153
13C5 PFPeA	120		24 - 161
d7-N-MeFOSE-M	69		10 - 179
d3-NMePFOSA	53		10 - 175
d9-N-EtFOSE-M	79		10 - 185
d5-NEtPFOSA	50		10 - 180
13C3 HFPO-DA	112		10 - 169

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-350292/1-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Arsenic	ND		3.00	1.40	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Barium	ND		0.500	0.150	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Beryllium	ND		0.500	0.100	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Cadmium	ND		0.500	0.100	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Chromium	ND		1.50	0.350	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Lead	ND		1.50	0.600	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Nickel	ND		1.00	0.260	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Selenium	ND		5.00	1.50	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Thallium	ND		3.00	1.30	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Vanadium	ND		1.00	0.430	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Zinc	ND		2.00	0.800	mg/Kg		03/05/23 19:48	03/09/23 18:10	1

Lab Sample ID: LCS 410-350292/2-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.11		mg/Kg		101	80 - 120
Arsenic	50.0	51.25		mg/Kg		102	80 - 120
Barium	50.0	52.04		mg/Kg		104	80 - 120
Beryllium	5.00	5.137		mg/Kg		103	80 - 120
Cadmium	5.00	5.129		mg/Kg		103	80 - 120
Chromium	50.0	52.60		mg/Kg		105	80 - 120
Lead	5.00	5.534		mg/Kg		111	80 - 120
Nickel	50.0	52.43		mg/Kg		105	80 - 120
Selenium	10.0	9.797		mg/Kg		98	80 - 120
Silver	5.00	5.350	^3+	mg/Kg		107	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-350292/2-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	10.0	10.27		mg/Kg		103	80 - 120
Vanadium	50.0	50.53		mg/Kg		101	80 - 120
Zinc	50.0	50.23		mg/Kg		100	80 - 120

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		7.11	6.511		mg/Kg	☼	92	75 - 125
Arsenic	1.98	J	35.5	38.33		mg/Kg	☼	102	75 - 125
Barium	12.5		35.5	53.75		mg/Kg	☼	116	75 - 125
Beryllium	0.191	J	3.55	3.900		mg/Kg	☼	104	75 - 125
Cadmium	ND		3.55	3.537		mg/Kg	☼	100	75 - 125
Chromium	3.82		35.5	41.12		mg/Kg	☼	105	75 - 125
Lead	2.29		3.55	6.198		mg/Kg	☼	110	75 - 125
Nickel	1.80		35.5	37.88		mg/Kg	☼	102	75 - 125
Selenium	ND	F2	7.11	6.767		mg/Kg	☼	95	75 - 125
Silver	ND	^3+	3.55	3.797	^3+	mg/Kg	☼	107	75 - 125
Thallium	ND	F2	7.11	5.585		mg/Kg	☼	79	75 - 125
Vanadium	5.44		35.5	42.60		mg/Kg	☼	105	75 - 125
Zinc	7.46		35.5	46.26		mg/Kg	☼	109	75 - 125

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		9.18	8.536		mg/Kg	☼	93	75 - 125	27	30
Arsenic	1.98	J	45.9	48.85		mg/Kg	☼	102	75 - 125	24	30
Barium	12.5		45.9	64.53		mg/Kg	☼	113	75 - 125	18	30
Beryllium	0.191	J	4.59	4.931		mg/Kg	☼	103	75 - 125	23	30
Cadmium	ND		4.59	4.571		mg/Kg	☼	100	75 - 125	26	30
Chromium	3.82		45.9	52.87		mg/Kg	☼	107	75 - 125	25	30
Lead	2.29		4.59	7.641		mg/Kg	☼	116	75 - 125	21	30
Nickel	1.80		45.9	48.74		mg/Kg	☼	102	75 - 125	25	30
Selenium	ND	F2	9.18	9.358	F2	mg/Kg	☼	102	75 - 125	32	30
Silver	ND	^3+	4.59	4.893	^3+	mg/Kg	☼	107	75 - 125	25	30
Thallium	ND	F2	9.18	7.844	F2	mg/Kg	☼	85	75 - 125	34	30
Vanadium	5.44		45.9	53.36		mg/Kg	☼	104	75 - 125	22	30
Zinc	7.46		45.9	54.84		mg/Kg	☼	103	75 - 125	17	30

Lab Sample ID: 620-10051-17 DU
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	1.98	J	1.999	J	mg/Kg	☼	1	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10051-17 DU
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	12.5		14.74		mg/Kg	☼	17	30
Beryllium	0.191	J	0.2248	J	mg/Kg	☼	16	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	3.82		4.767		mg/Kg	☼	22	30
Lead	2.29		2.199		mg/Kg	☼	4	30
Nickel	1.80		1.909		mg/Kg	☼	6	30
Selenium	ND	F2	ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Thallium	ND	F2	ND		mg/Kg	☼	NC	30
Vanadium	5.44		7.142		mg/Kg	☼	27	30
Zinc	7.46		9.040		mg/Kg	☼	19	30

Lab Sample ID: MB 410-350293/1-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Barium	ND		0.500	0.150	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Beryllium	ND		0.500	0.100	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Lead	ND		1.50	0.600	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Zinc	ND	^5-	2.00	0.800	mg/Kg		03/05/23 19:57	03/08/23 18:42	1

Lab Sample ID: LCS 410-350293/2-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.01		mg/Kg		100	80 - 120
Arsenic	50.0	49.42		mg/Kg		99	80 - 120
Barium	50.0	50.66		mg/Kg		101	80 - 120
Beryllium	5.00	5.107		mg/Kg		102	80 - 120
Cadmium	5.00	5.021		mg/Kg		100	80 - 120
Chromium	50.0	50.93		mg/Kg		102	80 - 120
Lead	5.00	5.480		mg/Kg		110	80 - 120
Nickel	50.0	51.24		mg/Kg		102	80 - 120
Selenium	10.0	10.31		mg/Kg		103	80 - 120
Silver	5.00	5.400	^3+	mg/Kg		108	80 - 120
Thallium	10.0	10.64		mg/Kg		106	80 - 120
Vanadium	50.0	49.64		mg/Kg		99	80 - 120
Zinc	50.0	49.10	^5-	mg/Kg		98	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		8.29	7.890		mg/Kg	☼	95	75 - 125
Arsenic	2.29	J	41.4	43.35		mg/Kg	☼	99	75 - 125
Barium	17.5		41.4	61.12		mg/Kg	☼	105	75 - 125
Beryllium	0.349	J	4.14	4.595		mg/Kg	☼	102	75 - 125
Cadmium	ND		4.14	4.111		mg/Kg	☼	99	75 - 125
Chromium	7.44		41.4	49.00		mg/Kg	☼	100	75 - 125
Lead	3.58		4.14	8.627		mg/Kg	☼	122	75 - 125
Nickel	2.97		41.4	44.16		mg/Kg	☼	99	75 - 125
Selenium	ND		8.29	8.243		mg/Kg	☼	99	75 - 125
Silver	ND	^3+	4.14	4.417	^3+	mg/Kg	☼	107	75 - 125
Thallium	ND		8.29	7.247		mg/Kg	☼	87	75 - 125
Vanadium	9.35		41.4	49.73		mg/Kg	☼	97	75 - 125
Zinc	29.9	^5-	41.4	70.45	^5-	mg/Kg	☼	98	75 - 125

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		9.20	8.480		mg/Kg	☼	92	75 - 125	7	30
Arsenic	2.29	J	46.0	46.59		mg/Kg	☼	96	75 - 125	7	30
Barium	17.5		46.0	63.89		mg/Kg	☼	101	75 - 125	4	30
Beryllium	0.349	J	4.60	5.040		mg/Kg	☼	102	75 - 125	9	30
Cadmium	ND		4.60	4.457		mg/Kg	☼	97	75 - 125	8	30
Chromium	7.44		46.0	53.35		mg/Kg	☼	100	75 - 125	8	30
Lead	3.58		4.60	9.211		mg/Kg	☼	122	75 - 125	7	30
Nickel	2.97		46.0	47.62		mg/Kg	☼	97	75 - 125	8	30
Selenium	ND		9.20	9.043		mg/Kg	☼	98	75 - 125	9	30
Silver	ND	^3+	4.60	4.813	^3+	mg/Kg	☼	105	75 - 125	9	30
Thallium	ND		9.20	7.574		mg/Kg	☼	82	75 - 125	4	30
Vanadium	9.35		46.0	55.17		mg/Kg	☼	100	75 - 125	10	30
Zinc	29.9	^5-	46.0	70.02	^5-	mg/Kg	☼	87	75 - 125	1	30

Lab Sample ID: 620-10051-1 DU
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	2.29	J	2.560	J	mg/Kg	☼	11	30
Barium	17.5		14.83		mg/Kg	☼	16	30
Beryllium	0.349	J	0.3358	J	mg/Kg	☼	4	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	7.44		5.735		mg/Kg	☼	26	30
Lead	3.58		3.398		mg/Kg	☼	5	30
Nickel	2.97		2.418		mg/Kg	☼	21	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10051-1 DU
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Vanadium	9.35		7.466		mg/Kg	☼	22	30
Zinc	29.9	^5-	25.92		mg/Kg	☼	14	30

Lab Sample ID: MB 410-350840/1-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Zinc	ND	^5-	2.00	0.800	mg/Kg		03/07/23 07:56	03/08/23 20:24	1

Lab Sample ID: LCS 410-350840/2-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.625		mg/Kg		96	80 - 120
Arsenic	50.0	47.71		mg/Kg		95	80 - 120
Barium	50.0	49.21		mg/Kg		98	80 - 120
Beryllium	5.00	5.004		mg/Kg		100	80 - 120
Cadmium	5.00	4.922		mg/Kg		98	80 - 120
Chromium	50.0	49.83		mg/Kg		100	80 - 120
Lead	5.00	5.383		mg/Kg		108	80 - 120
Nickel	50.0	50.00		mg/Kg		100	80 - 120
Selenium	10.0	9.752		mg/Kg		98	80 - 120
Silver	5.00	5.211	^3+	mg/Kg		104	80 - 120
Thallium	10.0	10.16		mg/Kg		102	80 - 120
Vanadium	50.0	48.63		mg/Kg		97	80 - 120
Zinc	50.0	47.36	^5-	mg/Kg		95	80 - 120

Lab Sample ID: MB 410-351221/1-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Barium	ND		0.500	0.150	mg/Kg		03/08/23 00:33	03/10/23 02:42	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351221/1-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Lead	ND		1.50	0.600	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Zinc	ND		2.00	0.800	mg/Kg		03/08/23 00:33	03/10/23 02:42	1

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.640		mg/Kg		96	80 - 120
Arsenic	50.0	50.46		mg/Kg		101	80 - 120
Barium	50.0	50.72		mg/Kg		101	80 - 120
Beryllium	5.00	4.958		mg/Kg		99	80 - 120
Cadmium	5.00	4.901		mg/Kg		98	80 - 120
Chromium	50.0	51.79		mg/Kg		104	80 - 120
Lead	5.00	5.429		mg/Kg		109	80 - 120
Nickel	50.0	50.07		mg/Kg		100	80 - 120
Selenium	10.0	9.637		mg/Kg		96	80 - 120
Silver	5.00	5.267	^3+	mg/Kg		105	80 - 120
Thallium	10.0	10.00		mg/Kg		100	80 - 120
Vanadium	50.0	49.21		mg/Kg		98	80 - 120
Zinc	50.0	48.91		mg/Kg		98	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-350294/1-A
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/05/23 20:11	03/06/23 11:55	1

Lab Sample ID: LCS 410-350294/2-A
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.09537		mg/Kg		95	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.162	0.1585		mg/Kg	☼	98	75 - 125

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.160	0.1605		mg/Kg	☼	101	75 - 125	1	35

Lab Sample ID: 620-10051-17 DU
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-350297/1-A
Matrix: Solid
Analysis Batch: 350702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/05/23 20:31	03/06/23 17:23	1

Lab Sample ID: LCS 410-350297/2-A
Matrix: Solid
Analysis Batch: 350702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1014		mg/Kg		101	80 - 120

Lab Sample ID: MB 410-350764/1-A
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/06/23 22:34	03/07/23 18:25	1

Lab Sample ID: LCS 410-350764/2-A
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1023		mg/Kg		102	80 - 120

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.181	0.1864		mg/Kg	☼	103	75 - 125

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.190	0.2045		mg/Kg	☼	108	75 - 125	9	35

Lab Sample ID: 620-10051-1 DU
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-351182/1-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/07/23 20:58	03/08/23 11:59	1

Lab Sample ID: LCS 410-351182/2-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1124		mg/Kg		112	80 - 120

Lab Sample ID: MB 410-351222/1-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 00:46	03/09/23 07:20	1

Lab Sample ID: LCS 410-351222/2-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1139		mg/Kg		114	80 - 120

Lab Sample ID: MB 410-353327/1-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/14/23 11:01	03/14/23 13:54	1

Lab Sample ID: LCS 410-353327/2-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1053		mg/Kg		105	80 - 120

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10051-21 DU
Client Sample ID: 2023-SB-15-0810'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 20201

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.1			14.2	F3	%				16	5
Percent Solids	87.9			85.8		%				2	5

Lab Sample ID: 620-10051-22 DU
Client Sample ID: 2023-SB-15-1012'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 20206

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.5			16.2		%				2	5
Percent Solids	83.5			83.8		%				0.4	5

Lab Sample ID: 620-10051-38 DU
Client Sample ID: 2023-SB-13-1012'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 20206

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	20.5			20.0		%				2	5
Percent Solids	79.5			80.0		%				0.6	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS VOA

Pre Prep Batch: 20198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-23	2023-FD-03	Total/NA	Solid	Frozen Preserve	
620-10051-24	Trip Blank-01	Total/NA	Solid	Frozen Preserve	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-31	Trip Blank-02	Total/NA	Solid	Frozen Preserve	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-34	2023-FD-04	Total/NA	Solid	Frozen Preserve	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-39	Trip Blank-03	Total/NA	Solid	Frozen Preserve	

GC/MS VOA (Continued)

Pre Prep Batch: 20198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	5035	20198
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	5035	20198
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	5035	20198
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	5035	20198
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	5035	20198
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	5035	20198
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	5035	20198
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	5035	20198
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	5035	20198
MB 620-20238/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	8260C	20238
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	8260C	20238
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	8260C	20238
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	8260C	20238
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	8260C	20238
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	8260C	20238
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	8260C	20238
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	8260C	20238
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	8260C	20238
MB 620-20238/3-A	Method Blank	Total/NA	Solid	8260C	20238
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	8260C	20238
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20238

Prep Batch: 20252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	5035	20198
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	5035	20198
620-10051-23	2023-FD-03	Total/NA	Solid	5035	20198
620-10051-24	Trip Blank-01	Total/NA	Solid	5035	20198
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	5035	20198
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	5035	20198
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	5035	20198
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	5035	20198
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	5035	20198
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	5035	20198
620-10051-31	Trip Blank-02	Total/NA	Solid	5035	20198
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	5035	20198
620-10051-34	2023-FD-04	Total/NA	Solid	5035	20198
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	5035	20198
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	5035	20198

GC/MS VOA (Continued)

Prep Batch: 20252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	5035	20198
620-10051-39	Trip Blank-03	Total/NA	Solid	5035	20198
MB 620-20252/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20252/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20252/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	8260C	20252
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	8260C	20252
620-10051-23	2023-FD-03	Total/NA	Solid	8260C	20252
620-10051-24	Trip Blank-01	Total/NA	Solid	8260C	20252
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	8260C	20252
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	8260C	20252
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	8260C	20252
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	8260C	20252
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	8260C	20252
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	8260C	20252
620-10051-31	Trip Blank-02	Total/NA	Solid	8260C	20252
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	8260C	20252
620-10051-34	2023-FD-04	Total/NA	Solid	8260C	20252
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	8260C	20252
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	8260C	20252
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	8260C	20252
620-10051-39	Trip Blank-03	Total/NA	Solid	8260C	20252
MB 620-20252/3-A	Method Blank	Total/NA	Solid	8260C	20252
LCS 620-20252/1-A	Lab Control Sample	Total/NA	Solid	8260C	20252
LCSD 620-20252/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20252

Prep Batch: 20295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	5035	20198
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	5035	20198
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	5035	20198
MB 620-20295/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20295/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20295/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	5035	20198

Analysis Batch: 20296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	8260C	20295
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8260C	20295
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	8260C	20295
MB 620-20295/3-A	Method Blank	Total/NA	Solid	8260C	20295
LCS 620-20295/1-A	Lab Control Sample	Total/NA	Solid	8260C	20295
LCSD 620-20295/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20295
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	8260C	20295

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS VOA

Prep Batch: 20322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	5035	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	5035	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	5035	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	5035	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	5035	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	5035	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	5035	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	5035	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	5035	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	5035	
MB 620-20322/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20322/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20322/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	5035	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	5035	

Analysis Batch: 20323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	8260C	20322
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	8260C	20322
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	8260C	20322
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	8260C	20322
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	8260C	20322
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	8260C	20322
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	8260C	20322
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	8260C	20322
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	8260C	20322
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	8260C	20322
MB 620-20322/3-A	Method Blank	Total/NA	Solid	8260C	20322
LCS 620-20322/1-A	Lab Control Sample	Total/NA	Solid	8260C	20322
LCSD 620-20322/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20322
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	8260C	20322
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	8260C	20322

Prep Batch: 20327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20327/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	5035	20198

Analysis Batch: 20328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20327/3-A	Method Blank	Total/NA	Solid	8260C	20327
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	8260C	20327
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20327
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	8260C	20327

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS Semi VOA

Prep Batch: 20241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	3546	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	3546	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	3546	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	3546	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	3546	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	3546	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	3546	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	3546	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	3546	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	3546	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	3546	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	3546	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	3546	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	3546	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	3546	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	3546	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	3546	
MB 620-20241/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20241/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20241/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	3546	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	3546	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	3546	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	3546	

Analysis Batch: 20349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	8270D	20241
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	8270D	20241
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	8270D	20241
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	8270D	20241
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	8270D	20241
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	8270D	20241
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	8270D	20241
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	8270D	20241
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	8270D	20241
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	8270D	20241
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	8270D	20241
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	8270D	20241
MB 620-20241/1-A	Method Blank	Total/NA	Solid	8270D	20241
LCS 620-20241/2-A	Lab Control Sample	Total/NA	Solid	8270D	20241
LCSD 620-20241/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20241
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	8270D	20241
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	8270D	20241
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	8270D	20241
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	8270D	20241

Analysis Batch: 20386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	8270D	20241
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	8270D	20241

GC/MS Semi VOA (Continued)

Analysis Batch: 20386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	8270D	20241
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	8270D	20241
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	8270D	20241
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	8270D	20399
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	8270D	20399
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	8270D	20399
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	8270D	20399
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	8270D	20399
620-10051-23	2023-FD-03	Total/NA	Solid	8270D	20399
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	8270D	20399
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	8270D	20399
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	8270D	20399

Prep Batch: 20399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	3546	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	3546	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	3546	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	3546	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	3546	
620-10051-23	2023-FD-03	Total/NA	Solid	3546	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	3546	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	3546	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	3546	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	3546	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	3546	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	3546	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	3546	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	3546	
620-10051-34	2023-FD-04	Total/NA	Solid	3546	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	3546	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	3546	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	3546	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	3546	
MB 620-20399/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20399/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20399/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	8270D	20399
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	8270D	20399
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	8270D	20399
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	8270D	20399
620-10051-34	2023-FD-04	Total/NA	Solid	8270D	20399
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	8270D	20399
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	8270D	20399
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	8270D	20399
MB 620-20399/1-A	Method Blank	Total/NA	Solid	8270D	20399
LCS 620-20399/2-A	Lab Control Sample	Total/NA	Solid	8270D	20399
LCSD 620-20399/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20399

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS Semi VOA

Analysis Batch: 20495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8270D	20399
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8270D	20399
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	8270D	20399

GC VOA

Prep Batch: 660379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	5035A_H	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	5035A_H	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	5035A_H	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	5035A_H	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	5035A_H	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	5035A_H	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	5035A_H	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	5035A_H	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	5035A_H	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	5035A_H	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	5035A_H	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	5035A_H	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	5035A_H	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	5035A_H	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	5035A_H	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	5035A_H	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	5035A_H	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	5035A_H	
MB 480-660379/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660379/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660379/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	5035A_H	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	5035A_H	

Prep Batch: 660381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	5035A_H	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	5035A_H	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	5035A_H	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	5035A_H	
620-10051-23	2023-FD-03	Total/NA	Solid	5035A_H	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	5035A_H	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	5035A_H	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	5035A_H	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	5035A_H	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	5035A_H	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	5035A_H	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	5035A_H	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	5035A_H	
620-10051-34	2023-FD-04	Total/NA	Solid	5035A_H	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	5035A_H	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	5035A_H	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 660381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	5035A_H	
MB 480-660381/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660381/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660381/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	5035A_H	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	5035A_H	

Analysis Batch: 660382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	MAVPH	660379
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	MAVPH	660379
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	MAVPH	660379
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	MAVPH	660379
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	MAVPH	660379
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	MAVPH	660379
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	MAVPH	660379
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	MAVPH	660379
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	MAVPH	660379
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	MAVPH	660379
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	MAVPH	660379
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	MAVPH	660379
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	MAVPH	660379
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	MAVPH	660379
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	MAVPH	660379
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	MAVPH	660379
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	MAVPH	660381
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	MAVPH	660379
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	MAVPH	660379
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	MAVPH	660381
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	MAVPH	660381
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	MAVPH	660381
620-10051-23	2023-FD-03	Total/NA	Solid	MAVPH	660381
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	MAVPH	660381
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	MAVPH	660381
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	MAVPH	660381
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	MAVPH	660381
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	MAVPH	660381
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	MAVPH	660381
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	MAVPH	660381
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	MAVPH	660381
620-10051-34	2023-FD-04	Total/NA	Solid	MAVPH	660381
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	MAVPH	660381
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	MAVPH	660381
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	MAVPH	660381
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	MAVPH	660381
MB 480-660379/1-A	Method Blank	Total/NA	Solid	MAVPH	660379
MB 480-660381/1-A	Method Blank	Total/NA	Solid	MAVPH	660381
LCS 480-660379/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660379
LCS 480-660381/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660381
LCSD 480-660379/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660379
LCSD 480-660381/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660381

GC VOA (Continued)

Analysis Batch: 660382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	MAVPH	660379
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	MAVPH	660379
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	MAVPH	660381
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	MAVPH	660381

Analysis Batch: 660586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	MA VPH SUM	

Analysis Batch: 660588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-23	2023-FD-03	Total/NA	Solid	MA VPH SUM	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-34	2023-FD-04	Total/NA	Solid	MA VPH SUM	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	MA VPH SUM	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC Semi VOA

Prep Batch: 20226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	3540C	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	3540C	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	3540C	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	3540C	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	3540C	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	3540C	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	3540C	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	3540C	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	3540C	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	3540C	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	3540C	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	3540C	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	3540C	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	3540C	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	3540C	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	3540C	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	3540C	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	3540C	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	3540C	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	3540C	
MB 620-20226/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20226/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20226/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	3540C	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	3540C	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	3540C	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	3540C	

Prep Batch: 20230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	3540C	
620-10051-23	2023-FD-03	Total/NA	Solid	3540C	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	3540C	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	3540C	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	3540C	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	3540C	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	3540C	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	3540C	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	3540C	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	3540C	
620-10051-34	2023-FD-04	Total/NA	Solid	3540C	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	3540C	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	3540C	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	3540C	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	3540C	
MB 620-20230/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20230/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20230/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

GC Semi VOA

Analysis Batch: 20249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	8082	20226
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	8082	20226
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	8082	20226
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	8082	20226
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	8082	20226
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	8082	20226
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	8082	20226
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	8082	20226
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	8082	20226
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	8082	20226
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	8082	20226
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	8082	20226
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	8082	20226
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	8082	20226
620-10051-23	2023-FD-03	Total/NA	Solid	8082	20230
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	8082	20230
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	8082	20230
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	8082	20230
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	8082	20230
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	8082	20230
620-10051-34	2023-FD-04	Total/NA	Solid	8082	20230
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	8082	20230
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	8082	20230
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	8082	20230
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	8082	20230
MB 620-20230/1-A	Method Blank	Total/NA	Solid	8082	20230
LCS 620-20226/2-A	Lab Control Sample	Total/NA	Solid	8082	20226
LCS 620-20230/2-A	Lab Control Sample	Total/NA	Solid	8082	20230
LCSD 620-20226/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20226
LCSD 620-20230/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20230
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	8082	20226
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	8082	20226

Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20226/1-A	Method Blank	Total/NA	Solid	8082	20226

Analysis Batch: 20318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	8082	20226

Prep Batch: 20339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	3540C	
MB 620-20339/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20339/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20339/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	8082	20226

GC Semi VOA (Continued)

Analysis Batch: 20363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	8082	20226
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	8082	20226
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	8082	20226
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	8082	20226
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	8082	20339
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	8082	20230
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	8082	20230
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	8082	20230
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8082	20230
LCS 620-20339/2-A	Lab Control Sample	Total/NA	Solid	8082	20339
LCSD 620-20339/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20339
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	8082	20226
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	8082	20226

Analysis Batch: 20401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20339/1-A	Method Blank	Total/NA	Solid	8082	20339

LCMS

Prep Batch: 349822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	537 (mod)	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	537 (mod)	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	537 (mod)	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	537 (mod)	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	537 (mod)	
620-10051-23	2023-FD-03	Total/NA	Solid	537 (mod)	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	537 (mod)	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	537 (mod)	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	537 (mod)	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	537 (mod)	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	537 (mod)	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	537 (mod)	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	537 (mod)	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	537 (mod)	
620-10051-34	2023-FD-04	Total/NA	Solid	537 (mod)	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	537 (mod)	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	537 (mod)	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	537 (mod)	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	537 (mod)	
MB 410-349822/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-349822/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	537 (mod)	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	537 (mod)	

Prep Batch: 349825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	537 (mod)	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	537 (mod)	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 349825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	537 (mod)	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	537 (mod)	
620-10051-8 - RE	2023-MW-02-0608'	Total/NA	Solid	537 (mod)	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	537 (mod)	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	537 (mod)	
620-10051-11 - RE	2023-SB-16-0002'	Total/NA	Solid	537 (mod)	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	537 (mod)	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	537 (mod)	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	537 (mod)	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	537 (mod)	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	537 (mod)	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	537 (mod)	
MB 410-349825/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-349825/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	537 (mod)	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 349993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	Extract Aliquot	349822
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	Extract Aliquot	349822
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	Extract Aliquot	349822
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	Extract Aliquot	349822
620-10051-23	2023-FD-03	Total/NA	Solid	Extract Aliquot	349822
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	Extract Aliquot	349822
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	Extract Aliquot	349822
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	Extract Aliquot	349822
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	Extract Aliquot	349822
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	Extract Aliquot	349822
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	Extract Aliquot	349822
620-10051-34	2023-FD-04	Total/NA	Solid	Extract Aliquot	349822
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	Extract Aliquot	349822
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	Extract Aliquot	349822
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	Extract Aliquot	349822
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	Extract Aliquot	349822
MB 410-349822/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	349822
LCS 410-349822/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	349822
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	Extract Aliquot	349822

Cleanup Batch: 349994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	Extract Aliquot	349825
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	Extract Aliquot	349825
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	Extract Aliquot	349825
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	Extract Aliquot	349825
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	Extract Aliquot	349825
620-10051-8 - RE	2023-MW-02-0608'	Total/NA	Solid	Extract Aliquot	349825

LCMS (Continued)

Cleanup Batch: 349994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	Extract Aliquot	349825
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	Extract Aliquot	349825
620-10051-11 - RE	2023-SB-16-0002'	Total/NA	Solid	Extract Aliquot	349825
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	Extract Aliquot	349825
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	Extract Aliquot	349825
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	Extract Aliquot	349825
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	Extract Aliquot	349825
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	Extract Aliquot	349825
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	Extract Aliquot	349825
MB 410-349825/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	349825
LCS 410-349825/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	349825
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	Extract Aliquot	349825
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	Extract Aliquot	349825

Analysis Batch: 353187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-8 - RE	2023-MW-02-0608'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-11 - RE	2023-SB-16-0002'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	EPA 537 (Mod)	349994
MB 410-349825/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	349994
LCS 410-349825/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349994

Analysis Batch: 353950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-23	2023-FD-03	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	EPA 537 (Mod)	349993

LCMS (Continued)

Analysis Batch: 353950 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-34	2023-FD-04	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	EPA 537 (Mod)	349993
MB 410-349822/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	349993
LCS 410-349822/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	EPA 537 (Mod)	349993

Prep Batch: 355125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	537 (mod)	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	537 (mod)	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	537 (mod)	
620-10051-9 - RE	2023-MW-02-0810'	Total/NA	Solid	537 (mod)	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	537 (mod)	
620-10051-32 - RE	2023-SB-13-0002'	Total/NA	Solid	537 (mod)	
620-10051-33 - RE	2023-SB-13-0204'	Total/NA	Solid	537 (mod)	
620-10051-34 - RE	2023-FD-04	Total/NA	Solid	537 (mod)	
620-10051-35 - RE	2023-SB-13-0406'	Total/NA	Solid	537 (mod)	
MB 410-355125/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 355128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	Extract Aliquot	355125
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	Extract Aliquot	355125
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	Extract Aliquot	355125
620-10051-9 - RE	2023-MW-02-0810'	Total/NA	Solid	Extract Aliquot	355125
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10051-32 - RE	2023-SB-13-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10051-33 - RE	2023-SB-13-0204'	Total/NA	Solid	Extract Aliquot	355125
620-10051-34 - RE	2023-FD-04	Total/NA	Solid	Extract Aliquot	355125
620-10051-35 - RE	2023-SB-13-0406'	Total/NA	Solid	Extract Aliquot	355125
MB 410-355125/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	355125
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	355125

Analysis Batch: 355432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-9 - RE	2023-MW-02-0810'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-32 - RE	2023-SB-13-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-33 - RE	2023-SB-13-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-34 - RE	2023-FD-04	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-35 - RE	2023-SB-13-0406'	Total/NA	Solid	EPA 537 (Mod)	355128
MB 410-355125/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	355128

LCMS (Continued)

Analysis Batch: 355432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	355128

Metals

Prep Batch: 350292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	3050B	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	3050B	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	3050B	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	3050B	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	3050B	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	3050B	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	3050B	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	3050B	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	3050B	
MB 410-350292/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350292/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	3050B	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	3050B	
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	3050B	

Prep Batch: 350293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	3050B	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	3050B	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	3050B	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	3050B	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	3050B	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	3050B	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	3050B	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	3050B	
MB 410-350293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350293/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	3050B	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	3050B	
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	3050B	

Prep Batch: 350294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	7471A	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	7471A	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	7471A	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	7471A	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	7471A	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	7471A	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	7471A	
MB 410-350294/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-350294/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	7471A	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	7471A	
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	7471A	

Metals

Prep Batch: 350297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	7471A	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	7471A	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	7471A	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	7471A	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	7471A	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	7471A	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	7471A	
MB 410-350297/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-350297/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 350681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	7471B	350294
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	7471B	350294
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	7471B	350294
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	7471B	350294
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	7471B	350294
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	7471B	350294
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	7471B	350294
MB 410-350294/1-A	Method Blank	Total/NA	Solid	7471B	350294
LCS 410-350294/2-A	Lab Control Sample	Total/NA	Solid	7471B	350294
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	7471B	350294
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	7471B	350294
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	7471B	350294

Analysis Batch: 350702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	7471B	350297
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	7471B	350297
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	7471B	350297
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	7471B	350297
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	7471B	350297
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	7471B	350297
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	7471B	350297
MB 410-350297/1-A	Method Blank	Total/NA	Solid	7471B	350297
LCS 410-350297/2-A	Lab Control Sample	Total/NA	Solid	7471B	350297

Prep Batch: 350764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	7471A	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	7471A	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	7471A	
MB 410-350764/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-350764/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	7471A	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	7471A	
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	7471A	

Prep Batch: 350840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 350840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	3050B	
MB 410-350840/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 351145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	7471B	350764
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	7471B	350764
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	7471B	350764
MB 410-350764/1-A	Method Blank	Total/NA	Solid	7471B	350764
LCS 410-350764/2-A	Lab Control Sample	Total/NA	Solid	7471B	350764
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	7471B	350764
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	7471B	350764
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	7471B	350764

Prep Batch: 351182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	7471A	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	7471A	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	7471A	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	7471A	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	7471A	
620-10051-23	2023-FD-03	Total/NA	Solid	7471A	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	7471A	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	7471A	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	7471A	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	7471A	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	7471A	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	7471A	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	7471A	
620-10051-34	2023-FD-04	Total/NA	Solid	7471A	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	7471A	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	7471A	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	7471A	
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 351221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	3050B	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	3050B	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	3050B	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	3050B	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	3050B	
620-10051-23	2023-FD-03	Total/NA	Solid	3050B	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	3050B	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	3050B	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	3050B	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	3050B	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	3050B	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 351221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	3050B	
620-10051-34	2023-FD-04	Total/NA	Solid	3050B	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	3050B	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	3050B	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	3050B	
MB 410-351221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	7471A	
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 351485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	7471B	351182
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	7471B	351182
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	7471B	351182
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	7471B	351182
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	7471B	351182
620-10051-23	2023-FD-03	Total/NA	Solid	7471B	351182
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	7471B	351182
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	7471B	351182
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	7471B	351182
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	7471B	351182
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	7471B	351182
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	7471B	351182
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	7471B	351182
620-10051-34	2023-FD-04	Total/NA	Solid	7471B	351182
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	7471B	351182
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	7471B	351182
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	7471B	351182
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471B	351182
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471B	351182

Analysis Batch: 351666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	6010D	350293
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	6010D	350293
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	6010D	350293
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	6010D	350293
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	6010D	350293
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	6010D	350293
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	6010D	350293
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	6010D	350293
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	6010D	350840
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	6010D	350840
MB 410-350293/1-A	Method Blank	Total/NA	Solid	6010D	350293
MB 410-350840/1-A	Method Blank	Total/NA	Solid	6010D	350840
LCS 410-350293/2-A	Lab Control Sample	Total/NA	Solid	6010D	350293

Metals (Continued)

Analysis Batch: 351666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	6010D	350840
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	6010D	350293
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	6010D	350293
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	6010D	350293

Analysis Batch: 351811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	7471B	351222
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471B	351222
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471B	351222

Analysis Batch: 352132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	6010D	350292
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	6010D	350292
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	6010D	350292
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	6010D	350292
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	6010D	350292
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	6010D	350292
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	6010D	350292
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	6010D	350292
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	6010D	350292
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	6010D	350292
MB 410-350292/1-A	Method Blank	Total/NA	Solid	6010D	350292
LCS 410-350292/2-A	Lab Control Sample	Total/NA	Solid	6010D	350292
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	6010D	350292
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	6010D	350292
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	6010D	350292

Analysis Batch: 352284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	6010D	351221
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	6010D	351221
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	6010D	351221
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	6010D	351221
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	6010D	351221
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	6010D	351221
620-10051-23	2023-FD-03	Total/NA	Solid	6010D	351221
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	6010D	351221
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	6010D	351221
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	6010D	351221
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	6010D	351221
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	6010D	351221
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	6010D	351221
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	6010D	351221
620-10051-34	2023-FD-04	Total/NA	Solid	6010D	351221
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	6010D	351221
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	6010D	351221
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	6010D	351221
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	6010D	351221
MB 410-351221/1-A	Method Blank	Total/NA	Solid	6010D	351221

Metals (Continued)

Analysis Batch: 352284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	6010D	351221

Prep Batch: 353327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	7471A	
MB 410-353327/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-353327/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 353417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	7471B	353327
MB 410-353327/1-A	Method Blank	Total/NA	Solid	7471B	353327
LCS 410-353327/2-A	Lab Control Sample	Total/NA	Solid	7471B	353327

General Chemistry

Analysis Batch: 20201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	Moisture	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	Moisture	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	Moisture	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	Moisture	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	Moisture	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	Moisture	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	Moisture	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	Moisture	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	Moisture	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	Moisture	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	Moisture	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	Moisture	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	Moisture	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	Moisture	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	Moisture	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	Moisture	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	Moisture	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	Moisture	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	Moisture	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	Moisture	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	Moisture	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	Moisture	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	Moisture	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	Moisture	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	Moisture	
620-10051-21 DU	2023-SB-15-0810'	Total/NA	Solid	Moisture	

Analysis Batch: 20206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	Moisture	
620-10051-23	2023-FD-03	Total/NA	Solid	Moisture	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	Moisture	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	Moisture	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	Moisture	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	Moisture	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	Moisture	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	Moisture	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	Moisture	
620-10051-34	2023-FD-04	Total/NA	Solid	Moisture	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	Moisture	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	Moisture	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	Moisture	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	Moisture	
620-10051-22 DU	2023-SB-15-1012'	Total/NA	Solid	Moisture	
620-10051-38 DU	2023-SB-13-1012'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0406' Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-01-0406' Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 14:48
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 22:03
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 10:22
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 18:12
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/14/23 23:40
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 18:48
Total/NA	Prep	7471A			350764	UAMX	ELLE	03/06/23 22:34
Total/NA	Analysis	7471B		1	351145	UEFS	ELLE	03/07/23 18:29

Client Sample ID: 2023-MW-01-0608' Lab Sample ID: 620-10051-2
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-01-0608' Lab Sample ID: 620-10051-2
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 17:18
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 13:32
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 12:20
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 19:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0608' Lab Sample ID: 620-10051-2

Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:13
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:21
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:42

Client Sample ID: 2023-MW-01-0810' Lab Sample ID: 620-10051-3

Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-01-0810' Lab Sample ID: 620-10051-3

Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 17:43
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 14:00
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 13:00
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 19:27
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:35
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:24
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:03

Client Sample ID: 2023-MW-01-1012' Lab Sample ID: 620-10051-4

Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-1012' Lab Sample ID: 620-10051-4

Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 18:08
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 15:46
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 13:39
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 19:46
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:46
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:32
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:05

Client Sample ID: 2023-MW-02-0002' Lab Sample ID: 620-10051-5

Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0002' Lab Sample ID: 620-10051-5

Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 18:33
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 16:42
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 14:19
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 13:27
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:57
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:27
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:07

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0204' Lab Sample ID: 620-10051-6

Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0204' Lab Sample ID: 620-10051-6

Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 18:59
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 14:29
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 15:37
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 13:46
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 03:57
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 18:55
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:09

Client Sample ID: 2023-MW-02-0406' Lab Sample ID: 620-10051-7

Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0406' Lab Sample ID: 620-10051-7

Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 19:25
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 14:58
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 16:17
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 14:04

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'

Lab Sample ID: 620-10051-7
Date Collected: 02/27/23 15:10
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 04:08
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:14
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:37

Client Sample ID: 2023-MW-02-0608'

Lab Sample ID: 620-10051-8
Date Collected: 02/27/23 15:15
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0608'

Lab Sample ID: 620-10051-8
Date Collected: 02/27/23 15:15
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 19:51
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 15:27
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 16:56
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 14:23
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 04:19
Total/NA	Prep	537 (mod)	RE		349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot	RE		349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)	RE	1	353187	VK3G	ELLE	03/15/23 01:30
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:11
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:39

Client Sample ID: 2023-MW-02-0810' Lab Sample ID: 620-10051-9

Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0810' Lab Sample ID: 620-10051-9

Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 20:17
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 15:56
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 17:36
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 20:05
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 04:30
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 01:42
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:08
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:01

Client Sample ID: 2023-MW-02-1012' Lab Sample ID: 620-10051-10

Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-1012' Lab Sample ID: 620-10051-10

Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 20:42
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 16:24

Client Sample ID: 2023-MW-02-1012'

Lab Sample ID: 620-10051-10
Date Collected: 02/27/23 15:25
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 18:15
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 20:24
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 01:53
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 19:46
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:12

Client Sample ID: 2023-SB-16-0002'

Lab Sample ID: 620-10051-11
Date Collected: 03/01/23 08:55
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0002'

Lab Sample ID: 620-10051-11
Date Collected: 03/01/23 08:55
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 00:10
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 16:14
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 18:54
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 20:43
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 04:41
Total/NA	Prep	537 (mod)	RE		349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot	RE		349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)	RE	1	353187	VK3G	ELLE	03/15/23 02:04
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 19:49
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:48

Client Sample ID: 2023-SB-16-0204'

Lab Sample ID: 620-10051-12

Date Collected: 03/01/23 09:00

Matrix: Solid

Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0204'

Lab Sample ID: 620-10051-12

Date Collected: 03/01/23 09:00

Matrix: Solid

Date Received: 03/01/23 16:29

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 00:35
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 15:17
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 19:34
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:02
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:15
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:01
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:50

Client Sample ID: 2023-SB-16-0406'

Lab Sample ID: 620-10051-13

Date Collected: 03/01/23 09:05

Matrix: Solid

Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0406'

Lab Sample ID: 620-10051-13

Date Collected: 03/01/23 09:05

Matrix: Solid

Date Received: 03/01/23 16:29

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 00:59
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 16:53
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 20:13

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0406' Lab Sample ID: 620-10051-13

Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:20
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:37
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:05
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:52

Client Sample ID: 2023-SB-16-0608' Lab Sample ID: 620-10051-14

Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0608' Lab Sample ID: 620-10051-14

Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 01:24
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 17:21
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 20:52
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:39
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:48
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:14
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:54

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0810' Lab Sample ID: 620-10051-15
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0810' Lab Sample ID: 620-10051-15
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 01:49
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 14:49
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 21:32
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:58
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:59
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:17
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		10	352132	T8CQ	ELLE	03/09/23 20:13
Total/NA	Prep	7471A			350764	UAMX	ELLE	03/06/23 22:34
Total/NA	Analysis	7471B		1	351145	UEFS	ELLE	03/07/23 18:40

Client Sample ID: 2023-SB-16-1012' Lab Sample ID: 620-10051-16
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-1012' Lab Sample ID: 620-10051-16
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 02:14
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 20:11

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-1012' — Lab Sample ID: 620-10051-16

Date Collected: 03/01/23 09:20 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 75.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 22:50
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 22:17
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 03:10
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:31
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 04:35
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:48

Client Sample ID: 2023-SB-15-0002' — Lab Sample ID: 620-10051-17

Date Collected: 03/01/23 10:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0002' — Lab Sample ID: 620-10051-17

Date Collected: 03/01/23 10:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 96.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 14:43
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 20:39
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 03:26
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 14:42
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/15/23 23:32
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 18:17
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 11:59

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0204' Lab Sample ID: 620-10051-18
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0204' Lab Sample ID: 620-10051-18
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 02:38
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 18:08
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 23:30
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 03:50
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 03:21
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:41
Total/NA	Prep	7471A			353327	HUH3	ELLE	03/14/23 11:01
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 14:21

Client Sample ID: 2023-SB-15-0406' Lab Sample ID: 620-10051-19
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0406' Lab Sample ID: 620-10051-19
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 03:03
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 18:36
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 00:09

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0406' Lab Sample ID: 620-10051-19

Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 13:08
Total/NA	Analysis	8082		10	20318	SFL	EET NE	03/08/23 00:49
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:06
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:55
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:15

Client Sample ID: 2023-SB-15-0608' Lab Sample ID: 620-10051-20

Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0608' Lab Sample ID: 620-10051-20

Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 15:30
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 19:04
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 05:24
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 13:08
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 04:09
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:17
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:19
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:17

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0810' Lab Sample ID: 620-10051-21
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0810' Lab Sample ID: 620-10051-21
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 15:55
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 19:33
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 06:03
Total/NA	Prep	3540C			20339	PRB	EET NE	03/07/23 15:15
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 23:01
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:28
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:27
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:23

Client Sample ID: 2023-SB-15-1012' Lab Sample ID: 620-10051-22
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-15-1012' Lab Sample ID: 620-10051-22
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 04:18
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 20:01
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 06:43

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-1012' Lab Sample ID: 620-10051-22

Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 15:38
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:39
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:51
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:41

Client Sample ID: 2023-FD-03 Lab Sample ID: 620-10051-23

Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-FD-03 Lab Sample ID: 620-10051-23

Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 16:20
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 20:29
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 07:22
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 00:22
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:50
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:26
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:50

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: Trip Blank-01 — Lab Sample ID: 620-10051-24

Date Collected: 03/01/23 00:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 14:15

Client Sample ID: 2023-SB-14-0002' — Lab Sample ID: 620-10051-25

Date Collected: 03/01/23 11:20 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-0002' — Lab Sample ID: 620-10051-25

Date Collected: 03/01/23 11:20 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 94.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 16:45
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 20:57
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 08:41
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 15:57
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:01
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:15
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:54

Client Sample ID: 2023-SB-14-0204' — Lab Sample ID: 620-10051-26

Date Collected: 03/01/23 11:25 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0204' Lab Sample ID: 620-10051-26

Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 17:10
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 21:25
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 09:20
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 00:41
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:12
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:03
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:37

Client Sample ID: 2023-SB-14-0406' Lab Sample ID: 620-10051-27

Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-0406' Lab Sample ID: 620-10051-27

Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 17:36
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 21:53
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 09:59
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 16:15
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:23
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:44

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'

Lab Sample ID: 620-10051-27
Date Collected: 03/01/23 11:30
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:52

Client Sample ID: 2023-SB-14-0608'

Lab Sample ID: 620-10051-28
Date Collected: 03/01/23 11:35
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-0608'

Lab Sample ID: 620-10051-28
Date Collected: 03/01/23 11:35
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 18:02
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 18:11
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 10:39
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:00
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:34
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:23
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:25

Client Sample ID: 2023-SB-14-0810'

Lab Sample ID: 620-10051-29
Date Collected: 03/01/23 11:40
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0810' Lab Sample ID: 620-10051-29

Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 18:28
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 14:48
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 11:18
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:18
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:56
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 03:40
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:29

Client Sample ID: 2023-SB-14-1012' Lab Sample ID: 620-10051-30

Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-1012' Lab Sample ID: 620-10051-30

Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 18:54
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 15:17
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 11:57
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:37
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:08
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:38

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-1012' — Lab Sample ID: 620-10051-30

Date Collected: 03/01/23 11:45 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:27

Client Sample ID: Trip Blank-02 — Lab Sample ID: 620-10051-31

Date Collected: 03/01/23 00:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 14:40

Client Sample ID: 2023-SB-13-0002' — Lab Sample ID: 620-10051-32

Date Collected: 03/01/23 12:50 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0002' — Lab Sample ID: 620-10051-32

Date Collected: 03/01/23 12:50 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 13:50
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		5	20495	JS	EET NE	03/13/23 21:55
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/13/23 22:23
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 12:37
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		20	20363	SFL	EET NE	03/08/23 16:34
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 04:52
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:19
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 06:02
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:10

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0204' Lab Sample ID: 620-10051-33

Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0204' Lab Sample ID: 620-10051-33

Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 19:45
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 15:46
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 13:16
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:56
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:03
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:30
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 03:56
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:35

Client Sample ID: 2023-FD-04 Lab Sample ID: 620-10051-34

Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-FD-04 Lab Sample ID: 620-10051-34

Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 20:11

Client Sample ID: 2023-FD-04 — Lab Sample ID: 620-10051-34

Date Collected: 03/01/23 08:05 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 16:15
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 13:56
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 02:15
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:14
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:41
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:07
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 13:00

Client Sample ID: 2023-SB-13-0406' — Lab Sample ID: 620-10051-35

Date Collected: 03/01/23 13:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0406' — Lab Sample ID: 620-10051-35

Date Collected: 03/01/23 13:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 20:37
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 16:44
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 14:35
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 02:34
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:25
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:52

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0406' Lab Sample ID: 620-10051-35

Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:09
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:39

Client Sample ID: 2023-SB-13-0608' Lab Sample ID: 620-10051-36

Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0608' Lab Sample ID: 620-10051-36

Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 21:03
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/13/23 22:51
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 15:54
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 02:53
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 03:03
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 18:48
Total/NA	Prep	7471A			350764	UAMX	ELLE	03/06/23 22:34
Total/NA	Analysis	7471B		1	351145	UEFS	ELLE	03/07/23 18:42

Client Sample ID: 2023-SB-13-0810' Lab Sample ID: 620-10051-37

Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0810' Lab Sample ID: 620-10051-37

Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 21:29
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 17:13
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 16:33
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 03:12
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 03:14
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:13
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:46

Client Sample ID: 2023-SB-13-1012' Lab Sample ID: 620-10051-38

Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-1012' Lab Sample ID: 620-10051-38

Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 14:16
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 17:42
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 17:13
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 03:31
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 03:25
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:48

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-1012' Lab Sample ID: 620-10051-38

Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 05:51
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:44

Client Sample ID: Trip Blank-03 Lab Sample ID: 620-10051-39

Date Collected: 03/01/23 00:00 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 15:05

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10051-1	2023-MW-01-0406'	Solid	02/27/23 13:40	03/01/23 16:29
620-10051-2	2023-MW-01-0608'	Solid	02/27/23 13:45	03/01/23 16:29
620-10051-3	2023-MW-01-0810'	Solid	02/27/23 13:50	03/01/23 16:29
620-10051-4	2023-MW-01-1012'	Solid	02/27/23 13:55	03/01/23 16:29
620-10051-5	2023-MW-02-0002'	Solid	02/27/23 15:00	03/01/23 16:29
620-10051-6	2023-MW-02-0204'	Solid	02/27/23 15:05	03/01/23 16:29
620-10051-7	2023-MW-02-0406'	Solid	02/27/23 15:10	03/01/23 16:29
620-10051-8	2023-MW-02-0608'	Solid	02/27/23 15:15	03/01/23 16:29
620-10051-9	2023-MW-02-0810'	Solid	02/27/23 15:20	03/01/23 16:29
620-10051-10	2023-MW-02-1012'	Solid	02/27/23 15:25	03/01/23 16:29
620-10051-11	2023-SB-16-0002'	Solid	03/01/23 08:55	03/01/23 16:29
620-10051-12	2023-SB-16-0204'	Solid	03/01/23 09:00	03/01/23 16:29
620-10051-13	2023-SB-16-0406'	Solid	03/01/23 09:05	03/01/23 16:29
620-10051-14	2023-SB-16-0608'	Solid	03/01/23 09:10	03/01/23 16:29
620-10051-15	2023-SB-16-0810'	Solid	03/01/23 09:15	03/01/23 16:29
620-10051-16	2023-SB-16-1012'	Solid	03/01/23 09:20	03/01/23 16:29
620-10051-17	2023-SB-15-0002'	Solid	03/01/23 10:00	03/01/23 16:29
620-10051-18	2023-SB-15-0204'	Solid	03/01/23 10:05	03/01/23 16:29
620-10051-19	2023-SB-15-0406'	Solid	03/01/23 10:10	03/01/23 16:29
620-10051-20	2023-SB-15-0608'	Solid	03/01/23 10:15	03/01/23 16:29
620-10051-21	2023-SB-15-0810'	Solid	03/01/23 10:20	03/01/23 16:29
620-10051-22	2023-SB-15-1012'	Solid	03/01/23 10:25	03/01/23 16:29
620-10051-23	2023-FD-03	Solid	03/01/23 08:00	03/01/23 16:29
620-10051-24	Trip Blank-01	Solid	03/01/23 00:00	03/01/23 16:29
620-10051-25	2023-SB-14-0002'	Solid	03/01/23 11:20	03/01/23 16:29
620-10051-26	2023-SB-14-0204'	Solid	03/01/23 11:25	03/01/23 16:29
620-10051-27	2023-SB-14-0406'	Solid	03/01/23 11:30	03/01/23 16:29
620-10051-28	2023-SB-14-0608'	Solid	03/01/23 11:35	03/01/23 16:29
620-10051-29	2023-SB-14-0810'	Solid	03/01/23 11:40	03/01/23 16:29
620-10051-30	2023-SB-14-1012'	Solid	03/01/23 11:45	03/01/23 16:29
620-10051-31	Trip Blank-02	Solid	03/01/23 00:00	03/01/23 16:29
620-10051-32	2023-SB-13-0002'	Solid	03/01/23 12:50	03/01/23 16:29
620-10051-33	2023-SB-13-0204'	Solid	03/01/23 12:55	03/01/23 16:29
620-10051-34	2023-FD-04	Solid	03/01/23 08:05	03/01/23 16:29
620-10051-35	2023-SB-13-0406'	Solid	03/01/23 13:00	03/01/23 16:29
620-10051-36	2023-SB-13-0608'	Solid	03/01/23 13:05	03/01/23 16:29
620-10051-37	2023-SB-13-0810'	Solid	03/01/23 13:10	03/01/23 16:29
620-10051-38	2023-SB-13-1012'	Solid	03/01/23 13:15	03/01/23 16:29
620-10051-39	Trip Blank-03	Solid	03/01/23 00:00	03/01/23 16:29

620-10051 Chain of Custody

10051

Chain of Custody Record

eurofins | Environment Testing

	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 3
Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 3 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010D/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							F, J		F					
01	2023-MW-01-0406'	2/27/23	13:40	G	Solid		Y	✓	✓	✓	✓	✓	✓		
02	2023-MW-01-0608'		13:45		Solid			✓	✓	✓	✓	✓	✓		
03	2023-MW-01-0810'		13:50		Solid			✓	✓	✓	✓	✓	✓		
04	2023-MW-01-1012'		13:55		Solid			✓	✓	✓	✓	✓	✓		
05	2023-MW-02-0002'		15:00		Solid			✓	✓	✓	✓	✓	✓		
06	2023-MW-02-0204'		15:05		Solid			✓	✓	✓	✓	✓	✓		
07	2023-MW-02-0406'		15:10		Solid			✓	✓	✓	✓	✓	✓		
08	2023-MW-02-0608'		15:15		Solid			✓	✓	✓	✓	✓	✓		
09	2023-MW-02-0810'		15:20		Solid			✓	✓	✓	✓	✓	✓		
10	2023-MW-02-1012'	↓	15:25		Solid			✓	✓	✓	✓	✓	✓		
11	2023-SB-16-0002'	3/1/23	08:55	↓	Solid			✓	✓	✓	✓	✓	✓		

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time: 3/1/23 14:15	Company	Received by:	Date/Time: 3/1/23 1415	Company: EWE
Relinquished by:	Date/Time: 3/1/23 16:29	Company EWE	Received by:	Date/Time: 3/1/23 16:29	Company: GHD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.0 +0.2 1_2#5

3/22/2023

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone: 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 4
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 4 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							FJ		F					
12	2023-SB-16 - 0204'	3/1/23	09:00	G	Solid			✓	✓	✓	✓	✓	✓		
13	2023-SB-16 - 0406'		09:05		Solid			✓	✓	✓	✓	✓	✓		
14	2023-SB-16 - 0608'		09:10		Solid			✓	✓	✓	✓	✓	✓		
15	2023-SB-16 - 0810'		09:15		Solid			✓	✓	✓	✓	✓	✓		
16	2023-SB-16 - 1012'		09:20		Solid			✓	✓	✓	✓	✓	✓		
17	2023-SB-15 - 0002'		10:00		Solid	Y		✓	✓	✓	✓	✓	✓		
18	2023-SB-15-0204'		10:05		Solid			✓	✓	✓	✓	✓	✓		
19	2023-SB-15-0406'		10:10		Solid			✓	✓	✓	✓	✓	✓		
20	2023-SB-15-0608'		10:15		Solid			✓	✓	✓	✓	✓	✓		
21	2023-SB-15-0810'		10:20		Solid			✓	✓	✓	✓	✓	✓		
22	2023-SB-15-1012'	↓	10:25	↓	Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EQuIS EDD

Special Instructions/QC Requirements. email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 14:15	ENE	[signature]	3/1/23 1415	ENE
2	[signature]	3/1/23 16:19	ENE		3/1/23 16:19	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks. 1.0 to 2 1.2 FTS

Ver: 06/08/2021

3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF+KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.5
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 5 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S 00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PUBS 8082 (50nm LOQ)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							FJ		F					
3	2023-FD-03	3/1/23	08:00	G	Solid			✓	✓	✓	✓	✓	✓		
4	TRIP BLANK-01				Solid			✓							
25	2023-SB-14-0002'		11:20		Solid			✓	✓	✓	✓	✓	✓		
26	2023-SB-14-0204'		11:25		Solid			✓	✓	✓	✓	✓	✓		
27	2023-SB-14-0406'		11:30		Solid			✓	✓	✓	✓	✓	✓		
28	2023-SB-14-0608'		11:35		Solid			✓	✓	✓	✓	✓	✓		
29	2023-SB-14-0810'		11:40		Solid			✓	✓	✓	✓	✓	✓		
30	2023-SB-14-1012'		11:45		Solid			✓	✓	✓	✓	✓	✓		
31	TRIP BLANK-02				Solid			✓							
32	2023-SB-13-0002'		12:50		Solid			✓	✓	✓	✓	✓	✓		
33	2023-SB-13-0204'		12:55		Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to ~~dmcgrath~~ dmcgrath@nobis-group.com

Empty Kit Relinquished by: ~~Equis~~	Date:	Time	Method of Shipment:
Relinquished by: BFR	Date/Time: 3/1/23 14:15	Company: ENE	Received by: BFR
Relinquished by: BFR	Date/Time: 3/1/23 16:29	Company: ENE	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.0 +0.2 1.2 #6

Ver: 06/08/2021

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3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 6
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 6 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes.
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
				Preservation Code:				J		F					
34	2023-FD-04	3/1/23	08 05	G	Solid			✓	✓	✓	✓	✓	✓		
35	2023-SB-13-0406'		13:00		Solid			✓	✓	✓	✓	✓	✓		
36	2023-SB-13-0608'		13:05		Solid			✓	✓	✓	✓	✓	✓		
37	2023-SB-13-0810'		13:10		Solid			✓	✓	✓	✓	✓	✓		
38	2023-SB-13-1012'		13:15		Solid			✓	✓	✓	✓	✓	✓		
39	TRIP BLANK-03				Solid			✓							
					Solid										
					Solid										
					Solid										
					Solid										
					Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3/1/23 14:15			3/1/23 14:15	Eurofins
2		3/1/23 16:29	ENE		3/1/23 16:29	Eurofins
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.0 to .8 1.2 IR6

Ver: 06/08/2021

3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-01-0406' (620-10051-1)	2/27/23	13:40 Eastern		Solid			X	X	X	2	
2023-MW-01-0406' (620-10051-1MS)	2/27/23	13:40 Eastern	MS	Solid			X	X	X	2	
2023-MW-01-0406' (620-10051-1MSD)	2/27/23	13:40 Eastern	MSD	Solid			X	X	X	2	
2023-MW-01-0608' (620-10051-2)	2/27/23	13:45 Eastern		Solid			X	X	X	2	
2023-MW-01-0810' (620-10051-3)	2/27/23	13:50 Eastern		Solid			X	X	X	2	
2023-MW-01-1012' (620-10051-4)	2/27/23	13:55 Eastern		Solid			X	X	X	2	
2023-MW-02-0002' (620-10051-5)	2/27/23	15:00 Eastern		Solid			X	X	X	2	
2023-MW-02-0204' (620-10051-6)	2/27/23	15:05 Eastern		Solid			X	X	X	2	
2023-MW-02-0406' (620-10051-7)	2/27/23	15:10 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 18:00	ET			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-02-0608' (620-10051-8)	2/27/23	15:15 Eastern		Solid			X	X	X	2	
2023-MW-02-0810' (620-10051-9)	2/27/23	15:20 Eastern		Solid			X	X	X	2	
2023-MW-02-1012' (620-10051-10)	2/27/23	15:25 Eastern		Solid			X	X	X	2	
2023-SB-16-0002' (620-10051-11)	3/1/23	08:55 Eastern		Solid			X	X	X	1	
2023-SB-16-0204' (620-10051-12)	3/1/23	09:00 Eastern		Solid			X	X	X	2	
2023-SB-16-0406' (620-10051-13)	3/1/23	09:05 Eastern		Solid			X	X	X	2	
2023-SB-16-0608' (620-10051-14)	3/1/23	09:10 Eastern		Solid			X	X	X	2	
2023-SB-16-0810' (620-10051-15)	3/1/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-16-1012' (620-10051-16)	3/1/23	09:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 18:00	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-15-0002' (620-10051-17)	3/1/23	10:00 Eastern		Solid			X	X	X	2	
2023-SB-15-0002' (620-10051-17MS)	3/1/23	10:00 Eastern	MS	Solid			X	X	X	2	
2023-SB-15-0002' (620-10051-17MSD)	3/1/23	10:00 Eastern	MSD	Solid			X	X	X	2	
2023-SB-15-0204' (620-10051-18)	3/1/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-15-0406' (620-10051-19)	3/1/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-15-0608' (620-10051-20)	3/1/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-15-0810' (620-10051-21)	3/1/23	10:20 Eastern		Solid			X	X	X	2	
2023-SB-15-1012' (620-10051-22)	3/1/23	10:25 Eastern		Solid			X	X	X	2	
2023-FD-03 (620-10051-23)	3/1/23	08:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 18:00	ELET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ELET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-14-0002' (620-10051-25)	3/1/23	11:20 Eastern		Solid			X	X	X	2	
2023-SB-14-0204' (620-10051-26)	3/1/23	11:25 Eastern		Solid			X	X	X	2	
2023-SB-14-0406' (620-10051-27)	3/1/23	11:30 Eastern		Solid			X	X	X	2	
2023-SB-14-0608' (620-10051-28)	3/1/23	11:35 Eastern		Solid			X	X	X	3	
2023-SB-14-0810' (620-10051-29)	3/1/23	11:40 Eastern		Solid			X	X	X	2	
2023-SB-14-1012' (620-10051-30)	3/1/23	11:45 Eastern		Solid			X	X	X	2	
2023-SB-13-0002' (620-10051-32)	3/1/23	12:50 Eastern		Solid			X	X	X	2	
2023-SB-13-0204' (620-10051-33)	3/1/23	12:55 Eastern		Solid			X	X	X	2	
2023-FD-04 (620-10051-34)	3/1/23	08:05 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 1800	ELT			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 0905	Company ELLET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
Preservation Code:											
2023-SB-13-0406' (620-10051-35)	3/1/23	13:00 Eastern		Solid			X	X	X	2	
2023-SB-13-0608' (620-10051-36)	3/1/23	13:05 Eastern		Solid			X	X	X	1	
2023-SB-13-0810' (620-10051-37)	3/1/23	13:10 Eastern		Solid			X	X	X	2	
2023-SB-13-1012' (620-10051-38)	3/1/23	13:15 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 1600	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

IM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCl; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-01-0406' (620-10051-1)	2/27/23	13:40 Eastern		Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MS)	2/27/23	13:40 Eastern	MS	Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MSD)	2/27/23	13:40 Eastern	MSD	Solid			X	X	1	
2023-MW-01-0608' (620-10051-2)	2/27/23	13:45 Eastern		Solid			X	X	1	
2023-MW-01-0810' (620-10051-3)	2/27/23	13:50 Eastern		Solid			X	X	1	
2023-MW-01-1012' (620-10051-4)	2/27/23	13:55 Eastern		Solid			X	X	1	
2023-MW-02-0002' (620-10051-5)	2/27/23	15:00 Eastern		Solid			X	X	1	
2023-MW-02-0204' (620-10051-6)	2/27/23	15:05 Eastern		Solid			X	X	1	
2023-MW-02-0406' (620-10051-7)	2/27/23	15:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 18:00	Eurofins	[signature]		
2				[signature]	3-2-23 950	TAB
3						

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-02-0608' (620-10051-8)	2/27/23	15:15 Eastern		Solid			X	X	1	
2023-MW-02-0810' (620-10051-9)	2/27/23	15:20 Eastern		Solid			X	X	1	
2023-MW-02-1012' (620-10051-10)	2/27/23	15:25 Eastern		Solid			X	X	1	
2023-SB-16-0002' (620-10051-11)	3/1/23	08:55 Eastern		Solid			X	X	1	
2023-SB-16-0204' (620-10051-12)	3/1/23	09:00 Eastern		Solid			X	X	1	
2023-SB-16-0406' (620-10051-13)	3/1/23	09:05 Eastern		Solid			X	X	1	
2023-SB-16-0608' (620-10051-14)	3/1/23	09:10 Eastern		Solid			X	X	1	
2023-SB-16-0810' (620-10051-15)	3/1/23	09:15 Eastern		Solid			X	X	1	
2023-SB-16-1012' (620-10051-16)	3/1/23	09:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	3/1/23 18:00	EUE	[signature]		
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-15-0002' (620-10051-17)	3/1/23	10:00 Eastern		Solid			X	X	1	
2023-SB-15-0002' (620-10051-17MS)	3/1/23	10:00 Eastern	MS	Solid			X	X	1	
2023-SB-15-0002' (620-10051-17MSD)	3/1/23	10:00 Eastern	MSD	Solid			X	X	1	
2023-SB-15-0204' (620-10051-18)	3/1/23	10:05 Eastern		Solid			X	X	1	
2023-SB-15-0406' (620-10051-19)	3/1/23	10:10 Eastern		Solid			X	X	1	
2023-SB-15-0608' (620-10051-20)	3/1/23	10:15 Eastern		Solid			X	X	1	
2023-SB-15-0810' (620-10051-21)	3/1/23	10:20 Eastern		Solid			X	X	1	
2023-SB-15-1012' (620-10051-22)	3/1/23	10:25 Eastern		Solid			X	X	1	
2023-FD-03 (620-10051-23)	3/1/23	08:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 11:00	Eur	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by: pg	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-14-0002' (620-10051-25)	3/1/23	11:20 Eastern		Solid			X	X	1	
2023-SB-14-0204' (620-10051-26)	3/1/23	11:25 Eastern		Solid			X	X	1	
2023-SB-14-0406' (620-10051-27)	3/1/23	11:30 Eastern		Solid			X	X	1	
2023-SB-14-0608' (620-10051-28)	3/1/23	11:35 Eastern		Solid			X	X	1	
2023-SB-14-0810' (620-10051-29)	3/1/23	11:40 Eastern		Solid			X	X	1	
2023-SB-14-1012' (620-10051-30)	3/1/23	11:45 Eastern		Solid			X	X	1	
2023-SB-13-0002' (620-10051-32)	3/1/23	12:50 Eastern		Solid			X	X	1	
2023-SB-13-0204' (620-10051-33)	3/1/23	12:55 Eastern		Solid			X	X	1	
2023-FD-04 (620-10051-34)	3/1/23	08:05 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/1/23 1810	EuE	pg		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-13-0406' (620-10051-35)	3/1/23	13:00 Eastern		Solid			X	X	1	
2023-SB-13-0608' (620-10051-36)	3/1/23	13:05 Eastern		Solid			X	X	1	
2023-SB-13-0810' (620-10051-37)	3/1/23	13:10 Eastern		Solid			X	X	1	
2023-SB-13-1012' (620-10051-38)	3/1/23	13:15 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/1/23 18:00	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10051-1

Login Number: 10051
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10051-1

Login Number: 10051
List Number: 3
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/02/23 01:53 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10051-1

Login Number: 10051
List Number: 2
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/02/23 10:43 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

May 23, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620100801
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review:

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Extracted Petroleum Hydrocarbons (EPH by MassDEP-EPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 (mod.)

32/Soil Samples: 2023-MW-07-0002, 2023-MW-07-0204, 2023-MW-07-0406, 2023-MW-07-0608, 2023-MW-07-0810, 2023-MW-07-1012, 2023-SB-04-0002, 2023-SB-04-0204, 2023-SB-04-0406, 2023-SB-04-0608, 2023-SB-04-0810, 2023-SB-04-1012, 2023-SB-03-0002, 2023-SB-03-0204, 2023-SB-03-0406, 2023-SB-03-0608, 2023-SB-03-0810, 2023-SB-03-1012, 2023-MW-04-0002, 2023-MW-04-0204, 2023-MW-04-0406, 2023-MW-04-0608, 2023-MW-04-0810, 2023-MW-04-1012, 2023-FD-05, 2023-SS-06, 2023-SS-05, 2023-SS-04, 2023-SS-03, 2023-SS-02, 2023-SS-01, 2023-FD-02
2/Field Duplicate Pairs: 2023-SS-05 / 2023-FD-02 and 2023-SB-03-0406 / 2023-FD-05
1/Solid Trip Blank: Trip Blank-04

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on February 27, 2023, March 1, 2023, and March 2, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D, Polychlorinated Biphenyls by EPA Method 8082, VPHs by MassDEP-VPH, EPHs by MassDEP-EPH, MCP-14 Metals by EPA Method 6010D/7471B, and PFAS by EPA Method 537 mod., by Eurofins New England in North Kingstown, RI, Eurofins Northeast in Amherst, NY (MassDEP-VPH analyses), and Eurofins Lancaster Laboratories in Lancaster, PA (for MCP-14 metals/mercury and PFAS analyses).

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific

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Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020); USEPA's Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018a); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Preservation and Technical Holding Times
	• Blanks
	• Surrogates (organic analyses only)
NA	• Internal Standards
	• Matrix Spike Analysis
*	• Laboratory Duplicates
	• Laboratory Control Samples (LCS)
*	• Field Duplicates
	• ICP Serial Dilutions (metals only)
NA	• Performance Evaluation (PE) Samples
NA	• Target Analyte Identification
*	• Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Results for 3,3'-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, and aniline were rejected (R) in sample 2023-MW-07-0002 due to poor MS/MSD recoveries.

Non-detect results for C9-C18 aliphatics were rejected (R) in most of the surface soil samples due to poor MS/MSD recoveries.

Non-detect results for the PFAS NMeFOSAA, NEtFOSAA, NMePFOSA, and/or NEtPFOSA were rejected (R) in select samples due to low surrogate recovery.

Reporting limits (RLs) for non-detect results for 1,1,2,2-tetrachloroethane and dibromochloromethane exceeded the PALs of 0.02 mg/kg and 0.03 mg/kg, respectively, in the surface soil samples. RLs for non-detect thallium results in several samples exceeded the PAL of 8 mg/kg due to 1/10 sample dilutions required to report other analytes. Site objectives may be impacted.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for laboratory and trip blank contamination and MS/MSD exceedances.

SVOCs:
Non-detect results for 3,3'-dichlorobenzidine, 3-nitroaniline, 4-chloroaniline, 4-nitroaniline, and aniline in sample 2023-MW-07-0002 were rejected due to MS/MSD exceedances and results were qualified for LCS/LCSD and MS/MSD exceedances.

PCBs:
Qualification of the data was not required.

MassDEP-VPH:
Results were qualified for laboratory blank contamination.

MassDEP-EPH:
Results for C9-C18 aliphatics were rejected in several surface soil samples due to MS/MSD exceedances and results were qualified for LCS/LCSD and MS/MSD exceedances.

MCP-14 Metals and Mercury:
Results were qualified for MS/MSD exceedances and serial dilutions.

PFAS:
Several results were rejected for low surrogate recovery and several results were qualified due to surrogate recovery exceedances.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		EPH in Soil				
Lab Sample ID		620-10080-10	620-10080-11	620-10080-12	620-10080-13	620-10080-7
Field Sample ID		2023-SS-03	2023-SS-02	2023-SS-01	2023-FD-02	2023-SS-06
Sample Type		N	N	N	FD	N
Parent Sample ID					2023-SS-05	
Sample Date	**Units**	02/27/23	02/27/23	02/27/23	02/27/23	02/27/23
2-Methylnaphthalene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	0.441 U
Acenaphthene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	0.441 U
Acenaphthylene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	0.441 U
Anthracene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	1.07
Benzo(a)anthracene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	3.99 J
Benzo(a)pyrene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	1.2
Benzo(b)fluoranthene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	1.67
Benzo(g,h,i)perylene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	0.441 U
Benzo(k)fluoranthene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	1.79
C11-C22 Aromatics	mg/kg	20	7.1 U	10.1	23.9	149
C11-C22 Aromatics (adjusted)	mg/kg	20	7.1 U	10.1	23.9	109
C19-C36 Aliphatics	mg/kg	7.8 U	7.1 U	7.11 U	9.34	8.84 U
C9-C18 Aliphatics	mg/kg	R	R	R	R	R
Chrysene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	2.45
Dibenz(a,h)anthracene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	0.54 J
Fluoranthene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	10.6
Fluorene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	0.441 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	1.38
Naphthalene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	0.441 U
Phenanthrene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	9.13
Pyrene	mg/kg	0.39 U	0.354 U	0.355 U	0.339 U	5.45

U – not detected; J – estimated value; R – rejected; EB – detected in equipment blank; N – tentatively identified; + biased high; - biased low

DATA SUMMARY TABLE

Analysis		EPH in Soil	
Lab Sample ID		620-10080-8	620-10080-9
Field Sample ID		2023-SS-05	2023-SS-04
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	02/27/23	02/27/23
2-Methylnaphthalene	mg/kg	0.343 U	0.357 U
Acenaphthene	mg/kg	0.343 U	0.357 U
Acenaphthylene	mg/kg	0.343 U	0.357 U
Anthracene	mg/kg	0.343 U	0.357 U
Benzo(a)anthracene	mg/kg	0.343 U	0.357 U
Benzo(a)pyrene	mg/kg	0.343 U	0.357 U
Benzo(b)fluoranthene	mg/kg	0.343 U	0.357 U
Benzo(g,h,i)perylene	mg/kg	0.343 U	0.357 U
Benzo(k)fluoranthene	mg/kg	0.343 U	0.357 U
C11-C22 Aromatics	mg/kg	6.87 U	9.97
C11-C22 Aromatics (adjusted)	mg/kg	6.87 U	9.97
C19-C36 Aliphatics	mg/kg	6.87 U	13.7
C9-C18 Aliphatics	mg/kg	R	11 J
Chrysene	mg/kg	0.343 U	0.357 U
Dibenz(a,h)anthracene	mg/kg	0.343 U	0.357 U
Fluoranthene	mg/kg	0.343 U	0.357 U
Fluorene	mg/kg	0.343 U	0.357 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.343 U	0.357 U
Naphthalene	mg/kg	0.343 U	0.357 U
Phenanthrene	mg/kg	0.343 U	0.357 U
Pyrene	mg/kg	0.343 U	0.357 U

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10080-1	620-10080-10	620-10080-11	620-10080-12	620-10080-13
Field Sample ID		2023-MW-07-0002	2023-SS-03	2023-SS-02	2023-SS-01	2023-FD-02
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SS-05
Sample Date	**Units**	03/01/23	02/27/23	02/27/23	02/27/23	02/27/23
Antimony	mg/kg	5.16 U	5.12 UJ	5.06 UJ	5.39 UJ	4.11 UJ
Arsenic	mg/kg	8.5	4.01	2.54 J	3.03 J	3.05
Barium	mg/kg	162 J	44.6 J+	23.4 J+	22 J+	25 J+
Beryllium	mg/kg	0.282 J	0.397 J	0.199 J	0.331 J	0.298 J
Cadmium	mg/kg	0.516 U	1.4	0.506 U	0.539 U	0.411 U
Chromium	mg/kg	4.93	7.25	4.18	4.31	5.26
Lead	mg/kg	19.3 J+	17.2 J	8.06 J	8.52 J	8.09 J
Mercury	mg/kg	0.192	0.0419 J	0.065 U	0.0623 U	0.0412 J
Nickel	mg/kg	2.34	5.23	2.45	2.64	2.76
Selenium	mg/kg	5.16 U	5.12 U	5.06 U	5.39 U	4.11 U
Silver	mg/kg	1.03 U	1.02 U	1.01 U	1.08 U	0.823 U
Thallium	mg/kg	3.1 UJ	3.07 U	2.49 J	3.24 U	2.47 U
Vanadium	mg/kg	9.18	16	6.79	8.16	8.09
Zinc	mg/kg	17.3	54.7	17	21.9	23.4

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10080-14	620-10080-15	620-10080-16	620-10080-17	620-10080-18
Field Sample ID		2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Antimony	mg/kg	4.91 U	3.88 U	5.79 U	4.64 U	5.51 U
Arsenic	mg/kg	5.13	2.54	2.21 J	2.92	10.3
Barium	mg/kg	16.8	12.8	12.4	18.9	133
Beryllium	mg/kg	0.274 J	0.152 J	0.123 J	0.249 J	1.78
Cadmium	mg/kg	0.491 U	0.388 U	0.579 U	0.464 U	0.551 U
Chromium	mg/kg	4.19	2.6	2.7	5.01	32.9
Lead	mg/kg	2.84	1.68	2.02	2.78	16.4
Mercury	mg/kg	0.0655 U	0.0641 U	0.0741 U	0.0705 U	0.0739 U
Nickel	mg/kg	2.04	1.19	1.3	2.25	18.1
Selenium	mg/kg	4.91 U	3.88 U	5.79 U	4.64 U	5.51 U
Silver	mg/kg	0.983 U	0.776 U	1.16 U	0.928 U	1.1 U
Thallium	mg/kg	2.95 U	2.33 U	3.47 U	2.78 U	33.1 U
Vanadium	mg/kg	6.97	4.06	4.49	7.96	53.6
Zinc	mg/kg	8.56	7.8	11.1	15.8	67.9

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10080-19	620-10080-2	620-10080-20	620-10080-21	620-10080-22
Field Sample ID		2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/01/23	03/02/23	03/02/23	03/02/23
Antimony	mg/kg	4.17 U	5.13 U	4.53 U	4.46 U	5.49 U
Arsenic	mg/kg	2.55	1.93 J	2.43 J	4.28	3.03 J
Barium	mg/kg	13.3	17.6	15	30.8	18.5
Beryllium	mg/kg	0.215 J	0.469 J	0.316 J	0.437 J	0.257 J
Cadmium	mg/kg	0.417 U	0.513 U	0.453 U	0.446 U	0.549 U
Chromium	mg/kg	6.37	6.16	4.34	7.62	5.02
Lead	mg/kg	2.19	7.22	2.89	3.35	2.59
Mercury	mg/kg	0.0745 U	0.0683 U	0.0626 U	0.0698 U	0.0671 U
Nickel	mg/kg	2.96	2.83	2.51	3.44	1.97
Selenium	mg/kg	4.17 U	5.13 U	4.53 U	4.46 U	5.49 U
Silver	mg/kg	0.833 U	1.03 U	0.906 U	0.892 U	1.1 U
Thallium	mg/kg	2.5 U	2.2 J	2.72 U	2.68 U	3.29 U
Vanadium	mg/kg	7.79	10.6	6.81	12.6	7.81
Zinc	mg/kg	14.8	13.4	8.66	14.4	9.61

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10080-23	620-10080-24	620-10080-25	620-10080-26	620-10080-27
Field Sample ID		2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002	2023-MW-04-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Antimony	mg/kg	5.54 U	1.88 J	4.51 U	5.31 U	4.56 U
Arsenic	mg/kg	3.73	7.89	5.2	3.35	2.52 J
Barium	mg/kg	32.5	101	34.5	35.2	21.6
Beryllium	mg/kg	0.414 J	1.32	0.481	0.262 J	0.203 J
Cadmium	mg/kg	0.554 U	0.538 U	0.451 U	0.531 U	0.456 U
Chromium	mg/kg	8.36	27.1	8.67	6.28	3.98
Lead	mg/kg	3.32	11.6	3.54	5.41	4.24
Mercury	mg/kg	0.0698 U	0.0713 U	0.0725 U	0.0616 U	0.0596 U
Nickel	mg/kg	4.1	18.1	3.78	2.49	2.09
Selenium	mg/kg	5.54 U	5.38 U	4.51 U	5.31 U	4.56 U
Silver	mg/kg	1.11 U	1.08 U	0.902 U	1.06 U	0.912 U
Thallium	mg/kg	3.32 U	32.3 U	2.71 U	3.18 U	2.74 U
Vanadium	mg/kg	13.9	45.5	13.8	7.71	6.38
Zinc	mg/kg	16.8	64.8	15.2	23.3	17.8

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10080-28	620-10080-29	620-10080-3	620-10080-30	620-10080-31
Field Sample ID		2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810	2023-MW-04-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
Antimony	mg/kg	5.89 U	4.61 U	4.65 U	1.69 J	5.6 U
Arsenic	mg/kg	2.48 J	8.2	1.64 J	9.06	4.76
Barium	mg/kg	17.7	94.7	16.8	103	52.8
Beryllium	mg/kg	0.163 J	1.41	0.21 J	1.51	0.705
Cadmium	mg/kg	0.589 U	0.461 U	0.465 U	0.447 U	0.56 U
Chromium	mg/kg	3.87	25.3	7.32	28.6	14.6
Lead	mg/kg	3.2	12.5	3.37	13.8	5.16
Mercury	mg/kg	0.0714 U	0.0751 U	0.0632 U	0.0374 J	0.0716 U
Nickel	mg/kg	1.76	13.3	2.3	16.1	7.09
Selenium	mg/kg	5.89 U	4.61 U	4.65 U	4.47 U	5.6 U
Silver	mg/kg	1.18 U	0.921 U	0.93 U	0.895 U	1.12 U
Thallium	mg/kg	2.16 J	27.6 U	2.16 J	26.8 U	33.6 U
Vanadium	mg/kg	6.04	42.3	6.14	47.1	21.6
Zinc	mg/kg	19.8	59.5	9.4	65.5	35

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10080-32	620-10080-4	620-10080-5	620-10080-6	620-10080-7
Field Sample ID		2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-SS-06
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-03-0406				
Sample Date	**Units**	03/02/23	03/01/23	03/01/23	03/01/23	02/27/23
Antimony	mg/kg	5.67 U	4 U	3.99 U	6.54 U	5.53 UJ
Arsenic	mg/kg	2.43 J	2.79	2.1 J	10.6	6.27
Barium	mg/kg	16.6	14.8	13	155	51.4 J
Beryllium	mg/kg	0.239 J	0.233 J	0.146 J	1.82	0.637
Cadmium	mg/kg	0.567 U	0.4 U	0.399 U	0.654 U	1.02
Chromium	mg/kg	4.99	9.2	3.84	37.7	12.7
Lead	mg/kg	2.29	3.94	2.32	14.7	17 J
Mercury	mg/kg	0.0678 U	0.0599 U	0.0607 U	0.0806 U	0.0418 J
Nickel	mg/kg	1.87	2.19	1.67	22.5	7.32
Selenium	mg/kg	5.67 U	4 U	3.99 U	6.54 U	5.53 U
Silver	mg/kg	1.13 U	0.801 U	0.797 U	1.31 U	11.1 U
Thallium	mg/kg	3.4 U	2.4 U	1.21 J	13.6	33.2 U
Vanadium	mg/kg	7.22	7.46	5.56	64.8	20.4
Zinc	mg/kg	8.73	10.3	7.8	90.8	49.7

DATA SUMMARY TABLE

Analysis		Metals in Soil	
Lab Sample ID		620-10080-8	620-10080-9
Field Sample ID		2023-SS-05	2023-SS-04
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	02/27/23	02/27/23
Antimony	mg/kg	5.24 UJ	5.04 UJ
Arsenic	mg/kg	2.15 J	3.32
Barium	mg/kg	20.6 J+	21 J+
Beryllium	mg/kg	0.245 J	0.299 J
Cadmium	mg/kg	0.524 U	0.504 U
Chromium	mg/kg	3.21	5.21
Lead	mg/kg	7.58 J	16.8 J
Mercury	mg/kg	0.0641 U	0.0294 J
Nickel	mg/kg	2.07	3.08
Selenium	mg/kg	5.24 U	5.04 U
Silver	mg/kg	1.05 U	1.01 U
Thallium	mg/kg	3.14 U	3.02 U
Vanadium	mg/kg	5.54	8.53
Zinc	mg/kg	21.3	24.7

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10080-1	620-10080-10	620-10080-11	620-10080-12	620-10080-13
Field Sample ID		2023-MW-07-0002	2023-SS-03	2023-SS-02	2023-SS-01	2023-FD-02
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SS-05
Sample Date	**Units**	03/01/23	02/27/23	02/27/23	02/27/23	02/27/23
Aroclor 1016	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U
Aroclor 1221	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U
Aroclor 1232	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U
Aroclor 1242	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U
Aroclor 1248	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U
Aroclor 1254	mg/kg	8.6	5.84	0.563	1.61	0.657
Aroclor 1260	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U
Aroclor 1262	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U
Aroclor 1268	mg/kg	0.221 U	0.217 U	0.0213 U	0.109 U	0.0206 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10080-14	620-10080-15	620-10080-16	620-10080-17	620-10080-18
Field Sample ID		2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Aroclor 1016	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U
Aroclor 1221	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U
Aroclor 1232	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U
Aroclor 1242	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U
Aroclor 1248	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U
Aroclor 1254	mg/kg	0.062	0.0213 U	0.0991	0.0236 U	0.0263 U
Aroclor 1260	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U
Aroclor 1262	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U
Aroclor 1268	mg/kg	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10080-19	620-10080-2	620-10080-20	620-10080-21	620-10080-22
Field Sample ID		2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/01/23	03/02/23	03/02/23	03/02/23
Aroclor 1016	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U
Aroclor 1221	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U
Aroclor 1232	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U
Aroclor 1242	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U
Aroclor 1248	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U
Aroclor 1254	mg/kg	0.0641	0.0313	0.0502	0.0243 U	0.0231 U
Aroclor 1260	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U
Aroclor 1262	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U
Aroclor 1268	mg/kg	0.0243 U	0.0222 U	0.0208 U	0.0243 U	0.0231 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10080-23	620-10080-24	620-10080-25	620-10080-26	620-10080-27
Field Sample ID		2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002	2023-MW-04-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Aroclor 1016	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U
Aroclor 1221	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U
Aroclor 1232	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U
Aroclor 1242	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U
Aroclor 1248	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U
Aroclor 1254	mg/kg	0.0247 U	0.0216 J	0.0229 U	0.792	0.32
Aroclor 1260	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U
Aroclor 1262	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U
Aroclor 1268	mg/kg	0.0247 U	0.0249 U	0.0229 U	0.0193 U	0.0212 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10080-28	620-10080-29	620-10080-3	620-10080-30	620-10080-31
Field Sample ID		2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810	2023-MW-04-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
Aroclor 1016	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U
Aroclor 1221	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U
Aroclor 1232	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U
Aroclor 1242	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U
Aroclor 1248	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U
Aroclor 1254	mg/kg	0.16	0.141	0.373	0.0253 U	0.0239 U
Aroclor 1260	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U
Aroclor 1262	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U
Aroclor 1268	mg/kg	0.0228 U	0.0262 U	0.0214 U	0.0253 U	0.0239 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10080-32	620-10080-4	620-10080-5	620-10080-6	620-10080-7
Field Sample ID		2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-SS-06
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-03-0406				
Sample Date	**Units**	03/02/23	03/01/23	03/01/23	03/01/23	02/27/23
Aroclor 1016	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U
Aroclor 1221	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U
Aroclor 1232	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U
Aroclor 1242	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U
Aroclor 1248	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U
Aroclor 1254	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	6.4
Aroclor 1260	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U
Aroclor 1262	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U
Aroclor 1268	mg/kg	0.0227 U	0.0214 U	0.0207 U	0.0273 U	0.26 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil	
Lab Sample ID		620-10080-8	620-10080-9
Field Sample ID		2023-SS-05	2023-SS-04
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	02/27/23	02/27/23
Aroclor 1016	mg/kg	0.0203 U	0.109 U
Aroclor 1221	mg/kg	0.0203 U	0.109 U
Aroclor 1232	mg/kg	0.0203 U	0.109 U
Aroclor 1242	mg/kg	0.0203 U	0.109 U
Aroclor 1248	mg/kg	0.0203 U	0.109 U
Aroclor 1254	mg/kg	0.735	1.81
Aroclor 1260	mg/kg	0.0203 U	0.109 U
Aroclor 1262	mg/kg	0.0203 U	0.109 U
Aroclor 1268	mg/kg	0.0203 U	0.109 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-1	620-10080-14	620-10080-15	620-10080-16	620-10080-17
Field Sample ID		2023-MW-07-0002	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/02/23	03/02/23	03/02/23	03/02/23
10:2 FTS	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.31 U	3.23 U	3.19 U	3.89 U	3.65 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
6:2 Fluorotelomer sulfonate	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
8:2 Fluorotelomer sulfonate	ug/kg	3.31 U	3.23 U	3.19 U	3.89 U	3.65 U
9Cl-PF3ONS	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.21 UJ	2.16 UJ	2.13 U	2.59 U	2.43 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.21 UJ	2.16 U	2.13 U	2.59 UJ	2.43 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.21 UJ	2.16 UJ	2.13 U	2.59 U	2.43 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.21 UJ	2.16 U	2.13 U	2.59 UJ	2.43 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.21 UJ	2.16 U	2.13 U	2.59 U	2.43 U
Perfluorodecane Sulfonate	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-18	620-10080-19	620-10080-2	620-10080-20	620-10080-21
Field Sample ID		2023-SB-04-0810	2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
10:2 FTS	ug/kg	2.49 U	2.3 U	2.28 U	2.14 U	2.28 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.49 U	2.3 U	2.28 U	2.14 U	2.28 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.49 U	2.3 U	2.28 U	2.14 U	2.28 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.74 U	3.45 U	3.41 U	3.2 U	3.43 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.49 U	2.3 U	2.28 UJ	2.14 U	2.28 UJ
6:2 Fluorotelomer sulfonate	ug/kg	2.49 U	2.3 U	2.28 UJ	2.14 U	2.28 UJ
8:2 Fluorotelomer sulfonate	ug/kg	3.74 U	3.45 U	3.41 UJ	3.2 U	3.43 UJ
9Cl-PF3ONS	ug/kg	2.49 U	2.3 U	2.28 U	2.14 U	2.28 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.49 U	2.3 U	2.28 UJ	2.14 U	2.28 UJ
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.49 UJ	2.3 U	R	2.14 UJ	2.28 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.49 U	2.3 U	2.28 U	2.14 UJ	2.28 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.49 UJ	2.3 U	R	R	R
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.49 U	2.3 U	2.28 U	2.14 UJ	2.28 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.49 U	2.3 U	2.28 UJ	2.14 U	2.28 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.49 U	2.3 U	2.28 UJ	2.14 U	2.28 UJ
Perfluorodecane Sulfonate	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-22	620-10080-23	620-10080-24	620-10080-25	620-10080-26
Field Sample ID		2023-SB-03-0406	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
10:2 FTS	ug/kg	2.28 U	2.38 U	2.29 U	2.22 U	1.98 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.28 U	2.38 U	2.29 U	2.22 U	1.98 UJ
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.28 U	2.38 U	2.29 U	2.22 U	1.98 UJ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.42 U	3.58 U	3.43 U	3.33 U	2.98 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.28 U	2.38 U	2.29 U	2.22 UJ	1.98 U
6:2 Fluorotelomer sulfonate	ug/kg	2.28 U	2.38 U	2.29 U	2.22 UJ	1.98 U
8:2 Fluorotelomer sulfonate	ug/kg	3.42 U	3.58 U	3.43 U	3.33 UJ	2.98 U
9Cl-PF3ONS	ug/kg	2.28 U	2.38 U	2.29 U	2.22 U	1.98 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.28 U	2.38 U	2.29 U	2.22 UJ	1.98 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.28 UJ	2.38 UJ	2.29 UJ	2.22 UJ	1.98 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.28 UJ	2.38 U	2.29 U	2.22 U	R
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.28 UJ	2.38 UJ	2.29 UJ	2.22 UJ	1.98 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.28 UJ	2.38 U	2.29 U	2.22 U	R
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.28 U	2.38 U	2.29 U	2.22 U	1.98 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.28 U	2.38 U	2.29 U	2.22 UJ	1.98 U
Perfluorodecane Sulfonate	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-27	620-10080-28	620-10080-29	620-10080-3	620-10080-30
Field Sample ID		2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/01/23	03/02/23
10:2 FTS	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.23 U	3.53 U	3.71 U	3.17 U	3.89 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
6:2 Fluorotelomer sulfonate	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
8:2 Fluorotelomer sulfonate	ug/kg	3.23 U	3.53 U	3.71 U	3.17 U	3.89 U
9Cl-PF3ONS	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.15 U	2.36 U	2.47 UJ	2.11 UJ	2.59 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.15 U	2.36 U	2.47 U	R	2.59 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.15 UJ	2.36 U	2.47 UJ	2.11 UJ	2.59 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.15 U	2.36 U	2.47 U	R	2.59 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
Perfluorodecane Sulfonate	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-31	620-10080-32	620-10080-4	620-10080-5	620-10080-6
Field Sample ID		2023-MW-04-1012	2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012
Sample Type		N	FD	N	N	N
Parent Sample ID			2023-SB-03-0406			
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/01/23	03/01/23
10:2 FTS	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.66 U	3.27 U	3.12 U	3.1 U	4.16 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
6:2 Fluorotelomer sulfonate	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
8:2 Fluorotelomer sulfonate	ug/kg	3.66 U	3.27 U	3.12 U	3.1 U	4.16 U
9Cl-PF3ONS	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.44 U	2.18 U	2.08 UJ	2.07 UJ	2.77 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.44 U	2.18 U	2.08 UJ	2.07 J	2.77 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.44 U	2.18 U	2.08 UJ	2.07 UJ	2.77 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.44 U	2.18 U	2.08 UJ	2.07 UJ	2.77 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
Perfluorodecane Sulfonate	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-1	620-10080-14	620-10080-15	620-10080-16	620-10080-17
Field Sample ID		2023-MW-07-0002	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/02/23	03/02/23	03/02/23	03/02/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.21 U	2.16 U	2.13 U	2.59 U	2.43 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluoroheptane sulfonate	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorohexadecanoic acid	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorononanesulfonic acid	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorononanoic acid (PFNA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorooctadecanoic acid	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.662 U	0.647 U	0.368 J	0.29 J	0.73 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluorooctylsulfonamide	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluoropentanoic Acid	ug/kg	0.662 UJ	0.647 U	0.639 U	0.778 U	0.73 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.662 U	0.647 U	0.639 U	0.778 U	0.73 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-18	620-10080-19	620-10080-2	620-10080-20	620-10080-21
Field Sample ID		2023-SB-04-0810	2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.49 U	2.3 U	2.28 U	2.14 U	2.28 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluoroheptane sulfonate	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluorohexadecanoic acid	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluorononanesulfonic acid	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
Perfluorononanoic acid (PFNA)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 UJ
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
Perfluorooctadecanoic acid	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U
Perfluorooctylsulfonamide	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
Perfluoropentanoic Acid	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 UJ
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.748 U	0.69 U	0.683 U	0.641 U	0.685 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.748 U	0.69 U	0.683 UJ	0.641 U	0.685 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-22	620-10080-23	620-10080-24	620-10080-25	620-10080-26
Field Sample ID		2023-SB-03-0406	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.28 U	2.38 U	2.29 U	2.22 U	1.98 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluoroheptane sulfonate	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluorohexadecanoic acid	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluorononanesulfonic acid	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluorononanoic acid (PFNA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluorooctadecanoic acid	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluorooctylsulfonamide	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 UJ
Perfluoropentanoic Acid	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 U	0.595 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.684 U	0.715 U	0.687 U	0.665 UJ	0.595 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-27	620-10080-28	620-10080-29	620-10080-3	620-10080-30
Field Sample ID		2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/01/23	03/02/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.15 U	2.36 U	2.47 U	2.11 U	2.59 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluoroheptane sulfonate	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorohexadecanoic acid	ug/kg	0.646 U	0.707 U	0.742 U	0.25 J	0.778 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorononanesulfonic acid	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorononanoic acid (PFNA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorooctadecanoic acid	ug/kg	0.646 U	0.707 U	0.742 U	0.301 J	0.778 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluorooctylsulfonamide	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluoropentanoic Acid	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.646 U	0.707 U	0.742 U	0.634 U	0.778 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10080-31	620-10080-32	620-10080-4	620-10080-5	620-10080-6
Field Sample ID		2023-MW-04-1012	2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012
Sample Type		N	FD	N	N	N
Parent Sample ID			2023-SB-03-0406			
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/01/23	03/01/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.44 U	2.18 U	2.08 U	2.07 U	2.77 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluoroheptane sulfonate	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorohexadecanoic acid	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorononanesulfonic acid	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorononanoic acid (PFNA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorooctadecanoic acid	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluorooctylsulfonamide	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluoropentanoic Acid	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.732 U	0.655 U	0.624 U	0.621 U	0.832 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-14	620-10080-15	620-10080-16	620-10080-17
Field Sample ID		2023-MW-07-0002	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/02/23	03/02/23	03/02/23	03/02/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
1,2,4-Trichlorobenzene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
1,2-Dichlorobenzene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
1,3-Dichlorobenzene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
1,4-Dichlorobenzene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
2,4,5-Trichlorophenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
2,4,6-Trichlorophenol	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
2,4-Dichlorophenol	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
2,4-Dimethylphenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
2,4-Dinitrophenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
2,4-Dinitrotoluene	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
2,6-Dinitrotoluene	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
2-Chloronaphthalene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
2-Chlorophenol	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
2-Methylnaphthalene	mg/kg	0.256	0.146 U	0.0703 U	0.17 U	0.0833 U
2-Methylphenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
2-Nitroaniline	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
2-Nitrophenol	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
3 & 4 Methylphenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
3,3'-Dichlorobenzidine	mg/kg	R	0.721 U	0.348 U	0.84 U	0.412 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-18	620-10080-19	620-10080-2	620-10080-20	620-10080-21
Field Sample ID		2023-SB-04-0810	2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
1,2,4-Trichlorobenzene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
1,2-Dichlorobenzene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
1,3-Dichlorobenzene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
1,4-Dichlorobenzene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
2,4,5-Trichlorophenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
2,4,6-Trichlorophenol	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
2,4-Dichlorophenol	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
2,4-Dimethylphenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
2,4-Dinitrophenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
2,4-Dinitrotoluene	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
2,6-Dinitrotoluene	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
2-Chloronaphthalene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
2-Chlorophenol	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
2-Methylnaphthalene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
2-Methylphenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
2-Nitroaniline	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
2-Nitrophenol	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
3 & 4 Methylphenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
3,3'-Dichlorobenzidine	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-22	620-10080-23	620-10080-24	620-10080-25	620-10080-26
Field Sample ID		2023-SB-03-0406	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
1,2,4-Trichlorobenzene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
1,2-Dichlorobenzene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
1,3-Dichlorobenzene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
1,4-Dichlorobenzene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
2,4,5-Trichlorophenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
2,4,6-Trichlorophenol	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
2,4-Dichlorophenol	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
2,4-Dimethylphenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
2,4-Dinitrophenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
2,4-Dinitrotoluene	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
2,6-Dinitrotoluene	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
2-Chloronaphthalene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
2-Chlorophenol	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
2-Methylnaphthalene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
2-Methylphenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
2-Nitroaniline	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
2-Nitrophenol	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
3 & 4 Methylphenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
3,3'-Dichlorobenzidine	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-27	620-10080-28	620-10080-29	620-10080-3	620-10080-30
Field Sample ID		2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/01/23	03/02/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
1,2,4-Trichlorobenzene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
1,2-Dichlorobenzene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
1,3-Dichlorobenzene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
1,4-Dichlorobenzene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
2,4,5-Trichlorophenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
2,4,6-Trichlorophenol	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
2,4-Dichlorophenol	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
2,4-Dimethylphenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
2,4-Dinitrophenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
2,4-Dinitrotoluene	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
2,6-Dinitrotoluene	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
2-Chloronaphthalene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
2-Chlorophenol	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
2-Methylnaphthalene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.143 U	0.0853 U
2-Methylphenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
2-Nitroaniline	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
2-Nitrophenol	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
3 & 4 Methylphenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
3,3'-Dichlorobenzidine	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-31	620-10080-32	620-10080-4	620-10080-5	620-10080-6
Field Sample ID		2023-MW-04-1012	2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012
Sample Type		N	FD	N	N	N
Parent Sample ID			2023-SB-03-0406			
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/01/23	03/01/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
1,2,4-Trichlorobenzene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
1,2-Dichlorobenzene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
1,3-Dichlorobenzene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
1,4-Dichlorobenzene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
2,4,5-Trichlorophenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
2,4,6-Trichlorophenol	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
2,4-Dichlorophenol	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
2,4-Dimethylphenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
2,4-Dinitrophenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
2,4-Dinitrotoluene	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
2,6-Dinitrotoluene	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
2-Chloronaphthalene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
2-Chlorophenol	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
2-Methylnaphthalene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
2-Methylphenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
2-Nitroaniline	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
2-Nitrophenol	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
3 & 4 Methylphenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
3,3'-Dichlorobenzidine	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-14	620-10080-15	620-10080-16	620-10080-17
Field Sample ID		2023-MW-07-0002	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/02/23	03/02/23	03/02/23	03/02/23
3-Nitroaniline	mg/kg	R	0.721 U	0.348 U	0.84 U	0.412 U
4,6-Dinitro-2-methylphenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
4-Bromophenyl-phenylether	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
4-Chloro-3-methylphenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
4-Chloroaniline	mg/kg	R	0.365 U	0.176 U	0.425 U	0.209 U
4-Chlorophenyl-phenylether	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
4-Nitroaniline	mg/kg	R	0.365 U	0.176 U	0.425 U	0.209 U
4-Nitrophenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Acenaphthene	mg/kg	0.148 U	0.146 U	0.0703 U	0.17 U	0.0833 U
Acenaphthylene	mg/kg	0.613	0.146 U	0.0703 U	0.17 U	0.0833 U
Acetophenone	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
Aniline	mg/kg	R	0.721 U	0.348 U	0.84 U	0.412 U
Anthracene	mg/kg	0.758 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Azobenzene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Benzidine	mg/kg	0.666 J	1.44 U	0.695 U	1.68 U	0.825 U
Benzo(a)anthracene	mg/kg	2.78 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Benzo(a)pyrene	mg/kg	1.67 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Benzo(b)fluoranthene	mg/kg	2.75 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Benzo(g,h,i)perylene	mg/kg	0.823	0.146 U	0.0703 U	0.17 U	0.0833 U
Benzo(k)fluoranthene	mg/kg	1.67 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Benzoic Acid	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-18	620-10080-19	620-10080-2	620-10080-20	620-10080-21
Field Sample ID		2023-SB-04-0810	2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
3-Nitroaniline	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
4,6-Dinitro-2-methylphenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
4-Bromophenyl-phenylether	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
4-Chloro-3-methylphenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
4-Chloroaniline	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
4-Chlorophenyl-phenylether	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
4-Nitroaniline	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
4-Nitrophenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Acenaphthene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Acenaphthylene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Acetophenone	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Aniline	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Anthracene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Azobenzene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Benzidine	mg/kg	0.865 U	1.62 U	0.749 UJ	1.42 U	0.795 U
Benzo(a)anthracene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Benzo(a)pyrene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Benzo(b)fluoranthene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Benzo(g,h,i)perylene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Benzo(k)fluoranthene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Benzoic Acid	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-22	620-10080-23	620-10080-24	620-10080-25	620-10080-26
Field Sample ID		2023-SB-03-0406	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
3-Nitroaniline	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
4,6-Dinitro-2-methylphenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
4-Bromophenyl-phenylether	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
4-Chloro-3-methylphenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
4-Chloroaniline	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
4-Chlorophenyl-phenylether	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
4-Nitroaniline	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
4-Nitrophenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Acenaphthene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Acenaphthylene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Acetophenone	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Aniline	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Anthracene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Azobenzene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Benzidine	mg/kg	0.766 U	0.818 U	0.81 U	0.795 U	1.38 UJ
Benzo(a)anthracene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Benzo(a)pyrene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Benzo(b)fluoranthene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Benzo(g,h,i)perylene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Benzo(k)fluoranthene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Benzoic Acid	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-27	620-10080-28	620-10080-29	620-10080-3	620-10080-30
Field Sample ID		2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/01/23	03/02/23
3-Nitroaniline	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
4,6-Dinitro-2-methylphenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
4-Bromophenyl-phenylether	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
4-Chloro-3-methylphenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
4-Chloroaniline	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
4-Chlorophenyl-phenylether	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
4-Nitroaniline	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
4-Nitrophenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Acenaphthene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.143 U	0.0853 U
Acenaphthylene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.112 J	0.0853 U
Acetophenone	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Aniline	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Anthracene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.151	0.0853 U
Azobenzene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Benzidine	mg/kg	0.7 UJ	0.78 UJ	0.869 UJ	1.42 UJ	0.844 UJ
Benzo(a)anthracene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.32	0.0853 U
Benzo(a)pyrene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.195	0.0853 U
Benzo(b)fluoranthene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.253	0.0853 U
Benzo(g,h,i)perylene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.158	0.0853 U
Benzo(k)fluoranthene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.221	0.0853 U
Benzoic Acid	mg/kg	0.35 UJ	0.39 UJ	0.435 UJ	0.708 U	0.422 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-31	620-10080-32	620-10080-4	620-10080-5	620-10080-6
Field Sample ID		2023-MW-04-1012	2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012
Sample Type		N	FD	N	N	N
Parent Sample ID			2023-SB-03-0406			
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/01/23	03/01/23
3-Nitroaniline	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
4,6-Dinitro-2-methylphenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
4-Bromophenyl-phenylether	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
4-Chloro-3-methylphenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
4-Chloroaniline	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
4-Chlorophenyl-phenylether	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
4-Nitroaniline	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
4-Nitrophenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Acenaphthene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Acenaphthylene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Acetophenone	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Aniline	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Anthracene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Azobenzene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Benzidine	mg/kg	0.793 UJ	0.75 U	0.71 UJ	0.677 UJ	0.903 UJ
Benzo(a)anthracene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Benzo(a)pyrene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Benzo(b)fluoranthene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Benzo(g,h,i)perylene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Benzo(k)fluoranthene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Benzoic Acid	mg/kg	0.396 UJ	0.375 UJ	0.355 U	0.338 U	0.452 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-14	620-10080-15	620-10080-16	620-10080-17
Field Sample ID		2023-MW-07-0002	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/02/23	03/02/23	03/02/23	03/02/23
Benzyl Alcohol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Bis(2-chloroethoxy)methane	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Bis(2-chloroethyl)ether	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
bis-(2-chloroisopropyl)ether	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
Bis(2-ethylhexyl)phthalate	mg/kg	4.12	0.365 U	0.176 U	0.268 J	0.209 U
Butylbenzylphthalate	mg/kg	0.11 J	0.721 U	0.348 U	0.84 U	0.412 U
Carbazole	mg/kg	0.276 J	0.365 U	0.176 U	0.425 U	0.209 U
Chrysene	mg/kg	3.08 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Dibenz(a,h)anthracene	mg/kg	0.561	0.146 U	0.0703 U	0.17 U	0.0833 U
Dibenzofuran	mg/kg	0.376	0.365 U	0.176 U	0.425 U	0.209 U
Diethylphthalate	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Dimethylphthalate	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Di-N-Butylphthalate	mg/kg	1.27	0.721 U	0.348 U	0.84 U	0.412 U
Di-N-Octyl Phthalate	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Fluoranthene	mg/kg	2.93 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Fluorene	mg/kg	0.148 U	0.146 U	0.0703 U	0.17 U	0.0833 U
Hexachlorobenzene	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
Hexachlorobutadiene	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
Hexachlorocyclopentadiene	mg/kg	0.371 UJ	0.365 U	0.176 U	0.425 U	0.209 U
Hexachloroethane	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.942	0.146 U	0.0703 U	0.17 U	0.0833 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-18	620-10080-19	620-10080-2	620-10080-20	620-10080-21
Field Sample ID		2023-SB-04-0810	2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
Benzyl Alcohol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Bis(2-chloroethoxy)methane	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Bis(2-chloroethyl)ether	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
bis-(2-chloroisopropyl)ether	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Butylbenzylphthalate	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Carbazole	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Chrysene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Dibenz(a,h)anthracene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Dibenzofuran	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Diethylphthalate	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Dimethylphthalate	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Di-N-Butylphthalate	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Di-N-Octyl Phthalate	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Fluoranthene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Fluorene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Hexachlorobenzene	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Hexachlorobutadiene	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Hexachlorocyclopentadiene	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Hexachloroethane	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-22	620-10080-23	620-10080-24	620-10080-25	620-10080-26
Field Sample ID		2023-SB-03-0406	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Benzyl Alcohol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Bis(2-chloroethoxy)methane	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Bis(2-chloroethyl)ether	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
bis-(2-chloroisopropyl)ether	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Butylbenzylphthalate	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Carbazole	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Chrysene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Dibenz(a,h)anthracene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Dibenzofuran	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Diethylphthalate	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Dimethylphthalate	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Di-N-Butylphthalate	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Di-N-Octyl Phthalate	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Fluoranthene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Fluorene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Hexachlorobenzene	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Hexachlorobutadiene	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Hexachlorocyclopentadiene	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Hexachloroethane	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-27	620-10080-28	620-10080-29	620-10080-3	620-10080-30
Field Sample ID		2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/01/23	03/02/23
Benzyl Alcohol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Bis(2-chloroethoxy)methane	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Bis(2-chloroethyl)ether	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
bis-(2-chloroisopropyl)ether	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.177 U	0.197 U	0.22 U	0.78	0.214 U
Butylbenzylphthalate	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Carbazole	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Chrysene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.333	0.0853 U
Dibenz(a,h)anthracene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.143 U	0.0853 U
Dibenzofuran	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Diethylphthalate	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Dimethylphthalate	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Di-N-Butylphthalate	mg/kg	0.35 U	0.39 U	0.435 U	0.1 J	0.422 U
Di-N-Octyl Phthalate	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Fluoranthene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.314	0.0853 U
Fluorene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.143 U	0.0853 U
Hexachlorobenzene	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Hexachlorobutadiene	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Hexachlorocyclopentadiene	mg/kg	0.177 U	0.197 UJ	0.22 U	0.358 U	0.214 U
Hexachloroethane	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.146	0.0853 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-31	620-10080-32	620-10080-4	620-10080-5	620-10080-6
Field Sample ID		2023-MW-04-1012	2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012
Sample Type		N	FD	N	N	N
Parent Sample ID			2023-SB-03-0406			
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/01/23	03/01/23
Benzyl Alcohol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Bis(2-chloroethoxy)methane	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Bis(2-chloroethyl)ether	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
bis-(2-chloroisopropyl)ether	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Butylbenzylphthalate	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Carbazole	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Chrysene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Dibenz(a,h)anthracene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Dibenzofuran	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Diethylphthalate	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Dimethylphthalate	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Di-N-Butylphthalate	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Di-N-Octyl Phthalate	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Fluoranthene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Fluorene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Hexachlorobenzene	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Hexachlorobutadiene	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Hexachlorocyclopentadiene	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Hexachloroethane	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-14	620-10080-15	620-10080-16	620-10080-17
Field Sample ID		2023-MW-07-0002	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/02/23	03/02/23	03/02/23	03/02/23
Isophorone	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
Naphthalene	mg/kg	0.835	0.146 U	0.0703 U	0.17 U	0.0833 U
Naphthalene, 1-methyl-	mg/kg	0.158	0.146 U	0.0703 U	0.17 U	0.0833 U
Nitrobenzene	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.371 U	0.365 U	0.176 U	0.425 U	0.209 U
N-Nitrosodiphenylamine	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Pentachloronitrobenzene	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Pentachlorophenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Phenanthrene	mg/kg	1.18 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Phenol	mg/kg	0.734 U	0.721 U	0.348 U	0.84 U	0.412 U
Pyrene	mg/kg	2.32 J	0.146 U	0.0703 U	0.17 U	0.0833 U
Pyridine	mg/kg	0.734 UJ	0.721 U	0.348 U	0.84 U	0.412 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-18	620-10080-19	620-10080-2	620-10080-20	620-10080-21
Field Sample ID		2023-SB-04-0810	2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
Isophorone	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
Naphthalene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Naphthalene, 1-methyl-	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Nitrobenzene	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.219 U	0.409 U	0.189 U	0.36 U	0.201 U
N-Nitrosodiphenylamine	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Pentachloronitrobenzene	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Pentachlorophenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Phenanthrene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Phenol	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U
Pyrene	mg/kg	0.0874 U	0.163 U	0.0757 U	0.144 U	0.0804 U
Pyridine	mg/kg	0.432 U	0.808 U	0.374 U	0.711 U	0.398 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-22	620-10080-23	620-10080-24	620-10080-25	620-10080-26
Field Sample ID		2023-SB-03-0406	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Isophorone	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
Naphthalene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Naphthalene, 1-methyl-	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Nitrobenzene	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.194 U	0.207 U	0.205 U	0.201 U	0.35 U
N-Nitrosodiphenylamine	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Pentachloronitrobenzene	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Pentachlorophenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Phenanthrene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.14 U
Phenol	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U
Pyrene	mg/kg	0.0774 U	0.0827 U	0.0818 U	0.0803 U	0.0807 J
Pyridine	mg/kg	0.383 U	0.409 U	0.405 U	0.397 U	0.692 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-27	620-10080-28	620-10080-29	620-10080-3	620-10080-30
Field Sample ID		2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/01/23	03/02/23
Isophorone	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
Naphthalene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.143 U	0.0853 U
Naphthalene, 1-methyl-	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.143 U	0.0853 U
Nitrobenzene	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.177 U	0.197 U	0.22 U	0.358 U	0.214 U
N-Nitrosodiphenylamine	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Pentachloronitrobenzene	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Pentachlorophenol	mg/kg	0.35 U	0.39 U	0.222 J	0.708 U	0.422 U
Phenanthrene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.133 J	0.0853 U
Phenol	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U
Pyrene	mg/kg	0.0707 U	0.0788 U	0.0878 U	0.276	0.0853 U
Pyridine	mg/kg	0.35 U	0.39 U	0.435 U	0.708 U	0.422 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10080-31	620-10080-32	620-10080-4	620-10080-5	620-10080-6
Field Sample ID		2023-MW-04-1012	2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012
Sample Type		N	FD	N	N	N
Parent Sample ID			2023-SB-03-0406			
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/01/23	03/01/23
Isophorone	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
Naphthalene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Naphthalene, 1-methyl-	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Nitrobenzene	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.201 U	0.19 U	0.18 U	0.171 U	0.229 U
N-Nitrosodiphenylamine	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Pentachloronitrobenzene	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Pentachlorophenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Phenanthrene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Phenol	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U
Pyrene	mg/kg	0.0801 U	0.0758 U	0.0717 U	0.0684 U	0.0913 U
Pyridine	mg/kg	0.396 U	0.375 U	0.355 U	0.338 U	0.452 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-10	620-10080-11	620-10080-12	620-10080-13
Field Sample ID		2023-MW-07-0002	2023-SS-03	2023-SS-02	2023-SS-01	2023-FD-02
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SS-05
Sample Date	**Units**	03/01/23	02/27/23	02/27/23	02/27/23	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,1,1-Trichloroethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,1,2-Trichloroethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,1-Dichloroethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,1-Dichloroethene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,1-Dichloropropene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2,3-Trichlorobenzene	mg/kg	0.00722 UJ	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2,3-Trichloropropane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2,4-Trichlorobenzene	mg/kg	0.00722 UJ	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2,4-Trimethylbenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0144 U	0.123 U	0.107 U	0.132 U	0.111 U
1,2-Dibromoethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2-Dichlorobenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2-Dichloroethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,2-Dichloropropane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,3,5-Trichlorobenzene	mg/kg	0.00722 UJ	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,3,5-Trimethylbenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,3-Dichlorobenzene	mg/kg	0.00722 UJ	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,3-Dichloropropane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-14	620-10080-15	620-10080-16	620-10080-17	620-10080-18
Field Sample ID		2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,1,1-Trichloroethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,1,2-Trichloroethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,1-Dichloroethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,1-Dichloroethene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,1-Dichloropropene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2,3-Trichlorobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2,3-Trichloropropane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2,4-Trichlorobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2,4-Trimethylbenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2-Dibromo-3-chloropropane	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
1,2-Dibromoethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2-Dichlorobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2-Dichloroethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,2-Dichloropropane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,3,5-Trichlorobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,3,5-Trimethylbenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,3-Dichlorobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,3-Dichloropropane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-19	620-10080-2	620-10080-20	620-10080-21	620-10080-22
Field Sample ID		2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/01/23	03/02/23	03/02/23	03/02/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,1,1-Trichloroethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,1,2-Trichloroethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,1-Dichloroethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,1-Dichloroethene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,1-Dichloropropene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2,3-Trichlorobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2,3-Trichloropropane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2,4-Trichlorobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2,4-Trimethylbenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
1,2-Dibromoethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2-Dichlorobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2-Dichloroethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,2-Dichloropropane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,3,5-Trichlorobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,3,5-Trimethylbenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,3-Dichlorobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,3-Dichloropropane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-23	620-10080-24	620-10080-25	620-10080-26	620-10080-27
Field Sample ID		2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002	2023-MW-04-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,1,1-Trichloroethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,1,2-Trichloroethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,1-Dichloroethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,1-Dichloroethene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,1-Dichloropropene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2,3-Trichlorobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2,3-Trichloropropane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2,4-Trichlorobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2,4-Trimethylbenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2-Dibromo-3-chloropropane	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
1,2-Dibromoethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2-Dichlorobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2-Dichloroethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,2-Dichloropropane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,3,5-Trichlorobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,3,5-Trimethylbenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,3-Dichlorobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,3-Dichloropropane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-28	620-10080-29	620-10080-3	620-10080-30	620-10080-31
Field Sample ID		2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810	2023-MW-04-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,1,1-Trichloroethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,1,2-Trichloroethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,1-Dichloroethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,1-Dichloroethene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,1-Dichloropropene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,2,3-Trichlorobenzene	mg/kg	0.00587 U	0.00593 U	0.00521 J	0.00475 U	0.00556 U
1,2,3-Trichloropropane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,2,4-Trichlorobenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,2,4-Trimethylbenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
1,2-Dibromoethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,2-Dichlorobenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,2-Dichloroethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,2-Dichloropropane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,3,5-Trichlorobenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,3,5-Trimethylbenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,3-Dichlorobenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,3-Dichloropropane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-32	620-10080-4	620-10080-5	620-10080-6	620-10080-7
Field Sample ID		2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-SS-06
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-03-0406				
Sample Date	**Units**	03/02/23	03/01/23	03/01/23	03/01/23	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,1,1-Trichloroethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,1,2-Trichloroethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,1-Dichloroethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,1-Dichloroethene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,1-Dichloropropene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2,3-Trichlorobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2,3-Trichloropropane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2,4-Trichlorobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2,4-Trimethylbenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 U
1,2-Dibromoethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2-Dichlorobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2-Dichloroethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,2-Dichloropropane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,3,5-Trichlorobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,3,5-Trimethylbenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,3-Dichlorobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,3-Dichloropropane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil	
Lab Sample ID		620-10080-8	620-10080-9
Field Sample ID		2023-SS-05	2023-SS-04
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	02/27/23	02/27/23
1,1,1,2-Tetrachloroethane	mg/kg	0.0552 U	0.0641 U
1,1,1-Trichloroethane	mg/kg	0.0552 U	0.0641 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0552 U	0.0641 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0552 U	0.0641 U
1,1,2-Trichloroethane	mg/kg	0.0552 U	0.0641 U
1,1-Dichloroethane	mg/kg	0.0552 U	0.0641 U
1,1-Dichloroethene	mg/kg	0.0552 U	0.0641 U
1,1-Dichloropropene	mg/kg	0.0552 U	0.0641 U
1,2,3-Trichlorobenzene	mg/kg	0.0552 U	0.0641 U
1,2,3-Trichloropropane	mg/kg	0.0552 U	0.0641 U
1,2,4-Trichlorobenzene	mg/kg	0.0552 U	0.0641 U
1,2,4-Trimethylbenzene	mg/kg	0.0552 U	0.049 J
1,2-Dibromo-3-chloropropane	mg/kg	0.11 U	0.128 U
1,2-Dibromoethane	mg/kg	0.0552 U	0.0641 U
1,2-Dichlorobenzene	mg/kg	0.0552 U	0.0641 U
1,2-Dichloroethane	mg/kg	0.0552 U	0.0641 U
1,2-Dichloropropane	mg/kg	0.0552 U	0.0641 U
1,3,5-Trichlorobenzene	mg/kg	0.0552 U	0.0641 U
1,3,5-Trimethylbenzene	mg/kg	0.0552 U	0.0641 U
1,3-Dichlorobenzene	mg/kg	0.0552 U	0.0641 U
1,3-Dichloropropane	mg/kg	0.0552 U	0.0641 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-10	620-10080-11	620-10080-12	620-10080-13
Field Sample ID		2023-MW-07-0002	2023-SS-03	2023-SS-02	2023-SS-01	2023-FD-02
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SS-05
Sample Date	**Units**	03/01/23	02/27/23	02/27/23	02/27/23	02/27/23
1,3-Dichloropropene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,4-Dichlorobenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
1,4-Dioxane	mg/kg	0.144 U	1.23 U	1.07 U	1.32 U	1.11 U
2,2-Dichloropropane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
2-Butanone	mg/kg	0.0144 U	0.0947 J	0.107 U	0.132 U	0.111 U
2-Chlorotoluene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
2-Hexanone	mg/kg	0.0144 UJ	0.123 U	0.107 U	0.132 U	0.111 U
4-Chlorotoluene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
4-Isopropyltoluene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
4-Methyl-2-pentanone	mg/kg	0.0144 U	0.123 U	0.107 U	0.132 U	0.111 U
Acetone	mg/kg	0.0722 UJ	0.617 UJ	0.536 UJ	0.659 UJ	0.553 UJ
Acrylonitrile	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Benzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Bromobenzene	mg/kg	0.00722 UJ	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Bromochloromethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Bromodichloromethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Bromoform	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Bromomethane	mg/kg	0.0144 U	0.123 UJ	0.107 UJ	0.132 UJ	0.111 UJ
Carbon disulfide	mg/kg	0.0144 U	0.123 U	0.107 U	0.132 U	0.111 U
Carbon tetrachloride	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Chlorobenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-14	620-10080-15	620-10080-16	620-10080-17	620-10080-18
Field Sample ID		2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
1,3-Dichloropropene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,4-Dichlorobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
1,4-Dioxane	mg/kg	0.11 U	0.0923 U	0.105 U	0.105 U	0.117 U
2,2-Dichloropropane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
2-Butanone	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
2-Chlorotoluene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
2-Hexanone	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
4-Chlorotoluene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
4-Isopropyltoluene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
4-Methyl-2-pentanone	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Acetone	mg/kg	0.0552 U	0.0461 U	0.0525 U	0.0523 U	0.0586 U
Acrylonitrile	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Benzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Bromobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Bromochloromethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Bromodichloromethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Bromoform	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Bromomethane	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Carbon disulfide	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Carbon tetrachloride	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Chlorobenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-19	620-10080-2	620-10080-20	620-10080-21	620-10080-22
Field Sample ID		2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/01/23	03/02/23	03/02/23	03/02/23
1,3-Dichloropropene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,4-Dichlorobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
1,4-Dioxane	mg/kg	0.102 U	0.11 U	0.0956 U	0.117 U	0.106 U
2,2-Dichloropropane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
2-Butanone	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
2-Chlorotoluene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
2-Hexanone	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
4-Chlorotoluene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
4-Isopropyltoluene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
4-Methyl-2-pentanone	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Acetone	mg/kg	0.0512 U	0.0551 U	0.0478 U	0.0583 U	0.0531 U
Acrylonitrile	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Benzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Bromobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Bromochloromethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Bromodichloromethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Bromoform	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Bromomethane	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Carbon disulfide	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Carbon tetrachloride	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Chlorobenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-23	620-10080-24	620-10080-25	620-10080-26	620-10080-27
Field Sample ID		2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002	2023-MW-04-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
1,3-Dichloropropene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,4-Dichlorobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
1,4-Dioxane	mg/kg	0.0964 U	0.0917 U	0.105 U	0.104 U	0.0957 U
2,2-Dichloropropane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
2-Butanone	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
2-Chlorotoluene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
2-Hexanone	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
4-Chlorotoluene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
4-Isopropyltoluene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
4-Methyl-2-pentanone	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Acetone	mg/kg	0.0482 U	0.0458 U	0.0526 U	0.0522 U	0.0479 U
Acrylonitrile	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Benzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Bromobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Bromochloromethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Bromodichloromethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Bromoform	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Bromomethane	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Carbon disulfide	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Carbon tetrachloride	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Chlorobenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-28	620-10080-29	620-10080-3	620-10080-30	620-10080-31
Field Sample ID		2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810	2023-MW-04-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
1,3-Dichloropropene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,4-Dichlorobenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
1,4-Dioxane	mg/kg	0.117 U	0.119 U	0.112 U	0.0951 U	0.111 U
2,2-Dichloropropane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
2-Butanone	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
2-Chlorotoluene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
2-Hexanone	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
4-Chlorotoluene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
4-Isopropyltoluene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
4-Methyl-2-pentanone	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Acetone	mg/kg	0.0587 U	0.0593 U	0.0561 U	0.0475 U	0.0556 U
Acrylonitrile	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Benzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Bromobenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Bromochloromethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Bromodichloromethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Bromoform	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Bromomethane	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Carbon disulfide	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Carbon tetrachloride	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Chlorobenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-32	620-10080-4	620-10080-5	620-10080-6	620-10080-7
Field Sample ID		2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-SS-06
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-03-0406				
Sample Date	**Units**	03/02/23	03/01/23	03/01/23	03/01/23	02/27/23
1,3-Dichloropropene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,4-Dichlorobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
1,4-Dioxane	mg/kg	0.104 U	0.114 U	0.115 U	0.106 U	1.19 U
2,2-Dichloropropane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
2-Butanone	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.0894 J
2-Chlorotoluene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
2-Hexanone	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 U
4-Chlorotoluene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
4-Isopropyltoluene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
4-Methyl-2-pentanone	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 U
Acetone	mg/kg	0.0521 U	0.0568 U	0.0577 U	0.053 U	0.594 UJ
Acrylonitrile	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Benzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Bromobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Bromochloromethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Bromodichloromethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Bromoform	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Bromomethane	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 UJ
Carbon disulfide	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 U
Carbon tetrachloride	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Chlorobenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil	
Lab Sample ID		620-10080-8	620-10080-9
Field Sample ID		2023-SS-05	2023-SS-04
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	02/27/23	02/27/23
1,3-Dichloropropene	mg/kg	0.0552 U	0.0641 U
1,4-Dichlorobenzene	mg/kg	0.0552 U	0.0641 U
1,4-Dioxane	mg/kg	1.1 U	1.28 U
2,2-Dichloropropane	mg/kg	0.0552 U	0.0641 U
2-Butanone	mg/kg	0.11 U	0.128 U
2-Chlorotoluene	mg/kg	0.0552 U	0.0641 U
2-Hexanone	mg/kg	0.11 U	0.128 U
4-Chlorotoluene	mg/kg	0.0552 U	0.0641 U
4-Isopropyltoluene	mg/kg	0.0826	0.0641 U
4-Methyl-2-pentanone	mg/kg	0.11 U	0.128 U
Acetone	mg/kg	0.552 UJ	0.641 UJ
Acrylonitrile	mg/kg	0.0552 U	0.0641 U
Benzene	mg/kg	0.0552 U	0.0641 U
Bromobenzene	mg/kg	0.0552 U	0.0641 U
Bromochloromethane	mg/kg	0.0552 U	0.0641 U
Bromodichloromethane	mg/kg	0.0552 U	0.0641 U
Bromoform	mg/kg	0.0552 U	0.0641 U
Bromomethane	mg/kg	0.11 UJ	0.128 UJ
Carbon disulfide	mg/kg	0.11 U	0.128 U
Carbon tetrachloride	mg/kg	0.0552 U	0.0641 U
Chlorobenzene	mg/kg	0.0552 U	0.0641 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-10	620-10080-11	620-10080-12	620-10080-13
Field Sample ID		2023-MW-07-0002	2023-SS-03	2023-SS-02	2023-SS-01	2023-FD-02
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SS-05
Sample Date	**Units**	03/01/23	02/27/23	02/27/23	02/27/23	02/27/23
Chloroethane	mg/kg	0.0144 U	0.123 UJ	0.107 UJ	0.132 UJ	0.111 UJ
Chloroform	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.00961 J	0.0553 U
Chloromethane	mg/kg	0.0144 U	0.123 U	0.107 U	0.132 U	0.111 U
cis-1,2-Dichloroethene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
cis-1,3-Dichloropropene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Dibromochloromethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Dibromomethane	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Dichlorodifluoromethane	mg/kg	0.0144 U	0.123 UJ	0.107 UJ	0.132 UJ	0.111 UJ
Diethyl ether	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Diisopropyl Ether	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Ethanol	mg/kg	1.44 U	12.3 UJ	10.7 UJ	13.2 UJ	11.1 UJ
Ethylbenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Hexachlorobutadiene	mg/kg	0.0144 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Isopropylbenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
m,p-Xylene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Methyl tert-butyl ether	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Methylene chloride	mg/kg	0.0144 U	0.123 U	0.107 U	0.132 U	0.111 U
Naphthalene	mg/kg	0.00722 UJ	0.0617 U	0.0536 U	0.0659 U	0.0553 U
n-Butylbenzene	mg/kg	0.0144 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
n-Propylbenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0463 J
o-Xylene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-14	620-10080-15	620-10080-16	620-10080-17	620-10080-18
Field Sample ID		2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Chloroethane	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Chloroform	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Chloromethane	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
cis-1,2-Dichloroethene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
cis-1,3-Dichloropropene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Dibromochloromethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Dibromomethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Dichlorodifluoromethane	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Diethyl ether	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Diisopropyl Ether	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Ethanol	mg/kg	1.1 U	0.923 U	1.05 U	1.05 U	1.17 U
Ethylbenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Hexachlorobutadiene	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Isopropylbenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
m,p-Xylene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Methyl tert-butyl ether	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Methylene chloride	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Naphthalene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
n-Butylbenzene	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
n-Propylbenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
o-Xylene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-19	620-10080-2	620-10080-20	620-10080-21	620-10080-22
Field Sample ID		2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/01/23	03/02/23	03/02/23	03/02/23
Chloroethane	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Chloroform	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Chloromethane	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
cis-1,2-Dichloroethene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
cis-1,3-Dichloropropene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Dibromochloromethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Dibromomethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Dichlorodifluoromethane	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Diethyl ether	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Diisopropyl Ether	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Ethanol	mg/kg	1.02 U	1.1 U	0.956 U	1.17 U	1.06 U
Ethylbenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Hexachlorobutadiene	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Isopropylbenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
m,p-Xylene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Methyl tert-butyl ether	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Methylene chloride	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Naphthalene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
n-Butylbenzene	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
n-Propylbenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
o-Xylene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-23	620-10080-24	620-10080-25	620-10080-26	620-10080-27
Field Sample ID		2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002	2023-MW-04-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Chloroethane	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Chloroform	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Chloromethane	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
cis-1,2-Dichloroethene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
cis-1,3-Dichloropropene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Dibromochloromethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Dibromomethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Dichlorodifluoromethane	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Diethyl ether	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Diisopropyl Ether	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Ethanol	mg/kg	0.964 U	0.917 U	1.05 U	1.04 U	0.957 U
Ethylbenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Hexachlorobutadiene	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Isopropylbenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
m,p-Xylene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Methyl tert-butyl ether	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Methylene chloride	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Naphthalene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
n-Butylbenzene	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
n-Propylbenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
o-Xylene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-28	620-10080-29	620-10080-3	620-10080-30	620-10080-31
Field Sample ID		2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810	2023-MW-04-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
Chloroethane	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Chloroform	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Chloromethane	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
cis-1,2-Dichloroethene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
cis-1,3-Dichloropropene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Dibromochloromethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Dibromomethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Dichlorodifluoromethane	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Diethyl ether	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Diisopropyl Ether	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Ethanol	mg/kg	1.17 U	1.19 U	1.12 U	0.951 U	1.11 U
Ethylbenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Hexachlorobutadiene	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Isopropylbenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
m,p-Xylene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Methyl tert-butyl ether	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Methylene chloride	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Naphthalene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
n-Butylbenzene	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
n-Propylbenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
o-Xylene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-32	620-10080-4	620-10080-5	620-10080-6	620-10080-7
Field Sample ID		2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-SS-06
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-03-0406				
Sample Date	**Units**	03/02/23	03/01/23	03/01/23	03/01/23	02/27/23
Chloroethane	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 UJ
Chloroform	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Chloromethane	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 U
cis-1,2-Dichloroethene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
cis-1,3-Dichloropropene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Dibromochloromethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Dibromomethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Dichlorodifluoromethane	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 UJ
Diethyl ether	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Diisopropyl Ether	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Ethanol	mg/kg	1.04 U	1.14 U	1.15 U	1.06 U	11.9 UJ
Ethylbenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Hexachlorobutadiene	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.0594 U
Isopropylbenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
m,p-Xylene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Methyl tert-butyl ether	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Methylene chloride	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 U
Naphthalene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
n-Butylbenzene	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.0594 U
n-Propylbenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
o-Xylene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil	
Lab Sample ID		620-10080-8	620-10080-9
Field Sample ID		2023-SS-05	2023-SS-04
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	02/27/23	02/27/23
Chloroethane	mg/kg	0.11 UJ	0.128 UJ
Chloroform	mg/kg	0.0552 U	0.0641 U
Chloromethane	mg/kg	0.11 U	0.128 U
cis-1,2-Dichloroethene	mg/kg	0.0552 U	0.0641 U
cis-1,3-Dichloropropene	mg/kg	0.0552 U	0.0641 U
Dibromochloromethane	mg/kg	0.0552 U	0.0641 U
Dibromomethane	mg/kg	0.0552 U	0.0641 U
Dichlorodifluoromethane	mg/kg	0.11 UJ	0.128 UJ
Diethyl ether	mg/kg	0.0552 U	0.0641 U
Diisopropyl Ether	mg/kg	0.0552 U	0.0641 U
Ethanol	mg/kg	11 UJ	12.8 UJ
Ethylbenzene	mg/kg	0.0552 U	0.0641 U
Hexachlorobutadiene	mg/kg	0.0552 U	0.0641 U
Isopropylbenzene	mg/kg	0.0552 U	0.0641 U
m,p-Xylene	mg/kg	0.0552 U	0.0641 U
Methyl tert-butyl ether	mg/kg	0.0552 U	0.0641 U
Methylene chloride	mg/kg	0.11 U	0.128 U
Naphthalene	mg/kg	0.0552 U	0.0641 U
n-Butylbenzene	mg/kg	0.0552 U	0.0641 U
n-Propylbenzene	mg/kg	0.0552 U	0.0641 U
o-Xylene	mg/kg	0.0552 U	0.0641 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-1	620-10080-10	620-10080-11	620-10080-12	620-10080-13
Field Sample ID		2023-MW-07-0002	2023-SS-03	2023-SS-02	2023-SS-01	2023-FD-02
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-SS-05
Sample Date	**Units**	03/01/23	02/27/23	02/27/23	02/27/23	02/27/23
sec-Butylbenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Styrene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
tert-Amyl methyl ether	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
tert-Butyl Alcohol	mg/kg	0.144 U	1.23 U	1.07 U	1.32 U	1.11 U
Tert-Butyl Ethyl Ether	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
tert-Butylbenzene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Tetrachloroethene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Tetrahydrofuran	mg/kg	0.0144 U	0.123 U	0.107 U	0.132 U	0.111 U
Toluene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
trans-1,2-Dichloroethene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
trans-1,3-Dichloropropene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
trans-1,4-Dichlorobutene	mg/kg	0.0361 UJ	0.309 U	0.268 U	0.33 U	0.277 U
Trichloroethene	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Trichlorofluoromethane	mg/kg	0.00722 U	0.0617 UJ	0.0536 UJ	0.0659 UJ	0.0553 UJ
Vinyl chloride	mg/kg	0.00722 U	0.0617 U	0.0536 U	0.0659 U	0.0553 U
Xylene (total)	mg/kg	0.0217 U	0.185 U	0.161 U	0.198 U	0.166 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-14	620-10080-15	620-10080-16	620-10080-17	620-10080-18
Field Sample ID		2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
sec-Butylbenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Styrene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
tert-Amyl methyl ether	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
tert-Butyl Alcohol	mg/kg	0.11 U	0.0923 U	0.105 U	0.105 U	0.117 U
Tert-Butyl Ethyl Ether	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
tert-Butylbenzene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Tetrachloroethene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Tetrahydrofuran	mg/kg	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U
Toluene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
trans-1,2-Dichloroethene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
trans-1,3-Dichloropropene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
trans-1,4-Dichlorobutene	mg/kg	0.0276 U	0.0231 U	0.0262 U	0.0261 U	0.0293 U
Trichloroethene	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Trichlorofluoromethane	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Vinyl chloride	mg/kg	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U
Xylene (total)	mg/kg	0.0166 U	0.0138 U	0.0157 U	0.0157 U	0.0176 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-19	620-10080-2	620-10080-20	620-10080-21	620-10080-22
Field Sample ID		2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/01/23	03/02/23	03/02/23	03/02/23
sec-Butylbenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Styrene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
tert-Amyl methyl ether	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
tert-Butyl Alcohol	mg/kg	0.102 U	0.11 U	0.0956 U	0.117 U	0.106 U
Tert-Butyl Ethyl Ether	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
tert-Butylbenzene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Tetrachloroethene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Tetrahydrofuran	mg/kg	0.0102 U	0.011 U	0.00956 U	0.0117 U	0.0106 U
Toluene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
trans-1,2-Dichloroethene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
trans-1,3-Dichloropropene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
trans-1,4-Dichlorobutene	mg/kg	0.0256 U	0.0276 U	0.0239 U	0.0291 U	0.0265 U
Trichloroethene	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Trichlorofluoromethane	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Vinyl chloride	mg/kg	0.00512 U	0.00551 U	0.00478 U	0.00583 U	0.00531 U
Xylene (total)	mg/kg	0.0154 U	0.0165 U	0.0143 U	0.0175 U	0.0159 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-23	620-10080-24	620-10080-25	620-10080-26	620-10080-27
Field Sample ID		2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002	2023-MW-04-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
sec-Butylbenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Styrene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
tert-Amyl methyl ether	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
tert-Butyl Alcohol	mg/kg	0.0964 U	0.0917 U	0.105 U	0.104 U	0.0957 U
Tert-Butyl Ethyl Ether	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
tert-Butylbenzene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Tetrachloroethene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Tetrahydrofuran	mg/kg	0.00964 U	0.00917 U	0.0105 U	0.0104 U	0.00957 U
Toluene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
trans-1,2-Dichloroethene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
trans-1,3-Dichloropropene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
trans-1,4-Dichlorobutene	mg/kg	0.0241 U	0.0229 U	0.0263 U	0.0261 U	0.0239 U
Trichloroethene	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Trichlorofluoromethane	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Vinyl chloride	mg/kg	0.00482 U	0.00458 U	0.00526 U	0.00522 U	0.00479 U
Xylene (total)	mg/kg	0.0145 U	0.0137 U	0.0158 U	0.0157 U	0.0144 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-28	620-10080-29	620-10080-3	620-10080-30	620-10080-31
Field Sample ID		2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810	2023-MW-04-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
sec-Butylbenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Styrene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
tert-Amyl methyl ether	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
tert-Butyl Alcohol	mg/kg	0.117 U	0.119 U	0.112 U	0.0951 U	0.111 U
Tert-Butyl Ethyl Ether	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
tert-Butylbenzene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Tetrachloroethene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Tetrahydrofuran	mg/kg	0.0117 U	0.0119 U	0.0112 U	0.00951 U	0.0111 U
Toluene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
trans-1,2-Dichloroethene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
trans-1,3-Dichloropropene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
trans-1,4-Dichlorobutene	mg/kg	0.0294 U	0.0296 U	0.0281 U	0.0238 U	0.0278 U
Trichloroethene	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Trichlorofluoromethane	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Vinyl chloride	mg/kg	0.00587 U	0.00593 U	0.00561 U	0.00475 U	0.00556 U
Xylene (total)	mg/kg	0.0176 U	0.0178 U	0.0168 U	0.0143 U	0.0167 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10080-32	620-10080-4	620-10080-5	620-10080-6	620-10080-7
Field Sample ID		2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-SS-06
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-03-0406				
Sample Date	**Units**	03/02/23	03/01/23	03/01/23	03/01/23	02/27/23
sec-Butylbenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Styrene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
tert-Amyl methyl ether	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
tert-Butyl Alcohol	mg/kg	0.104 U	0.114 U	0.115 U	0.106 U	1.19 U
Tert-Butyl Ethyl Ether	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
tert-Butylbenzene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Tetrachloroethene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Tetrahydrofuran	mg/kg	0.0104 U	0.0114 U	0.0115 U	0.0106 U	0.119 U
Toluene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
trans-1,2-Dichloroethene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
trans-1,3-Dichloropropene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
trans-1,4-Dichlorobutene	mg/kg	0.0261 U	0.0284 U	0.0288 U	0.0265 U	0.297 U
Trichloroethene	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Trichlorofluoromethane	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 UJ
Vinyl chloride	mg/kg	0.00521 U	0.00568 U	0.00577 U	0.0053 U	0.0594 U
Xylene (total)	mg/kg	0.0156 U	0.0171 U	0.0173 U	0.0159 U	0.178 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil	
Lab Sample ID		620-10080-8	620-10080-9
Field Sample ID		2023-SS-05	2023-SS-04
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	02/27/23	02/27/23
sec-Butylbenzene	mg/kg	0.0552 U	0.0641 U
Styrene	mg/kg	0.0552 U	0.0641 U
tert-Amyl methyl ether	mg/kg	0.0552 U	0.0641 U
tert-Butyl Alcohol	mg/kg	1.1 U	1.28 U
Tert-Butyl Ethyl Ether	mg/kg	0.0552 U	0.0641 U
tert-Butylbenzene	mg/kg	0.0552 U	0.0641 U
Tetrachloroethene	mg/kg	0.0552 U	0.0641 U
Tetrahydrofuran	mg/kg	0.11 U	0.128 U
Toluene	mg/kg	0.0552 U	0.0641 U
trans-1,2-Dichloroethene	mg/kg	0.0552 U	0.0641 U
trans-1,3-Dichloropropene	mg/kg	0.0552 U	0.0641 U
trans-1,4-Dichlorobutene	mg/kg	0.276 U	0.32 U
Trichloroethene	mg/kg	0.0552 U	0.0641 U
Trichlorofluoromethane	mg/kg	0.0552 UJ	0.0641 UJ
Vinyl chloride	mg/kg	0.0552 U	0.0641 U
Xylene (total)	mg/kg	0.166 U	0.192 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10080-1	620-10080-14	620-10080-15	620-10080-16	620-10080-17
Field Sample ID		2023-MW-07-0002	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/01/23	03/02/23	03/02/23	03/02/23	03/02/23
Benzene	mg/kg	0.0625 U	0.05 U	0.0497 U	0.0551 U	0.0579 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.667	0.25 U	0.248 U	0.276 U	0.289 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.692	0.25 U	0.248 U	0.276 U	0.289 U
C9-C10 Aromatics	mg/kg	0.0762 J	0.25 U	0.248 U	0.276 U	0.289 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.205 J	0.25 U	0.248 U	0.276 U	0.289 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.281 J	0.25 U	0.248 U	0.276 U	0.289 U
Ethylbenzene	mg/kg	0.0625 U	0.05 U	0.0497 U	0.0551 U	0.0579 U
m,p-Xylene	mg/kg	0.125 U	0.1 U	0.0993 U	0.11 U	0.116 U
Methyl tert-butyl ether	mg/kg	0.0625 U	0.05 U	0.0497 U	0.0551 U	0.0579 U
Naphthalene	mg/kg	0.248 U	0.05 U	0.0497 U	0.0551 U	0.0579 U
o-Xylene	mg/kg	0.0625 U	0.05 U	0.0497 U	0.0551 U	0.0579 U
Toluene	mg/kg	0.025 J	0.05 U	0.0497 U	0.0551 U	0.0579 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10080-18	620-10080-19	620-10080-2	620-10080-20	620-10080-21
Field Sample ID		2023-SB-04-0810	2023-SB-04-1012	2023-MW-07-0204	2023-SB-03-0002	2023-SB-03-0204
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/02/23	03/02/23
Benzene	mg/kg	0.056 U	0.0518 U	0.0542 U	0.0494 U	0.0838 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.28 U	0.259 U	0.271 U	0.247 U	0.419 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.28 U	0.259 U	0.271 U	0.247 U	0.419 U
C9-C10 Aromatics	mg/kg	0.28 U	0.259 U	0.271 U	0.168 J	0.419 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.28 U	0.259 U	0.271 U	0.238 J	0.419 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.28 U	0.259 U	0.271 U	0.406	0.419 U
Ethylbenzene	mg/kg	0.056 U	0.0518 U	0.0542 U	0.0494 U	0.0838 U
m,p-Xylene	mg/kg	0.112 U	0.104 U	0.108 U	0.0988 U	0.168 U
Methyl tert-butyl ether	mg/kg	0.056 U	0.0518 U	0.0542 U	0.0494 U	0.0838 U
Naphthalene	mg/kg	0.056 U	0.0518 U	0.0542 U	0.0494 U	0.0838 U
o-Xylene	mg/kg	0.056 U	0.0518 U	0.0542 U	0.0494 U	0.0838 U
Toluene	mg/kg	0.056 U	0.0518 U	0.0542 U	0.0494 U	0.0838 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10080-22	620-10080-23	620-10080-24	620-10080-25	620-10080-26
Field Sample ID		2023-SB-03-0406	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012	2023-MW-04-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/02/23	03/02/23
Benzene	mg/kg	0.0542 U	0.0518 U	0.0507 U	0.0557 U	0.0527 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.271 U	0.259 U	0.253 U	0.279 U	0.264 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.271 U	0.259 U	0.253 U	0.279 U	0.264 U
C9-C10 Aromatics	mg/kg	0.271 U	0.259 U	0.253 U	0.279 U	0.264 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.271 U	0.259 U	0.253 U	0.279 U	0.264 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.271 U	0.259 U	0.253 U	0.279 U	0.264 U
Ethylbenzene	mg/kg	0.0542 U	0.0518 U	0.0507 U	0.0557 U	0.0527 U
m,p-Xylene	mg/kg	0.108 U	0.104 U	0.101 U	0.111 U	0.105 U
Methyl tert-butyl ether	mg/kg	0.0542 U	0.0518 U	0.0507 U	0.0557 U	0.0527 U
Naphthalene	mg/kg	0.0542 U	0.0518 U	0.0507 U	0.0557 U	0.0527 U
o-Xylene	mg/kg	0.0542 U	0.0518 U	0.0507 U	0.0557 U	0.0527 U
Toluene	mg/kg	0.0542 U	0.0518 U	0.0507 U	0.0557 U	0.0527 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10080-27	620-10080-28	620-10080-29	620-10080-3	620-10080-30
Field Sample ID		2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-07-0406	2023-MW-04-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/02/23	03/02/23	03/02/23	03/01/23	03/02/23
Benzene	mg/kg	0.0554 U	0.0532 U	0.0572 U	0.0509 U	0.0506 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.277 U	0.266 U	0.286 U	0.254 U	0.253 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.277 U	0.266 U	0.286 U	0.254 U	0.253 U
C9-C10 Aromatics	mg/kg	0.277 U	0.266 U	0.286 U	0.254 U	0.253 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.277 U	0.266 U	0.286 U	0.254 U	0.253 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.277 U	0.266 U	0.286 U	0.254 U	0.253 U
Ethylbenzene	mg/kg	0.0554 U	0.0532 U	0.0572 U	0.0509 U	0.0506 U
m,p-Xylene	mg/kg	0.111 U	0.106 U	0.114 U	0.102 U	0.101 U
Methyl tert-butyl ether	mg/kg	0.0554 U	0.0532 U	0.0572 U	0.0509 U	0.0506 U
Naphthalene	mg/kg	0.0554 U	0.0532 U	0.0572 U	0.0509 U	0.0506 U
o-Xylene	mg/kg	0.0554 U	0.0532 U	0.0572 U	0.0509 U	0.0506 U
Toluene	mg/kg	0.0554 U	0.0532 U	0.0572 U	0.0509 U	0.0506 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10080-31	620-10080-32	620-10080-4	620-10080-5	620-10080-6
Field Sample ID		2023-MW-04-1012	2023-FD-05	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012
Sample Type		N	FD	N	N	N
Parent Sample ID			2023-SB-03-0406			
Sample Date	**Units**	03/02/23	03/02/23	03/01/23	03/01/23	03/01/23
Benzene	mg/kg	0.0566 U	0.0551 U	0.0544 U	0.0516 U	0.0608 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.283 U	0.275 U	0.272 U	0.258 U	0.304 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.283 U	0.275 U	0.272 U	0.258 U	0.304 U
C9-C10 Aromatics	mg/kg	0.283 U	0.275 U	0.272 U	0.258 U	0.304 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.283 U	0.275 U	0.272 U	0.258 U	0.304 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.283 U	0.275 U	0.272 U	0.258 U	0.304 U
Ethylbenzene	mg/kg	0.0566 U	0.0551 U	0.0544 U	0.0516 U	0.0608 U
m,p-Xylene	mg/kg	0.113 U	0.11 U	0.109 U	0.103 U	0.122 U
Methyl tert-butyl ether	mg/kg	0.0566 U	0.0551 U	0.0544 U	0.0516 U	0.0608 U
Naphthalene	mg/kg	0.0566 U	0.0551 U	0.0544 U	0.0516 U	0.0608 U
o-Xylene	mg/kg	0.0566 U	0.0551 U	0.0544 U	0.0516 U	0.0608 U
Toluene	mg/kg	0.0566 U	0.0551 U	0.0544 U	0.0516 U	0.0608 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10080-33
Field Sample ID		Trip Blank-04
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/02/23
1,1,1,2-Tetrachloroethane	mg/kg	0.005 U
1,1,1-Trichloroethane	mg/kg	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U
1,1-Dichloroethane	mg/kg	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U
1,1-Dichloropropene	mg/kg	0.005 U
1,2,3-Trichlorobenzene	mg/kg	0.005 U
1,2,3-Trichloropropane	mg/kg	0.005 U
1,2,4-Trichlorobenzene	mg/kg	0.005 U
1,2,4-Trimethylbenzene	mg/kg	0.005 U
1,2-Dibromo-3-chloropropane	mg/kg	0.01 U
1,2-Dibromoethane	mg/kg	0.005 U
1,2-Dichlorobenzene	mg/kg	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U
1,3,5-Trichlorobenzene	mg/kg	0.005 U
1,3,5-Trimethylbenzene	mg/kg	0.005 U
1,3-Dichlorobenzene	mg/kg	0.005 U
1,3-Dichloropropane	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10080-33
Field Sample ID		Trip Blank-04
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/02/23
1,3-Dichloropropene	mg/kg	0.005 U
1,4-Dichlorobenzene	mg/kg	0.005 U
1,4-Dioxane	mg/kg	0.1 U
2,2-Dichloropropane	mg/kg	0.005 U
2-Butanone	mg/kg	0.01 U
2-Chlorotoluene	mg/kg	0.005 U
2-Hexanone	mg/kg	0.01 U
4-Chlorotoluene	mg/kg	0.005 U
4-Isopropyltoluene	mg/kg	0.005 U
4-Methyl-2-pentanone	mg/kg	0.01 U
Acetone	mg/kg	0.0235 J
Acrylonitrile	mg/kg	0.005 U
Benzene	mg/kg	0.005 U
Bromobenzene	mg/kg	0.005 U
Bromochloromethane	mg/kg	0.005 U
Bromodichloromethane	mg/kg	0.005 U
Bromoform	mg/kg	0.005 U
Bromomethane	mg/kg	0.01 U
Carbon disulfide	mg/kg	0.01 U
Carbon tetrachloride	mg/kg	0.005 U
Chlorobenzene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10080-33
Field Sample ID		Trip Blank-04
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/02/23
Chloroethane	mg/kg	0.01 U
Chloroform	mg/kg	0.005 U
Chloromethane	mg/kg	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.005 U
cis-1,3-Dichloropropene	mg/kg	0.005 U
Dibromochloromethane	mg/kg	0.005 U
Dibromomethane	mg/kg	0.005 U
Dichlorodifluoromethane	mg/kg	0.01 U
Diethyl ether	mg/kg	0.005 U
Diisopropyl Ether	mg/kg	0.005 U
Ethanol	mg/kg	1 U
Ethylbenzene	mg/kg	0.005 U
Hexachlorobutadiene	mg/kg	0.01 U
Isopropylbenzene	mg/kg	0.005 U
m,p-Xylene	mg/kg	0.005 U
Methyl tert-butyl ether	mg/kg	0.005 U
Methylene chloride	mg/kg	0.00985 J
Naphthalene	mg/kg	0.005 U
n-Butylbenzene	mg/kg	0.01 U
n-Propylbenzene	mg/kg	0.005 U
o-Xylene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10080-33
Field Sample ID		Trip Blank-04
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/02/23
sec-Butylbenzene	mg/kg	0.005 U
Styrene	mg/kg	0.005 U
tert-Amyl methyl ether	mg/kg	0.005 U
tert-Butyl Alcohol	mg/kg	0.1 U
Tert-Butyl Ethyl Ether	mg/kg	0.005 U
tert-Butylbenzene	mg/kg	0.005 U
Tetrachloroethene	mg/kg	0.005 U
Tetrahydrofuran	mg/kg	0.01 U
Toluene	mg/kg	0.0111
trans-1,2-Dichloroethene	mg/kg	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U
trans-1,4-Dichlorobutene	mg/kg	0.025 U
Trichloroethene	mg/kg	0.005 U
Trichlorofluoromethane	mg/kg	0.005 U
Vinyl chloride	mg/kg	0.005 U
Xylene (total)	mg/kg	0.015 U

Data Review Qualification Actions
American Tissue Mill
SDG 620100801

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Acetone	2023-SS-06, 2023-SS-05, 2023-SS-04, 2023-SS-03, 2023-SS-02	Laboratory blank contamination	RL (U)	Final qual UJ due to MS/MSD exceedances.
	Toluene	2023-SS-04	Trip blank contamination	RL (U)	
	Acetone, bromobenzene, 1,3-dichlorobenzene, 2-hexanone, naphthalene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene. 1,3,5-trichlorobenzene, trans-1,4-dichloro-2-butene	2023-MW-07-0002	MS/MSD recovery	UJ	
	Acetone, bromomethane, chloroethane, dichlorodifluoromethane, trichlorofluoromethane, ethanol	2023-SS-01, 2023-SS-02, 2023-SS-03, 2023-SS-04, 2023-SS-05, 2023-SS06, 2023-FD-02	MS/MSD recovery	J/UJ	
SVOCs					
	Benzoic acid	2023-MW-04-0204, 2023-MW-04-0406, 2023-MW-04-0608, 2023-MW-04-0810, 2023-MW-04-1012, and 2023-FD-05	LCSD recovery	UJ	
	3,3'-Dichlorobenzidine, 3-nitroanline, 4-chloroaniline, 4-nitroanline, aniline	2023-MW-07-0002	MS/MSD recovery (<10%)	R	
	Benzidine	All MW samples	MS/MSD recovery	J / UJ	
	Pyridine	2023-MW-07-0002	MS/MSD recovery	UJ	

Data Review Qualification Actions
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SDG 620100801

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	Benzo(a)pyrene, pyrene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, phenanthrene	2023-MW-07-0002	MS/MSD recovery	J	
	Hexachlorocyclopentadiene	2023-MW-04-0406	MS/MSD recovery	UJ	
PCBs					
	Qualification of the data was not required.				
MassDEP-VPH					
	Naphthalene	2023-MW-07-0002	Laboratory blank contamination	Result (U)	
	Naphthalene	2023-MW-07-0204, 2023-MW-04-0406	Laboratory blank contamination	RL (U)	
MassDEP-EPH					
	Benzo(a)anthracene, dibenz(a,h)anthracene	2023-SS-06	LCS/LCSD RPD	J	
	C9-C18 Aliphatics	2023-SS-01, 2023-SS-02, 2023-SS-03, 2023-SS-04, 2023-SS-05, 2023-SS-06, 2023-FD-02	MS/MSD recovery	J / R	

Data Review Qualification Actions
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SDG 620100801

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
MCP-14 Metals / Mercury					
	Barium	2023-MW-07-0002	MS/MSD recovery	J-	Final qual J, indeterminate bias, due to serial dilution qual below.
	Thallium	2023-MW-07-0002	MS/MSD recovery	UJ	
	Lead	2023-MW-07-0002	MS/MSD recovery	J+	
	Barium	2023-SS-01, 2023-SS-02, 2023-SS-03, 2023-SS-04, 2023-SS-05, 2023-SS-06, 2023-FD-02	MS/MSD recovery	J+	Final qual J for Ba in 2023-SS-06 due to serial dilution.
	Lead	2023-SS-01, 2023-SS-02, 2023-SS-03, 2023-SS-04, 2023-SS-05, 2023-SS-06, 2023-FD-02	MS/MSD recovery and RPD	J	
	Antimony	2023-SS-01, 2023-SS-02, 2023-SS-03, 2023-SS-04, 2023-SS-05, 2023-SS-06, 2023-FD-02	MS/MSD recovery	UJ	
	Barium	2023-MW-07-0002, 2023-SS-06	Serial dilution not performed	J	

Data Review Qualification Actions
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SDG 620100801

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PFAS					
	NMeFOSAA, NEtFOSAA	2023-MW-07-0002, 2023-MW-07-0406, 2023-MW-07-0608, 2023-MW-07-0810, 2023-SB-04-0002, 2023-SB-04-0810, 2023-SB-03-0406, 2023-SB-03-0608, 2023-SB-03-0810, 2023-SB-03-1012, 2023-MW-04-0002, 2023-MW-04-0608, 2023-MW-04-0810	Surrogate recovery	UJ	
	NMeFOSAA	2023-MW-04-0204	Surrogate recovery	UJ	
	NMeFOSAA	2023-SB-03-0002, 2023-SB-03-0204	Surrogate recovery (< 10%)	R	
	NMeFOSAA, NEtFOSAA	2023-MW-07-0204	Surrogate recovery (< 10%)	R	
	NMePFOSA, NEtPFOSA	2023-MW-07-0406, 2023-MW-04-0002	Surrogate recovery (< 10%)	R	
	NEtFOSAA	2023-MW-07-1012, 2023-SB-03-0002, 2023-SB-03-0204	Surrogate recovery	UJ	
	NMePFOSA	2023-MW-07-0810	Surrogate recovery	UJ	
	NMePFOSA, NEtPFOSA	2023-MW-07-0002, 2023-MW-07-0608, 2023-SB-04-0406, 2023-SB-03-0002, 2023-SB-03-0406	Surrogate recovery	UJ	
	PFBA, PFPeA	2023-MW-07-0002, 2023-MW-07-0204, 2023-SB-03-0204, 2023-SB-03-1012	Surrogate recovery	UJ	

Data Review Qualification Actions
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Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	4:2 FTS, 8:2 FTS, 6:2 FTS, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnA, PFDoDA, PFTeDA, PFBS, PFHxS, PFOS, HFPO-DA	2023-MW-07-0204	Surrogate recovery	UJ	
	4:2 FTS, 8:2 FTS, 6:2 FTS, PFNA, HFPO-DA	2023-SB-03-0204	Surrogate recovery	UJ	
	4:2 FTS, 8:2 FTS, 6:2 FTS, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnA, PFDoDA, PFTeDA, HFPO-DA	2023-SB-03-1012	Surrogate recovery	UJ	
	FOSA, NMeFOSE-M, N-EtFOSE-M	2023-MW-04-0002	Surrogate recovery	UJ	

MW - Monitoring Well
SB Soil Boring
SS Surface Soil

NEtPFOSA -	N-ethylperfluoro-1-octanesulfonamide
NMePFOSA -	N-methylperfluoro-1-octanesulfonamide
PFPeA -	Perfluoropentanoic acid
PFDoDA / PFDoA -	Perfluorododecanoic acid
FOSA	Perfluorooctylsulfonamide
NMeFOSE -	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
N-EtFOSE-M	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol

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Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 04/19/2023
Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Extracted Petroleum Hydrocarbons (EPH) (MassDEP-EPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins New England, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (Metals and PFAS); Eurofins Northeast, Amherst, NY (MassDEP-VPH)
SDG: 620100801
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Thirty-two (32) soil samples, including two field duplicate samples, were listed on the COC for SDG 620100801. One trip blank sample was also included on the COC. The samples were collected on 02/27/2023, 03/01/2023, and 03/02/2023 and received at the Eurofins New England Laboratory on 03/02/2023 at 1.6 and 1.8 °C. Samples for MassDEP-VPH analysis were subsequently shipped to Eurofins Northeast Laboratory and samples for MCP-14 metals/mercury and PFAS analyses were shipped to Eurofins Lancaster Laboratory for analysis. Samples were received at Eurofins Northeast on 03/04/2023 at 2.3 °C. Samples were received at Eurofins Lancaster Laboratory on 03/03/2023 at 1.4 and 2.8 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-07-0002	620-10080-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-07-0204	620-10080-2	
2023-MW-07-0406	620-10080-3	
2023-MW-07-0608	620-10080-4	
2023-MW-07-0810	620-10080-5	
2023-MW-07-1012	620-10080-6	
2023-SB-04-0002	620-10080-14	
2023-SB-04-0204	620-10080-15	
2023-SB-04-0406	620-10080-16	
2023-SB-04-0608	620-10080-17	
2023-SB-04-0810	620-10080-18	
2023-SB-04-1012	620-10080-19	
2023-SB-03-0002	620-10080-20	
2023-SB-03-0204	620-10080-21	
2023-SB-03-0406	620-10080-22	
2023-SB-03-0608	620-10080-23	
2023-SB-03-0810	620-10080-24	

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2023-SB-03-1012	620-10080-25	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-04-0002	620-10080-26	
2023-MW-04-0204	620-10080-27	
2023-MW-04-0406	620-10080-28	
2023-MW-04-0608	620-10080-29	
2023-MW-04-0810	620-10080-30	
2023-MW-04-1012	620-10080-31	
2023-FD-05	620-10080-32	
2023-SS-06	620-10080-7	VOCs, PCBs, MassDEP-EPH, MCP-14 Metals/Mercury
2023-SS-05	620-10080-8	
2023-SS-04	620-10080-9	
2023-SS-03	620-10080-10	
2023-SS-02	620-10080-11	
2023-SS-01	620-10080-12	
2023-FD-02	620-10080-13	
Trip Blank-04	620-10080-33	VOCs

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (soil) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for several additional VOCs were also reported by the laboratory. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1'-biphenyl. Based on the QAPPA (February 2023), 1,1'-biphenyl is not a compound of concern for the site. Results for several additional SVOCs were also reported by the laboratory. No actions are required.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory. Results for MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

MassDEP-VPH: Results for all VPH parameters on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MassDEP-EPH: Results for all EPH parameters on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, copper, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which do not include these analytes.

PFAS: Results for all PFAS compounds on Table 2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MassDEP-EPH: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) were met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for mercury; within 180 days for all other analytes) were met.

PFAS: Samples were extracted within the QAPP-specified holding time of 28 days from collection. Samples were analyzed within 40 days of extraction. No actions are taken.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Laboratory and Field Blanks

VOCs: Acetone was detected at < RL in VOC laboratory method blank 620-20327/3-A (0.02699 mg/kg). Acetone was also detected at < RL in the trip blank (0.0235 mg/kg) associated with the samples of this SDG (Trip Blank-04). Sample results for acetone were all non-detect except in samples 2023-SS-06 (620-10080-7), 2023-SS-05 (620-10080-8), 2023-SS-04 (620-10080-9), 2023-SS-03 (620-10080-10), 2023-SS-02 (620-10080-11), where acetone was detected at < RL. Based on the National Functional Guidelines (NFGs, 2020), detected acetone results are qualified as non-detect at the RL (RL [U]) in these samples due to laboratory blank contamination.

Toluene and methylene chloride were also detected in the trip blank (Trip Blank-04) associated with the samples in this SDG. The result for toluene in sample 2023-SS-04 (620-10080-9) was qualified as non-detect at the RL (RL[U]). No actions were required for toluene or methylene chloride in the other samples since all sample results for toluene and methylene chloride were non-detect.

SVOCs: Results for all SVOC laboratory method blanks were non-detect. No blank actions are required.

PCBs: Results for all PCB laboratory method blanks were non-detect. No blank actions are required.

MassDEP-VPH: Naphthalene was detected at < RL in both VPH laboratory method blanks associated with the samples. Results for naphthalene were non-detect in all samples except for the samples summarized below.

Sample ID	Compound	Blank Result	Sample Result	Action*
2023-MW-07-0002	Naphthalene	< RL	> RL	Result (U)
2023-MW-07-0204		< RL	< RL	RL (U)
2023-MW-04-0406		< RL	< RL	RL (U)

* Professional judgement was used to base actions on the NFGs (2020) for VOC analysis.

MassDEP-EPH: EPH results were non-detect in the EPH blank associated with the samples. No blank actions are required.

MCP-14 Metals/Mercury: Results for all metals and mercury laboratory method blanks were non-detect. No blank actions are required.

PFAS: Results for PFAS were non-detect in all laboratory method blanks. No blank actions are required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 70-130%. No actions are required.

SVOC: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-130% for soil. No actions are required.

PCBs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 30-150% on both analytical columns. Surrogates were not recovered in the MS/MSD analyses of sample 2023-MW-07-0002 (620-10080-1 MS/MSD) due to sample dilutions. No actions are required.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MassDEP-EPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 40-140%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.

PFAS: Percent recoveries of several surrogates did not meet the Program QAPP limits of 50-150% in several samples. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), non-detect results with associated surrogate recovery below limits are qualified as estimated (UJ). Non-detect results with associated surrogate recovery above limits are accepted unqualified since the potential bias is high. Non-detect results with associated surrogate recoveries < 10% are rejected (R). Refer to the Data Review Qualification Actions Table for action details. Note that samples 2023-MW-07-0406 (620-10080-3), 2023-SB-03-0002 (620-10080-20), and 2023-SB-03-0204 (620-10080-21) were re-analyzed by the laboratory due to poor surrogate recoveries in the original analyses. Sample results for the re-analyses of these samples are reported since the recoveries resulted in less data qualifications than the original results. Re-analysis results for all other samples due to poor surrogate recoveries confirmed the recoveries in the original analyses; therefore, results for the original analyses were reported for all other samples.

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover. Six VOC LCS/LCSD pairs were analyzed; all percent LCS/LCSD recoveries meet the Program QAPP recovery limits of 70-130% and no actions are required.

SVOCs: LCS/LCSD percent recoveries met the Program QAPP limits of 40-140% for base/neutral compounds and 30-130% for acid compounds except for the percent recovery for benzoic acid in the LCSD of LCS/LCSD pair 620-20475-2A/3-A (22%). Benzoic acid is not an MCP CAM compound identified as “potentially difficult”. The RPD exceeded the QAPP limit of ≤ 30% (36%). Results for benzoic acid in associated samples were non-detect. Professional judgement was used to qualify the non-detect results for benzoic acid in associated samples 2023-MW-04-0204, 2023-MW-04-0406, 2023-MW-04-0608, 2023-MW-04-0810, 2023-MW-04-1012, and 2023-FD-05 as estimated (UJ) rather than rejected (R) since the recoveries in the LCS of the pair and the other LCS/LCSD pair were acceptable.

PCBs: Percent recoveries of Aroclors 1016 and 1260 met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30% in all LCS/LCSD pairs. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pairs met the Program QAPP recovery limits of 70-130%. All RPDs met the Program QAPP RPD limit of ≤ 25%. No actions are required.

MassDEP-EPH: The percent recoveries in the EPH LCS/LCSD pair met the Program QAPP recovery limits of 40-140%. The RPDs for benzo(a)anthracene and dibenz(a,h)anthracene exceeded the Program QAPP RPD limit of ≤ 25% (28% and 32%, respectively). Based on professional judgement, the NFGs (2020) for the SVOC MS/MSD guidance was used (in the absence of RPD guidance in the NFGS) to qualify the detected benzo(a)anthracene and dibenz(a,h)anthracene results in sample 2023-SS-06 (620-10080-7) as estimated (J). The non-detect results are accepted unqualified.

MCP-14 Metals/Mercury: Percent recoveries for all metals and mercury LCS analyses were within the limits of 80-120%. The Program QAPP and MCP CAM recovery limits for soil are within vendor 95% confidence limits. Vendor limits were not presented in the laboratory report; the laboratory used 80-120% as recovery limits based on MassDEP CAM Method 6010D for aqueous samples. Professional judgement was used to accept sample results for metals and mercury unqualified for LCS performance since recoveries were all within 80-120% limits.

PFAS: Percent recoveries for all PFAS LCS analyses met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS results. An LCSD was not analyzed for the PFAS analysis since MSD and/or laboratory duplicate analyses were provided in the laboratory report. Per the Program QAPP, an LCSD for the PFAS analysis is only required if MSD analyses are not provided. No actions are required.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix, unless otherwise indicated.

Based on professional judgement, qualifications are applied to soil boring (SB), monitoring well (MW), and surface soil (SS) samples separately, based on associated MS/MSD sample type, unless otherwise indicated.

VOCs: MS/MSD analyses were performed on samples 2023-MW-07-0002 (620-10080-1), 2023-MW-04-0406 (620-10080-28), and 2023-SS-06 (620-10080-7). Percent recovery and RPD exceedances as well as actions taken are summarized in the tables below.

2023-MW-07-0002

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Acetone	68	ok	ok	70-130% / ≤ 30%	UJ
Bromobenzene	68	ok	ok		UJ
1,3-Dichlorobenzene	63	ok	ok		UJ
2-Hexanone	68	ok	ok		UJ
Naphthalene	36	51	ok		UJ
1,2,3-Trichlorobenzene	44	56	ok		UJ
1,2,4-Trichlorobenzene	30	46	ok		UJ
1,3,5-Trichlorobenzene	63	ok	ok		UJ
trans-1,4-Dichloro-2-butene	61	ok	ok		UJ
1,1,2-Trichlorofluoroethane	ok	131	ok		A
Chloroethane	ok	136	ok		A
1,2-Dichloropropane	ok	134	ok		A
1,1,2,2-Tetrachloroethane	ok	141	ok		A
1,1,2-Trichloroethane	ok	133	ok		A
Trichlorofluoromethane	ok	131	ok		A
Ethanol	ok	131	ok		A

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for all compounds to the parent sample only since limits were met or data were accepted (A) in the MS/MSD analyses for 2023-MW-04-0406, as shown below.

Parent sample results were non-detect for all compounds with low percent recoveries above. The non-detect results for these compounds were qualified as estimated (UJ) in the parent sample

due to the low recoveries. Based on the NFGs (2020), non-detect results for compounds with high recoveries are accepted unqualified for MS/MSD results.

2023-MW-04-0406

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		%R / RPD	
1,1,2,2-Tetrachloroethane	ok	133	ok	70-130% / ≤ 30%	A
1,1,2-Trichloroethane	ok	132	ok		A

* Actions are based on the NFGs (2020).

Sample results for the two compounds above are non-detect in all samples in this SDG. Therefore, no further action is required for these compounds.

2023-SS-06

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		%R / RPD	
Acetone	48	65	ok	70-130% / ≤ 30%	J/UJ
Bromomethane	58	59	ok		UJ
Chloroethane	20	21	ok		UJ
Dichlorodifluoromethane	68	68	ok		UJ
Trichlorofluoromethane	24	26	ok		UJ
Ethanol	63	46	ok		UJ

* Actions are based on the NFGs (2020). As noted above, based on the Region I Supplement (2020), MS/MSD qualifications are applied to all SS samples.

Detected and non-detect results for acetone are qualified as estimated (J/UJ) and non-detected results for bromomethane, chloroethane, dichlorodifluoromethane, trichlorofluoromethane, and ethanol are qualified as estimated (UJ) in SS samples 2023-SS-01, 2023-SS-02, 2023-SS-03, 2023-SS-04, 2023-SS-05, 2023-SS-06, and 2023-FD-02.

SVOCs: MS/MSD analyses were performed on samples 2023-MW-07-0002 (620-10080-1) and 2023-MW-04-0406 (620-10080-28). Percent recovery and RPD exceedances as well as actions taken are summarized below.

2023-MW-07-0002

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
2,4-Dinitrophenol	798	1262	46	30-130% / ≤ 30%	A
3,3'-Dichlorobenzidine	0	0		40-140% / ≤ 30%	R
3-Nitroaniine	0	0		40-140% / ≤ 30%	R
4-Chloroaniline	0	0		40-140% / ≤ 30%	R
4-Nitroaniline	0	0		40-140% / ≤ 30%	R
Aniline	0	0		40-140% / ≤ 30%	R
Benzidine	0	0		40-140% / ≤ 30%	J
Benzo(a)pyrene	-21	23	48	40-140% / ≤ 30%	J
Pyridine	22	24		40-140% / ≤ 30%	UJ
Pyrene	157	183		40-140% / ≤ 30%	J
Anthracene	ok	146		40-140% / ≤ 30%	J
Benzo(a)anthracene	ok	211	33	40-140% / ≤ 30%	J
Benzo(b)fluoranthene	ok	206		40-140% / ≤ 30%	J
Benzo(k)fluoranthene	ok	ok	34	40-140% / ≤ 30%	J
Chrysene		188		40-140% / ≤ 30%	J
Fluoranthene	183	233		40-140% / ≤ 30%	J
Phenanthrene	ok	156		40-140% / ≤ 30%	J

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for all compounds except benzidine to the parent sample only since recoveries for those compounds in the MS/MSD analyses for 2023-MW-04-0406 are acceptable.

2023-MW-04-0406

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Benzidine	6	24	115	40-140% / ≤ 30%	UJ**
Hexachlorocyclopentadiene	16	23	31	40-140% / ≤ 30%	UJ

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for benzidine to all MW samples since recoveries were low in both MS/MSD pairs. Actions for hexachlorocyclopentadiene are applied to the parent sample only since recoveries for the compound were acceptable for the MS/MSD analyses of 2023-MW-07-0002, above.
** Professional judgement was used to qualify as estimated (UJ) rather than reject (R) non-detect result since the MSD recovery was > 10%.

Professional judgement was used to qualify benzidine results as estimated (J/UJ) in all MW samples due to low recoveries in the MS/MSD analyses.

PCBs: Only Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, actions were applied to associated Aroclors:

If only 1016/1260 spiked into the MS/MSD, apply actions to the following Aroclors:
If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on samples 2023-MW-07-0002 (620-10080-1), 2023-MW-04-0406 (620-10080-28), and 2023-SS-06 (620-10080-7).

The high detection of Aroclor 1254 in parent sample 2023-MW-07-0002 (620-10080-1) required a sample dilution of 10x and interfered with the recoveries of Aroclors 1016 and 1260 in the MS and MSD analyses of the sample. Meaningful recoveries could not be calculated. LCS/LCSD recoveries for all Aroclors are acceptable. No actions are taken.

The recovery of Aroclor 1260 in the MSD analysis of sample 2023-MW-04-0406 (620-10080-28) exceeded the Program QAPP limits of 40-140% (142%). The recovery of the Aroclor 1260 spike was likely impacted by the presence of Aroclor 1254 in the parent sample (0.160 mg/kg). Aroclor 1254 was the only Aroclor detected in the MW samples. Professional judgement was used to accept results without qualification for the MSD recovery.

The recoveries of Aroclor 1016 meet the Program QAPP limits of 40-140% in the MS/MSD analyses of sample 2023-SS-06 (620-10080-7). The Aroclor 1260 recoveries exceeded the 40-140% limits (393% and 350%, respectively) likely due to the presence of Aroclor 1254 in the parent sample (6.4 mg/kg). Professional judgement was used to accept SS sample results without qualification for the MS/MSD recoveries of Aroclor 1260. Note that Aroclor 1254 was detected in all SS samples, with no other Aroclor detections.

MassDEP-VPH: MS/MSD analyses were performed on samples 2023-MW-07-0002 (620-10080-1) and 2023-MW-04-0406 (620-10080-28). Recoveries and RPDs met the Program QAPP limits of 70-130% recovery and ≤ 50% RPD. No actions are required.

MassDEP-EPH: MS/MSD analyses were performed on sample 2023-SS-06 (620-10080-7). C9-C18 aliphatics was not recovered in the MS or MSD analyses of the sample. C9-C18 aliphatics

results were non-detect in all SS samples except for sample 2023-SS-04. Professional judgement based on the NFGs (2020) for the SVOC analysis was used to qualify the detected result for C9-C18 aliphatics as estimated (J) in sample 2023-SS-04 and to reject (R) the non-detected results for C9-C18 aromatics in the remaining SS samples (2023-SS-01, 2023-SS-02, 2023-SS-03, 2023-SS-05, 2023-SS-06, and 2023-FD-02) due to the MS/MSD results. C9-C18 was not detected in the parent sample.

The laboratory reported negative recoveries for C11-C22 aromatics, phenanthrene, and fluoranthene in the MS and MSD analyses of sample 2023-SS-06. C11-C22 aromatics, phenanthrene, and fluoranthene were present in the parent sample at a concentration > 4x the spiking level. Therefore, based on the NFGs (2020), no actions are taken for these MS/MSD results.

MCP-14 Metals/Mercury: MS/MSD analyses for MCP-14 metals were performed on samples 2023-MW-07-0002 (620-10080-1), 2023-MW-04-0406 (620-10080-28), and 2023-SS-06 (620-10080-7).

Percent recoveries for barium and thallium were below the Program QAPP limits of 75-125% in the MSD analysis of sample 2023-MW-07-0002 (58% and 68%, respectively). The percent recovery for lead exceeded the 75-125% limits in the MSD analysis of the sample (149%). Professional judgement was used to apply actions to the parent sample only since results were acceptable for the MS/MSD analyses of sample 2023-MW-04-0406, as noted below. Based on the NFGs (2020), the detected barium result was qualified as estimated with a potential low bias (J-) with a final qualification of (J) estimated with an indeterminate bias, due to a serial dilution analysis not being performed for the sample as further discussed below. The thallium result was qualified as estimated (UJ) in sample 2023-MW-07-0002. The detected lead result in the sample is qualified as estimated with a potential high bias (J+) due to MS/MSD recoveries. RPDs met the Program QAPP limits of ≤ 35%.

Percent recoveries and RPDs for the MS/MSD analyses of sample 2023-MW-04-0406 were within the Program QAPP percent recovery limits of 75-125% and RPD limit of ≤ 35%. No actions are required.

The percent recoveries for lead and barium in the MS and MSD analyses of sample 2023-SS-06, respectively, exceeded the Program QAPP limits of 75-125%. The RPD for the lead results also exceeded the Program QAPP limit of ≤ 35% (37%). Barium and lead were detected in all SS samples; therefore, based on the NFGs (2020), the detected barium results are qualified as estimated with a potential high bias (J+) in all SS samples (2023-SS-01 through 2023-SS-06 and 2023-FD-02). Note that the barium result in sample 2023-SS-06 was subsequently qualified due to serial dilution results and the final qualification for this sample is estimated (J) with an indeterminate bias. The detected lead results are qualified as estimated (J) due to both MSD recovery and MS/MSD RPD. The recovery of antimony in the MSD analysis of the sample was below the 75-125% limits (72%). Antimony results were non-detect in all SS samples. Based on the NFGs (2020), the non-detect antimony results are qualified as estimated (UJ) in all SS samples due to the low recovery. Thallium was not recovered in either the MS or MSD analysis of sample 2023-SS-06, likely due to a 10x dilution factor for the sample. Professional judgement was used to accept the thallium results in all SS samples unqualified.

MS/MSD analyses for mercury were performed on samples 2023-MW-07-0002 (620-10080-1), 2023-MW-04-0406 (620-10080-28), 2023-FD-05 (620-10080-32), and 2023-SS-06 (620-10080-7). Results for the mercury MS/MSD analysis for all parent samples met the Program QAPP limits of 75-125% recovery and RPD ≤ 35%). No actions are required.

PFAS: MS/MSD analyses were performed on samples 2023-MW-07-0002 (620-10080-1) and 2023-MW-04-0406 (620-10080-28).

The RPD for the recoveries of perfluorohexadecanoic acid exceeded the laboratory RPD limit of ≤ 30% (35%) in the MS/MSD analyses of sample 2023-MW-07-0002. All MW sample perfluorohexadecanoic acid results are non-detect. Based on the EPA Data Review and Validation Guidelines for PFAS (November 2018), the non-detect results for perfluorohexadecanoic acid are accepted unqualified and no action is taken. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include MS/MSD recovery limits for PFAS. Therefore, the laboratory-established recovery and RPD limits were used to evaluate the MS/MSD results. No actions are required.

9. Laboratory Duplicates (metals only)

MCP-14 Metals/Mercury: Laboratory duplicate analyses were performed on sample 2023-SS-06 (620-10080-7).

The laboratory duplicate criterion (≤ 35% RPD) was exceeded for cadmium (RPD 41%) in sample 2023-SS-06. Original and duplicate sample results for cadmium were < 5x RL. The absolute difference between the results was < RL. Based on the NFGs (2020), cadmium results in the SS samples are accepted unqualified for laboratory duplicate performance. No action is taken.

Laboratory duplicate analyses for mercury were performed on samples 2023-FD-05 (620-10080-32) and 2023-MW-04-0406 (620-10080-28). Mercury results were non-detect in the original and duplicate analyses for both samples. Therefore, RPDs were not calculated by the laboratory and laboratory duplicate performance is considered acceptable. No actions are taken.

Note that Table 2-12-2 of the Program QAPP lists a laboratory duplicate as a QC sample for the PFAS analysis with no associated QC limit. A laboratory duplicate analysis was not reported by the laboratory for the PFAS analysis. The EPA Data Review and Validation Guidelines for PFAS (November 2018) does not include discussion of laboratory duplicate analyses. No actions are taken.

10. Serial Dilution (metals only)

MCP-14 Metals/Mercury: A serial dilution analysis was not performed for this SDG. The Massachusetts CAM requires a serial dilution analysis on samples used for MS/MSD analyses where analytes are detected at > 50x RL. MS/MSD analyses were performed on samples 2023-MW-07-0002, 2023-MW-04-0406, and 2023-SS-06. Detected analyte results were < 50x RL for all used for MS/MSD analyses except for barium in samples 2023-MW-07-0002 and 2023-SS-06, where barium was detected at > 50x RL. Based on the NFGs, results in samples of a similar matrix are qualified as estimated (J/UJ) if a serial dilution analysis is not performed. Professional judgement was used to limit actions for barium to samples 2023-MW-07-0002 and 2023-SS-06 only since barium results were < 50x RL in all other samples. The detected barium result in samples 2023-MW-07-0002 and 2023-SS-06 are qualified as estimated (J) due to serial dilutions not being performed.

11. Field Duplicate Precision

Field duplicate pairs 2023-SS-05 (620-10080-8) / 2023-FD-02 (620-10080-13) and 2023-SB-03-0406 (620-10080-22) / 2023-FD-05 (620-10080-32) are associated with the soil samples of this

SDG. Acceptable field duplicate precision is an RPD of ≤ 50% for results > 5x RL and an absolute difference < 4x RL for results < 5x RL, based on the EPA Region 1 Supplement (2020).

Based on the Region 1 Supplement (2020), qualifications are applied to all field samples with similar matrix unless otherwise indicated.

Field duplicate precision criteria were met for all analytical parameters for both field duplicate pairs. No action is required.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections. No action is taken.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

RLs for non-detect results for SVOCs, PCBs, MassDEP-VPH, and MassDEP-EPH analyses meet the Project Action Levels (PALs) for the site.

RLs for non-detect results for the VOCs 1,1,2,2-tetrachloroethane and dibromochloromethane exceeded the PALs of 0.02 mg/kg and 0.03 mg/kg, respectively, in the surface soil (SS) samples. RLs ranged from 0.0536 mg/kg to 0.0659 mg/kg for both compounds. Site objectives may be impacted.

RLs for non-detect MCP-14 metals/mercury results met the PALs for the site except for the thallium RLs in samples 2023-SB-04-0810 (620-10080-18), 2023-SB-03-0810 (620-10080-24), 2023-MW-04-0608 (620-10080-29), 2023-MW-04-0810 (620-10080-30), 2023-MW-04-1012 (620-10080-31), and 2023-SS-06 (620-10080-7), where the PAL of 8 mg/kg was exceeded. RLs ranged from 26.8 mg/kg to 33.6 mg/kg. Thallium results for these samples were reported with a dilution factor of 10x to report other analytes. Site objectives may be impacted.

Note there are no PALs associated with the PFAS analysis.

16. Other

Region 1 Supplement (2020) criterion for percent solids content (> 30%) was met for all soil samples. No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620100801 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SS-05**		**2023-FD-02**				
	620-10080-8		**620-10080-13**				
1,1,1,2-Tetrachloroethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,1,1-Trichloroethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,1,2,2-Tetrachloroethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,1,2-Trichloroethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,1-Dichloroethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,1-Dichloroethene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,1-Dichloropropene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2,3-Trichlorobenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2,3-Trichloropropane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2,4-Trichlorobenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2,4-Trimethylbenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2-Dibromo-3-chloropropane	0.11	U	0.111	U	0.90		Ok - both ND
1,2-Dibromoethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2-Dichlorobenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2-Dichloroethane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,2-Dichloropropane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,3,5-Trichlorobenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,3,5-Trimethylbenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,3-Dichlorobenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,3-Dichloropropane	0.0552	U	0.0553	U	0.18		Ok - both ND
1,3-Dichloropropene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,4-Dichlorobenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
1,4-Dioxane	1.1	U	1.11	U	0.90		Ok - both ND
2,2-Dichloropropane	0.0552	U	0.0553	U	0.18		Ok - both ND
2-Butanone	0.11	U	0.111	U	0.90		Ok - both ND
2-Chlorotoluene	0.0552	U	0.0553	U	0.18		Ok - both ND
2-Hexanone	0.11	U	0.111	U	0.90		Ok - both ND
4-Chlorotoluene	0.0552	U	0.0553	U	0.18		Ok - both ND
4-Isopropyltoluene	0.0826		0.0553	U	-39.59	-0.027	Ok - abs diff < 4x RL
4-Methyl-2-pentanone	0.11	U	0.111	U	0.90		Ok - both ND
Acetone	0.344	J	0.553	U	46.60		Ok - ND and < RL
Acrylonitrile	0.0552	U	0.553	U	163.70		Ok - both ND
Benzene	0.0552	U	0.553	U	163.70		Ok - both ND
Bromobenzene	0.0552	U	0.553	U	163.70		Ok - both ND
Bromochloromethane	0.0552	U	0.553	U	163.70		Ok - both ND
Bromodichloromethane	0.0552	U	0.553	U	163.70		Ok - both ND
Bromoform	0.0552	U	0.553	U	163.70		Ok - both ND
Bromomethane	0.11	U	0.111	U	0.90		Ok - both ND
Carbon disulfide	0.11	U	0.111	U	0.90		Ok - both ND
Carbon tetrachloride	0.0552	U	0.0553	U	0.18		Ok - both ND
Chlorobenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
Chloroethane	0.11	U	0.111	U	0.90		Ok - both ND
Chloroform	0.0552	U	0.0553	U	0.18		Ok - both ND
Chloromethane	0.11	U	0.111	U	0.90		Ok - both ND
cis-1,2-Dichloroethene	0.0552	U	0.0553	U	0.18		Ok - both ND
cis-1,3-Dichloropropene	0.0552	U	0.0553	U	0.18		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SS-05**		**2023-FD-02**				
	620-10080-8		**620-10080-13**				
Dibromochloromethane	0.0552	U	0.0553	U	0.18		Ok - both ND
Dibromomethane	0.0552	U	0.0553	U	0.18		Ok - both ND
Dichlorodifluoromethane	0.11	U	0.111	U	0.90		Ok - both ND
Diethyl ether	0.0552	U	0.0553	U	0.18		Ok - both ND
Diisopropyl Ether	0.0552	U	0.0553	U	0.18		Ok - both ND
Ethanol	11	U	11.1	U	0.90		Ok - both ND
Ethylbenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
Hexachlorobutadiene	0.0552	U	0.0553	U	0.18		Ok - both ND
Isopropylbenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
m,p-Xylene	0.0552	U	0.0553	U	0.18		Ok - both ND
Methyl tert-butyl ether	0.0552	U	0.0553	U	0.18		Ok - both ND
Methylene chloride	0.11	U	0.111	U	0.90		Ok - both ND
Naphthalene	0.0552	U	0.0553	U	0.18		Ok - both ND
n-Butylbenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
n-Propylbenzene	0.0552	U	0.0463	J	-17.54		Ok - both ND
o-Xylene	0.0552	U	0.0553	U	0.18		Ok - both ND
sec-Butylbenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
Styrene	0.0552	U	0.0553	U	0.18		Ok - both ND
tert-Amyl methyl ether	0.0552	U	0.0553	U	0.18		Ok - both ND
tert-Butyl Alcohol	1.1	U	1.11	U	0.90		Ok - both ND
Tert-Butyl Ethyl Ether	0.0552	U	0.0553	U	0.18		Ok - both ND
tert-Butylbenzene	0.0552	U	0.0553	U	0.18		Ok - both ND
Tetrachloroethene	0.0552	U	0.0553	U	0.18		Ok - both ND
Tetrahydrofuran	0.11	U	0.111	U	0.90		Ok - both ND
Toluene	0.0552	U	0.0553	U	0.18		Ok - both ND
trans-1,2-Dichloroethene	0.0552	U	0.0553	U	0.18		Ok - both ND
trans-1,3-Dichloropropene	0.0552	U	0.0553	U	0.18		Ok - both ND
trans-1,4-Dichlorobutene	0.276	U	0.277	U	0.36		Ok - both ND
Trichloroethene	0.0552	U	0.0553	U	0.18		Ok - both ND
Trichlorofluoromethane	0.0552	U	0.0553	U	0.18		Ok - both ND
Vinyl chloride	0.0552	U	0.0553	U	0.18		Ok - both ND
Xylene (total)	0.166	U	0.166	U	0.00		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SS-05**		**2023-FD-02**				
	620-10080-8		**620-10080-13**				
Aroclor 1016	0.0203	U	0.0206	U	1.47		Ok - both ND
Aroclor 1221	0.0203	U	0.0206	U	1.47		Ok - both ND
Aroclor 1232	0.0203	U	0.0206	U	1.47		Ok - both ND
Aroclor 1242	0.0203	U	0.0206	U	1.47		Ok - both ND
Aroclor 1248	0.0203	U	0.0206	U	1.47		Ok - both ND
Aroclor 1254	0.735		0.657		-11.21		Ok - RPD < 50%
Aroclor 1260	0.0203	U	0.0206	U	1.47		Ok - both ND
Aroclor 1262	0.0203	U	0.0206	U	1.47		Ok - both ND
Aroclor 1268	0.0203	U	0.0206	U	1.47		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 EPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SS-05**		**2023-FD-02**				
	620-10080-8		**620-10080-13**				
2-Methylnaphthalene	0.343	U	0.339	U	-1.17		Ok - both ND
Acenaphthene	0.343	U	0.339	U	-1.17		Ok - both ND
Acenaphthylene	0.343	U	0.339	U	-1.17		Ok - both ND
Anthracene	0.343	U	0.339	U	-1.17		Ok - both ND
Benzo(a)anthracene	0.343	U	0.339	U	-1.17		Ok - both ND
Benzo(a)pyrene	0.343	U	0.339	U	-1.17		Ok - both ND
Benzo(b)fluoranthene	0.343	U	0.339	U	-1.17		Ok - both ND
Benzo(g,h,i)perylene	0.343	U	0.339	U	-1.17		Ok - both ND
Benzo(k)fluoranthene	0.343	U	0.339	U	-1.17		Ok - both ND
C11-C22 Aromatics	6.87	U	23.9		110.69	17.03	Ok - abs diff < 4x RL
C11-C22 Aromatics (adjusted)	6.87	U	23.9		110.69	17.03	Ok - abs diff < 4x RL
C19-C36 Aliphatics	6.87	U	9.34		30.48	2.47	Ok - abs diff < 4x RL
C9-C18 Aliphatics	6.87	U	6.78	U	-1.32		Ok - both ND
Chrysene	0.343	U	0.339	U	-1.17		Ok - both ND
Dibenz(a,h)anthracene	0.343	U	0.339	U	-1.17		Ok - both ND
Fluoranthene	0.343	U	0.339	U	-1.17		Ok - both ND
Fluorene	0.343	U	0.339	U	-1.17		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.343	U	0.339	U	-1.17		Ok - both ND
Naphthalene	0.343	U	0.339	U	-1.17		Ok - both ND
Phenanthrene	0.343	U	0.339	U	-1.17		Ok - both ND
Pyrene	0.343	U	0.339	U	-1.17		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SS-05**		**2023-FD-02**				
	620-10080-8		**620-10080-13**				
Antimony	5.24	U	4.11	U	-24.17		Ok - both ND
Arsenic	2.15	J	3.05		34.62	0.90	Ok - abs diff < 4x RL
Barium	20.6		25		19.30		Ok - RPD < 50%
Beryllium	0.245	J	0.298	J	19.52		Ok - both < RL
Cadmium	0.524	U	0.411	U	-24.17		Ok - both ND
Chromium	3.21		5.26		48.41	2.05	Ok - abs diff < 4x RL
Lead	7.58		8.09		6.51	0.51	Ok - abs diff < 4x RL
Mercury	0.0641	U	0.0412	J	-43.49		Ok - ND and < RL
Nickel	2.07		2.76		28.57	0.69	Ok - abs diff < 4x RL
Selenium	5.24	U	4.11	U	-24.17		Ok - both ND
Silver	1.05	U	0.823	U	-24.24		Ok - both ND
Thallium	3.14	U	2.47	U	-23.89		Ok - both ND
Vanadium	5.54		8.09		37.42		Ok - RPD < 50%
Zinc	21.3		23.4		9.40		Ok - RPD < 50%

Field Duplicate Evaluation

SDG: 620100801 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
1,1,1,2-Tetrachloroethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,1,1-Trichloroethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,1,2,2-Tetrachloroethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,1,2-Trichloroethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,1-Dichloroethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,1-Dichloroethene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,1-Dichloropropene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2,3-Trichlorobenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2,3-Trichloropropane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2,4-Trichlorobenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2,4-Trimethylbenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2-Dibromo-3-chloropropane	0.0106	U	0.0104	U	-1.90		Ok - both ND
1,2-Dibromoethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2-Dichlorobenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2-Dichloroethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,2-Dichloropropane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,3,5-Trichlorobenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,3,5-Trimethylbenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,3-Dichlorobenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,3-Dichloropropane	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,3-Dichloropropene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,4-Dichlorobenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
1,4-Dioxane	0.106	U	0.104	U	-1.90		Ok - both ND
2,2-Dichloropropane	0.00531	U	0.00521	U	-1.90		Ok - both ND
2-Butanone	0.0106	U	0.0104	U	-1.90		Ok - both ND
2-Chlorotoluene	0.00531	U	0.00521	U	-1.90		Ok - both ND
2-Hexanone	0.0106	U	0.0104	U	-1.90		Ok - both ND
4-Chlorotoluene	0.00531	U	0.00521	U	-1.90		Ok - both ND
4-Isopropyltoluene	0.00531	U	0.00521	U	-1.90		Ok - both ND
4-Methyl-2-pentanone	0.0106	U	0.0104	U	-1.90		Ok - both ND
Acetone	0.0531	U	0.0521	U	-1.90		Ok - both ND after blank actions
Acrylonitrile	0.00531	U	0.0521	U	163.00		Ok - both ND
Benzene	0.00531	U	0.0521	U	163.00		Ok - both ND
Bromobenzene	0.00531	U	0.0521	U	163.00		Ok - both ND
Bromochloromethane	0.00531	U	0.0521	U	163.00		Ok - both ND
Bromodichloromethane	0.00531	U	0.0521	U	163.00		Ok - both ND
Bromoform	0.00531	U	0.0521	U	163.00		Ok - both ND
Bromomethane	0.0106	U	0.0104	U	-1.90		Ok - both ND
Carbon disulfide	0.0106	U	0.0104	U	-1.90		Ok - both ND
Carbon tetrachloride	0.00531	U	0.00521	U	-1.90		Ok - both ND
Chlorobenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Chloroethane	0.0106	U	0.0104	U	-1.90		Ok - both ND
Chloroform	0.00531	U	0.00521	U	-1.90		Ok - both ND
Chloromethane	0.0106	U	0.0104	U	-1.90		Ok - both ND
cis-1,2-Dichloroethene	0.00531	U	0.00521	U	-1.90		Ok - both ND
cis-1,3-Dichloropropene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Dibromochloromethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
Dibromomethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
Dichlorodifluoromethane	0.0106	U	0.0104	U	-1.90		Ok - both ND
Diethyl ether	0.00531	U	0.00521	U	-1.90		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
Diisopropyl Ether	0.00531	U	0.00521	U	-1.90		Ok - both ND
Ethanol	1.06	U	1.04	U	-1.90		Ok - both ND
Ethylbenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Hexachlorobutadiene	0.0106	U	0.0104	U	-1.90		Ok - both ND
Isopropylbenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
m,p-Xylene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Methyl tert-butyl ether	0.00531	U	0.00521	U	-1.90		Ok - both ND
Methylene chloride	0.0106	U	0.0104	U	-1.90		Ok - both ND
Naphthalene	0.00531	U	0.00521	U	-1.90		Ok - both ND
n-Butylbenzene	0.0106	U	0.0104	U	-1.90		Ok - both ND
n-Propylbenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
o-Xylene	0.00531	U	0.00521	U	-1.90		Ok - both ND
sec-Butylbenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Styrene	0.00531	U	0.00521	U	-1.90		Ok - both ND
tert-Amyl methyl ether	0.00531	U	0.00521	U	-1.90		Ok - both ND
tert-Butyl Alcohol	0.106	U	0.104	U	-1.90		Ok - both ND
Tert-Butyl Ethyl Ether	0.00531	U	0.00521	U	-1.90		Ok - both ND
tert-Butylbenzene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Tetrachloroethene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Tetrahydrofuran	0.0106	U	0.0104	U	-1.90		Ok - both ND
Toluene	0.00531	U	0.00521	U	-1.90		Ok - both ND
trans-1,2-Dichloroethene	0.00531	U	0.00521	U	-1.90		Ok - both ND
trans-1,3-Dichloropropene	0.00531	U	0.00521	U	-1.90		Ok - both ND
trans-1,4-Dichlorobutene	0.0265	U	0.0261	U	-1.52		Ok - both ND
Trichloroethene	0.00531	U	0.00521	U	-1.90		Ok - both ND
Trichlorofluoromethane	0.00531	U	0.00521	U	-1.90		Ok - both ND
Vinyl chloride	0.00531	U	0.00521	U	-1.90		Ok - both ND
Xylene (total)	0.0159	U	0.0156	U	-1.90		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
1,2,4,5-Tetrachlorobenzene	0.383	U	0.375	U	-2.11		Ok - both ND
1,2,4-Trichlorobenzene	0.383	U	0.375	U	-2.11		Ok - both ND
1,2-Dichlorobenzene	0.383	U	0.375	U	-2.11		Ok - both ND
1,3-Dichlorobenzene	0.383	U	0.375	U	-2.11		Ok - both ND
1,4-Dichlorobenzene	0.383	U	0.375	U	-2.11		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.194	U	0.19	U	-2.08		Ok - both ND
2,4,5-Trichlorophenol	0.383	U	0.375	U	-2.11		Ok - both ND
2,4,6-Trichlorophenol	0.194	U	0.19	U	-2.08		Ok - both ND
2,4-Dichlorophenol	0.194	U	0.19	U	-2.08		Ok - both ND
2,4-Dimethylphenol	0.383	U	0.375	U	-2.11		Ok - both ND
2,4-Dinitrophenol	0.383	U	0.375	U	-2.11		Ok - both ND
2,4-Dinitrotoluene	0.194	U	0.19	U	-2.08		Ok - both ND
2,6-Dinitrotoluene	0.194	U	0.19	U	-2.08		Ok - both ND
2-Chloronaphthalene	0.383	U	0.375	U	-2.11		Ok - both ND
2-Chlorophenol	0.194	U	0.19	U	-2.08		Ok - both ND
2-Methylnaphthalene	0.0774	U	0.0758	U	-2.09		Ok - both ND
2-Methylphenol	0.383	U	0.375	U	-2.11		Ok - both ND
2-Nitroaniline	0.383	U	0.375	U	-2.11		Ok - both ND
2-Nitrophenol	0.194	U	0.19	U	-2.08		Ok - both ND
3 & 4 Methylphenol	0.383	U	0.375	U	-2.11		Ok - both ND
3,3'-Dichlorobenzidine	0.383	U	0.375	U	-2.11		Ok - both ND
3-Nitroaniline	0.383	U	0.375	U	-2.11		Ok - both ND
4,6-Dinitro-2-methylphenol	0.383	U	0.375	U	-2.11		Ok - both ND
4-Bromophenyl-phenylether	0.383	U	0.375	U	-2.11		Ok - both ND
4-Chloro-3-methylphenol	0.383	U	0.375	U	-2.11		Ok - both ND
4-Chloroaniline	0.194	U	0.19	U	-2.08		Ok - both ND
4-Chlorophenyl-phenylether	0.383	U	0.375	U	-2.11		Ok - both ND
4-Nitroaniline	0.194	U	0.19	U	-2.08		Ok - both ND
4-Nitrophenol	0.383	U	0.375	U	-2.11		Ok - both ND
Acenaphthene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Acenaphthylene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Acetophenone	0.194	U	0.19	U	-2.08		Ok - both ND
Aniline	0.383	U	0.375	U	-2.11		Ok - both ND
Anthracene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Azobenzene	0.383	U	0.375	U	-2.11		Ok - both ND
Benzidine	0.766	U	0.75	U	-2.11		Ok - both ND
Benzo(a)anthracene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Benzo(a)pyrene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Benzo(b)fluoranthene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Benzo(g,h,i)perylene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Benzo(k)fluoranthene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Benzoic Acid	0.383	U	0.375	U	-2.11		Ok - both ND
Benzyl Alcohol	0.383	U	0.375	U	-2.11		Ok - both ND
Bis(2-chloroethoxy)methane	0.383	U	0.375	U	-2.11		Ok - both ND
Bis(2-chloroethyl)ether	0.194	U	0.19	U	-2.08		Ok - both ND
bis-(2-chloroisopropyl)ether	0.194	U	0.19	U	-2.08		Ok - both ND
Bis(2-ethylhexyl)phthalate	0.194	U	0.19	U	-2.08		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
Butylbenzylphthalate	0.383	U	0.375	U	-2.11		Ok - both ND
Carbazole	0.194	U	0.19	U	-2.08		Ok - both ND
Chrysene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Dibenz(a,h)anthracene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Dibenzofuran	0.194	U	0.19	U	-2.08		Ok - both ND
Diethylphthalate	0.383	U	0.375	U	-2.11		Ok - both ND
Dimethylphthalate	0.383	U	0.375	U	-2.11		Ok - both ND
Di-N-Butylphthalate	0.383	U	0.375	U	-2.11		Ok - both ND
Di-N-Octyl Phthalate	0.383	U	0.375	U	-2.11		Ok - both ND
Fluoranthene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Fluorene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Hexachlorobenzene	0.194	U	0.19	U	-2.08		Ok - both ND
Hexachlorobutadiene	0.194	U	0.19	U	-2.08		Ok - both ND
Hexachlorocyclopentadiene	0.194	U	0.19	U	-2.08		Ok - both ND
Hexachloroethane	0.194	U	0.19	U	-2.08		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Isophorone	0.194	U	0.19	U	-2.08		Ok - both ND
Naphthalene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Naphthalene, 1-methyl-	0.0774	U	0.0758	U	-2.09		Ok - both ND
Nitrobenzene	0.194	U	0.19	U	-2.08		Ok - both ND
N-Nitrosodimethylamine (NDMA)	0.194	U	0.19	U	-2.08		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.194	U	0.19	U	-2.08		Ok - both ND
N-Nitrosodiphenylamine	0.383	U	0.375	U	-2.11		Ok - both ND
Pentachloronitrobenzene	0.383	U	0.375	U	-2.11		Ok - both ND
Pentachlorophenol	0.383	U	0.375	U	-2.11		Ok - both ND
Phenanthrene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Phenol	0.383	U	0.375	U	-2.11		Ok - both ND
Pyrene	0.0774	U	0.0758	U	-2.09		Ok - both ND
Pyridine	0.383	U	0.375	U	-2.11		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
Aroclor 1016	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1221	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1232	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1242	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1248	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1254	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1260	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1262	0.0231	U	0.0227	U	-1.75		Ok - both ND
Aroclor 1268	0.0231	U	0.0227	U	-1.75		Ok - both ND

Field Duplicate Evaluation

SDG: 620100801 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
Benzene	0.0542	U	0.0551	U	1.65		Ok - both ND
C5-C8 Aliphatics (adjusted)	0.271	U	0.275	U	1.47		Ok - both ND
C5-C8 Aliphatics (unadjusted)	0.271	U	0.275	U	1.47		Ok - both ND
C9-C10 Aromatics	0.271	U	0.275	U	1.47		Ok - both ND
C9-C12 Aliphatics (adjusted)	0.271	U	0.275	U	1.47		Ok - both ND
C9-C12 Aliphatics (unadjusted)	0.271	U	0.275	U	1.47		Ok - both ND
Ethylbenzene	0.0542	U	0.0551	U	1.65		Ok - both ND
m,p-Xylene	0.108	U	0.11	U	1.83		Ok - both ND
Methyl tert-butyl ether	0.0542	U	0.0551	U	1.65		Ok - both ND
Naphthalene	0.0542	U	0.0551	U	1.65		Ok - both ND
o-Xylene	0.0542	U	0.0551	U	1.65		Ok - both ND
Toluene	0.0542	U	0.0551	U	1.65		Ok - both ND

Field Duplicate Evaluation

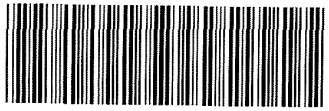
SDG: 620100801 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
Antimony	5.49	U	5.67	U	3.23		Ok - both ND
Arsenic	3.03	J	2.43	J	-21.98		Ok - both < RL
Barium	18.5		16.6		-10.83		Ok - RPD < 50%
Beryllium	0.257	J	0.239	J	-7.26		Ok - both < RL
Cadmium	0.549	U	0.567	U	3.23		Ok - both ND
Chromium	5.02		4.99		-0.60	-0.03	Ok - abs diff < 4x RL
Lead	2.59		2.29		-12.30	-0.30	Ok - abs diff < 4x RL
Mercury	0.0671	U	0.0678	U	1.04		Ok - both ND
Nickel	1.97		1.87		-5.21	-0.10	Ok - abs diff < 4x RL
Selenium	5.49	U	5.67	U	3.23		Ok - both ND
Silver	1.1	U	1.13	U	2.69		Ok - both ND
Thallium	3.29	U	3.4	U	3.29		Ok - both ND
Vanadium	7.81		7.22		-7.85		Ok - RPD < 50%
Zinc	9.61		8.73		-9.60	-0.88	Ok - abs diff < 4x RL

Field Duplicate Evaluation

SDG: 620100801 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-03-0406**		**2023-FD-05**				
	620-10080-22		**620-10080-32**				
10:2 FTS	2.28	U	2.18	U	-4.48		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.684	U	0.655	U	-4.33		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.28	U	2.18	U	-4.48		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.28	U	2.18	U	-4.48		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.42	U	3.27	U	-4.48		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.28	U	2.18	U	-4.48		Ok - both ND
6:2 Fluorotelomer sulfonate	2.28	U	2.18	U	-4.48		Ok - both ND
8:2 Fluorotelomer sulfonate	3.42	U	3.27	U	-4.48		Ok - both ND
9Cl-PF3ONS	2.28	U	2.18	U	-4.48		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.28	U	2.18	U	-4.48		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.28	U	2.18	U	-4.48		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	2.28	U	2.18	U	-4.48		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.28	U	2.18	U	-4.48		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.28	U	2.18	U	-4.48		Ok - both ND
(PFBS)	2.28	U	2.18	U	-4.48		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.28	U	2.18	U	-4.48		Ok - both ND
Perfluorodecane Sulfonate	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.28	U	2.18	U	-4.48		Ok - both ND
(PFDoA)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluoroheptane sulfonate	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorohexadecanoic acid	0.684	U	0.655	U	-4.33		Ok - both ND
(PFHxS)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorononanesulfonic acid	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorononanoic acid (PFNA)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.684	U	0.655	U	-4.33		Ok - both ND
(PFTrDA)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorooctadecanoic acid	0.684	U	0.655	U	-4.33		Ok - both ND
(PFOS)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluorooctylsulfonamide	0.684	U	0.655	U	-4.33		Ok - both ND
Perfluoropentanoic Acid	0.684	U	0.655	U	-4.33		Ok - both ND
(PFPeS)	0.684	U	0.655	U	-4.33		Ok - both ND
(PFUna)	0.684	U	0.655	U	-4.33		Ok - both ND



620-10080 Chain of Custody

10080

Chain of Custody Record

eurofins | Environment Testing

Client Contact: Bridget Fortier	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.7
	Phone:	E-Mail:	State of Origin:	Page: Page 7 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	EPH Mass DEP	Total Number of containers	Special Instructions/Note:
				Preservation Code:				FJ		F						
01	2023-MW-07-0002'	3/1/23	14:05	G	Solid		Y	✓	✓	✓	✓	✓	✓		21	
02	2023-MW-07-0204'	↓	14:10	↓	Solid			✓	✓	✓	✓	✓	✓		7	
03	2023-MW-07-0406'	↓	14:15	↓	Solid			✓	✓	✓	✓	✓	✓		7	
04	2023-MW-07-0608'	↓	14:20	↓	Solid			✓	✓	✓	✓	✓	✓		7	
05	2023-MW-07-0810'	↓	14:25	↓	Solid			✓	✓	✓	✓	✓	✓		7	
06	2023-MW-07-1012'	↓	14:30	↓	Solid			✓	✓	✓	✓	✓	✓		7	
07	2023-SS-06	2/27/23	09:05	↓	Solid		Y	✓			✓	✓		✓	15	
08	2023-SS-05	↓	09:50	↓	Solid			✓			✓	✓		✓	5	
09	2023-SS-04	↓	09:45	↓	Solid			✓			✓	✓		✓	5	
10	2023-SS-03	↓	09:20	↓	Solid			✓			✓	✓		✓	5	
11	2023-SS-02	↓	09:30	↓	Solid			✓			✓	✓		✓	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/2/23 13:35		[signature]	3/2/23 13:35	ENE
[signature]	3/2/23 16:16	ENE	[signature]	3/2/23 16:16	ENE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.6 to 1.8 #C

Ver: 06/08/2021

3/28/2023

10080

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 8
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 8 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9657	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	EPH MassDEP	Total Number of containers	Special Instructions/Note:
				Preservation Code:				F1		F						
12	2023-SS-01	2/27/23	09:35	G	Solid			✓			✓	✓		✓	5	
13	2023-FD-02	2/27/23	08 05	G	Solid			✓			✓	✓		✓	5	
14	2023-SB-04-0002'	3/2/23	09:10		Solid			✓	✓	✓	✓	✓	✓		7	
15	2023-SB-04-0204'		09:15		Solid			✓	✓	✓	✓	✓	✓		7	
16	2023-SB-04-0406'		09:20		Solid			✓	✓	✓	✓	✓	✓		7	
17	2023-SB-04-0608'		09:25		Solid			✓	✓	✓	✓	✓	✓		7	
18	2023-SB-04-0810'		09:30		Solid			✓	✓	✓	✓	✓	✓		7	
19	2023-SB-04-1012'		09:35		Solid			✓	✓	✓	✓	✓	✓		7	
20	2023-SB-03-0002'		10:05		Solid			✓	✓	✓	✓	✓	✓		7	
21	2023-SB-03-0204'		10 10		Solid			✓	✓	✓	✓	✓	✓		7	
22	2023-SB-03-0406'		10:15		Solid			✓	✓	✓	✓	✓	✓		7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify) EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	DM	3/2/23 13:35			3/2/23 13:35	ENE
2		3/2/23 16:16	ENE		3/2/23 16:16	ENE
3						

Cooler Temperature(s) °C and Other Remarks:

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

100 PO

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 9
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 9 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537	EPH MassDEP	Total Number of containers	Special Instructions/Note:
	Preservation Code:															
23	2023-SB-03-0608'	3/2/23	10:20	G	Solid			✓	✓	✓	✓	✓	✓		7	
24	2023-SB-03-0810'		10:25		Solid			✓	✓	✓	✓	✓	✓		7	
25	2023-SB-03-1012'		10:30		Solid			✓	✓	✓	✓	✓	✓		7	
26	2023-MW-04-0002'		11:10		Solid			✓	✓	✓	✓	✓	✓		7	
27	2023-MW-04-0204'		11:15		Solid			✓	✓	✓	✓	✓	✓		7	
28	2023-MW-04-0406'		11:20		Solid		Y	✓	✓	✓	✓	✓	✓		21	
29	2023-MW-04-0608'		11:25		Solid			✓	✓	✓	✓	✓	✓		7	
30	2023-MW-04-0810'		11:30		Solid			✓	✓	✓	✓	✓	✓		7	
31	2023-MW-04-1012'		11:35		Solid			✓	✓	✓	✓	✓	✓		7	
32	2023-FD-05		08:00		Solid			✓	✓	✓	✓	✓	✓		7	
33	TRIP BLANK-04		—		Solid			✓								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: dmcgouth@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
PWL	3/2/23 13:35			3/2/23 13:35	ENE
	3/2/23 16:16	ENE		3/2/23 16:16	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6 @ 1.8 TMB

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-07-0002' (620-10080-1)	3/1/23	14:05 Eastern		Solid			X	X	X	2	
2023-MW-07-0002' (620-10080-1MS)	3/1/23	14:05 Eastern	MS	Solid			X	X	X	2	
2023-MW-07-0002' (620-10080-1MSD)	3/1/23	14:05 Eastern	MSD	Solid			X	X	X	2	
2023-MW-07-0204' (620-10080-2)	3/1/23	14:10 Eastern		Solid			X	X	X	2	
2023-MW-07-0406' (620-10080-3)	3/1/23	14:15 Eastern		Solid			X	X	X	2	
2023-MW-07-0608' (620-10080-4)	3/1/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-07-0810' (620-10080-5)	3/1/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-07-1012' (620-10080-6)	3/1/23	14:30 Eastern		Solid			X	X	X	2	
2023-SS-06 (620-10080-7)	2/27/23	09:05 Eastern		Solid			X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 12:55	Eurf			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					3/3/23 10:55	

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

IM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SS-06 (620-10080-7MS)	2/27/23	09:05 Eastern	MS	Solid			X	X		1	
2023-SS-06 (620-10080-7MSD)	2/27/23	09:05 Eastern	MSD	Solid			X	X		1	
2023-SS-05 (620-10080-8)	2/27/23	09:50 Eastern		Solid			X	X		1	
2023-SS-04 (620-10080-9)	2/27/23	09:45 Eastern		Solid			X	X		1	
2023-SS-03 (620-10080-10)	2/27/23	09:20 Eastern		Solid			X	X		1	
2023-SS-02 (620-10080-11)	2/27/23	09:30 Eastern		Solid			X	X		1	
2023-SS-01 (620-10080-12)	2/27/23	09:35 Eastern		Solid			X	X		1	
2023-FD-02 (620-10080-13)	2/27/23	08:05 Eastern		Solid			X	X		1	
2023-SB-04-0002' (620-10080-14)	3/2/23	09:10 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/2/23 12:51	ET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/3/23 10:55	Company ET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023	Analysis Requested		Preservation Codes:
City: Lancaster	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			Other:
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-04-0204' (620-10080-15)	3/2/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-04-0406' (620-10080-16)	3/2/23	09:20 Eastern		Solid			X	X	X	2	
2023-SB-04-0608' (620-10080-17)	3/2/23	09:25 Eastern		Solid			X	X	X	2	
2023-SB-04-0810' (620-10080-18)	3/2/23	09:30 Eastern		Solid			X	X	X	2	
2023-SB-04-1012' (620-10080-19)	3/2/23	09:35 Eastern		Solid			X	X	X	2	
2023-SB-03-0002' (620-10080-20)	3/2/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-03-0204' (620-10080-21)	3/2/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-03-0406' (620-10080-22)	3/2/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-03-0608' (620-10080-23)	3/2/23	10:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company
	3/2/23 12:53	ET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/3/23 10:35	Company ET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023	Analysis Requested		Preservation Codes:
City: Lancaster	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			Other:
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-04-0204' (620-10080-15)	3/2/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-04-0406' (620-10080-16)	3/2/23	09:20 Eastern		Solid			X	X	X	2	
2023-SB-04-0608' (620-10080-17)	3/2/23	09:25 Eastern		Solid			X	X	X	2	
2023-SB-04-0810' (620-10080-18)	3/2/23	09:30 Eastern		Solid			X	X	X	2	
2023-SB-04-1012' (620-10080-19)	3/2/23	09:35 Eastern		Solid			X	X	X	2	
2023-SB-03-0002' (620-10080-20)	3/2/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-03-0204' (620-10080-21)	3/2/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-03-0406' (620-10080-22)	3/2/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-03-0608' (620-10080-23)	3/2/23	10:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company
	3/2/23 12:53	ET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/3/23 10:35	Company ET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-03-0810' (620-10080-24)	3/2/23	10:25 Eastern		Solid			X	X	X	2	
2023-SB-03-1012' (620-10080-25)	3/2/23	10:36 Eastern		Solid			X	X	X	2	
2023-MW-04-0002' (620-10080-26)	3/2/23	11:10 Eastern		Solid			X	X	X	2	
2023-MW-04-0204' (620-10080-27)	3/2/23	11:15 Eastern		Solid			X	X	X	2	
2023-MW-04-0406' (620-10080-28)	3/2/23	11:20 Eastern		Solid			X	X	X	2	
2023-MW-04-0406' (620-10080-28MS)	3/2/23	11:20 Eastern	MS	Solid			X	X	X	2	
2023-MW-04-0406' (620-10080-28MSD)	3/2/23	11:20 Eastern	MSD	Solid			X	X	X	2	
2023-MW-04-0608' (620-10080-29)	3/2/23	11:25 Eastern		Solid			X	X	X	2	
2023-MW-04-0810' (620-10080-30)	3/2/23	11:30 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/2/23 17:53	EUG			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/3/23 10:55	Company EUG

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-04-1012' (620-10080-31)	3/2/23	11:35 Eastern		Solid			X	X	X	2	
2023-FD-05 (620-10080-32)	3/2/23	08:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/2/23 13:53	Company: EUE	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/3/23 10:55	Company: EUET
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4 2.8		

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-07-0002' (620-10080-1)	3/1/23	14:05 Eastern		Solid			X	X	1	
2023-MW-07-0002' (620-10080-1MS)	3/1/23	14:05 Eastern	MS	Solid			X	X	1	
2023-MW-07-0002' (620-10080-1MSD)	3/1/23	14:05 Eastern	MSD	Solid			X	X	1	
2023-MW-07-0204' (620-10080-2)	3/1/23	14:10 Eastern		Solid			X	X	1	
2023-MW-07-0406' (620-10080-3)	3/1/23	14:15 Eastern		Solid			X	X	1	
2023-MW-07-0608' (620-10080-4)	3/1/23	14:20 Eastern		Solid			X	X	1	
2023-MW-07-0810' (620-10080-5)	3/1/23	14:25 Eastern		Solid			X	X	1	
2023-MW-07-1012' (620-10080-6)	3/1/23	14:30 Eastern		Solid			X	X	1	
2023-SB-04-0002' (620-10080-14)	3/2/23	09:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/1/23 12:55	ENG	[signature]	3-4-23 1000	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-04-0204' (620-10080-15)	3/2/23	09:15 Eastern		Solid			X	X	1	
2023-SB-04-0406' (620-10080-16)	3/2/23	09:20 Eastern		Solid			X	X	1	
2023-SB-04-0608' (620-10080-17)	3/2/23	09:25 Eastern		Solid			X	X	1	
2023-SB-04-0810' (620-10080-18)	3/2/23	09:30 Eastern		Solid			X	X	1	
2023-SB-04-1012' (620-10080-19)	3/2/23	09:35 Eastern		Solid			X	X	1	
2023-SB-03-0002' (620-10080-20)	3/2/23	10:05 Eastern		Solid			X	X	1	
2023-SB-03-0204' (620-10080-21)	3/2/23	10:10 Eastern		Solid			X	X	1	
2023-SB-03-0406' (620-10080-22)	3/2/23	10:15 Eastern		Solid			X	X	1	
2023-SB-03-0608' (620-10080-23)	3/2/23	10:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/8/23 1255	Company: Cu4	Received by: See Pg 1	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-03-0810' (620-10080-24)	3/2/23	10:25 Eastern		Solid			X	X	1	
2023-SB-03-1012' (620-10080-25)	3/2/23	10:36 Eastern		Solid			X	X	1	
2023-MW-04-0002' (620-10080-26)	3/2/23	11:10 Eastern		Solid			X	X	1	
2023-MW-04-0204' (620-10080-27)	3/2/23	11:15 Eastern		Solid			X	X	1	
2023-MW-04-0406' (620-10080-28)	3/2/23	11:20 Eastern		Solid			X	X	1	
2023-MW-04-0406' (620-10080-28MS)	3/2/23	11:20 Eastern	MS	Solid			X	X	1	
2023-MW-04-0406' (620-10080-28MSD)	3/2/23	11:20 Eastern	MSD	Solid			X	X	1	
2023-MW-04-0608' (620-10080-29)	3/2/23	11:25 Eastern		Solid			X	X	1	
2023-MW-04-0810' (620-10080-30)	3/2/23	11:30 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/13/23 [illegible]	Company: [illegible]	Received by: see pg 1	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-04-1012' (620-10080-31)	3/2/23	11:35 Eastern		Solid			X	X	1	
2023-FD-05 (620-10080-32)	3/2/23	08:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/10/23 13:55	Company: EWE	Received by: See pg 1	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

June 5, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620101491
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review:

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 (mod.)

33/Soil Samples: 2023-MW-08-0002, 2023-MW-08-0204, 2023-MW-08-0406, 2023-MW-08-0608, 2023-MW-08-0810, 2023-MW-08-1012, 2023-SB-10-0002, 2023-SB-10-0204, 2023-SB-10-0406, 2023-SB-10-0608, 2023-SB-10-0810, 2023-SB-10-1012, 2023-SB-11-0002, 2023-SB-11-0204, 2023-SB-11-0406, 2023-SB-11-0608, 2023-SB-11-0810, 2023-SB-11-1012, 2023-SB-09-0002, 2023-SB-09-0204, 2023-SB-09-0406, 2023-SB-09-0608, 2023-SB-09-0810, 2023-SB-09-1012, 2023-MW-09-0002, 2023-MW-09-0204, 2023-MW-09-0406, 2023-MW-09-0608, 2023-MW-09-0810, 2023-MW-09-1012, 2023-FD-08, 2023-FD-09, 2023-MW-03-1012
2/Field Duplicate Pairs: 2023-MW-08-0406 / 2023-FD-08 and 2023-SB-09-1012 / 2023-FD-09
1/Solid Trip Blank: Trip Blank-08

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 6, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D, Polychlorinated Biphenyls by EPA Method 8082, VPHs by MassDEP-VPH, MCP-14 Metals by EPA Method 6010D/7471B, and PFAS by EPA Method 537 mod., by Eurofins New England in North Kingstown, RI, Eurofins Northeast in Amherst, NY (MassDEP-VPH analyses), and Eurofins Lancaster Laboratories in Lancaster, PA (for MCP-14 metals/mercury and PFAS analyses).

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

Methods Data Review (November 2020); USEPA's Data and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Preservation and Technical Holding Times
	• Blanks
	• Surrogates (organic analyses only)
NA	• Internal Standards
	• Matrix Spike Analysis
	• Laboratory Duplicates
	• Laboratory Control Samples (LCS)
*	• Field Duplicates
	• ICP Serial Dilutions (metals only)
NA	• Performance Evaluation (PE) Samples
NA	• Target Analyte Identification
*	• Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Non-detect results for 2 PFAS compounds were rejected (R) in sample 2023-FD-08 due to low surrogate recovery.

Reporting limits (RLs) for non-detect results for 1,4-diclorobenzene and hexachlorobenzene exceed the project action limits (PALs) of 1 mg/kg and 0.7 mg/kg, respectively, in two soil boring samples. RLs for non-detect MCP-14 metals/mercury results met the PALs for the site except for thallium RLs in several samples, where the PAL of 8 mg/kg was exceeded due to a 10x dilution factor required to report other analytes. Site objectives may be impacted.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for laboratory blank contamination, and surrogate and MS/MSD exceedances.

SVOCs:
Results for several SVOCs were qualified for surrogate, MS/MSD, and LCS/LCSD exceedances.

PCBs:
Results were qualified due to surrogate exceedances.

MassDEP-VPH:
Results were qualified for laboratory blank contamination.

MCP-14 Metals and Mercury:
Results were qualified for MS/MSD exceedances, serial dilutions, and laboratory duplicate imprecision.

PFAS:
Results for two PFAS compounds were rejected in sample 2023-FD-08 due to low surrogate recovery. Results in several samples were also qualified for surrogate recovery.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Antimony	mg/kg	5.15 U	5.89 UJ	4.88 UJ	4.43 UJ	4.7 UJ
Arsenic	mg/kg	11.7	3.4 J	2.93 U	3.94	3.05
Barium	mg/kg	32.7	46.4 J	24.1 J	109 J	33.7 J
Beryllium	mg/kg	0.222 J	0.552 J	0.335 J	1.62 J	0.381 J
Cadmium	mg/kg	0.222 J	0.589 U	0.488 U	0.443 U	0.47 U
Chromium	mg/kg	7.77	6.22 J	5.69 J	31.2 J	7.68 J
Copper	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	35.4 J+	104 J	3.98 J	10.1 J	4.67 J
Mercury	mg/kg	0.0628	0.0707 U	0.0697 U	0.0696 U	0.0597 U
Nickel	mg/kg	5.09	2.91 J	2.29 J	15.6 J	3.38 J
Selenium	mg/kg	5.15 U	5.89 U	4.88 U	4.43 U	4.7 U
Silver	mg/kg	1.03 U	1.18 U	0.976 U	0.433 J	0.941 U
Thallium	mg/kg	3.09 U	3.54 U	2.93 U	26.6 U	28.2 U
Vanadium	mg/kg	9.93	8.58 J	6.96 J	50.8 J	14.5 J
Zinc	mg/kg	37.4	23 J	19.5 J	65.9 J	17 J

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Antimony	mg/kg	5.71 UJ	4.69 UJ	5.64 UJ	5.13 UJ	5.05 UJ
Arsenic	mg/kg	3.14 J	1.66 J	1.92 J	3.5	2.89 J
Barium	mg/kg	17.9 J	21.1 J	23.2 J	64.9 J	49.3 J
Beryllium	mg/kg	0.381 J	0.262 J	0.388 J	0.796 J	0.675 J
Cadmium	mg/kg	0.571 U	0.469 U	0.564 U	0.513 U	0.505 U
Chromium	mg/kg	4.8 J	5.28 J	8.28 J	17.5 J	15.4 J
Copper	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	5.93 J	5.55 J	7.58 J	6.66 J	6.14 J
Mercury	mg/kg	0.0698 U	0.0715 U	0.0662 U	0.0653 U	0.0774 U
Nickel	mg/kg	2.87 J	1.95 J	2.45 J	10.2 J	6.16 J
Selenium	mg/kg	5.71 U	4.69 U	5.64 U	5.13 U	5.05 U
Silver	mg/kg	1.14 U	0.938 U	1.13 U	1.03 U	1.01 U
Thallium	mg/kg	3.42 U	2.82 U	3.39 U	30.8 U	30.3 U
Vanadium	mg/kg	6.62 J	6.24 J	6.33 J	27.2 J	17.7 J
Zinc	mg/kg	16.1 J	15.4 J	13.4 J	34.4 J	22 J

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Antimony	mg/kg	5.12 UJ	3.75 U	4.71 UJ	4.94 UJ	5.36 UJ
Arsenic	mg/kg	3.74	4.03	3.21	3.45	7.73
Barium	mg/kg	29 J	15.1	28.8 J	24.4 J	75.6 J
Beryllium	mg/kg	0.509 J	0.206 J	0.396 J	0.318 J	1.09 J
Cadmium	mg/kg	0.512 U	0.375 U	0.471 U	0.494 U	0.536 U
Chromium	mg/kg	11.8 J	4.18	8.18 J	6.14 J	20.4 J
Copper	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	10.1 J	3.68 J+	12.3 J	8.25 J	8.01 J
Mercury	mg/kg	0.0654 U	0.0301 J	0.0645 U	0.0622 U	0.0683 U
Nickel	mg/kg	6.87 J	2.01	4.32 J	3.88 J	11.9 J
Selenium	mg/kg	5.12 U	3.75 U	4.71 U	4.94 U	5.36 U
Silver	mg/kg	1.02 U	0.75 U	0.942 U	0.987 U	1.07 U
Thallium	mg/kg	3.07 U	1.29 J	2.83 U	2.96 U	32.2 U
Vanadium	mg/kg	17.1 J	7.15	12.4 J	9.91 J	33.9 J
Zinc	mg/kg	22.3 J	13.1	21.3 J	14.7 J	48.1 J

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Antimony	mg/kg	4.55 UJ	4.86 UJ	5.2 U	4.99 U	4.33 U
Arsenic	mg/kg	12.5	3.59	5.25	3.47	3.02
Barium	mg/kg	92.1 J	25.3 J	129	39.5	19.1
Beryllium	mg/kg	1.55 J	0.298 J	0.576	0.341 J	0.208 J
Cadmium	mg/kg	0.455 U	0.486 U	0.52 U	0.499 U	0.433 U
Chromium	mg/kg	25.5 J	5.27 J	7.7	5.14	4.93
Copper	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	9.85 J	6.78 J	50.9 J+	10.2 J+	2.45 J+
Mercury	mg/kg	0.0706 U	0.0689 U	0.0256 J	0.0625 U	0.0649 U
Nickel	mg/kg	15.6 J	2.78 J	6.52	2.67	1.94
Selenium	mg/kg	4.55 U	4.86 U	5.2 U	4.99 U	4.33 U
Silver	mg/kg	0.91 U	0.972 U	1.04 U	0.998 U	0.867 U
Thallium	mg/kg	27.3 U	2.92 U	3.12 U	2.99 U	2.6 U
Vanadium	mg/kg	45.4 J	8.98 J	12.7	7.95	7.09
Zinc	mg/kg	66.9 J	17.5 J	63.5	15.3	8.96

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Antimony	mg/kg	4.19 U	4.53 U	4.4 U	5.68 U	5.04 U
Arsenic	mg/kg	2.86	7.33	2.01 J	5.07	2.77 J
Barium	mg/kg	15.8	53.6	13.5	42.6	12.6
Beryllium	mg/kg	0.19 J	0.847	0.368 J	0.519 J	0.491 J
Cadmium	mg/kg	0.419 U	0.453 U	0.44 U	0.568 U	0.504 U
Chromium	mg/kg	4.22	15.3	5.3	12.1	8.4
Copper	mg/kg	NA	NA	NA	NA	NA
Lead	mg/kg	2.49 J+	5.9 J+	6.93 J+	4.77 J+	8.56 J+
Mercury	mg/kg	0.0735 U	0.0743 U	0.0534 J	0.0743 U	0.0385 J
Nickel	mg/kg	1.86	8.03	2.31	5.52	2.95
Selenium	mg/kg	4.19 U	4.53 U	1.49 J	5.68 U	5.04 U
Silver	mg/kg	0.839 U	0.905 U	0.881 U	1.14 U	1.01 U
Thallium	mg/kg	2.52 U	27.2 U	1.85 J	34.1 U	3.02 U
Vanadium	mg/kg	6.76	25.4	7.98	18.4	8.76
Zinc	mg/kg	12.6	34.4	14.5	26.7	17.5

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Antimony	mg/kg	4.22 UJ	5.25 U	4.48 U	4.06 U	4.55 U
Arsenic	mg/kg	4.36	6.25	2.69 U	2.44 U	1.74 J
Barium	mg/kg	23 J	109	12.4	12.1	12.7
Beryllium	mg/kg	0.305 J	1.44	0.218 J	0.149 J	0.11 J
Cadmium	mg/kg	0.422 U	0.525 U	0.448 U	0.406 U	0.455 U
Chromium	mg/kg	5.33 J	32	5.13	4.89	4.82
Copper	mg/kg	NA	27.8	NA	NA	NA
Lead	mg/kg	6.18 J	10.2 J+	3.91 J+	3.94 J+	3.17 J+
Mercury	mg/kg	0.0708 U	0.0703 U	0.0255 J	0.0679 U	0.0687 U
Nickel	mg/kg	3.3 J	21	3.17	2.69	2.76
Selenium	mg/kg	4.22 U	5.25 U	4.48 U	4.06 U	4.55 U
Silver	mg/kg	0.844 U	0.501 J	0.896 U	0.812 U	0.91 U
Thallium	mg/kg	2.53 U	31.5 U	1.37 J	1.96 J	1.31 J
Vanadium	mg/kg	8.91 J	53.3	6.83	6.41	5.88
Zinc	mg/kg	16.7 J	74.6	14.2	16.5	11.7

DATA SUMMARY TABLE

Analysis		Metals in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
Antimony	mg/kg	4.58 UJ	4.58 UJ	4.31 UJ
Arsenic	mg/kg	4.62	8.14	7.56
Barium	mg/kg	90.7 J	282 J	240 J
Beryllium	mg/kg	0.439 J	0.835 J	0.567 J
Cadmium	mg/kg	0.318 J	0.326 J	0.376 J
Chromium	mg/kg	7.56 J	9.64 J	13.1 J
Copper	mg/kg	NA	NA	NA
Lead	mg/kg	30.8 J	65 J	99.4 J
Mercury	mg/kg	0.0395 J	0.0572 J	0.03 J
Nickel	mg/kg	6.9 J	16.4 J	7.76 J
Selenium	mg/kg	4.58 U	4.58 U	4.31 U
Silver	mg/kg	0.916 U	0.917 U	0.863 U
Thallium	mg/kg	1.93 J	1.63 J	1.75 J
Vanadium	mg/kg	12.4 J	14.5 J	13.4 J
Zinc	mg/kg	106 J	148 J	181 J

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Aroclor 1016	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U
Aroclor 1221	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U
Aroclor 1232	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U
Aroclor 1242	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U
Aroclor 1248	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U
Aroclor 1254	mg/kg	0.913	0.0235 U	0.0223 U	0.024 U	0.656
Aroclor 1260	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U
Aroclor 1262	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U
Aroclor 1268	mg/kg	0.0212 U	0.0235 U	0.0223 U	0.024 U	0.0182 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Aroclor 1016	mg/kg	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1221	mg/kg	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1232	mg/kg	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1242	mg/kg	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1248	mg/kg	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1254	mg/kg	0.0511	0.0225 U	0.261	0.0224 U	0.0909
Aroclor 1260	mg/kg	0.0186 J	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1262	mg/kg	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1268	mg/kg	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Aroclor 1016	mg/kg	0.0221 U	0.0208 U	0.0214 U	0.0205 U	0.0229 U
Aroclor 1221	mg/kg	0.0221 U	0.0208 U	0.0214 U	0.0205 U	0.0229 U
Aroclor 1232	mg/kg	0.0221 U	0.0208 U	0.0214 U	0.0205 U	0.0229 U
Aroclor 1242	mg/kg	0.0221 U	0.0208 U	0.0214 U	0.0205 U	0.0229 U
Aroclor 1248	mg/kg	0.0221 U	0.0208 U	0.0214 U	0.0205 U	0.0229 U
Aroclor 1254	mg/kg	0.0703 J+	0.0208 U	0.032	0.416 J+	0.0229 U
Aroclor 1260	mg/kg	0.032 J+	0.0208 U	0.0214 U	0.0227 J+	0.0229 U
Aroclor 1262	mg/kg	0.0221 U	0.0208 U	0.0214 U	0.0205 U	0.0229 U
Aroclor 1268	mg/kg	0.0221 U	0.0208 U	0.0214 U	0.0205 U	0.0229 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Aroclor 1016	mg/kg	0.0231 U	0.0235 U	0.0215 U	0.0207 U	0.0192 U
Aroclor 1221	mg/kg	0.0231 U	0.0235 U	0.0215 U	0.0207 U	0.0192 U
Aroclor 1232	mg/kg	0.0231 U	0.0235 U	0.0215 U	0.0207 U	0.0192 U
Aroclor 1242	mg/kg	0.0231 U	0.0235 U	0.0215 U	0.0207 U	0.0192 U
Aroclor 1248	mg/kg	0.0231 U	0.0235 U	0.0215 U	0.0207 U	0.0192 U
Aroclor 1254	mg/kg	0.0231 U	0.0235 U	0.185	0.0207 U	0.0192 U
Aroclor 1260	mg/kg	0.0231 U	0.0235 U	0.0707	0.0207 U	0.0192 U
Aroclor 1262	mg/kg	0.0231 U	0.0235 U	0.0215 U	0.0207 U	0.0192 U
Aroclor 1268	mg/kg	0.0231 U	0.0235 U	0.0215 U	0.0207 U	0.0192 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Aroclor 1016	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U
Aroclor 1221	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U
Aroclor 1232	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U
Aroclor 1242	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U
Aroclor 1248	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U
Aroclor 1254	mg/kg	0.0226 U	0.0247 U	0.0301	0.0242 U	0.032
Aroclor 1260	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U
Aroclor 1262	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U
Aroclor 1268	mg/kg	0.0226 U	0.0247 U	0.0223 U	0.0242 U	0.0221 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Aroclor 1016	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1221	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1232	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1242	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1248	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1254	mg/kg	0.031	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1260	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1262	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1268	mg/kg	0.023 U	0.024 U	0.0223 U	0.0225 U	0.022 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
Aroclor 1016	mg/kg	0.0204 U	0.0237 U	0.0228 U
Aroclor 1221	mg/kg	0.0204 U	0.0237 U	0.0228 U
Aroclor 1232	mg/kg	0.0204 U	0.0237 U	0.0228 U
Aroclor 1242	mg/kg	0.0204 U	0.0237 U	0.0228 U
Aroclor 1248	mg/kg	0.0204 U	0.0237 U	0.0228 U
Aroclor 1254	mg/kg	0.148	0.0221 J	0.0228 U
Aroclor 1260	mg/kg	0.0204 U	0.0211 J	0.0228 U
Aroclor 1262	mg/kg	0.0204 U	0.0237 U	0.0228 U
Aroclor 1268	mg/kg	0.0204 U	0.0237 U	0.0228 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
10:2 FTS	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.09 U	3.54 U	3.63 U	3.49 U	3.13 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.06 UJ	2.36 U	2.42 U	2.33 U	2.09 U
6:2 Fluorotelomer sulfonate	ug/kg	2.06 UJ	2.36 U	2.42 U	2.33 U	2.09 U
8:2 Fluorotelomer sulfonate	ug/kg	3.09 UJ	3.54 U	3.63 U	3.49 U	3.13 U
9Cl-PF3ONS	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
Perfluorodecane Sulfonate	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
10:2 FTS	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.2 U	3.47 U	3.26 U	3.38 U	3.71 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
6:2 Fluorotelomer sulfonate	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
8:2 Fluorotelomer sulfonate	ug/kg	3.2 U	3.47 U	3.26 U	3.38 U	3.71 U
9Cl-PF3ONS	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.14 U	2.31 UJ	2.17 UJ	2.25 UJ	2.48 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.14 U	2.31 UJ	2.17 UJ	2.25 UJ	2.48 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorodecane Sulfonate	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
10:2 FTS	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.35 U	3.04 U	3.01 U	3.16 U	3.7 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
6:2 Fluorotelomer sulfonate	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
8:2 Fluorotelomer sulfonate	ug/kg	3.35 U	3.04 U	3.01 U	3.16 U	3.7 U
9Cl-PF3ONS	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.23 UJ	2.02 UJ	2.01 UJ	2.11 UJ	2.47 UJ
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.23 UJ	2.02 UJ	2.01 UJ	2.11 UJ	2.47 UJ
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
Perfluorodecane Sulfonate	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
10:2 FTS	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.48 U	3.51 U	3.27 U	3.14 U	3.23 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
6:2 Fluorotelomer sulfonate	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
8:2 Fluorotelomer sulfonate	ug/kg	3.48 U	3.51 U	3.27 U	3.14 U	3.23 U
9Cl-PF3ONS	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.32 U	2.34 U	2.18 UJ	2.1 UJ	2.15 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.32 U	2.34 U	2.18 UJ	2.1 UJ	2.15 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
Perfluorodecane Sulfonate	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
10:2 FTS	ug/kg	2.4 U	2.33 U	2.05 U	2.25 U	2.15 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.4 U	2.33 U	2.05 U	2.25 U	2.15 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.4 U	2.33 U	2.05 U	2.25 U	2.15 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.6 U	3.5 U	3.08 U	3.38 U	3.23 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.4 U	2.33 U	2.05 UJ	2.25 U	2.15 U
6:2 Fluorotelomer sulfonate	ug/kg	2.4 U	2.33 U	2.05 UJ	2.25 U	2.15 U
8:2 Fluorotelomer sulfonate	ug/kg	3.6 U	3.5 U	3.08 UJ	3.38 U	3.23 U
9Cl-PF3ONS	ug/kg	2.4 U	2.33 U	2.05 U	2.25 U	2.15 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.4 U	2.33 U	2.05 UJ	2.25 U	2.15 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.4 U	2.33 UJ	2.05 UJ	2.25 UJ	R
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.4 U	2.33 U	2.05 U	2.25 U	2.15 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.4 U	2.33 UJ	2.05 UJ	2.25 UJ	R
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.4 U	2.33 U	2.05 U	2.25 U	2.15 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.4 U	2.33 U	2.05 UJ	2.25 U	2.15 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.4 U	2.33 U	2.05 UJ	2.25 U	2.15 UJ
Perfluorodecane Sulfonate	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
10:2 FTS	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.39 U	3.54 U	3.52 U	3.44 U	3.29 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
6:2 Fluorotelomer sulfonate	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
8:2 Fluorotelomer sulfonate	ug/kg	3.39 U	3.54 U	3.52 U	3.44 U	3.29 U
9Cl-PF3ONS	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.26 U	2.36 UJ	2.35 UJ	2.29 U	2.19 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.26 U	2.36 UJ	2.35 UJ	2.29 U	2.19 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
Perfluorodecane Sulfonate	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
10:2 FTS	ug/kg	2.25 U	2.29 U	2.22 U
11Cl-PF3OUdS (F53B Minor)	ug/kg	0.676 U	0.688 U	0.667 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.25 U	2.29 U	2.22 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ug/kg	2.25 U	2.29 U	2.22 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ug/kg	3.38 U	3.44 U	3.34 U
4:2 Fluorotelomer sulfonic acid	ug/kg	2.25 U	2.29 U	2.22 U
6:2 Fluorotelomer sulfonate	ug/kg	2.25 U	2.29 U	2.22 U
8:2 Fluorotelomer sulfonate	ug/kg	3.38 U	3.44 U	3.34 U
9Cl-PF3ONS	ug/kg	2.25 U	2.29 U	2.22 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ug/kg	2.25 U	2.29 U	2.22 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	2.25 U	2.29 U	2.22 U
N-ethylperfluoro-1-octanesulfonamide	ug/kg	2.25 U	2.29 U	2.22 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	2.25 U	2.29 U	2.22 U
N-methylperfluoro-1-octanesulfonamide	ug/kg	2.25 U	2.29 U	2.22 U
Perfluorobutanesulfonic acid (PFBS)	ug/kg	2.25 U	2.29 U	2.22 U
Perfluorobutanoic Acid (PFBA)	ug/kg	2.25 U	2.29 U	2.22 U
Perfluorodecane Sulfonate	ug/kg	0.676 U	0.688 U	0.667 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.618 UJ	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.06 U	2.36 U	2.42 U	2.33 U	2.09 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluoroheptane sulfonate	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorohexadecanoic acid	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorononanesulfonic acid	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorononanoic acid (PFNA)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorooctadecanoic acid	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluorooctylsulfonamide	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluoropentanoic Acid	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.618 U	0.707 U	0.725 U	0.699 U	0.626 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoroheptane sulfonate	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorohexadecanoic acid	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorononanesulfonic acid	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorononanoic acid (PFNA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctadecanoic acid	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctylsulfonamide	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoropentanoic Acid	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.23 U	2.02 U	2.01 U	2.11 U	2.47 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluoroheptane sulfonate	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorohexadecanoic acid	ug/kg	0.669 U	0.209 J	0.602 U	0.632 U	0.74 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorononanesulfonic acid	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorononanoic acid (PFNA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorooctadecanoic acid	ug/kg	0.669 U	0.34 J	0.602 U	0.632 U	0.74 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluorooctylsulfonamide	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluoropentanoic Acid	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.669 U	0.607 U	0.602 U	0.632 U	0.74 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.32 U	2.34 U	2.18 U	2.1 U	2.15 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluoroheptane sulfonate	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorohexadecanoic acid	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorononanesulfonic acid	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorononanoic acid (PFNA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorooctadecanoic acid	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluorooctylsulfonamide	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluoropentanoic Acid	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.695 U	0.702 U	0.654 U	0.629 U	0.645 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.4 U	2.33 U	2.05 U	2.25 U	2.15 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 UJ
Perfluoroheptane sulfonate	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 UJ
Perfluorohexadecanoic acid	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 UJ
Perfluorononanesulfonic acid	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluorononanoic acid (PFNA)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 UJ
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluorooctadecanoic acid	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 UJ
Perfluorooctylsulfonamide	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluoropentanoic Acid	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 UJ
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.72 U	0.699 U	0.615 U	0.675 U	0.645 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.72 U	0.699 U	0.615 UJ	0.675 U	0.645 UJ

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.26 U	2.36 U	2.35 U	2.29 U	2.19 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluoroheptane sulfonate	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorohexadecanoic acid	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorononanesulfonic acid	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorononanoic acid (PFNA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorooctadecanoic acid	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluorooctylsulfonamide	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluoropentanoic Acid	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.679 U	0.707 U	0.704 U	0.688 U	0.657 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
Perfluorodecanoic Acid (PFDA)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorododecanesulfonic acid (PFDoS)	ug/kg	2.25 U	2.29 U	2.22 U
Perfluorododecanoic Acid (PFDoA)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluoroheptane sulfonate	ug/kg	0.676 U	0.688 U	0.667 U
Perfluoroheptanoic acid (PFHpA)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorohexadecanoic acid	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorohexanoic Acid (PFHxA)	ug/kg	0.676 U	0.238 J	0.667 U
Perfluorononanesulfonic acid	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorononanoic acid (PFNA)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorooctadecanoic acid	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorooctanesulfonic acid (PFOS)	ug/kg	0.448 J	0.414 J	0.667 U
Perfluorooctanoic acid (PFOA)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluorooctylsulfonamide	ug/kg	0.676 U	0.688 U	0.667 U
Perfluoropentanoic Acid	ug/kg	0.676 U	0.688 U	0.667 U
Perfluoropetanesulfonic acid (PFPeS)	ug/kg	0.676 U	0.688 U	0.667 U
Perfluoroundecanoic Acid (PFUna)	ug/kg	0.676 U	0.688 U	0.667 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
1,2,4-Trichlorobenzene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
1,2-Dichlorobenzene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
1,3-Dichlorobenzene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
1,4-Dichlorobenzene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
2,4,5-Trichlorophenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
2,4,6-Trichlorophenol	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
2,4-Dichlorophenol	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
2,4-Dimethylphenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
2,4-Dinitrophenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
2,4-Dinitrotoluene	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 UJ
2,6-Dinitrotoluene	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 UJ
2-Chloronaphthalene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
2-Chlorophenol	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
2-Methylnaphthalene	mg/kg	0.236	0.0805 U	0.0782 U	0.08 U	0.0688 U
2-Methylphenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
2-Nitroaniline	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
2-Nitrophenol	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
3 & 4 Methylphenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
3,3'-Dichlorobenzidine	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,2,4-Trichlorobenzene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,2-Dichlorobenzene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,3-Dichlorobenzene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,4-Dichlorobenzene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,4,5-Trichlorophenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,4,6-Trichlorophenol	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,4-Dichlorophenol	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,4-Dimethylphenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,4-Dinitrophenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,4-Dinitrotoluene	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,6-Dinitrotoluene	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2-Chloronaphthalene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2-Chlorophenol	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2-Methylnaphthalene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
2-Methylphenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2-Nitroaniline	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2-Nitrophenol	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
3 & 4 Methylphenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
3,3'-Dichlorobenzidine	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
1,2,4-Trichlorobenzene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
1,2-Dichlorobenzene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
1,3-Dichlorobenzene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
1,4-Dichlorobenzene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
2,4,5-Trichlorophenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
2,4,6-Trichlorophenol	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
2,4-Dichlorophenol	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
2,4-Dimethylphenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
2,4-Dinitrophenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
2,4-Dinitrotoluene	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
2,6-Dinitrotoluene	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
2-Chloronaphthalene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
2-Chlorophenol	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
2-Methylnaphthalene	mg/kg	0.149 U	0.0712 U	0.355 U	0.63	0.0801 U
2-Methylphenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
2-Nitroaniline	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
2-Nitrophenol	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
3 & 4 Methylphenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
3,3'-Dichlorobenzidine	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
1,2,4-Trichlorobenzene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
1,2-Dichlorobenzene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
1,3-Dichlorobenzene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
1,4-Dichlorobenzene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
2,4,5-Trichlorophenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
2,4,6-Trichlorophenol	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
2,4-Dichlorophenol	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
2,4-Dimethylphenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
2,4-Dinitrophenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
2,4-Dinitrotoluene	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
2,6-Dinitrotoluene	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
2-Chloronaphthalene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
2-Chlorophenol	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
2-Methylnaphthalene	mg/kg	0.0836 U	0.0786 U	0.0741 U	0.0681 U	0.0738 U
2-Methylphenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
2-Nitroaniline	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
2-Nitrophenol	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
3 & 4 Methylphenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
3,3'-Dichlorobenzidine	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
1,2,4-Trichlorobenzene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
1,2-Dichlorobenzene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
1,3-Dichlorobenzene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
1,4-Dichlorobenzene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
2,4,5-Trichlorophenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
2,4,6-Trichlorophenol	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
2,4-Dichlorophenol	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
2,4-Dimethylphenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
2,4-Dinitrophenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
2,4-Dinitrotoluene	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
2,6-Dinitrotoluene	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
2-Chloronaphthalene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
2-Chlorophenol	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
2-Methylnaphthalene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
2-Methylphenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
2-Nitroaniline	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
2-Nitrophenol	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
3 & 4 Methylphenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
3,3'-Dichlorobenzidine	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
1,2,4-Trichlorobenzene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
1,2-Dichlorobenzene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
1,3-Dichlorobenzene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
1,4-Dichlorobenzene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
2,4,5-Trichlorophenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
2,4,6-Trichlorophenol	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
2,4-Dichlorophenol	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
2,4-Dimethylphenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
2,4-Dinitrophenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
2,4-Dinitrotoluene	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
2,6-Dinitrotoluene	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
2-Chloronaphthalene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
2-Chlorophenol	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
2-Methylnaphthalene	mg/kg	0.079 U	0.0801 U	0.0738 U	0.0776 U	0.076 U
2-Methylphenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
2-Nitroaniline	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
2-Nitrophenol	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
3 & 4 Methylphenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
3,3'-Dichlorobenzidine	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
1,2,4,5-Tetrachlorobenzene	mg/kg	0.368 U	0.382 U	0.376 U
1,2,4-Trichlorobenzene	mg/kg	0.368 U	0.382 U	0.376 U
1,2-Dichlorobenzene	mg/kg	0.368 U	0.382 U	0.376 U
1,3-Dichlorobenzene	mg/kg	0.368 U	0.382 U	0.376 U
1,4-Dichlorobenzene	mg/kg	0.368 U	0.382 U	0.376 U
2,2'-Oxybis(1-chloropropane)	mg/kg	0.186 U	0.193 U	0.191 U
2,4,5-Trichlorophenol	mg/kg	0.368 U	0.382 U	0.376 U
2,4,6-Trichlorophenol	mg/kg	0.186 U	0.193 U	0.191 U
2,4-Dichlorophenol	mg/kg	0.186 U	0.193 U	0.191 U
2,4-Dimethylphenol	mg/kg	0.368 U	0.382 U	0.376 U
2,4-Dinitrophenol	mg/kg	0.368 U	0.382 U	0.376 U
2,4-Dinitrotoluene	mg/kg	0.186 U	0.193 U	0.191 U
2,6-Dinitrotoluene	mg/kg	0.186 U	0.193 U	0.191 U
2-Chloronaphthalene	mg/kg	0.368 U	0.382 U	0.376 U
2-Chlorophenol	mg/kg	0.186 U	0.193 U	0.191 U
2-Methylnaphthalene	mg/kg	0.0743 U	0.0604 J	0.0761 U
2-Methylphenol	mg/kg	0.368 U	0.382 U	0.376 U
2-Nitroaniline	mg/kg	0.368 U	0.382 U	0.376 U
2-Nitrophenol	mg/kg	0.186 U	0.193 U	0.191 U
3 & 4 Methylphenol	mg/kg	0.368 U	0.382 U	0.376 U
3,3'-Dichlorobenzidine	mg/kg	0.368 U	0.382 U	0.376 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
3-Nitroaniline	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
4,6-Dinitro-2-methylphenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
4-Bromophenyl-phenylether	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
4-Chloro-3-methylphenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
4-Chloroaniline	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
4-Chlorophenyl-phenylether	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
4-Nitroaniline	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
4-Nitrophenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Acenaphthene	mg/kg	0.0679 U	0.0805 U	0.0782 U	0.08 U	0.0688 U
Acenaphthylene	mg/kg	0.22	0.0805 U	0.0782 U	0.08 U	0.0688 U
Acetophenone	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 UJ
Aniline	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Anthracene	mg/kg	0.257	0.0805 U	0.0782 U	0.08 U	0.0688 U
Azobenzene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Benzidine	mg/kg	0.672 UJ	0.796 U	0.774 U	0.791 U	0.681 UJ
Benzo(a)anthracene	mg/kg	0.755	0.0805 U	0.0782 U	0.08 U	0.0688 U
Benzo(a)pyrene	mg/kg	0.424	0.0805 U	0.0782 U	0.08 U	0.0688 U
Benzo(b)fluoranthene	mg/kg	0.751	0.0805 U	0.0782 U	0.08 U	0.0688 U
Benzo(g,h,i)perylene	mg/kg	0.22	0.0805 U	0.0782 U	0.08 U	0.0688 U
Benzo(k)fluoranthene	mg/kg	0.553	0.0805 U	0.0782 U	0.08 U	0.0688 U
Benzoic Acid	mg/kg	0.336 UJ	0.398 U	0.387 U	0.396 U	0.34 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
3-Nitroaniline	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4,6-Dinitro-2-methylphenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Bromophenyl-phenylether	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Chloro-3-methylphenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Chloroaniline	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
4-Chlorophenyl-phenylether	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Nitroaniline	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
4-Nitrophenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Acenaphthene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Acenaphthylene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Acetophenone	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Aniline	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Anthracene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Azobenzene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Benzidine	mg/kg	0.755 UJ	0.776 UJ	0.729 UJ	0.755 UJ	0.865 UJ
Benzo(a)anthracene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(a)pyrene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(b)fluoranthene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(g,h,i)perylene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(k)fluoranthene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzoic Acid	mg/kg	0.378 UJ	0.388 UJ	0.364 UJ	0.377 UJ	0.433 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
3-Nitroaniline	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
4,6-Dinitro-2-methylphenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
4-Bromophenyl-phenylether	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
4-Chloro-3-methylphenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
4-Chloroaniline	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
4-Chlorophenyl-phenylether	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
4-Nitroaniline	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
4-Nitrophenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Acenaphthene	mg/kg	0.149 U	0.0712 U	0.355 U	0.682	0.0801 U
Acenaphthylene	mg/kg	0.498	0.0712 U	0.64	3.29	0.0648 J
Acetophenone	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
Aniline	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Anthracene	mg/kg	0.368	0.0712 U	0.488	3.63	0.0696 J
Azobenzene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Benzidine	mg/kg	1.47 UJ	0.705 UJ	3.51 UJ	3.63 UJ	0.793 UJ
Benzo(a)anthracene	mg/kg	1.15	0.0712 U	1.38	8.9	0.133
Benzo(a)pyrene	mg/kg	1.31	0.0712 U	1.46	8.33	0.0882
Benzo(b)fluoranthene	mg/kg	1.35	0.0712 U	1.23	9.22	0.0978
Benzo(g,h,i)perylene	mg/kg	0.98	0.0712 U	1.34	5.26	0.063 J
Benzo(k)fluoranthene	mg/kg	0.862	0.0712 U	1.14	4.96	0.0993
Benzoic Acid	mg/kg	0.736 UJ	1.03 J	1.76 UJ	1.81 UJ	0.396 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
3-Nitroaniline	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
4,6-Dinitro-2-methylphenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
4-Bromophenyl-phenylether	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
4-Chloro-3-methylphenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
4-Chloroaniline	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
4-Chlorophenyl-phenylether	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
4-Nitroaniline	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
4-Nitrophenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Acenaphthene	mg/kg	0.0836 U	0.0786 U	0.0741 U	0.0681 U	0.0738 U
Acenaphthylene	mg/kg	0.0836 U	0.134	0.0843	0.0681 U	0.0738 U
Acetophenone	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Aniline	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Anthracene	mg/kg	0.0836 U	0.106	0.0602 J	0.0681 U	0.0738 U
Azobenzene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Benzidine	mg/kg	0.827 UJ	0.778 UJ	0.733 UJ	0.674 UJ	0.731 UJ
Benzo(a)anthracene	mg/kg	0.0836 U	0.276	0.276	0.0681 U	0.0738 U
Benzo(a)pyrene	mg/kg	0.0836 U	0.289	0.28	0.0681 U	0.0738 U
Benzo(b)fluoranthene	mg/kg	0.0836 U	0.202	0.433	0.0681 U	0.0738 U
Benzo(g,h,i)perylene	mg/kg	0.0836 U	0.192	0.274	0.0681 U	0.0738 U
Benzo(k)fluoranthene	mg/kg	0.0836 U	0.14	0.368	0.0681 U	0.0738 U
Benzoic Acid	mg/kg	0.413 UJ	0.389 UJ	0.367 UJ	0.337 UJ	0.365 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
3-Nitroaniline	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
4,6-Dinitro-2-methylphenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
4-Bromophenyl-phenylether	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
4-Chloro-3-methylphenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
4-Chloroaniline	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
4-Chlorophenyl-phenylether	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
4-Nitroaniline	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
4-Nitrophenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Acenaphthene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Acenaphthylene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Acetophenone	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Aniline	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Anthracene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Azobenzene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Benzidine	mg/kg	0.785 UJ	0.82 UJ	0.723 UJ	0.79 UJ	0.732 UJ
Benzo(a)anthracene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Benzo(a)pyrene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Benzo(b)fluoranthene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Benzo(g,h,i)perylene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Benzo(k)fluoranthene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Benzoic Acid	mg/kg	0.393 UJ	0.41 UJ	0.361 UJ	0.395 UJ	0.366 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
3-Nitroaniline	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
4,6-Dinitro-2-methylphenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
4-Bromophenyl-phenylether	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
4-Chloro-3-methylphenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
4-Chloroaniline	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
4-Chlorophenyl-phenylether	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
4-Nitroaniline	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
4-Nitrophenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Acenaphthene	mg/kg	0.079 U	0.0801 U	0.0738 U	0.0776 U	0.076 U
Acenaphthylene	mg/kg	0.154	0.0801 U	0.0738 U	0.0776 U	0.076 U
Acetophenone	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Aniline	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Anthracene	mg/kg	0.0987	0.0801 U	0.0738 U	0.0776 U	0.076 U
Azobenzene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Benzidine	mg/kg	0.781 U	0.793 UJ	0.73 UJ	0.768 UJ	0.752 UJ
Benzo(a)anthracene	mg/kg	0.28	0.0801 U	0.0738 U	0.0776 U	0.076 U
Benzo(a)pyrene	mg/kg	0.283	0.0801 U	0.0738 U	0.0776 U	0.076 U
Benzo(b)fluoranthene	mg/kg	0.268	0.0801 U	0.0738 U	0.0776 U	0.076 U
Benzo(g,h,i)perylene	mg/kg	0.219	0.0801 U	0.0738 U	0.0776 U	0.076 U
Benzo(k)fluoranthene	mg/kg	0.195	0.0801 U	0.0738 U	0.0776 U	0.076 U
Benzoic Acid	mg/kg	0.391 UJ	0.397 UJ	0.365 UJ	0.384 UJ	0.376 UJ

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
3-Nitroaniline	mg/kg	0.368 U	0.382 U	0.376 U
4,6-Dinitro-2-methylphenol	mg/kg	0.368 U	0.382 U	0.376 U
4-Bromophenyl-phenylether	mg/kg	0.368 U	0.382 U	0.376 U
4-Chloro-3-methylphenol	mg/kg	0.368 U	0.382 U	0.376 U
4-Chloroaniline	mg/kg	0.186 U	0.193 U	0.191 U
4-Chlorophenyl-phenylether	mg/kg	0.368 U	0.382 U	0.376 U
4-Nitroaniline	mg/kg	0.186 U	0.193 U	0.191 U
4-Nitrophenol	mg/kg	0.368 U	0.382 U	0.376 U
Acenaphthene	mg/kg	0.0743 U	0.0771 U	0.0761 U
Acenaphthylene	mg/kg	0.229	0.0693 J	0.0761 U
Acetophenone	mg/kg	0.186 U	0.193 U	0.191 U
Aniline	mg/kg	0.368 U	0.382 U	0.376 U
Anthracene	mg/kg	0.143	0.047 J	0.0761 U
Azobenzene	mg/kg	0.368 U	0.382 U	0.376 U
Benzidine	mg/kg	0.735 U	0.763 U	0.753 U
Benzo(a)anthracene	mg/kg	0.218	0.176	0.0761 U
Benzo(a)pyrene	mg/kg	0.26	0.175	0.0761 U
Benzo(b)fluoranthene	mg/kg	0.151	0.259	0.0761 U
Benzo(g,h,i)perylene	mg/kg	0.224	0.173	0.0761 U
Benzo(k)fluoranthene	mg/kg	0.181	0.187	0.0761 U
Benzoic Acid	mg/kg	0.368 U	0.382 U	0.376 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzyl Alcohol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Bis(2-chloroethoxy)methane	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Bis(2-chloroethyl)ether	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
bis-(2-chloroisopropyl)ether	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.317	0.202 U	0.196 U	0.2 U	0.172 U
Butylbenzylphthalate	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.0492 J
Carbazole	mg/kg	0.0924 J	0.202 U	0.196 U	0.2 U	0.172 U
Chrysene	mg/kg	1.01	0.0805 U	0.0782 U	0.08 U	0.0688 U
Dibenz(a,h)anthracene	mg/kg	0.116	0.0805 U	0.0782 U	0.08 U	0.0688 U
Dibenzofuran	mg/kg	0.0708 J	0.202 U	0.196 U	0.2 U	0.172 U
Diethylphthalate	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Dimethylphthalate	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Di-N-Butylphthalate	mg/kg	0.391	0.398 U	0.387 U	0.396 U	0.15 J
Di-N-Octyl Phthalate	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Fluoranthene	mg/kg	1.95	0.0805 U	0.0782 U	0.08 U	0.0688 U
Fluorene	mg/kg	0.0679 U	0.0805 U	0.0782 U	0.08 U	0.0688 U
Hexachlorobenzene	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
Hexachlorobutadiene	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
Hexachlorocyclopentadiene	mg/kg	0.17 U	0.202 UJ	0.196 UJ	0.2 UJ	0.172 UJ
Hexachloroethane	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 UJ
Indeno(1,2,3-cd)pyrene	mg/kg	0.254	0.0805 U	0.0782 U	0.08 U	0.0688 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzyl Alcohol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Bis(2-chloroethoxy)methane	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Bis(2-chloroethyl)ether	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
bis-(2-chloroisopropyl)ether	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.191 U	0.196 U	0.0559 J	0.191 U	0.219 U
Butylbenzylphthalate	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Carbazole	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Chrysene	mg/kg	0.0791	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Dibenz(a,h)anthracene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Dibenzofuran	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Diethylphthalate	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Dimethylphthalate	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Di-N-Butylphthalate	mg/kg	2.31	0.0474 J	0.0462 J	0.377 U	0.433 U
Di-N-Octyl Phthalate	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Fluoranthene	mg/kg	0.072 J	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Fluorene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Hexachlorobenzene	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Hexachlorobutadiene	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Hexachlorocyclopentadiene	mg/kg	0.191 UJ	0.196 UJ	0.184 UJ	0.191 UJ	0.219 UJ
Hexachloroethane	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzyl Alcohol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Bis(2-chloroethoxy)methane	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Bis(2-chloroethyl)ether	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
bis-(2-chloroisopropyl)ether	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.372 U	0.178 U	0.265 J	0.918 U	0.201 U
Butylbenzylphthalate	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Carbazole	mg/kg	0.372 U	0.178 U	0.889 U	0.739 J	0.201 U
Chrysene	mg/kg	1.46	0.0712 U	1.75	11.5	0.163
Dibenz(a,h)anthracene	mg/kg	0.343	0.0712 U	0.417	2.1	0.0801 U
Dibenzofuran	mg/kg	0.372 U	0.178 U	0.889 U	0.56 J	0.201 U
Diethylphthalate	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Dimethylphthalate	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Di-N-Butylphthalate	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Di-N-Octyl Phthalate	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Fluoranthene	mg/kg	2	0.0712 U	1.92	11.1	0.359
Fluorene	mg/kg	0.149 U	0.0712 U	0.355 U	1.75	0.0801 U
Hexachlorobenzene	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
Hexachlorobutadiene	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
Hexachlorocyclopentadiene	mg/kg	0.372 UJ	0.178 U	0.889 UJ	0.918 UJ	0.201 UJ
Hexachloroethane	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.84	0.0712 U	0.968	4.5	0.0801 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzyl Alcohol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Bis(2-chloroethoxy)methane	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Bis(2-chloroethyl)ether	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
bis-(2-chloroisopropyl)ether	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Butylbenzylphthalate	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Carbazole	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Chrysene	mg/kg	0.0836 U	0.351	0.487	0.0594 J	0.0738 U
Dibenz(a,h)anthracene	mg/kg	0.0836 U	0.0863	0.0988	0.0681 U	0.0738 U
Dibenzofuran	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Diethylphthalate	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Dimethylphthalate	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Di-N-Butylphthalate	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Di-N-Octyl Phthalate	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Fluoranthene	mg/kg	0.0836 U	0.468	0.527	0.0894	0.0738 U
Fluorene	mg/kg	0.0836 U	0.0786 U	0.0741 U	0.0681 U	0.0738 U
Hexachlorobenzene	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Hexachlorobutadiene	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Hexachlorocyclopentadiene	mg/kg	0.209 UJ	0.197 UJ	0.186 U	0.171 U	0.185 U
Hexachloroethane	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0836 U	0.193	0.24	0.0681 U	0.0738 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzyl Alcohol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Bis(2-chloroethoxy)methane	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Bis(2-chloroethyl)ether	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
bis-(2-chloroisopropyl)ether	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.199 U	0.207 U	0.291	0.2 U	0.171 J
Butylbenzylphthalate	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Carbazole	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Chrysene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Dibenz(a,h)anthracene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Dibenzofuran	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Diethylphthalate	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Dimethylphthalate	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Di-N-Butylphthalate	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Di-N-Octyl Phthalate	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Fluoranthene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Fluorene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Hexachlorobenzene	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Hexachlorobutadiene	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Hexachlorocyclopentadiene	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Hexachloroethane	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzyl Alcohol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Bis(2-chloroethoxy)methane	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Bis(2-chloroethyl)ether	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
bis-(2-chloroisopropyl)ether	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.227
Butylbenzylphthalate	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Carbazole	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Chrysene	mg/kg	0.356	0.0801 U	0.0738 U	0.0776 U	0.076 U
Dibenz(a,h)anthracene	mg/kg	0.0841	0.0801 U	0.0738 U	0.0776 U	0.076 U
Dibenzofuran	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Diethylphthalate	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Dimethylphthalate	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Di-N-Butylphthalate	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Di-N-Octyl Phthalate	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Fluoranthene	mg/kg	0.417	0.0801 U	0.0738 U	0.0776 U	0.076 U
Fluorene	mg/kg	0.079 U	0.0801 U	0.0738 U	0.0776 U	0.076 U
Hexachlorobenzene	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Hexachlorobutadiene	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Hexachlorocyclopentadiene	mg/kg	0.198 UJ	0.201 U	0.185 U	0.194 U	0.19 U
Hexachloroethane	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.19	0.0801 U	0.0738 U	0.0776 U	0.076 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
Benzyl Alcohol	mg/kg	0.368 U	0.382 U	0.376 U
Bis(2-chloroethoxy)methane	mg/kg	0.368 U	0.382 U	0.376 U
Bis(2-chloroethyl)ether	mg/kg	0.186 U	0.193 U	0.191 U
bis-(2-chloroisopropyl)ether	mg/kg	0.186 U	0.193 U	0.191 U
Bis(2-ethylhexyl)phthalate	mg/kg	0.255	0.193 U	0.191 U
Butylbenzylphthalate	mg/kg	0.368 U	0.382 U	0.376 U
Carbazole	mg/kg	0.186 U	0.193 U	0.191 U
Chrysene	mg/kg	0.252	0.307	0.0475 J
Dibenz(a,h)anthracene	mg/kg	0.0664 J	0.0687 J	0.0761 U
Dibenzofuran	mg/kg	0.186 U	0.193 U	0.191 U
Diethylphthalate	mg/kg	0.368 U	0.382 U	0.376 U
Dimethylphthalate	mg/kg	0.368 U	0.382 U	0.376 U
Di-N-Butylphthalate	mg/kg	0.567	5.9	0.376 U
Di-N-Octyl Phthalate	mg/kg	0.368 U	0.382 U	0.376 U
Fluoranthene	mg/kg	0.169	0.413	0.0848
Fluorene	mg/kg	0.0743 U	0.0771 U	0.0761 U
Hexachlorobenzene	mg/kg	0.186 U	0.193 U	0.191 U
Hexachlorobutadiene	mg/kg	0.186 U	0.193 U	0.191 U
Hexachlorocyclopentadiene	mg/kg	0.186 UJ	0.193 UJ	0.191 UJ
Hexachloroethane	mg/kg	0.186 U	0.193 U	0.191 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	0.153	0.0761 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Isophorone	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 U
Naphthalene	mg/kg	0.189	0.0805 U	0.0782 U	0.08 U	0.0688 U
Naphthalene, 1-methyl-	mg/kg	0.25	0.0805 U	0.0782 U	0.08 U	0.0688 U
Nitrobenzene	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 UJ
N-Nitrosodimethylamine (NDMA)	mg/kg	0.17 U	0.202 UJ	0.196 UJ	0.2 UJ	0.172 UJ
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.17 U	0.202 U	0.196 U	0.2 U	0.172 UJ
N-Nitrosodiphenylamine	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 UJ
Pentachloronitrobenzene	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Pentachlorophenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Phenanthrene	mg/kg	0.532	0.0805 U	0.0782 U	0.08 U	0.0688 U
Phenol	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U
Pyrene	mg/kg	1.83	0.0805 U	0.0782 U	0.08 U	0.0688 U
Pyridine	mg/kg	0.336 U	0.398 U	0.387 U	0.396 U	0.34 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Isophorone	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Naphthalene	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Naphthalene, 1-methyl-	mg/kg	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Nitrobenzene	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.191 UJ	0.196 UJ	0.184 UJ	0.191 UJ	0.219 UJ
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
N-Nitrosodiphenylamine	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Pentachloronitrobenzene	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Pentachlorophenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Phenanthrene	mg/kg	0.0783	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Phenol	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Pyrene	mg/kg	0.0767	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Pyridine	mg/kg	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Isophorone	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
Naphthalene	mg/kg	0.149 U	0.0712 U	0.355 U	0.367 U	0.0801 U
Naphthalene, 1-methyl-	mg/kg	0.149 U	0.0712 U	0.355 U	1.13	0.0801 U
Nitrobenzene	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.372 UJ	0.178 U	0.889 UJ	0.918 UJ	0.201 UJ
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.372 U	0.178 U	0.889 U	0.918 U	0.201 U
N-Nitrosodiphenylamine	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Pentachloronitrobenzene	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Pentachlorophenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Phenanthrene	mg/kg	0.719	0.0712 U	0.939	9.56	0.149
Phenol	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U
Pyrene	mg/kg	2.63	0.0712 U	3.79	11.3	0.458
Pyridine	mg/kg	0.736 U	0.352 U	1.76 U	1.81 U	0.396 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Isophorone	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
Naphthalene	mg/kg	0.0836 U	0.0786 U	0.0741 U	0.0681 U	0.0738 U
Naphthalene, 1-methyl-	mg/kg	0.0836 U	0.0786 U	0.0741 U	0.0681 U	0.0738 U
Nitrobenzene	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.209 UJ	0.197 UJ	0.186 U	0.171 U	0.185 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.209 U	0.197 U	0.186 U	0.171 U	0.185 U
N-Nitrosodiphenylamine	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Pentachloronitrobenzene	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Pentachlorophenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Phenanthrene	mg/kg	0.0836 U	0.214	0.426	0.0687	0.0738 U
Phenol	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U
Pyrene	mg/kg	0.0836 U	0.748	0.589	0.0885	0.0738 U
Pyridine	mg/kg	0.413 U	0.389 U	0.367 U	0.337 U	0.365 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Isophorone	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
Naphthalene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Naphthalene, 1-methyl-	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Nitrobenzene	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.199 U	0.207 U	0.183 U	0.2 U	0.185 U
N-Nitrosodiphenylamine	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Pentachloronitrobenzene	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Pentachlorophenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Phenanthrene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Phenol	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U
Pyrene	mg/kg	0.0793 U	0.0829 U	0.073 U	0.0799 U	0.074 U
Pyridine	mg/kg	0.393 U	0.41 U	0.361 U	0.395 U	0.366 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Isophorone	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
Naphthalene	mg/kg	0.079 U	0.0801 U	0.0738 U	0.0776 U	0.076 U
Naphthalene, 1-methyl-	mg/kg	0.079 U	0.0801 U	0.0738 U	0.0776 U	0.076 U
Nitrobenzene	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.198 UJ	0.201 U	0.185 U	0.194 U	0.19 U
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.198 U	0.201 U	0.185 U	0.194 U	0.19 U
N-Nitrosodiphenylamine	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Pentachloronitrobenzene	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Pentachlorophenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Phenanthrene	mg/kg	0.236	0.0801 U	0.0738 U	0.0776 U	0.076 U
Phenol	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U
Pyrene	mg/kg	0.731	0.0801 U	0.0738 U	0.0776 U	0.076 U
Pyridine	mg/kg	0.391 U	0.397 U	0.365 U	0.384 U	0.376 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
Isophorone	mg/kg	0.186 U	0.193 U	0.191 U
Naphthalene	mg/kg	0.0743 U	0.0771 U	0.0761 U
Naphthalene, 1-methyl-	mg/kg	0.0743 U	0.0724 J	0.0761 U
Nitrobenzene	mg/kg	0.186 U	0.193 U	0.191 U
N-Nitrosodimethylamine (NDMA)	mg/kg	0.186 UJ	0.193 UJ	0.191 UJ
N-Nitroso-di-n-propylamine (NDPA)	mg/kg	0.186 U	0.193 U	0.191 U
N-Nitrosodiphenylamine	mg/kg	0.368 U	0.382 U	0.376 U
Pentachloronitrobenzene	mg/kg	0.368 U	0.382 U	0.376 U
Pentachlorophenol	mg/kg	0.368 U	0.382 U	0.376 U
Phenanthrene	mg/kg	0.112	0.293	0.0761 U
Phenol	mg/kg	0.368 U	0.382 U	0.376 U
Pyrene	mg/kg	0.373	0.422	0.0899
Pyridine	mg/kg	0.368 U	0.382 U	0.376 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,1,1-Trichloroethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,1,2-Trichloroethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,1-Dichloroethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,1-Dichloroethene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,1-Dichloropropene	mg/kg	0.00579 U	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
1,2,3-Trichlorobenzene	mg/kg	0.00551 J	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
1,2,3-Trichloropropane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,2,4-Trichlorobenzene	mg/kg	0.00579 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0116 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U
1,2-Dibromoethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,2-Dichlorobenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,2-Dichloroethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,2-Dichloropropane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,3,5-Trichlorobenzene	mg/kg	0.00579 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
1,3,5-Trimethylbenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,3-Dichlorobenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,3-Dichloropropane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,1-Trichloroethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,2-Trichloroethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1-Dichloroethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1-Dichloroethene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1-Dichloropropene	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,2,3-Trichlorobenzene	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,2,3-Trichloropropane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2,4-Trichlorobenzene	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
1,2-Dibromoethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dichlorobenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dichloroethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dichloropropane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,3,5-Trichlorobenzene	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,3,5-Trimethylbenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,3-Dichlorobenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,3-Dichloropropane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,1,1-Trichloroethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,1,2-Trichloroethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,1-Dichloroethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,1-Dichloroethene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,1-Dichloropropene	mg/kg	0.00555 UJ	0.00517 U	0.00539 UJ	0.0042 UJ	0.00536 UJ
1,2,3-Trichlorobenzene	mg/kg	0.00555 UJ	0.00517 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ
1,2,3-Trichloropropane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,2,4-Trichlorobenzene	mg/kg	0.00555 UJ	0.00517 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0111 U	0.0103 U	0.0108 U	0.00841 U	0.0107 U
1,2-Dibromoethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,2-Dichlorobenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
1,2-Dichloroethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,2-Dichloropropane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,3,5-Trichlorobenzene	mg/kg	0.00555 UJ	0.00517 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ
1,3,5-Trimethylbenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
1,3-Dichlorobenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
1,3-Dichloropropane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,1,1-Trichloroethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,1,2-Trichloroethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,1-Dichloroethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,1-Dichloroethene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,1-Dichloropropene	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 U	0.00475 U	0.0054 U
1,2,3-Trichlorobenzene	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,2,3-Trichloropropane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,2,4-Trichlorobenzene	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,2,4-Trimethylbenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,2-Dibromo-3-chloropropane	mg/kg	0.0363 U	0.0101 U	0.0112 U	0.00949 U	0.0108 U
1,2-Dibromoethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,2-Dichlorobenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,2-Dichloroethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,2-Dichloropropane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,3,5-Trichlorobenzene	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,3,5-Trimethylbenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,3-Dichlorobenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,3-Dichloropropane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,1,1-Trichloroethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,1,2-Trichloroethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,1-Dichloroethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,1-Dichloroethene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,1-Dichloropropene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,2,3-Trichlorobenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,2,3-Trichloropropane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,2,4-Trichlorobenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,2-Dibromo-3-chloropropane	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
1,2-Dibromoethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,2-Dichlorobenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,2-Dichloroethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,2-Dichloropropane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,3,5-Trichlorobenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,3,5-Trimethylbenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,3-Dichlorobenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,3-Dichloropropane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,1,1-Trichloroethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,1,2-Trichloroethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,1-Dichloroethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,1-Dichloroethene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,1-Dichloropropene	mg/kg	0.00475 UJ	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,2,3-Trichlorobenzene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,2,3-Trichloropropane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,2,4-Trichlorobenzene	mg/kg	0.00475 UJ	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,2-Dibromo-3-chloropropane	mg/kg	0.00951 U	0.00898 U	0.0116 U	0.00933 U	0.0115 U
1,2-Dibromoethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,2-Dichlorobenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,2-Dichloroethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,2-Dichloropropane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,3,5-Trichlorobenzene	mg/kg	0.00475 UJ	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,3,5-Trimethylbenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,3-Dichlorobenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,3-Dichloropropane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,1,1-Trichloroethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,1,2,2-Tetrachloroethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,1,2-Trichloroethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,1-Dichloroethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,1-Dichloroethene	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,1-Dichloropropene	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
1,2,3-Trichlorobenzene	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
1,2,3-Trichloropropane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,2,4-Trichlorobenzene	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
1,2,4-Trimethylbenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,2-Dibromo-3-chloropropane	mg/kg	0.011 U	0.0115 U	0.0106 U
1,2-Dibromoethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,2-Dichlorobenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,2-Dichloroethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,2-Dichloropropane	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,3,5-Trichlorobenzene	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
1,3,5-Trimethylbenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,3-Dichlorobenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,3-Dichloropropane	mg/kg	0.00549 U	0.00573 U	0.00531 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,3-Dichloropropene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,4-Dichlorobenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
1,4-Dioxane	mg/kg	0.116 U	0.103 U	0.105 U	0.092 U	0.0955 U
2,2-Dichloropropane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
2-Butanone	mg/kg	0.0116 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U
2-Chlorotoluene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
2-Hexanone	mg/kg	0.0116 U	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ
4-Chlorotoluene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
4-Isopropyltoluene	mg/kg	0.00579 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
4-Methyl-2-pentanone	mg/kg	0.0116 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U
Acetone	mg/kg	0.0579 U	0.018 J	0.0525 UJ	0.046 UJ	0.0477 UJ
Acrylonitrile	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Benzene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Bromobenzene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Bromochloromethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Bromodichloromethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Bromoform	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Bromomethane	mg/kg	0.0116 U	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ
Carbon disulfide	mg/kg	0.0116 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U
Carbon tetrachloride	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Chlorobenzene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,3-Dichloropropene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,4-Dichlorobenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,4-Dioxane	mg/kg	0.104 UJ	0.0975 U	0.11 U	0.099 U	0.09 U
2,2-Dichloropropane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
2-Butanone	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
2-Chlorotoluene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
2-Hexanone	mg/kg	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
4-Chlorotoluene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
4-Isopropyltoluene	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
4-Methyl-2-pentanone	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Acetone	mg/kg	0.0519 UJ	0.0488 UJ	0.0548 UJ	0.0495 UJ	0.045 UJ
Acrylonitrile	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Benzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromobenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromochloromethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromodichloromethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromoform	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromomethane	mg/kg	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Carbon disulfide	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Carbon tetrachloride	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Chlorobenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,3-Dichloropropene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
1,4-Dichlorobenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
1,4-Dioxane	mg/kg	0.111 U	0.103 U	0.108 U	0.0841 U	0.107 U
2,2-Dichloropropane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
2-Butanone	mg/kg	0.0111 U	0.0103 U	0.0108 U	0.00841 U	0.0107 U
2-Chlorotoluene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
2-Hexanone	mg/kg	0.0111 UJ	0.0103 U	0.0108 UJ	0.00841 UJ	0.0107 UJ
4-Chlorotoluene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
4-Isopropyltoluene	mg/kg	0.00555 UJ	0.00517 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ
4-Methyl-2-pentanone	mg/kg	0.0111 U	0.0103 U	0.0108 U	0.00841 U	0.0107 U
Acetone	mg/kg	0.0555 UJ	0.0517 U	0.0539 UJ	0.042 UJ	0.0536 UJ
Acrylonitrile	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Benzene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Bromobenzene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Bromochloromethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Bromodichloromethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Bromoform	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Bromomethane	mg/kg	0.0111 UJ	0.0103 U	0.0108 UJ	0.00841 UJ	0.0107 UJ
Carbon disulfide	mg/kg	0.0111 U	0.0103 U	0.0108 U	0.00841 U	0.0107 U
Carbon tetrachloride	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Chlorobenzene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,3-Dichloropropene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
1,4-Dichlorobenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
1,4-Dioxane	mg/kg	0.363 U	0.101 U	0.112 U	0.0949 U	0.108 U
2,2-Dichloropropane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
2-Butanone	mg/kg	0.0363 U	0.0101 U	0.0112 U	0.00949 U	0.0108 U
2-Chlorotoluene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
2-Hexanone	mg/kg	0.0363 UJ	0.0101 UJ	0.0112 U	0.00949 U	0.0108 U
4-Chlorotoluene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
4-Isopropyltoluene	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 UJ	0.00475 UJ	0.0054 UJ
4-Methyl-2-pentanone	mg/kg	0.0363 U	0.0101 U	0.0112 U	0.00949 U	0.0108 U
Acetone	mg/kg	0.181 UJ	0.0506 UJ	0.0558 U	0.0475 U	0.054 U
Acrylonitrile	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Benzene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Bromobenzene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Bromochloromethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Bromodichloromethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Bromoform	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Bromomethane	mg/kg	0.0363 UJ	0.0101 UJ	0.0112 U	0.00949 U	0.0108 U
Carbon disulfide	mg/kg	0.0363 U	0.0101 U	0.0112 U	0.00949 U	0.0108 U
Carbon tetrachloride	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Chlorobenzene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,3-Dichloropropene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
1,4-Dichlorobenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
1,4-Dioxane	mg/kg	0.11 U	0.101 U	0.107 U	0.0999 U	0.105 U
2,2-Dichloropropane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
2-Butanone	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
2-Chlorotoluene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
2-Hexanone	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
4-Chlorotoluene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
4-Isopropyltoluene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
4-Methyl-2-pentanone	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
Acetone	mg/kg	0.0548 U	0.0506 U	0.0537 U	0.0499 U	0.0525 U
Acrylonitrile	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Benzene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Bromobenzene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Bromochloromethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Bromodichloromethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Bromoform	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Bromomethane	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
Carbon disulfide	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
Carbon tetrachloride	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Chlorobenzene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
1,3-Dichloropropene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
1,4-Dichlorobenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,4-Dioxane	mg/kg	0.0951 U	0.0898 U	0.116 U	0.0933 U	0.115 U
2,2-Dichloropropane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
2-Butanone	mg/kg	0.00951 U	0.00898 U	0.0116 U	0.00933 U	0.0115 U
2-Chlorotoluene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
2-Hexanone	mg/kg	0.00951 UJ	0.00898 U	0.0116 U	0.00933 U	0.0115 U
4-Chlorotoluene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
4-Isopropyltoluene	mg/kg	0.00475 UJ	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
4-Methyl-2-pentanone	mg/kg	0.00951 U	0.00898 U	0.0116 U	0.00933 U	0.0115 U
Acetone	mg/kg	0.0475 UJ	0.0449 U	0.0582 U	0.0466 U	0.0574 U
Acrylonitrile	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Benzene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Bromobenzene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Bromochloromethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Bromodichloromethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Bromoform	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Bromomethane	mg/kg	0.00951 UJ	0.00898 U	0.0116 U	0.00933 U	0.0115 U
Carbon disulfide	mg/kg	0.00951 U	0.00898 U	0.0116 U	0.00933 U	0.0115 U
Carbon tetrachloride	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Chlorobenzene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
1,3-Dichloropropene	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,4-Dichlorobenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
1,4-Dioxane	mg/kg	0.11 U	0.115 U	0.106 U
2,2-Dichloropropane	mg/kg	0.00549 U	0.00573 U	0.00531 U
2-Butanone	mg/kg	0.011 U	0.0115 U	0.0106 U
2-Chlorotoluene	mg/kg	0.00549 U	0.00573 U	0.00531 U
2-Hexanone	mg/kg	0.011 UJ	0.0115 UJ	0.0106 UJ
4-Chlorotoluene	mg/kg	0.00549 U	0.00573 U	0.00531 U
4-Isopropyltoluene	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
4-Methyl-2-pentanone	mg/kg	0.011 U	0.0115 U	0.0106 U
Acetone	mg/kg	0.0549 UJ	0.0573 UJ	0.0531 UJ
Acrylonitrile	mg/kg	0.00549 U	0.00573 U	0.00531 U
Benzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Bromobenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Bromochloromethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
Bromodichloromethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
Bromoform	mg/kg	0.00549 U	0.00573 U	0.00531 U
Bromomethane	mg/kg	0.011 UJ	0.0115 UJ	0.0106 UJ
Carbon disulfide	mg/kg	0.011 U	0.0115 U	0.0106 U
Carbon tetrachloride	mg/kg	0.00549 U	0.00573 U	0.00531 U
Chlorobenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Chloroethane	mg/kg	0.0116 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U
Chloroform	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Chloromethane	mg/kg	0.0116 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U
cis-1,2-Dichloroethene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
cis-1,3-Dichloropropene	mg/kg	0.00579 U	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
Dibromochloromethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Dibromomethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Dichlorodifluoromethane	mg/kg	0.0116 UJ	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ
Diethyl ether	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Diisopropyl Ether	mg/kg	0.00579 U	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
Ethanol	mg/kg	1.16 U	1.03 U	1.05 U	0.92 U	0.955 U
Ethylbenzene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Hexachlorobutadiene	mg/kg	0.0116 UJ	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ
Isopropylbenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
m,p-Xylene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Methyl tert-butyl ether	mg/kg	0.00579 U	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
Methylene chloride	mg/kg	0.0116 U	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ
Naphthalene	mg/kg	0.00579 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
n-Butylbenzene	mg/kg	0.0116 UJ	0.0103 U	0.0105 U	0.0092 U	0.00955 U
n-Propylbenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
o-Xylene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Chloroethane	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Chloroform	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Chloromethane	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
cis-1,2-Dichloroethene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
cis-1,3-Dichloropropene	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
Dibromochloromethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Dibromomethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Dichlorodifluoromethane	mg/kg	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Diethyl ether	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Diisopropyl Ether	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
Ethanol	mg/kg	1.04 UJ	0.975 U	1.1 U	0.99 U	0.9 U
Ethylbenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Hexachlorobutadiene	mg/kg	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Isopropylbenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
m,p-Xylene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Methyl tert-butyl ether	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
Methylene chloride	mg/kg	0.00529 J	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Naphthalene	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
n-Butylbenzene	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
n-Propylbenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
o-Xylene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Chloroethane	mg/kg	0.0111 U	0.0103 U	0.0108 U	0.00841 U	0.0107 U
Chloroform	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Chloromethane	mg/kg	0.0111 U	0.0103 U	0.0108 U	0.00841 U	0.0107 U
cis-1,2-Dichloroethene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
cis-1,3-Dichloropropene	mg/kg	0.00555 UJ	0.00517 U	0.00539 UJ	0.0042 UJ	0.00536 UJ
Dibromochloromethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Dibromomethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Dichlorodifluoromethane	mg/kg	0.0111 UJ	0.0103 UJ	0.0108 UJ	0.00841 UJ	0.0107 UJ
Diethyl ether	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
Diisopropyl Ether	mg/kg	0.00555 UJ	0.00517 U	0.00539 UJ	0.0042 UJ	0.00536 UJ
Ethanol	mg/kg	1.11 U	1.03 U	1.08 U	0.841 U	1.07 U
Ethylbenzene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Hexachlorobutadiene	mg/kg	0.0111 UJ	0.0103 UJ	0.0108 UJ	0.00841 UJ	0.0107 UJ
Isopropylbenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
m,p-Xylene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Methyl tert-butyl ether	mg/kg	0.00555 UJ	0.00517 U	0.00539 UJ	0.0042 UJ	0.00536 UJ
Methylene chloride	mg/kg	0.0111 UJ	0.0103 U	0.0108 UJ	0.00841 UJ	0.0107 UJ
Naphthalene	mg/kg	0.00555 UJ	0.00517 UJ	0.00539 UJ	0.00805 J	0.00536 UJ
n-Butylbenzene	mg/kg	0.0111 U	0.0103 UJ	0.0108 U	0.00841 U	0.0107 U
n-Propylbenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
o-Xylene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Chloroethane	mg/kg	0.0363 U	0.0101 U	0.0112 U	0.00949 U	0.0108 U
Chloroform	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Chloromethane	mg/kg	0.0363 U	0.0101 U	0.0112 U	0.00949 U	0.0108 U
cis-1,2-Dichloroethene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
cis-1,3-Dichloropropene	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 U	0.00475 U	0.0054 U
Dibromochloromethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Dibromomethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Dichlorodifluoromethane	mg/kg	0.0363 UJ	0.0101 UJ	0.0112 UJ	0.00949 UJ	0.0108 UJ
Diethyl ether	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
Diisopropyl Ether	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 U	0.00475 U	0.0054 U
Ethanol	mg/kg	1.29 J	1.01 U	1.12 U	0.949 U	1.08 U
Ethylbenzene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Hexachlorobutadiene	mg/kg	0.0363 UJ	0.0101 UJ	0.0112 UJ	0.00949 UJ	0.0108 UJ
Isopropylbenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
m,p-Xylene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Methyl tert-butyl ether	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 U	0.00475 U	0.0054 U
Methylene chloride	mg/kg	0.0363 UJ	0.0101 UJ	0.0112 U	0.00949 U	0.0108 U
Naphthalene	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 UJ	0.00475 UJ	0.0054 UJ
n-Butylbenzene	mg/kg	0.0363 U	0.0101 U	0.0112 UJ	0.00949 UJ	0.0108 UJ
n-Propylbenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
o-Xylene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Chloroethane	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
Chloroform	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Chloromethane	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
cis-1,2-Dichloroethene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
cis-1,3-Dichloropropene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Dibromochloromethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Dibromomethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Dichlorodifluoromethane	mg/kg	0.011 UJ	0.0101 UJ	0.0107 UJ	0.00999 UJ	0.0105 UJ
Diethyl ether	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
Diisopropyl Ether	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Ethanol	mg/kg	1.1 U	1.01 U	1.07 U	0.999 U	1.05 U
Ethylbenzene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Hexachlorobutadiene	mg/kg	0.011 UJ	0.0101 UJ	0.0107 UJ	0.00999 UJ	0.0105 UJ
Isopropylbenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
m,p-Xylene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Methyl tert-butyl ether	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Methylene chloride	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
Naphthalene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
n-Butylbenzene	mg/kg	0.011 UJ	0.0101 UJ	0.0107 UJ	0.00999 UJ	0.0105 UJ
n-Propylbenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
o-Xylene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Chloroethane	mg/kg	0.00951 U	0.00898 U	0.0116 U	0.00933 U	0.0115 U
Chloroform	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Chloromethane	mg/kg	0.00951 U	0.00898 U	0.0116 U	0.00933 U	0.0115 U
cis-1,2-Dichloroethene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
cis-1,3-Dichloropropene	mg/kg	0.00475 UJ	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Dibromochloromethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Dibromomethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Dichlorodifluoromethane	mg/kg	0.00951 UJ	0.00898 UJ	0.0116 UJ	0.00933 UJ	0.0115 UJ
Diethyl ether	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
Diisopropyl Ether	mg/kg	0.00475 UJ	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Ethanol	mg/kg	0.951 U	0.898 U	1.16 U	0.933 U	1.15 U
Ethylbenzene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Hexachlorobutadiene	mg/kg	0.00951 UJ	0.00898 UJ	0.0116 UJ	0.00933 UJ	0.0115 UJ
Isopropylbenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
m,p-Xylene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Methyl tert-butyl ether	mg/kg	0.00475 UJ	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Methylene chloride	mg/kg	0.00951 UJ	0.00898 U	0.0116 U	0.00933 U	0.0115 U
Naphthalene	mg/kg	0.00475 UJ	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
n-Butylbenzene	mg/kg	0.00951 U	0.00898 UJ	0.0116 UJ	0.00933 UJ	0.0115 UJ
n-Propylbenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
o-Xylene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
Chloroethane	mg/kg	0.011 U	0.0115 U	0.0106 U
Chloroform	mg/kg	0.00549 U	0.00573 U	0.00531 U
Chloromethane	mg/kg	0.011 U	0.0115 U	0.0106 U
cis-1,2-Dichloroethene	mg/kg	0.00549 U	0.00573 U	0.00531 U
cis-1,3-Dichloropropene	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
Dibromochloromethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
Dibromomethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
Dichlorodifluoromethane	mg/kg	0.011 UJ	0.0115 UJ	0.0106 UJ
Diethyl ether	mg/kg	0.00549 U	0.00573 U	0.00531 U
Diisopropyl Ether	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
Ethanol	mg/kg	1.1 U	1.15 U	1.06 U
Ethylbenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Hexachlorobutadiene	mg/kg	0.011 UJ	0.0115 UJ	0.0106 UJ
Isopropylbenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
m,p-Xylene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Methyl tert-butyl ether	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
Methylene chloride	mg/kg	0.011 UJ	0.0115 UJ	0.0106 UJ
Naphthalene	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
n-Butylbenzene	mg/kg	0.011 U	0.0115 U	0.0106 U
n-Propylbenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
o-Xylene	mg/kg	0.00549 U	0.00573 U	0.00531 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
sec-Butylbenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Styrene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
tert-Amyl methyl ether	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
tert-Butyl Alcohol	mg/kg	0.116 U	0.103 U	0.105 U	0.092 U	0.0955 U
Tert-Butyl Ethyl Ether	mg/kg	0.00579 U	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ
tert-Butylbenzene	mg/kg	0.00579 UJ	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Tetrachloroethene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Tetrahydrofuran	mg/kg	0.0116 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U
Toluene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
trans-1,2-Dichloroethene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
trans-1,3-Dichloropropene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
trans-1,4-Dichlorobutene	mg/kg	0.029 U	0.0256 U	0.0262 U	0.023 U	0.0239 U
Trichloroethene	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Trichlorofluoromethane	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Vinyl chloride	mg/kg	0.00579 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U
Xylene (total)	mg/kg	0.0174 U	0.0154 U	0.0157 U	0.0138 U	0.0143 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
sec-Butylbenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Styrene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
tert-Amyl methyl ether	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
tert-Butyl Alcohol	mg/kg	0.104 UJ	0.0975 U	0.11 U	0.099 U	0.09 U
Tert-Butyl Ethyl Ether	mg/kg	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
tert-Butylbenzene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Tetrachloroethene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Tetrahydrofuran	mg/kg	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Toluene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
trans-1,2-Dichloroethene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
trans-1,3-Dichloropropene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
trans-1,4-Dichlorobutene	mg/kg	0.0259 UJ	0.0244 U	0.0274 U	0.0247 U	0.0225 U
Trichloroethene	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Trichlorofluoromethane	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Vinyl chloride	mg/kg	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Xylene (total)	mg/kg	0.0156 UJ	0.0146 U	0.0164 U	0.0148 U	0.0135 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
sec-Butylbenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
Styrene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
tert-Amyl methyl ether	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
tert-Butyl Alcohol	mg/kg	0.111 U	0.103 U	0.108 U	0.0841 U	0.107 U
Tert-Butyl Ethyl Ether	mg/kg	0.00555 UJ	0.00517 U	0.00539 UJ	0.0042 UJ	0.00536 UJ
tert-Butylbenzene	mg/kg	0.00555 U	0.00517 UJ	0.00539 U	0.0042 U	0.00536 U
Tetrachloroethene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Tetrahydrofuran	mg/kg	0.0111 U	0.0103 U	0.0108 U	0.00841 U	0.0107 U
Toluene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
trans-1,2-Dichloroethene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
trans-1,3-Dichloropropene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
trans-1,4-Dichlorobutene	mg/kg	0.0278 U	0.0259 U	0.027 U	0.021 U	0.0268 U
Trichloroethene	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Trichlorofluoromethane	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Vinyl chloride	mg/kg	0.00555 U	0.00517 U	0.00539 U	0.0042 U	0.00536 U
Xylene (total)	mg/kg	0.0167 U	0.0155 U	0.0162 U	0.0126 U	0.0161 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
sec-Butylbenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
Styrene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
tert-Amyl methyl ether	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
tert-Butyl Alcohol	mg/kg	0.116 J	0.101 U	0.112 U	0.0949 U	0.108 U
Tert-Butyl Ethyl Ether	mg/kg	0.0181 UJ	0.00506 UJ	0.00558 U	0.00475 U	0.0054 U
tert-Butylbenzene	mg/kg	0.0181 U	0.00506 U	0.00558 UJ	0.00475 UJ	0.0054 UJ
Tetrachloroethene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Tetrahydrofuran	mg/kg	0.0363 U	0.0101 U	0.0112 U	0.00949 U	0.0108 U
Toluene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
trans-1,2-Dichloroethene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
trans-1,3-Dichloropropene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
trans-1,4-Dichlorobutene	mg/kg	0.0907 U	0.0253 U	0.0279 U	0.0237 U	0.027 U
Trichloroethene	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Trichlorofluoromethane	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Vinyl chloride	mg/kg	0.0181 U	0.00506 U	0.00558 U	0.00475 U	0.0054 U
Xylene (total)	mg/kg	0.0544 U	0.0152 U	0.0167 U	0.0142 U	0.0162 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
sec-Butylbenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
Styrene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
tert-Amyl methyl ether	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
tert-Butyl Alcohol	mg/kg	0.11 U	0.101 U	0.107 U	0.0999 U	0.105 U
Tert-Butyl Ethyl Ether	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
tert-Butylbenzene	mg/kg	0.00548 UJ	0.00506 UJ	0.00537 UJ	0.00499 UJ	0.00525 UJ
Tetrachloroethene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Tetrahydrofuran	mg/kg	0.011 U	0.0101 U	0.0107 U	0.00999 U	0.0105 U
Toluene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
trans-1,2-Dichloroethene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
trans-1,3-Dichloropropene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
trans-1,4-Dichlorobutene	mg/kg	0.0274 U	0.0253 U	0.0269 U	0.025 U	0.0263 U
Trichloroethene	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Trichlorofluoromethane	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Vinyl chloride	mg/kg	0.00548 U	0.00506 U	0.00537 U	0.00499 U	0.00525 U
Xylene (total)	mg/kg	0.0164 U	0.0152 U	0.0161 U	0.015 U	0.0158 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
sec-Butylbenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
Styrene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
tert-Amyl methyl ether	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
tert-Butyl Alcohol	mg/kg	0.0951 U	0.0898 U	0.116 U	0.0933 U	0.115 U
Tert-Butyl Ethyl Ether	mg/kg	0.00475 UJ	0.00449 U	0.00582 U	0.00466 U	0.00574 U
tert-Butylbenzene	mg/kg	0.00475 U	0.00449 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
Tetrachloroethene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Tetrahydrofuran	mg/kg	0.00951 U	0.00898 U	0.0116 U	0.00933 U	0.0115 U
Toluene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
trans-1,2-Dichloroethene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
trans-1,3-Dichloropropene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
trans-1,4-Dichlorobutene	mg/kg	0.0238 U	0.0225 U	0.0291 U	0.0233 U	0.0287 U
Trichloroethene	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Trichlorofluoromethane	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Vinyl chloride	mg/kg	0.00475 U	0.00449 U	0.00582 U	0.00466 U	0.00574 U
Xylene (total)	mg/kg	0.0143 U	0.0135 U	0.0175 U	0.014 U	0.0172 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
sec-Butylbenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Styrene	mg/kg	0.00549 U	0.00573 U	0.00531 U
tert-Amyl methyl ether	mg/kg	0.00549 U	0.00573 U	0.00531 U
tert-Butyl Alcohol	mg/kg	0.11 U	0.115 U	0.106 U
Tert-Butyl Ethyl Ether	mg/kg	0.00549 UJ	0.00573 UJ	0.00531 UJ
tert-Butylbenzene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Tetrachloroethene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Tetrahydrofuran	mg/kg	0.011 U	0.0115 U	0.0106 U
Toluene	mg/kg	0.00549 U	0.00573 U	0.00531 U
trans-1,2-Dichloroethene	mg/kg	0.00549 U	0.00573 U	0.00531 U
trans-1,3-Dichloropropene	mg/kg	0.00549 U	0.00573 U	0.00531 U
trans-1,4-Dichlorobutene	mg/kg	0.0275 U	0.0286 U	0.0266 U
Trichloroethene	mg/kg	0.00549 U	0.00573 U	0.00531 U
Trichlorofluoromethane	mg/kg	0.00549 U	0.00573 U	0.00531 U
Vinyl chloride	mg/kg	0.00549 U	0.00573 U	0.00531 U
Xylene (total)	mg/kg	0.0165 U	0.0172 U	0.0159 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10149-1	620-10149-10	620-10149-11	620-10149-12	620-10149-13
Field Sample ID		2023-MW-08-0002	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzene	mg/kg	0.0567 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U
C5-C8 Aliphatics (adjusted)	mg/kg	1.03	0.306 U	0.264 U	0.255 U	0.247 U
C5-C8 Aliphatics (unadjusted)	mg/kg	1.04	0.306 U	0.264 U	0.255 U	0.247 U
C9-C10 Aromatics	mg/kg	0.152 J	0.306 U	0.264 U	0.255 U	0.247 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.257 J	0.306 U	0.264 U	0.255 U	0.247 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.444	0.306 U	0.264 U	0.255 U	0.247 U
Ethylbenzene	mg/kg	0.0567 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U
m,p-Xylene	mg/kg	0.113 U	0.123 U	0.106 U	0.102 U	0.099 U
Methyl tert-butyl ether	mg/kg	0.0567 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U
Naphthalene	mg/kg	0.102 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U
o-Xylene	mg/kg	0.0355 J	0.0613 U	0.0528 U	0.0509 U	0.0495 U
Toluene	mg/kg	0.013 J	0.0613 U	0.0528 U	0.0509 U	0.0495 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10149-14	620-10149-15	620-10149-16	620-10149-17	620-10149-18
Field Sample ID		2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzene	mg/kg	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U
C5-C8 Aliphatics (adjusted)	mg/kg	1.86	0.268 U	0.249 U	0.238 U	0.239 U
C5-C8 Aliphatics (unadjusted)	mg/kg	1.86	0.268 U	0.249 U	0.238 U	0.239 U
C9-C10 Aromatics	mg/kg	0.143 J	0.268 U	0.249 U	0.238 U	0.239 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.436	0.268 U	0.249 U	0.238 U	0.239 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.622	0.268 U	0.249 U	0.238 U	0.239 U
Ethylbenzene	mg/kg	0.021 J	0.0536 U	0.0499 U	0.0476 U	0.0478 U
m,p-Xylene	mg/kg	0.11 U	0.107 U	0.0998 U	0.0953 U	0.0955 U
Methyl tert-butyl ether	mg/kg	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U
Naphthalene	mg/kg	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U
o-Xylene	mg/kg	0.022 J	0.0536 U	0.0499 U	0.0476 U	0.0478 U
Toluene	mg/kg	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10149-19	620-10149-2	620-10149-20	620-10149-21	620-10149-22
Field Sample ID		2023-SB-09-0002	2023-MW-08-0204	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzene	mg/kg	0.0611 U	0.053 U	0.0533 U	0.0768 U	0.053 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.305 U	0.265 U	0.266 U	0.384 U	0.265 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.305 U	0.265 U	0.266 U	0.384 U	0.265 U
C9-C10 Aromatics	mg/kg	0.305 U	0.265 U	0.266 U	0.26 J	0.265 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.21 J	0.265 U	0.266 U	0.17 J	0.265 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.21 J	0.265 U	0.266 U	0.43	0.265 U
Ethylbenzene	mg/kg	0.0611 U	0.053 U	0.0533 U	0.0768 U	0.053 U
m,p-Xylene	mg/kg	0.122 U	0.106 U	0.107 U	0.154 U	0.106 U
Methyl tert-butyl ether	mg/kg	0.0611 U	0.053 U	0.0533 U	0.0768 U	0.053 U
Naphthalene	mg/kg	0.0456 J	0.053 U	0.0533 U	0.379	0.053 U
o-Xylene	mg/kg	0.0611 U	0.053 U	0.0533 U	0.0768 U	0.053 U
Toluene	mg/kg	0.0611 U	0.053 U	0.0533 U	0.0768 U	0.053 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10149-23	620-10149-24	620-10149-25	620-10149-26	620-10149-27
Field Sample ID		2023-SB-09-0810	2023-SB-09-1012	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzene	mg/kg	0.0675 U	0.0544 U	0.0695 U	0.0572 U	0.0581 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.338 U	0.272 U	0.229 J	0.286 U	0.291 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.338 U	0.272 U	0.229 J	0.286 U	0.291 U
C9-C10 Aromatics	mg/kg	0.338 U	0.272 U	0.347 U	0.286 U	0.291 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.338 U	0.272 U	0.185 J	0.286 U	0.291 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.338 U	0.272 U	0.185 J	0.286 U	0.291 U
Ethylbenzene	mg/kg	0.0675 U	0.0544 U	0.0695 U	0.0572 U	0.0581 U
m,p-Xylene	mg/kg	0.135 U	0.109 U	0.139 U	0.114 U	0.116 U
Methyl tert-butyl ether	mg/kg	0.0675 U	0.0544 U	0.0695 U	0.0572 U	0.0581 U
Naphthalene	mg/kg	0.0675 U	0.0544 U	0.0695 U	0.0572 U	0.0581 U
o-Xylene	mg/kg	0.0675 U	0.0544 U	0.0695 U	0.0572 U	0.0581 U
Toluene	mg/kg	0.0675 U	0.0544 U	0.0695 U	0.0572 U	0.0581 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10149-28	620-10149-29	620-10149-3	620-10149-30	620-10149-31
Field Sample ID		2023-MW-09-0608	2023-MW-09-0810	2023-MW-08-0406	2023-MW-09-1012	2023-FD-08
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-08-0406
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzene	mg/kg	0.0533 U	0.0592 U	0.0564 U	0.0598 U	0.0613 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.267 U	0.296 U	0.209 J	0.299 U	0.306 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.267 U	0.296 U	0.209 J	0.299 U	0.306 U
C9-C10 Aromatics	mg/kg	0.267 U	0.296 U	0.282 U	0.299 U	0.306 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.267 U	0.296 U	0.282 U	0.299 U	0.306 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.267 U	0.296 U	0.282 U	0.299 U	0.306 U
Ethylbenzene	mg/kg	0.0533 U	0.0592 U	0.0564 U	0.0598 U	0.0613 U
m,p-Xylene	mg/kg	0.107 U	0.118 U	0.113 U	0.12 U	0.123 U
Methyl tert-butyl ether	mg/kg	0.0533 U	0.0592 U	0.0564 U	0.0598 U	0.0613 U
Naphthalene	mg/kg	0.0533 U	0.0592 U	0.0564 U	0.0598 U	0.0613 U
o-Xylene	mg/kg	0.0533 U	0.0592 U	0.0564 U	0.0598 U	0.0613 U
Toluene	mg/kg	0.0533 U	0.0592 U	0.0564 U	0.0598 U	0.0613 U

DATA SUMMARY TABLE

Analysis		VPH in Soil				
Lab Sample ID		620-10149-32	620-10149-34	620-10149-4	620-10149-5	620-10149-6
Field Sample ID		2023-FD-09	2023-MW-03-1012	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Sample Type		FD	N	N	N	N
Parent Sample ID		2023-SB-09-1012				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23	03/06/23	03/06/23
Benzene	mg/kg	0.0551 U	0.0584 U	0.0568 U	0.046 U	0.0471 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.275 U	0.292 U	0.284 U	0.23 U	0.236 U
C5-C8 Aliphatics (unadjusted)	mg/kg	0.275 U	0.292 U	0.284 U	0.23 U	0.236 U
C9-C10 Aromatics	mg/kg	0.275 U	0.292 U	0.284 U	0.23 U	0.236 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.275 U	0.292 U	0.284 U	0.23 U	0.236 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.275 U	0.292 U	0.284 U	0.23 U	0.236 U
Ethylbenzene	mg/kg	0.0551 U	0.0584 U	0.0568 U	0.046 U	0.0471 U
m,p-Xylene	mg/kg	0.11 U	0.117 U	0.114 U	0.092 U	0.0943 U
Methyl tert-butyl ether	mg/kg	0.0551 U	0.0584 U	0.0568 U	0.046 U	0.0471 U
Naphthalene	mg/kg	0.0551 U	0.0584 U	0.0568 U	0.046 U	0.0471 U
o-Xylene	mg/kg	0.0551 U	0.0584 U	0.0568 U	0.046 U	0.0471 U
Toluene	mg/kg	0.0551 U	0.0584 U	0.0568 U	0.046 U	0.0471 U

DATA SUMMARY TABLE

Analysis		VPH in Soil		
Lab Sample ID		620-10149-7	620-10149-8	620-10149-9
Field Sample ID		2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406
Sample Type		N	N	N
Parent Sample ID				
Sample Date	**Units**	03/06/23	03/06/23	03/06/23
Benzene	mg/kg	0.052 U	0.0661 U	0.0563 U
C5-C8 Aliphatics (adjusted)	mg/kg	0.26 U	4.28	0.181 J
C5-C8 Aliphatics (unadjusted)	mg/kg	0.26 U	4.28	0.181 J
C9-C10 Aromatics	mg/kg	0.26 U	0.425	0.281 U
C9-C12 Aliphatics (adjusted)	mg/kg	0.26 U	1.33	0.281 U
C9-C12 Aliphatics (unadjusted)	mg/kg	0.26 U	1.81	0.281 U
Ethylbenzene	mg/kg	0.052 U	0.0503 J	0.0563 U
m,p-Xylene	mg/kg	0.104 U	0.132 U	0.113 U
Methyl tert-butyl ether	mg/kg	0.052 U	0.0661 U	0.0563 U
Naphthalene	mg/kg	0.052 U	0.0661 U	0.0563 U
o-Xylene	mg/kg	0.052 U	0.0661 U	0.0563 U
Toluene	mg/kg	0.052 U	0.0661 U	0.0563 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10149-33
Field Sample ID		Trip Blank-08
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/06/23
1,1,1,2-Tetrachloroethane	mg/kg	0.005 U
1,1,1-Trichloroethane	mg/kg	0.005 U
1,1,2,2-Tetrachloroethane	mg/kg	0.005 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.005 U
1,1,2-Trichloroethane	mg/kg	0.005 U
1,1-Dichloroethane	mg/kg	0.005 U
1,1-Dichloroethene	mg/kg	0.005 U
1,1-Dichloropropene	mg/kg	0.005 U
1,2,3-Trichlorobenzene	mg/kg	0.005 U
1,2,3-Trichloropropane	mg/kg	0.005 U
1,2,4-Trichlorobenzene	mg/kg	0.005 U
1,2,4-Trimethylbenzene	mg/kg	0.005 U
1,2-Dibromo-3-chloropropane	mg/kg	0.01 U
1,2-Dibromoethane	mg/kg	0.005 U
1,2-Dichlorobenzene	mg/kg	0.005 U
1,2-Dichloroethane	mg/kg	0.005 U
1,2-Dichloropropane	mg/kg	0.005 U
1,3,5-Trichlorobenzene	mg/kg	0.005 U
1,3,5-Trimethylbenzene	mg/kg	0.005 U
1,3-Dichlorobenzene	mg/kg	0.005 U
1,3-Dichloropropane	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10149-33
Field Sample ID		Trip Blank-08
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/06/23
1,3-Dichloropropene	mg/kg	0.005 U
1,4-Dichlorobenzene	mg/kg	0.005 U
1,4-Dioxane	mg/kg	0.1 U
2,2-Dichloropropane	mg/kg	0.005 U
2-Butanone	mg/kg	0.01 U
2-Chlorotoluene	mg/kg	0.005 U
2-Hexanone	mg/kg	0.01 U
4-Chlorotoluene	mg/kg	0.005 U
4-Isopropyltoluene	mg/kg	0.005 U
4-Methyl-2-pentanone	mg/kg	0.01 U
Acetone	mg/kg	0.05 U
Acrylonitrile	mg/kg	0.005 U
Benzene	mg/kg	0.005 U
Bromobenzene	mg/kg	0.005 U
Bromochloromethane	mg/kg	0.005 U
Bromodichloromethane	mg/kg	0.005 U
Bromoform	mg/kg	0.005 U
Bromomethane	mg/kg	0.01 U
Carbon disulfide	mg/kg	0.01 U
Carbon tetrachloride	mg/kg	0.005 U
Chlorobenzene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10149-33
Field Sample ID		Trip Blank-08
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/06/23
Chloroethane	mg/kg	0.01 U
Chloroform	mg/kg	0.005 U
Chloromethane	mg/kg	0.01 U
cis-1,2-Dichloroethene	mg/kg	0.005 U
cis-1,3-Dichloropropene	mg/kg	0.005 U
Dibromochloromethane	mg/kg	0.005 U
Dibromomethane	mg/kg	0.005 U
Dichlorodifluoromethane	mg/kg	0.01 U
Diethyl ether	mg/kg	0.005 U
Diisopropyl Ether	mg/kg	0.005 U
Ethanol	mg/kg	1 U
Ethylbenzene	mg/kg	0.005 U
Hexachlorobutadiene	mg/kg	0.01 U
Isopropylbenzene	mg/kg	0.005 U
m,p-Xylene	mg/kg	0.005 U
Methyl tert-butyl ether	mg/kg	0.005 U
Methylene chloride	mg/kg	0.01 U
Naphthalene	mg/kg	0.005 U
n-Butylbenzene	mg/kg	0.01 U
n-Propylbenzene	mg/kg	0.005 U
o-Xylene	mg/kg	0.005 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		620-10149-33
Field Sample ID		Trip Blank-08
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/06/23
sec-Butylbenzene	mg/kg	0.005 U
Styrene	mg/kg	0.005 U
tert-Amyl methyl ether	mg/kg	0.005 U
tert-Butyl Alcohol	mg/kg	0.1 U
Tert-Butyl Ethyl Ether	mg/kg	0.005 U
tert-Butylbenzene	mg/kg	0.005 U
Tetrachloroethene	mg/kg	0.005 U
Tetrahydrofuran	mg/kg	0.01 U
Toluene	mg/kg	0.005 U
trans-1,2-Dichloroethene	mg/kg	0.005 U
trans-1,3-Dichloropropene	mg/kg	0.005 U
trans-1,4-Dichlorobutene	mg/kg	0.025 U
Trichloroethene	mg/kg	0.005 U
Trichlorofluoromethane	mg/kg	0.005 U
Vinyl chloride	mg/kg	0.005 U
Xylene (total)	mg/kg	0.015 U

Data Review Qualification Actions
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Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Acetone	2023-SB-10-1012, 2023-SB-10-0406, 2023-SB-11-0204, 2023-SB-11-0608, 2023-SB-09-0810	Laboratory blank contamination	RL (U)	
	Methylene chloride	2023-SB-11-0204	Surrogate recovery	J+	Final qual J due to < RL and MS/MSD recovery
	All compounds.	2023-SB-11-0204	Surrogate recovery	J / UJ	
	Bromomethane, dichlorodifluoromethane, 1,1-Dichloropropene, cis-1,3-dichloropropene, ethyl tert-butyl ether, hexachlorobutadiene, 2-hexanone, 4-isopropyltoluene, methyl tert-butyl ether, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, di-isopropyl ether, methylene chloride	All SB samples, 2023-FD-09	MS/MSD recovery	UJ	UJ all SB results for methylene chloride except 2023-SB-11-0204, which is J due to RPD. See below.
	Methylene chloride	2023-SB-11-0204	MS/MSD RPD	J	
	Acetone, naphthalene	All SB samples, 2023-FD-09	MS/MSD recovery / RPD	J / UJ	

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Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	Ethanol	All SB samples, 2023-FD-09	MS/MSD recovery / RPD	J / A	
	Dichlorodifluoromethane, hexachlorobutadiene, 1,2,4-trichlorobenzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,2-diclorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, isopropylbenzene, 4-isopropyltoluene, naphthalene, n-propylbenzene, 1,3,5-trichlorobenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, diethyl ether	All MW samples, 2023-FD-08	MS/MSD recovery / RPD	UJ	
	1,2,3-Trichlorobenzene	All MW samples, 2023-FD-08	MS/MSD recovery / RPD	J /UJ	
SVOCs					
	Acetophenone, N-nitroso-di-n-propylamine, hexachloroethane, hexachlorocyclopentadiene, nitrobenzene, 2,6-dinitrotoluene, 2,4-dinitrotoluene, N-nitrosodiphenylamine, 3,3-dichlorobenzidine	2023-SB-11-0002	Surrogate recovery	UJ	
	Benzidine, benzoic acid	2023-SB-11-0002 through 2023-MW-09-0406 (620-10149-13 through 620-10149-27)	LCS/LCSD recovery / RPD	UJ	
	Benzoic acid	2023-MW-09-0608 through 2023-FD-09 (620-10149-28 through 620-10149-32), 2023-MW-03-1012	LCS/LCSD recovery / RPD	UJ	
	Hexachlorocyclopentadiene, N-nitrosodimethylamine	All SB samples, 2023-FD-09	MS/MSD recovery	UJ	
	Benzidine, benzoic acid	All MW samples, 2023-FD-08	MS/MSD recovery	J / UJ	

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Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PCBs					
	Aroclor 1254, Aroclor 1260	2023-SB-09-0002, 2023-SB-09-0406	Surrogate recovery	J+	
MassDEP-VPH					
	Naphthalene	2023-MW-08-0002	Laboratory blank contamination	Result (U)	
	Naphthalene	2023-MW-08-0810, 2023-SB-10-1012	Laboratory blank contamination	RL (U)	
MCP-14 Metals / Mercury					
	Antimony	All SB samples, 2023-FD-09	MS/MSD recovery	UJ	
	Barium, lead, vanadium, zinc	All SB samples, 2023-FD-09	MS/MSD recovery	J-	Final quals are J due to laboratory dup precision.
	Lead	All MW samples, 2023-FD-08	MS/MSD recovery	J+	
	Beryllium	All SB samples, 2023-FD-09	Laboratory duplicate precision	J	No ND results.
	Barium, chromium, lead, nickel, vanadium, zinc	All SB samples, 2023-FD-09	Laboratory duplicate precision	J	No ND results.
	Barium, vanadium	2023-SB-10-1012	Serial dilution	J	Results > 50x RL and no serial DL performed.
PFAS					
	NMeFOSAA, NEtFOSAA	2023-MW-08-0204, 2023-MW-08-0406, 2023-MW-08-0608, 2023-SB-11-0002, 2023-SB-11-0406, 2023-SB-11-0608, 2023-SB-11-0810, 2023-SB-09-0002, 2023-SB-09-0204, 2023-SB-09-0406, 2023-SB-09-0608, 2023-MW-09-0002, 2023-MW-09-0204, 2023-MW-09-0810, 2023-MW-09-1012, 2023-MW-03-1012	Surrogate recovery	UJ	

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Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	4:2 FTS, 8:2 FTS, 6:2 FTS, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnA, PFDoDA, PFTeDA, PFBS, PFHxS, PFBA, PFPeA, HFPO-DA	2023-MW-08-0406	Surrogate recovery	UJ	
	4:2 FTS, 8:2 FTS, 6:2 FTS, PFHxA, PFHpA, PFOA, PFDA, PFUnA, PFDoDA, PFTeDA, PFBA, PFPeA	2023-FD-08	Surrogate recovery	UJ	
	NMeFOSAA, NEtFOSAA	2023-FD-08	Surrogate recovery (< 10%)	R	

MW - Monitoring Well
SB Soil Boring
SS Surface Soil
NEtPFOSA - N-ethylperfluoro-1-octanesulfonamide
NMePFOSA - N-methylperfluoro-1-octanesulfonamide
PFPeA - Perfluoropentanoic acid
PFDoDA / PFDoA - Perfluorododecanoic acid
FOSA Perfluorooctylsulfonamide
NMeFOSE - 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
N-EtFOSE-M 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 04/29/2023
Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6010D/7471B)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins New England, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (Metals and PFAS); Eurofins Northeast, Amherst, NY (MassDEP-VPH)
SDG: 620101491
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Thirty-three (33) soil samples, including two field duplicate samples, were listed on the COC for SDG 620101491. One trip blank sample was also included on the COC. The samples were collected on 03/06/2023 and received at the Eurofins New England Laboratory on 03/07/2023 at 4.2 to 4.4 °C. Samples for MassDEP-VPH analysis were subsequently shipped to Eurofins Northeast Laboratory and samples for MCP-14 metals/mercury and PFAS analyses were shipped to Eurofins Lancaster Laboratory for analysis. Samples were received at Eurofins Northeast on 03/09/2023 at 2.3 and 2.6 °C. Samples were received at Eurofins Lancaster Laboratory on 03/09/2023 at 0.9 and 1.2 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-08-0002	620-10149-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-08-0204	620-10149-2	
2023-MW-08-0406	620-10149-3	
2023-MW-08-0608	620-10149-4	
2023-MW-08-0810	620-10149-5	
2023-MW-08-1012	620-10149-6	
2023-SB-10-0002	620-10149-7	
2023-SB-10-0204	620-10149-8	
2023-SB-10-0406	620-10149-9	
2023-SB-10-0608	620-10149-10	
2023-SB-10-0810	620-10149-11	
2023-SB-10-1012	620-10149-12	
2023-SB-11-0002	620-10149-13	
2023-SB-11-0204	620-10149-14	
2023-SB-11-0406	620-10149-15	
2023-SB-11-0608	620-10149-16	
2023-SB-11-0810	620-10149-17	
2023-SB-11-1012	620-10149-18	

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2023-SB-09-0002	620-10149-19	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-SB-09-0204	620-10149-20	
2023-SB-09-0406	620-10149-21	
2023-SB-09-0608	620-10149-22	
2023-SB-09-0810	620-10149-23	
2023-SB-09-1012	620-10149-24	
2023-MW-09-0002	620-10149-25	
2023-MW-09-0204	620-10149-26	
2023-MW-09-0406	620-10149-27	
2023-MW-09-0608	620-10149-28	
2023-MW-09-0810	620-10149-29	
2023-MW-09-1012	620-10149-30	
2023-FD-08	620-10149-31	
2023-FD-09	620-10149-32	
Trip Blank-08	620-10149-33	VOCs
2023-MW-03-1012	620-10149-34	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS

Note that sample 2023-MW-03-1012 does not appear on the COC of samples received at Eurofins New England Laboratory on 3/7/2023 but does however, appear on the Eurofins Northeast Laboratory and Eurofins Lancaster Laboratory COCs as having been received from the Eurofins New England Laboratory on 03/09/2023 with the other samples of this SDG. The samples were analyzed for Mass/DEP-VPH by the Eurofins Northeast Laboratory and for metals/mercury and PFAS by the Eurofins Lancaster Laboratory, as indicated on the COCs. The samples were analyzed for VOCs, SVOC, and PCBs by Eurofins New England Laboratory as otherwise indicated in the laboratory report. No action is taken other than this notation.

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (soil) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for several additional VOCs were also reported by the laboratory. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1'-biphenyl. Based on the QAPPA (February 2023), 1,1'-biphenyl is not a compound of concern for the site. Results for several additional SVOCs were also reported by the laboratory. No actions are required.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory. Results for MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

MassDEP-VPH: Results for all VPH parameters on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, copper, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which do not include these analytes. Note that copper was reported for sample 2023-MW-03-1012 (620-10149-34) only. No actions are required.

PFAS: Results for all PFAS compounds on Table 2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for mercury; within 180 days for all other analytes) were met.

PFAS: Samples were extracted within the QAPP-specified holding time of 28 days from collection. Samples were analyzed within 40 days of extraction. No actions are taken.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Laboratory and Field Blanks

VOCs: Acetone was detected at < RL in VOC laboratory method blank MB 620-20516/3-A (0.03405 mg/kg). Results for acetone in associated samples were non-detect except in samples 2023-SB-10-0406, (620-10149-9), 2023-SB-11-0204 (620-10149-14), 2023-SB-11-0608 (620-10149-16), and 2023-SB-09-0810 (620-10149-23), where acetone was detected at < RL. Based on the National Functional Guidelines (NFGs, 2020), detected acetone results are qualified as non-detect at the RL (RL [U]) in samples 2023-SB-10-0406, 2023-SB-11-0204, 2023-SB-11-0608, and 2023-SB-09-0810 due to laboratory blank contamination.

Acetone was also detected at < RL in laboratory blank MB 62-20616/3-A (0.0297 mg/kg). This laboratory blank is associated with samples 2023-SB-10-1012 (620-10149-12), 2023-MW-09-0608 (620-10149-28-RA), and 2023-FD-08 (620-10149-31). Acetone was not detected in sample 2023-FD-08 and the original analysis of sample 2023-MW-09-0608 was reported rather than the re-analysis based on surrogate recoveries. The original analysis is not associated with this method blank. Therefore, no blank actions are required for these two samples. Acetone was detected at < RL in sample 2023-SB-10-1012. Based on the NFGs (2020), the acetone result in sample 2023-SB-10-1012 is qualified as non-detect at the RL (RL [U[).

Trip blank-08 (620-10149-33) is associated with the samples of this SDG. Results were non-detect for all VOCs. No trip blank actions are required.

Note that the re-analyses of samples 2023-MW08-0810 (620-10149-5), 2023-SB-10-0002 (620-10149-7), 2023-SB-10-0406 (620-10149-9), and 2023-MW-09-0002 (620-10149-25) were reported for the VOC analysis based on surrogate recoveries, as further discussed below. Therefore, the re-analyses of these samples were used in the blank evaluation.

SVOCs: Results for all SVOC laboratory method blanks were non-detect. No blank actions are required.

PCBs: Results for all PCB laboratory method blanks were non-detect. No blank actions are required.

MassDEP-VPH: Naphthalene was detected at < RL in VPH laboratory method blank MB 480-661094/1-A. Results for naphthalene were non-detect in associated samples except for the samples summarized below.

Sample ID	Compound	Blank Result	Sample Result	Action*
2023-MW-08-0002	Naphthalene	< RL	> RL	Result (U)
2023-MW-08-0810		< RL	< RL	RL (U)
2023-SB-10-1012		< RL	< RL	RL (U)

* Professional judgement was used to base actions on the NFGs (2020) for VOC analysis.

MCP-14 Metals/Mercury: Chromium was detected at < RL in laboratory blank MB 410-353642/1-A (0.3801 mg/kg). This blank is associated with sample 2023-MW-09-0406 (620-10149-27). Chromium was detected in the associated sample at a concentration > 10x the blank concentration. Therefore, the concentration of chromium in the laboratory blank is considered to have an insignificant impact on the concentration detected in the associated sample and no blank actions are required.

PFAS: Results for PFAS were non-detect in all laboratory method blanks. No blank actions are required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: The laboratory indicated in their case narrative that several samples were re-analyzed due to internal standard recovery exceedances. Results of the re-analyses confirmed the original internal standard results and the original analyses of the samples were reported. However, based on surrogate recoveries of the samples, the results of the re-analyses for the following samples were reported and used to evaluate surrogate recovery:

2023-MW-08-0810 (620-10149-5)
2023-SB-10-0002 (620-10149-7)
2023-SB-10-0406 (620-10149-9)
2023-MW-09-0002 (620-10149-25)

Percent surrogate recoveries for all samples were within the Program QAPP limits of 70-130% except for the recoveries of surrogates 4-bromofluorobenzene (BFB), 1,2-dichloroethane-d4 (1,2-DCA), and dibromofluorobenzene (DBFM) in sample 2023-SB-11-0204 (620-10149-14), where the recoveries were 65%, 165%, and 161%, respectively. Professional judgement was used to qualify results in the sample as estimated (J/UJ) due to surrogate recoveries being high and low.

SVOC: Percent surrogate recoveries for the samples were within the Program QAPP limits of 30-130% except for the recovery of nitrobenzene-d5 in sample 2023-SB-11-0002 (620-10149-13) (19%). Based on Table 3 of the EPA SFAM01.1 Contract Laboratory Program (CLP) Statement of Work (SOW) for SVOC analysis (May 2019), the following SVOCs are associated with the surrogate nitrobenzene-d5:

Acetophenone	N-Nitroso-di-n-propylamine
Hexachloroethane	Hexachlorocyclopentadiene
Nitrobenzene	2,6-Dinitrotoluene
2,4-Dinitrotoluene	N-Nitrosodiphenylamine
3,3'-Dichlorobenzidine	

There were no detected results for the associated SVOCs in sample 2023-SB-11-0002. Therefore, based on the NFGs (2020), the non-detect results for the SVOCs listed above are qualified as estimated (UJ) in sample 2023-SB-11-0002 due to the low surrogate recovery.

PCBs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 30-150% on both analytical columns, except for the recovery of decachlorobiphenyl (DCB) on the primary (DCB1) column for samples 2023-SB-09-0002 (620-10149-19), 2023-SB-09-0406 (620-10149-21) and 2023-SB-09-1012 (620-10149-24) (199%, 305%, and 153%, respectively). Aroclors 1254 and 1260 were detected in samples 2023-SB-09-0002 and 2023-SB-09-0406. Based on the NFGs (2020), the detected results for Aroclors 1254 and 1260 in samples 2023-SB-09-0002 and 2023-SB-09-0406 are qualified as estimated with a potential high bias (J+) due to the high surrogate recoveries on the primary column. Aroclor results were non-detect in sample 2023-SB-09-1012. Non-detect Aroclor results are accepted unqualified for surrogate recovery since the potential bias is high.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.

PFAS: Percent recoveries of several surrogates did not meet the Program QAPP limits of 50-150% in several samples. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), non-detect results with associated surrogate recovery below limits are qualified as estimated (UJ). Non-detect results with associated surrogate recovery above limits are accepted unqualified since the potential bias is high. Non-detect results with associated surrogate recoveries < 10% are rejected (R). Refer to the Data Review Qualification Actions Table for action details. Note that sample 2023-FD-08 (620-10149-31) was re-analyzed by the laboratory due to poor surrogate recoveries in the original analysis. Results for the re-analysis of the sample confirmed the recoveries in the original analysis; therefore, results for the original analysis are reported for this sample.

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover. Five VOC LCS/LCSD pairs were analyzed; all percent LCS/LCSD recoveries met the Program QAPP recovery limits of 70-130% (or 40 -160% for difficult compounds) except for the 1,2-dibromo-3-chloropropane recovery in the LCS of LCS/LCSD pair 620-20516/1-A and 2-A, where the recovery was 139%. This compound is not considered a “difficult to recover” compound and therefore, the 70-130% limits apply. Results for 1,2-dibromo-3-chloropropane were all non-detect in the associated samples. Professional judgement, based on the NFGs (2020) for the VOC MS/MSD analyses, was used to accept the non-detect results in associated samples since the potential bias is high. No further action is required.

SVOCs: LCS/LCSD percent recoveries met the Program QAPP limits of 40-140% for base/neutral compounds and 30-130% for acid compounds except for the percent recoveries for benzidine and/or benzoic acid in LCS/LCSD pairs 620-20865/2-A and 3-A and 620-20686/2-A and 3-A, where the percent recoveries were below the QAPP limits and the RPDs were greater than the limit of ≤ 30% specified in the QAPP. Benzidine and benzoic acid are not MCP CAM compounds identified as “potentially difficult”. Results for benzidine and benzoic acid were non-detect in associated samples. Professional judgement was used to qualify the non-detect results for benzidine and benzoic acid in associated samples 2023-SB-11-0002 (620-10149-13) through 2023-MW-09-0406 (620-10149-27) as estimated (UJ) rather than rejected (R) since the recoveries in the LCS/LCSD pair 620-20629/2-A and 3-A were acceptable. Similarly, professional judgement was used to qualify the non-detect results for benzoic acid in associated samples 2023-MW-09-0608 (620-10149-28) through 2023-FD-09 (620-10149-32) and 2023-MW-03-1012 (620-10149-34) as estimated (UJ) rather than rejected (R) since recoveries in the LCS/LCSD pair 620-20692/2-A and 3-A were acceptable. Since the associated results were nondetect, no qualifications were required due to RPD outside criteria.

PCBs: Percent recoveries of Aroclors 1016 and 1260 met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30% in all LCS/LCSD pairs. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pairs met the Program QAPP recovery limits of 70-130%. All RPDs met the Program QAPP RPD limit of ≤ 25%. No actions are required.

MCP-14 Metals/Mercury: Percent recoveries for all metals and mercury LCS analyses were within the limits of 80-120%. The Program QAPP and MCP CAM recovery limits for soil are within vendor 95% confidence limits. Vendor limits were not presented in the laboratory report; the

laboratory used 80-120% as recovery limits based on MassDEP CAM Method 6010D for aqueous samples. Professional judgement was used to accept sample results for metals and mercury unqualified for LCS performance since recoveries were all within 80-120% limits.

PFAS: Percent recoveries for all PFAS LCS analyses met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS results. An LCSD was not analyzed for the PFAS analysis since MSD and/or laboratory duplicate analyses were provided in the laboratory report. Per the Program QAPP, an LCSD for the PFAS analysis is only required if MSD analyses are not provided. No actions are required.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix, unless otherwise noted.

Based on professional judgement, qualifications are applied to soil boring (SB) and monitoring well (MW) samples separately, based on associated MS/MSD sample type, unless otherwise indicated.

VOCs: MS/MSD analyses were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). Percent recovery and RPD exceedances as well as actions taken are summarized below.

2023-SB-10-1012

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Acetone	60		33	70-130% / ≤ 30%	J / UJ
Bromomethane	69	140	68		UJ
Dichlorodifluoromethane	64		37		UJ
1,1-Dichloropropene	68		59		UJ
cis-1,3-Dichloropropene	68		54		UJ
Hexachlorobutadiene	56		59		UJ
2-Hexanone	60		60		UJ
4-Isopropyltoluene	69	134	64		UJ
Methyl tert-butyl ether	69		47		UJ
Naphthalene	43		78		J / UJ
1,2,3-Trichlorobenzene	51		65		UJ
1,2,4-Trichlorobenzene	50		70		UJ
1,3,5-Trichlorobenzene	57		68	70-130% / ≤ 30%	UJ
Ethyl tert-butyl ether	68		46		UJ
Di-Isopropyl ether	68		51		UJ
1,1,2-Trichlorotrifluoroethane		133	40		A
Acrylonitrile		132			A
Bromodichloromethane		133	33		A
n-Butylbenzene		147	67		A
sec-Butylbenzene		135	56		A
Carbon disulfide		131	50		A
Chlorobenzene		143	41		A
Chloroethane		167	75		A
Chloromethane		135	46		A
1,4-Dichlorobenzene		132	45		A

1,1-Dichloroethane		137	42		A
1,1-Dichloroethene		136	52		A
trans-1,2-Dichloroethene		136	52		A
1,2-Dichloropropane		141	41		A
Ethylbenzene		138	46		A
n-Propylbenzene		140	52		A
1,1,2,2-Tetrachloroethane		135			A
1,1,2-Trichloroethane		131			A
Trichlorofluoromethane		158	57		A
Vinyl chloride		160	71		A
m,p-Xylene		146	45		A
o-Xylene			51		A
Tetrahydrofuran		131	46		A
Ethanol		135	45		J / A
Benzene			42		A
Bromobenzene			35		A
tert-Butylbenzene			56		A
Carbon tetrachloride			39		A
Chloroform			35		A
2-Chlorotoluene			40		A
4-Chlorotoluene			48		A
1,2-Dibromo-3-chloroprane			34		A
1,2-Dichlorobenzene			43		A
1,3-Dichlorobenzene			39		A
1,2-Dichloroethane			31		A
cis-1,2-Dichloroethene			46		A
1,3-Dichloropropane			36		A
2,2-Dichloropropane			47		A
trans-1,3-Dichloropropene			42		A
Isopropylbenzene			55		A
4-Methyl-2-pentanone			49		A
Methylene chloride			33		J / A
Styrene			52		A
Tetrachloroethene			37		A
Toluene			42		A
1,1,1-Trichloroethane			40		A
Trichloroethene			50	70-130% / ≤ 30%	A
1,3,5-Trichlorobenzene			68		A
1,2,4-Trimethylbenzene			51		A
1,3,5-Trimethylbenzene			48		A
Diethyl ether			44		A
tert-Amyl methyl ether			45		A
trans-1,4-Dichloro-2-butene			50		A
tert-Butyl alcohol			33		A

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for all compounds to all SB samples.

Detected and non-detect acetone results were qualified as estimated (J/UJ) in the SB samples. Qualifications for acetone were applied after blank actions. Based on the NFGs (2020), non-detect results for compounds with high recoveries and/or RPDs are accepted unqualified for MS/MSD results. Detected results for methylene chloride were qualified as estimated (J) in the SB samples due to a high RPD for the compound. Note methylene chloride was only detected in sample 2023-SB-11-0204.

2023-MW-09-0406

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Chloroethane	138		46	70-130% / ≤ 30%	A
Dichlorodifluoromethane	68				UJ
Hexachlorobutadiene	65	36	47		UJ
1,2,4-Trichlorobenzene	64	40	33		UJ
n-Butylbenzene		46	59		UJ
sec-Butylbenzene		59			UJ
tert-Butylbenzene		60			UJ
2-Chlorotoluene		67			UJ
4-Chlorotoluene		63			UJ
1,2-Dichlorobenzene		69			UJ
1,3-Dichlorobenzene		64			UJ
1,4-Dichlorobenzene		67			UJ
Isopropylbenzene		66			UJ
4-Isopropyltoluene		49	47		UJ
Naphthalene		48			UJ
n-Propylbenzene		65			UJ
1,2,3-Trichlorobenzene	68	47			J / UJ
1,3,5-Trichlorobenzene		43	43		UJ
1,2,4-Trimethylbenzene		61			UJ
1,3,5-Trimethylbenzene		65			UJ
Diethyl ether		66			UJ
1,2,3-Trichloropropane			31		A
1,1,2,2-Tetrachloroethane			31		A
Bromomethane			35		A
Bromoform			35		A
Acetone			52		A

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for all compounds to all MW samples.

Based on the NFGs (2020), detected and non-detect results for compounds with low recoveries were qualified as estimated (J/UJ). Detected results for compounds with high recoveries are qualified as estimated and the non-detect results were accepted (A) unqualified since the potential bias is high. Non-detect results for compounds with high RPDs are accepted unqualified for MS/MSD results.

SVOCs: MS/MSD analyses were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). Percent recovery and RPD exceedances as well as actions taken are summarized below.

2023-SB-10-1012

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
3,3'-Dichlorobenzidine	137	ok	ok	40-140% / ≤ 30%	A - all ND
Hexachlorocyclopentadiene	ok	35	ok	40-140% / ≤ 30%	UJ – all ND
N-Nitrosodimethylamine	38	ok	50	40-140% / ≤ 30%	UJ – all ND
Benzidine	ok	ok	39	40-140% / ≤ 30%	A – all ND

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions for all compounds to all SB samples.

2023-MW-09-0406

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
Benzidine	34	ok	46	40-140% / ≤ 30%	UJ – all ND
Benzoic acid	34	ok	ok	30-130% / ≤ 30%	J / UJ

* Actions are based on the NFGs (2020). Professional judgement was used to apply actions to all MW samples.

PCBs: Only Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, actions were applied to associated Aroclors:

If only 1016/1260 spiked into the MS/MSD, apply actions to the following Aroclors:
If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). The recoveries of Aroclors 1016 and 1260 meet the Program QAPP limits of 40-140% and RPD ≤ 30% in both MS/MSD pairs. No actions are required.

MassDEP-VPH: MS/MSD analyses were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). Recoveries and RPDs met the Program QAPP limits of 70-130% recovery and ≤ 50% RPD. No actions are required.

MCP-14 Metals/Mercury: MS/MSD analyses for MCP-14 metals were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27).

Percent recoveries for antimony, zinc, barium, lead, and vanadium were below the Program QAPP limits of 75-125% in the MS and/or MSD analyses of sample 2023-SB-10-1012. Percent recoveries ranged from 37% (barium and zinc) to 70% (zinc). Professional judgement was used to apply actions to all SB samples. Antimony results were non-detect in all SB samples; results for barium, lead, vanadium, and zinc were all detected in the SB samples. Based on the NFGs (2020), the non-detect results for antimony were qualified as estimated (UJ) in all SB samples and the detected results for barium, lead, vanadium, and zinc were qualified as estimated with a potential low bias (J-) in all SB samples due to the low MS and/or MSD recoveries. Note that the final qualifier for the barium, lead, vanadium, and zinc results was estimated (J) with an indeterminate bias due to laboratory duplicate precision, as further discussed below. RPDs met the QAPP limit of ≤ 35%. Thallium was not recovered in either the MS or MSD analysis of sample 2023-SB-10-1012, likely due to a 10x dilution required for reporting other analytes in the samples. Professional judgement was used to accept the thallium results in all SB samples unqualified.

Percent recoveries for lead exceeded the Program QAPP limits of 75-125% in the MS and MSD analyses of sample 2023-MW-09-0406 (620-10149-27) (130% and 127%, respectively). Professional judgement was used to apply actions to all MW soil samples. Lead results were detected in all MW soil samples. Based on the NFGs (2020), the detected lead results were qualified as estimated with a potential high bias (J+) in all MW soil samples due to the high MS/MSD recoveries. The RPD met the QAPP limit of ≤ 35%.

MS/MSD analyses for mercury were also performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). Results for the mercury MS/MSD analyses for both parent samples met the Program QAPP limits of 75-125% recovery and RPD ≤ 35%. No actions are required.

PFAS: MS/MSD analyses were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). Recoveries for all PFAS compounds were within the

laboratory limits and all RPDs were ≤ 30%, as specified in the Program QAPP. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include MS/MSD recovery limits for PFAS. Therefore, the laboratory-established recovery and RPD limits were used to evaluate the MS/MSD results. No actions are required.

9. Laboratory Duplicates (metals only)

MCP-14 Metals/Mercury: Laboratory duplicate analyses were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27).

The laboratory duplicate criterion (≤ 35% RPD) was exceeded for arsenic, barium, beryllium, chromium, lead, nickel, vanadium, and zinc in the laboratory duplicate analysis of sample 2023-SB-10-1012. RPDs ranged from 37% (arsenic) to 66% (vanadium). Original and duplicate sample results for arsenic and beryllium were < 5x RL. The absolute difference between the arsenic results was < RL and the absolute difference between the beryllium results was > RL. Professional judgement was used to apply laboratory duplicate actions to all SB samples. Based on the NFGs (2020), the detected arsenic results in all SB samples are accepted unqualified for laboratory duplicate precision and the detected beryllium results in all SB samples are qualified as estimated (J) due to poor laboratory duplicate precision. Detected results for barium, chromium, lead, nickel, vanadium, and zinc were all > 5x RL in the original and/or duplicate analyses. Based on the NFGs (2020), the detected results for barium, chromium, lead, nickel, vanadium, and zinc are qualified as estimated (J) in all SB samples due to poor laboratory duplicate precision.

Laboratory duplicate analyses for mercury were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). Mercury results were non-detect in the original and duplicate analyses for both samples. Therefore, RPDs were not calculated by the laboratory and laboratory duplicate performance is considered acceptable. No actions are taken.

Note that Table 2-12-2 of the Program QAPP lists a laboratory duplicate as a QC sample for the PFAS analysis with no associated QC limit. A laboratory duplicate analysis was not reported by the laboratory for the PFAS analysis. The EPA Data Review and Validation Guidelines for PFAS (November 2018) does not include discussion of laboratory duplicate analyses. No actions are taken.

10. Serial Dilution (metals only)

MCP-14 Metals/Mercury: A serial dilution analysis was not performed for this SDG. The Massachusetts CAM requires a serial dilution analysis on samples used for MS/MSD analyses where analytes are detected at > 50x RL. MS/MSD analyses were performed on samples 2023-SB-10-1012 (620-10149-12) and 2023-MW-09-0406 (620-10149-27). Detected analyte results were < 50x RL for both samples used for MS/MSD analyses except for barium and vanadium in sample 2023-SB-10-1012, where barium and vanadium were detected at > 50x RL. Based on the NFGs, results in samples of a similar matrix are qualified as estimated (J/UJ) if a serial dilution analysis is not performed. Professional judgement was used to limit actions for barium and vanadium to sample 2023-SB-10-1012 only since barium and vanadium results were < 50x RL in all other SB samples. The detected barium and vanadium results in sample 2023-SB-10-1012 are qualified as estimated (J) due to a serial dilution not being performed. There were no detections > 50x RL in MS/MSD parent sample 2023-MW-09-0406. Sample results are accepted unqualified for this sample.

11. Field Duplicate Precision

Field duplicate pairs 2023-MW-08-0406 (620-10149-3) / 2023-FD-08 (620-10149-31) and 2023-SB-09-1012 (620-10149-24) / 2023-FD-09 (620-10149-32) are associated with the soil samples of this SDG. Acceptable field duplicate precision is an RPD of ≤ 50% for results > 5x RL and an absolute difference < 4x RL for results < 5x RL, based on the EPA Region 1 Supplement (2020).

Based on the Region 1 Supplement (2020), qualifications are applied to all field samples with similar matrix, unless otherwise indicated.

Field duplicate precision criteria were met for all analytical parameters for both field duplicate pairs. No actions are required.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections. No action is taken.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

RLs for non-detect results for VOCs, PCBs, and MassDEP-VPH analyses meet the Project Action Levels (PALs) for the site.

RLs for non-detect results for the SVOCs 1,4-dichlorobenzene and hexachlorobenzene exceed the PALs of 1 mg/kg and 0.7 mg/kg, respectively, in samples 2023-SB-09-0204 and 2023-SB-09-0406. Site objectives may be impacted.

RLs for non-detect MCP-14 metals/mercury results met the PALs for the site except for the thallium RLs in the following samples, where the PAL of 8 mg/kg was exceeded:

2023-SB-10-1012	2023-SB-11-0002
2023-SB-11-081	2023-SB-11-1012
2023-SB-09-0608	2023-SB-09-0810
2023-MW-09-0810	2023-MW-09-1012
2023-MW-03-1012	

RLs ranged from 26.6 mg/kg to 34.1 mg/kg. Thallium results for these samples were reported with a dilution factor of 10x to report the other analytes. Site objectives may be impacted.

Note there are no PALs associated with the PFAS analysis.

16. Other

Region 1 Supplement (2020) criterion for percent solids content (> 30%) was met for all soil samples. No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620101491 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-MW-08-0406**		**2023-FD-08**				
	620-10149-3		**620-10149-31**				
1,1,1,2-Tetrachloroethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,1,1-Trichloroethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,1,2,2-Tetrachloroethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,1,2-Trichloroethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,1-Dichloroethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,1-Dichloroethene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,1-Dichloropropene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2,3-Trichlorobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2,3-Trichloropropane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2,4-Trichlorobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2,4-Trimethylbenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2-Dibromo-3-chloropropane	0.0107	U	0.0105	U	-1.89		Ok - both ND
1,2-Dibromoethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2-Dichlorobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2-Dichloroethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,2-Dichloropropane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,3,5-Trichlorobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,3,5-Trimethylbenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,3-Dichlorobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,3-Dichloropropane	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,3-Dichloropropene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,4-Dichlorobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
1,4-Dioxane	0.107	U	0.105	U	-1.89		Ok - both ND
2,2-Dichloropropane	0.00537	U	0.00525	U	-2.26		Ok - both ND
2-Butanone	0.0107	U	0.0105	U	-1.89		Ok - both ND
2-Chlorotoluene	0.00537	U	0.00525	U	-2.26		Ok - both ND
2-Hexanone	0.0107	U	0.0105	U	-1.89		Ok - both ND
4-Chlorotoluene	0.00537	U	0.00525	U	-2.26		Ok - both ND
4-Isopropyltoluene	0.00537	U	0.00525	U	-2.26		Ok - both ND
4-Methyl-2-pentanone	0.0107	U	0.0105	U	-1.89		Ok - both ND
Acetone	0.0537	U	0.0525	U	-2.26		Ok - both ND
Acrylonitrile	0.00537	U	0.00525	U	-2.26		Ok - both ND
Benzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Bromobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Bromochloromethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
Bromodichloromethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
Bromoform	0.00537	U	0.00525	U	-2.26		Ok - both ND
Bromomethane	0.0107	U	0.0105	U	-1.89		Ok - both ND
Carbon disulfide	0.0107	U	0.0105	U	-1.89		Ok - both ND
Carbon tetrachloride	0.00537	U	0.00525	U	-2.26		Ok - both ND
Chlorobenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Chloroethane	0.0107	U	0.0105	U	-1.89		Ok - both ND
Chloroform	0.00537	U	0.00525	U	-2.26		Ok - both ND
Chloromethane	0.0107	U	0.0105	U	-1.89		Ok - both ND
cis-1,2-Dichloroethene	0.00537	U	0.00525	U	-2.26		Ok - both ND
cis-1,3-Dichloropropene	0.00537	U	0.00525	U	-2.26		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Dibromochloromethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
Dibromomethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
Dichlorodifluoromethane	0.0107	U	0.0105	U	-1.89		Ok - both ND
Diethyl ether	0.00537	U	0.00525	U	-2.26		Ok - both ND
Diisopropyl Ether	0.00537	U	0.00525	U	-2.26		Ok - both ND
Ethanol	1.07	U	1.05	U	-1.89		Ok - both ND
Ethylbenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Hexachlorobutadiene	0.0107	U	0.0105	U	-1.89		Ok - both ND
Isopropylbenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
m,p-Xylene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Methyl tert-butyl ether	0.00537	U	0.00525	U	-2.26		Ok - both ND
Methylene chloride	0.0107	U	0.0105	U	-1.89		Ok - both ND
Naphthalene	0.00537	U	0.00525	U	-2.26		Ok - both ND
n-Butylbenzene	0.0107	U	0.0105	U	-1.89		Ok - both ND
n-Propylbenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
o-Xylene	0.00537	U	0.00525	U	-2.26		Ok - both ND
sec-Butylbenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Styrene	0.00537	U	0.00525	U	-2.26		Ok - both ND
tert-Amyl methyl ether	0.00537	U	0.00525	U	-2.26		Ok - both ND
tert-Butyl Alcohol	0.107	U	0.105	U	-1.89		Ok - both ND
Tert-Butyl Ethyl Ether	0.00537	U	0.00525	U	-2.26		Ok - both ND
tert-Butylbenzene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Tetrachloroethene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Tetrahydrofuran	0.0107	U	0.0105	U	-1.89		Ok - both ND
Toluene	0.00537	U	0.00525	U	-2.26		Ok - both ND
trans-1,2-Dichloroethene	0.00537	U	0.00525	U	-2.26		Ok - both ND
trans-1,3-Dichloropropene	0.00537	U	0.00525	U	-2.26		Ok - both ND
trans-1,4-Dichlorobutene	0.0269	U	0.0263	U	-2.26		Ok - both ND
Trichloroethene	0.00537	U	0.00525	U	-2.26		Ok - both ND
Trichlorofluoromethane	0.00537	U	0.00525	U	-2.26		Ok - both ND
Vinyl chloride	0.00537	U	0.00525	U	-2.26		Ok - both ND
Xylene (total)	0.0161	U	0.0158	U	-1.88		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-MW-08-0406**		**2023-FD-08**				
	620-10149-3		**620-10149-31**				
1,2,4,5-Tetrachlorobenzene	0.361	U	0.366	U	1.38		Ok - both ND
1,2,4-Trichlorobenzene	0.361	U	0.366	U	1.38		Ok - both ND
1,2-Dichlorobenzene	0.361	U	0.366	U	1.38		Ok - both ND
1,3-Dichlorobenzene	0.361	U	0.366	U	1.38		Ok - both ND
1,4-Dichlorobenzene	0.361	U	0.366	U	1.38		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.183	U	0.185	U	1.09		Ok - both ND
2,4,5-Trichlorophenol	0.361	U	0.366	U	1.38		Ok - both ND
2,4,6-Trichlorophenol	0.183	U	0.185	U	1.09		Ok - both ND
2,4-Dichlorophenol	0.183	U	0.185	U	1.09		Ok - both ND
2,4-Dimethylphenol	0.361	U	0.366	U	1.38		Ok - both ND
2,4-Dinitrophenol	0.361	U	0.366	U	1.38		Ok - both ND
2,4-Dinitrotoluene	0.183	U	0.185	U	1.09		Ok - both ND
2,6-Dinitrotoluene	0.183	U	0.185	U	1.09		Ok - both ND
2-Chloronaphthalene	0.361	U	0.366	U	1.38		Ok - both ND
2-Chlorophenol	0.183	U	0.185	U	1.09		Ok - both ND
2-Methylnaphthalene	0.073	U	0.074	U	1.36		Ok - both ND
2-Methylphenol	0.361	U	0.366	U	1.38		Ok - both ND
2-Nitroaniline	0.361	U	0.366	U	1.38		Ok - both ND
2-Nitrophenol	0.183	U	0.185	U	1.09		Ok - both ND
3 & 4 Methylphenol	0.361	U	0.366	U	1.38		Ok - both ND
3,3'-Dichlorobenzidine	0.361	U	0.366	U	1.38		Ok - both ND
3-Nitroaniline	0.361	U	0.366	U	1.38		Ok - both ND
4,6-Dinitro-2-methylphenol	0.361	U	0.366	U	1.38		Ok - both ND
4-Bromophenyl-phenylether	0.361	U	0.366	U	1.38		Ok - both ND
4-Chloro-3-methylphenol	0.361	U	0.366	U	1.38		Ok - both ND
4-Chloroaniline	0.183	U	0.185	U	1.09		Ok - both ND
4-Chlorophenyl-phenylether	0.361	U	0.366	U	1.38		Ok - both ND
4-Nitroaniline	0.183	U	0.185	U	1.09		Ok - both ND
4-Nitrophenol	0.361	U	0.366	U	1.38		Ok - both ND
Acenaphthene	0.073	U	0.074	U	1.36		Ok - both ND
Acenaphthylene	0.073	U	0.074	U	1.36		Ok - both ND
Acetophenone	0.183	U	0.185	U	1.09		Ok - both ND
Aniline	0.361	U	0.366	U	1.38		Ok - both ND
Anthracene	0.073	U	0.074	U	1.36		Ok - both ND
Azobenzene	0.361	U	0.366	U	1.38		Ok - both ND
Benzidine	0.723	U	0.732	U	1.24		Ok - both ND
Benzo(a)anthracene	0.073	U	0.074	U	1.36		Ok - both ND
Benzo(a)pyrene	0.073	U	0.074	U	1.36		Ok - both ND
Benzo(b)fluoranthene	0.073	U	0.074	U	1.36		Ok - both ND
Benzo(g,h,i)perylene	0.073	U	0.074	U	1.36		Ok - both ND
Benzo(k)fluoranthene	0.073	U	0.074	U	1.36		Ok - both ND
Benzoic Acid	0.361	U	0.366	U	1.38		Ok - both ND
Benzyl Alcohol	0.361	U	0.366	U	1.38		Ok - both ND
Bis(2-chloroethoxy)methane	0.361	U	0.366	U	1.38		Ok - both ND
Bis(2-chloroethyl)ether	0.183	U	0.185	U	1.09		Ok - both ND
bis-(2-chloroisopropyl)ether	0.183	U	0.185	U	1.09		Ok - both ND
Bis(2-ethylhexyl)phthalate	0.291		0.171	J	-51.95	-0.12	Ok - abs diff < 4x RL

Field Duplicate Evaluation

SDG: 620101491 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Butylbenzylphthalate	0.361	U	0.366	U	1.38		Ok - both ND
Carbazole	0.183	U	0.185	U	1.09		Ok - both ND
Chrysene	0.073	U	0.074	U	1.36		Ok - both ND
Dibenz(a,h)anthracene	0.073	U	0.074	U	1.36		Ok - both ND
Dibenzofuran	0.183	U	0.185	U	1.09		Ok - both ND
Diethylphthalate	0.361	U	0.366	U	1.38		Ok - both ND
Dimethylphthalate	0.361	U	0.366	U	1.38		Ok - both ND
Di-N-Butylphthalate	0.361	U	0.366	U	1.38		Ok - both ND
Di-N-Octyl Phthalate	0.361	U	0.366	U	1.38		Ok - both ND
Fluoranthene	0.073	U	0.074	U	1.36		Ok - both ND
Fluorene	0.073	U	0.074	U	1.36		Ok - both ND
Hexachlorobenzene	0.183	U	0.185	U	1.09		Ok - both ND
Hexachlorobutadiene	0.183	U	0.185	U	1.09		Ok - both ND
Hexachlorocyclopentadiene	0.183	U	0.185	U	1.09		Ok - both ND
Hexachloroethane	0.183	U	0.185	U	1.09		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.073	U	0.074	U	1.36		Ok - both ND
Isophorone	0.183	U	0.185	U	1.09		Ok - both ND
Naphthalene	0.073	U	0.074	U	1.36		Ok - both ND
Naphthalene, 1-methyl-	0.073	U	0.074	U	1.36		Ok - both ND
Nitrobenzene	0.183	U	0.185	U	1.09		Ok - both ND
N-Nitrosodimethylamine (NDMA)	0.183	U	0.185	U	1.09		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.183	U	0.185	U	1.09		Ok - both ND
N-Nitrosodiphenylamine	0.361	U	0.366	U	1.38		Ok - both ND
Pentachloronitrobenzene	0.361	U	0.366	U	1.38		Ok - both ND
Pentachlorophenol	0.361	U	0.366	U	1.38		Ok - both ND
Phenanthrene	0.073	U	0.074	U	1.36		Ok - both ND
Phenol	0.361	U	0.366	U	1.38		Ok - both ND
Pyrene	0.073	U	0.074	U	1.36		Ok - both ND
Pyridine	0.361	U	0.366	U	1.38		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-MW-08-0406**		**2023-FD-08**				
	620-10149-3		**620-10149-31**				
Aroclor 1016	0.0223	U	0.0221	U	-0.90		Ok - both ND
Aroclor 1221	0.0223	U	0.0221	U	-0.90		Ok - both ND
Aroclor 1232	0.0223	U	0.0221	U	-0.90		Ok - both ND
Aroclor 1242	0.0223	U	0.0221	U	-0.90		Ok - both ND
Aroclor 1248	0.0223	U	0.0221	U	-0.90		Ok - both ND
Aroclor 1254	0.0301		0.032		6.12	0.002	Ok - abs diff < 4x RL
Aroclor 1260	0.0223	U	0.0221	U	-0.90		Ok - both ND
Aroclor 1262	0.0223	U	0.0221	U	-0.90		Ok - both ND
Aroclor 1268	0.0223	U	0.0221	U	-0.90		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-MW-08-0406**		**2023-FD-08**				
	620-10149-3		**620-10149-31**				
Benzene	0.0564	U	0.0613	U			Ok - both ND
C5-C8 Aliphatics (adjusted)	0.209	J	0.306	U			Ok - ND and < RL
C5-C8 Aliphatics (unadjusted)	0.209	J	0.306	U			Ok - ND and < RL
C9-C10 Aromatics	0.282	U	0.306	U			Ok - both ND
C9-C12 Aliphatics (adjusted)	0.282	U	0.306	U			Ok - both ND
C9-C12 Aliphatics (unadjusted)	0.282	U	0.306	U			Ok - both ND
Ethylbenzene	0.0564	U	0.0613	U			Ok - both ND
m,p-Xylene	0.113	U	0.123	U			Ok - both ND
Methyl tert-butyl ether	0.0564	U	0.0613	U			Ok - both ND
Naphthalene	0.0564	U	0.0613	U			Ok - both ND
o-Xylene	0.0564	U	0.0613	U			Ok - both ND
Toluene	0.0564	U	0.0613	U			Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-MW-08-0406**		**2023-FD-08**				
	620-10149-3		**620-10149-31**				
Antimony	4.4	U	5.04	U	13.6		Ok - both ND
Arsenic	2.01	J	2.77	J	31.8		Ok - both < RL
Barium	13.5		12.6		-6.9		Ok - RPD < 50%
Beryllium	0.368	J	0.491	J	28.6		Ok - both < RL
Cadmium	0.44	U	0.504	U	13.6		Ok - both ND
Chromium	5.3		8.4		45.3	3.10	Ok - abs diff < 4x RL
Lead	6.93		8.56		21.0		Ok - RPD < 50%
Mercury	0.0534	J	0.0385	J	-32.4		Ok - both < RL
Nickel	2.31		2.95		24.3	0.64	Ok - abs diff < 4x RL
Selenium	1.49	J	5.04	U	108.7		Ok - ND and < RL
Silver	0.881	U	1.01	U	13.6		Ok - both ND
Thallium	1.85	J	3.02	U	48.0		Ok - ND and < RL
Vanadium	7.98		8.76		9.3		Ok - RPD < 50%
Zinc	14.5		17.5		18.8		Ok - RPD < 50%

Field Duplicate Evaluation

SDG: 620101491 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-MW-08-0406**		**2023-FD-08**				
	620-10149-3		**620-10149-31**				
10:2 FTS	2.05	U	2.15	U	4.76		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.615	U	0.645	U	4.76		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.05	U	2.15	U	4.76		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.05	U	2.15	U	4.76		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.08	U	3.23	U	4.75		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.05	U	2.15	U	4.76		Ok - both ND
6:2 Fluorotelomer sulfonate	2.05	U	2.15	U	4.76		Ok - both ND
8:2 Fluorotelomer sulfonate	3.08	U	3.23	U	4.75		Ok - both ND
9Cl-PF3ONS	2.05	U	2.15	U	4.76		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.05	U	2.15	U	4.76		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.05	U	2.15	U	4.76		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	2.05	U	2.15	U	4.76		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.05	U	2.15	U	4.76		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.05	U	2.15	U	4.76		Ok - both ND
(PFBS)	2.05	U	2.15	U	4.76		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.05	U	2.15	U	4.76		Ok - both ND
Perfluorodecane Sulfonate	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.05	U	2.15	U	4.76		Ok - both ND
(PFDoA)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluoroheptane sulfonate	0.615	U	0.645	U	4.76		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorohexadecanoic acid	0.615	U	0.645	U	4.76		Ok - both ND
(PFHxS)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorononanesulfonic acid	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorononanoic acid (PFNA)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.615	U	0.645	U	4.76		Ok - both ND
(PFTrDA)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorooctadecanoic acid	0.615	U	0.645	U	4.76		Ok - both ND
(PFOS)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.615	U	0.645	U	4.76		Ok - both ND
Perfluorooctylsulfonamide	0.615	U	0.645	U	4.76		Ok - both ND
Perfluoropentanoic Acid	0.615	U	0.645	U	4.76		Ok - both ND
(PFPeS)	0.615	U	0.645	U	4.76		Ok - both ND
(PFUna)	0.615	U	0.645	U	4.76		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-09-1012**		**2023-FD-09**				
	620-10149-24		**620-10149-32**				
1,1,1,2-Tetrachloroethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,1,1-Trichloroethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,1,2,2-Tetrachloroethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,1,2-Trichloroethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,1-Dichloroethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,1-Dichloroethene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,1-Dichloropropene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2,3-Trichlorobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2,3-Trichloropropane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2,4-Trichlorobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2,4-Trimethylbenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2-Dibromo-3-chloropropane	0.0101	U	0.00951	U	-6.02		Ok - both ND
1,2-Dibromoethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2-Dichlorobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2-Dichloroethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,2-Dichloropropane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,3,5-Trichlorobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,3,5-Trimethylbenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,3-Dichlorobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,3-Dichloropropane	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,3-Dichloropropene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,4-Dichlorobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
1,4-Dioxane	0.101	U	0.0951	U	-6.02		Ok - both ND
2,2-Dichloropropane	0.00506	U	0.00475	U	-6.32		Ok - both ND
2-Butanone	0.0101	U	0.00951	U	-6.02		Ok - both ND
2-Chlorotoluene	0.00506	U	0.00475	U	-6.32		Ok - both ND
2-Hexanone	0.0101	U	0.00951	U	-6.02		Ok - both ND
4-Chlorotoluene	0.00506	U	0.00475	U	-6.32		Ok - both ND
4-Isopropyltoluene	0.00506	U	0.00475	U	-6.32		Ok - both ND
4-Methyl-2-pentanone	0.0101	U	0.00951	U	-6.02		Ok - both ND
Acetone	0.0506	U	0.0475	U	-6.32		Ok - both ND
Acrylonitrile	0.00506	U	0.00475	U	-6.32		Ok - both ND
Benzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Bromobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Bromochloromethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
Bromodichloromethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
Bromoform	0.00506	U	0.00475	U	-6.32		Ok - both ND
Bromomethane	0.0101	U	0.00951	U	-6.02		Ok - both ND
Carbon disulfide	0.0101	U	0.00951	U	-6.02		Ok - both ND
Carbon tetrachloride	0.00506	U	0.00475	U	-6.32		Ok - both ND
Chlorobenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Chloroethane	0.0101	U	0.00951	U	-6.02		Ok - both ND
Chloroform	0.00506	U	0.00475	U	-6.32		Ok - both ND
Chloromethane	0.0101	U	0.00951	U	-6.02		Ok - both ND
cis-1,2-Dichloroethene	0.00506	U	0.00475	U	-6.32		Ok - both ND
cis-1,3-Dichloropropene	0.00506	U	0.00475	U	-6.32		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Dibromochloromethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
Dibromomethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
Dichlorodifluoromethane	0.0101	U	0.00951	U	-6.02		Ok - both ND
Diethyl ether	0.00506	U	0.00475	U	-6.32		Ok - both ND
Diisopropyl Ether	0.00506	U	0.00475	U	-6.32		Ok - both ND
Ethanol	1.01	U	0.951	U	-6.02		Ok - both ND
Ethylbenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Hexachlorobutadiene	0.0101	U	0.00951	U	-6.02		Ok - both ND
Isopropylbenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
m,p-Xylene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Methyl tert-butyl ether	0.00506	U	0.00475	U	-6.32		Ok - both ND
Methylene chloride	0.0101	U	0.00951	U	-6.02		Ok - both ND
Naphthalene	0.00506	U	0.00475	U	-6.32		Ok - both ND
n-Butylbenzene	0.0101	U	0.00951	U	-6.02		Ok - both ND
n-Propylbenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
o-Xylene	0.00506	U	0.00475	U	-6.32		Ok - both ND
sec-Butylbenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Styrene	0.00506	U	0.00475	U	-6.32		Ok - both ND
tert-Amyl methyl ether	0.00506	U	0.00475	U	-6.32		Ok - both ND
tert-Butyl Alcohol	0.101	U	0.0951	U	-6.02		Ok - both ND
Tert-Butyl Ethyl Ether	0.00506	U	0.00475	U	-6.32		Ok - both ND
tert-Butylbenzene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Tetrachloroethene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Tetrahydrofuran	0.0101	U	0.00951	U	-6.02		Ok - both ND
Toluene	0.00506	U	0.00475	U	-6.32		Ok - both ND
trans-1,2-Dichloroethene	0.00506	U	0.00475	U	-6.32		Ok - both ND
trans-1,3-Dichloropropene	0.00506	U	0.00475	U	-6.32		Ok - both ND
trans-1,4-Dichlorobutene	0.0253	U	0.0238	U	-6.11		Ok - both ND
Trichloroethene	0.00506	U	0.00475	U	-6.32		Ok - both ND
Trichlorofluoromethane	0.00506	U	0.00475	U	-6.32		Ok - both ND
Vinyl chloride	0.00506	U	0.00475	U	-6.32		Ok - both ND
Xylene (total)	0.0152	U	0.0143	U	-6.10		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-09-1012**		**2023-FD-09**				
	620-10149-24		**620-10149-32**				
1,2,4,5-Tetrachlorobenzene	0.389	U	0.391	U	0.51		Ok - both ND
1,2,4-Trichlorobenzene	0.389	U	0.391	U	0.51		Ok - both ND
1,2-Dichlorobenzene	0.389	U	0.391	U	0.51		Ok - both ND
1,3-Dichlorobenzene	0.389	U	0.391	U	0.51		Ok - both ND
1,4-Dichlorobenzene	0.389	U	0.391	U	0.51		Ok - both ND
2,2'-Oxybis(1-chloropropane)	0.197	U	0.198	U	0.51		Ok - both ND
2,4,5-Trichlorophenol	0.389	U	0.391	U	0.51		Ok - both ND
2,4,6-Trichlorophenol	0.197	U	0.198	U	0.51		Ok - both ND
2,4-Dichlorophenol	0.197	U	0.198	U	0.51		Ok - both ND
2,4-Dimethylphenol	0.389	U	0.391	U	0.51		Ok - both ND
2,4-Dinitrophenol	0.389	U	0.391	U	0.51		Ok - both ND
2,4-Dinitrotoluene	0.197	U	0.198	U	0.51		Ok - both ND
2,6-Dinitrotoluene	0.197	U	0.198	U	0.51		Ok - both ND
2-Chloronaphthalene	0.389	U	0.391	U	0.51		Ok - both ND
2-Chlorophenol	0.197	U	0.198	U	0.51		Ok - both ND
2-Methylnaphthalene	0.0786	U	0.079	U	0.51		Ok - both ND
2-Methylphenol	0.389	U	0.391	U	0.51		Ok - both ND
2-Nitroaniline	0.389	U	0.391	U	0.51		Ok - both ND
2-Nitrophenol	0.197	U	0.198	U	0.51		Ok - both ND
3 & 4 Methylphenol	0.389	U	0.391	U	0.51		Ok - both ND
3,3'-Dichlorobenzidine	0.389	U	0.391	U	0.51		Ok - both ND
3-Nitroaniline	0.389	U	0.391	U	0.51		Ok - both ND
4,6-Dinitro-2-methylphenol	0.389	U	0.391	U	0.51		Ok - both ND
4-Bromophenyl-phenylether	0.389	U	0.391	U	0.51		Ok - both ND
4-Chloro-3-methylphenol	0.389	U	0.391	U	0.51		Ok - both ND
4-Chloroaniline	0.197	U	0.198	U	0.51		Ok - both ND
4-Chlorophenyl-phenylether	0.389	U	0.391	U	0.51		Ok - both ND
4-Nitroaniline	0.197	U	0.198	U	0.51		Ok - both ND
4-Nitrophenol	0.389	U	0.391	U	0.51		Ok - both ND
Acenaphthene	0.0786	U	0.079	U	0.51		Ok - both ND
Acenaphthylene	0.134		0.154		13.89	0.020	Ok - abs diff < 4x RL
Acetophenone	0.197	U	0.198	U	0.51		Ok - both ND
Aniline	0.389	U	0.391	U	0.51		Ok - both ND
Anthracene	0.106		0.0987		-7.13	-0.007	Ok - abs diff < 4x RL
Azobenzene	0.389	U	0.391	U	0.51		Ok - both ND
Benzidine	0.778	U	0.781	U	0.38		Ok - both ND
Benzo(a)anthracene	0.276		0.28		1.44	0.0040	Ok - abs diff < 4x RL
Benzo(a)pyrene	0.289		0.283		-2.10	-0.0060	Ok - abs diff < 4x RL
Benzo(b)fluoranthene	0.202		0.268		28.09	0.0660	Ok - abs diff < 4x RL
Benzo(g,h,i)perylene	0.192		0.219		13.14	0.0270	Ok - abs diff < 4x RL
Benzo(k)fluoranthene	0.14		0.195		32.84	0.0550	Ok - abs diff < 4x RL
Benzoic Acid	0.389	U	0.391	U	0.51		Ok - both ND
Benzyl Alcohol	0.389	U	0.391	U	0.51		Ok - both ND
Bis(2-chloroethoxy)methane	0.389	U	0.391	U	0.51		Ok - both ND
Bis(2-chloroethyl)ether	0.197	U	0.198	U	0.51		Ok - both ND
bis-(2-chloroisopropyl)ether	0.197	U	0.198	U	0.51		Ok - both ND
Bis(2-ethylhexyl)phthalate	0.197	U	0.198	U	0.51		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 SVOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Butylbenzylphthalate	0.389	U	0.391	U	0.51		Ok - both ND
Carbazole	0.197	U	0.198	U	0.51		Ok - both ND
Chrysene	0.351		0.356		1.41	0.005	Ok - abs diff < 4x RL
Dibenz(a,h)anthracene	0.0863		0.0841		-2.58	-0.0022	Ok - abs diff < 4x RL
Dibenzofuran	0.197	U	0.198	U	0.51		Ok - both ND
Diethylphthalate	0.389	U	0.391	U	0.51		Ok - both ND
Dimethylphthalate	0.389	U	0.391	U	0.51		Ok - both ND
Di-N-Butylphthalate	0.389	U	0.391	U	0.51		Ok - both ND
Di-N-Octyl Phthalate	0.389	U	0.391	U	0.51		Ok - both ND
Fluoranthene	0.468		0.417		-11.53	-0.051	Ok - RPD < 50%
Fluorene	0.0786	U	0.079	U	0.51		Ok - both ND
Hexachlorobenzene	0.197	U	0.198	U	0.51		Ok - both ND
Hexachlorobutadiene	0.197	U	0.198	U	0.51		Ok - both ND
Hexachlorocyclopentadiene	0.197	U	0.198	U	0.51		Ok - both ND
Hexachloroethane	0.197	U	0.198	U	0.51		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.193		0.19		-1.57	-0.0030	Ok - abs diff < 4x RL
Isophorone	0.197	U	0.198	U	0.51		Ok - both ND
Naphthalene	0.0786	U	0.079	U	0.51		Ok - both ND
Naphthalene, 1-methyl-	0.0786	U	0.079	U	0.51		Ok - both ND
Nitrobenzene	0.197	U	0.198	U	0.51		Ok - both ND
N-Nitrosodimethylamine (NDMA)	0.197	U	0.198	U	0.51		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	0.197		0.198	U	0.51	0.0010	Ok - abs diff < 4x RL
N-Nitrosodiphenylamine	0.389	U	0.391	U	0.51		Ok - both ND
Pentachloronitrobenzene	0.389	U	0.391	U	0.51		Ok - both ND
Pentachlorophenol	0.389	U	0.391	U	0.51		Ok - both ND
Phenanthrene	0.214		0.236		9.78	0.0220	Ok - abs diff < 4x RL
Phenol	0.389	U	0.391	U	0.51		Ok - both ND
Pyrene	0.748		0.731		-2.30		Ok - RPD < 50%
Pyridine	0.389	U	0.391	U	0.51		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 PCBs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-09-1012**		**2023-FD-09**				
	620-10149-24		**620-10149-32**				
Aroclor 1016	0.0235	U	0.023	U	-2.15		Ok - both ND
Aroclor 1221	0.0235	U	0.023	U	-2.15		Ok - both ND
Aroclor 1232	0.0235	U	0.023	U	-2.15		Ok - both ND
Aroclor 1242	0.0235	U	0.023	U	-2.15		Ok - both ND
Aroclor 1248	0.0235	U	0.023	U	-2.15		Ok - both ND
Aroclor 1254	0.0235	U	0.031		27.52	0.008	Ok - abs diff < 4x RL
Aroclor 1260	0.0235	U	0.023	U	-2.15		Ok - both ND
Aroclor 1262	0.0235	U	0.023	U	-2.15		Ok - both ND
Aroclor 1268	0.0235	U	0.023	U	-2.15		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 VPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-09-1012**		**2023-FD-09**				
	620-10149-24		**620-10149-32**				
Benzene	0.0544	U	0.0551	U	1.28		Ok - both ND
C5-C8 Aliphatics (adjusted)	0.272	U	0.275	U	1.10		Ok - both ND
C5-C8 Aliphatics (unadjusted)	0.272	U	0.275	U	1.10		Ok - both ND
C9-C10 Aromatics	0.272	U	0.275	U	1.10		Ok - both ND
C9-C12 Aliphatics (adjusted)	0.272	U	0.275	U	1.10		Ok - both ND
C9-C12 Aliphatics (unadjusted)	0.272	U	0.275	U	1.10		Ok - both ND
Ethylbenzene	0.0544	U	0.0551	U	1.28		Ok - both ND
m,p-Xylene	0.109	U	0.11	U	0.91		Ok - both ND
Methyl tert-butyl ether	0.0544	U	0.0551	U	1.28		Ok - both ND
Naphthalene	0.0544	U	0.0551	U	1.28		Ok - both ND
o-Xylene	0.0544	U	0.0551	U	1.28		Ok - both ND
Toluene	0.0544	U	0.0551	U	1.28		Ok - both ND

Field Duplicate Evaluation

SDG: 620101491 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-09-1012**		**2023-FD-09**				
	620-10149-24		**620-10149-32**				
Antimony	4.86	U	4.22	U	-14.1		Ok - both ND
Arsenic	3.59		4.36		19.4	0.77	Ok - abs diff < 4x RL
Barium	25.3		23		-9.5		Ok - RPD < 50%
Beryllium	0.298	J	0.305	J	2.3		Ok - both < RL
Cadmium	0.486	U	0.422	U	-14.1		Ok - both ND
Chromium	5.27		5.33		1.1	0.06	Ok - abs diff < 4x RL
Lead	6.78		6.18		-9.3	-0.60	Ok - abs diff < 4x RL
Mercury	0.0689	U	0.0708	U	2.7		Ok - both ND
Nickel	2.78		3.3		17.1	0.52	Ok - abs diff < 4x RL
Selenium	4.86	U	4.22	U	-14.1		Ok - both ND
Silver	0.972	U	0.844	U	-14.1		Ok - both ND
Thallium	2.92	U	2.53	U	-14.3		Ok - both ND
Vanadium	8.98		8.91		-0.8		Ok - RPD < 50%
Zinc	17.5		16.7		-4.7		Ok - RPD < 50%

Field Duplicate Evaluation

SDG: 620101491 PFAS

Analyte	Original Result ug/kg	Qual	Duplicate Result ug/kg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**2023-SB-09-1012**		**2023-FD-09**				
	620-10149-24		**620-10149-32**				
10:2 FTS	2.34	U	2.26	U	-3.48		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	0.702	U	0.679	U	-3.33		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	2.34	U	2.26	U	-3.48		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	2.34	U	2.26	U	-3.48		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	3.51	U	3.39	U	-3.48		Ok - both ND
4:2 Fluorotelomer sulfonic acid	2.34	U	2.26	U	-3.48		Ok - both ND
6:2 Fluorotelomer sulfonate	2.34	U	2.26	U	-3.48		Ok - both ND
8:2 Fluorotelomer sulfonate	3.51	U	3.39	U	-3.48		Ok - both ND
9Cl-PF3ONS	2.34	U	2.26	U	-3.48		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.34	U	2.26	U	-3.48		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2.34	U	2.26	U	-3.48		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	2.34	U	2.26	U	-3.48		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2.34	U	2.26	U	-3.48		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	2.34	U	2.26	U	-3.48		Ok - both ND
Perfluorobutanesulfonic acid (PFBS)	2.34	U	2.26	U	-3.48		Ok - both ND
Perfluorobutanoic Acid (PFBA)	2.34	U	2.26	U	-3.48		Ok - both ND
Perfluorodecane Sulfonate	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorodecanoic Acid (PFDA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	2.34	U	2.26	U	-3.48		Ok - both ND
Perfluorododecanoic Acid (PFDoA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluoroheptane sulfonate	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorohexadecanoic acid	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorohexanesulfonic acid (PFHxS)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorohexanoic Acid (PFHxA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorononanesulfonic acid	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorononanoic acid (PFNA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluoro-n-tridecanoic acid (PFTrDA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorooctadecanoic acid	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorooctanesulfonic acid (PFOS)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorooctanoic acid (PFOA)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluorooctylsulfonamide	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluoropentanoic Acid	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluoropetanesulfonic acid (PFPeS)	0.702	U	0.679	U	-3.33		Ok - both ND
Perfluoroundecanoic Acid (PFUna)	0.702	U	0.679	U	-3.33		Ok - both ND

620-10149 Chain of Custody

10149

Chain of Custody Record

eurofins | Environment Testing

	Sampler: BF + KM	Lab PM	Carrier Tracking No(s):	COC No: 620-8842-1096 15
	Phone:	E-Mail:	State of Origin:	Page: Page 15 of 17

Bridget Fortier			
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): Stnd.		
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone: 978-399-9657	PO #: S00001.002		
Email: bfortier@nobis-group.com	WO #:		
Project Name: American Tissue Mill	Project #:		
Site: Templeton MA	SSOW#:		

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:					X	X	J		F				X	
01	2023-SW-08-0002'	3/6/23	08:45	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023-MW-08-0204'		08:50		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023-MW-08-0406'		08:55		Solid			✓	✓	✓	✓	✓	✓		
04	2023-MW-08-0608'		09:00		Solid			✓	✓	✓	✓	✓	✓		
05	2023-MW-08-0810'		09:05		Solid			✓	✓	✓	—	✓	✓		
06	2023-MW-08-1012'		09:10		Solid			✓	✓	✓	✓	✓	✓		
07	2023-SB-10-0002'		09:50		Solid			✓	✓	✓	—	✓	✓		
08	2023-SB-10-0204'		09:55		Solid			✓	✓	✓	—	✓	✓		
09	2023-SB-10-0406'		10:00		Solid			✓	✓	✓	✓	✓	✓		
10	2023-SB-10-0608'		10:05		Solid			✓	✓	✓	—	—	—		
11	2023-SB-10-0810'		10:10		Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV Other (specify): Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/7/23 12:15	Nobis		3/7/23 12:15	EUE
Relinquished by:	3/7/23 16:41	EUE		3/7/23 16:41	EUE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 +0.2 4.4 #6

Ver 06/08/2021

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3/31/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF+KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 16
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 16 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Stnd.			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.082			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							G		T					
12	2023-SB-10-1012'	3/6/23	10:15	G	Solid	Y		✓	✓	✓	✓	✓	✓	7	
13	2023-SB-11-0002'		10:50		Solid			✓	✓	✓	✓	✓	✓		
14	2023-SB-11-0204'		10 55		Solid			✓	✓	✓	✓	✓	✓		
15	2023-SB-11-0406'		11.00		Solid			✓	✓	✓	✓	✓	✓		
16	2023-SB-11-0608'		11.05		Solid			✓	✓	✓	✓	✓	✓		
17	2023-SB-11-0810'		11.10		Solid			✓	✓	✓	✓	✓	✓		
18	2023-SB-11-1012'		11.15		Solid			✓	✓	✓	✓	✓	✓		
19	2023-SB-09-0002'		12:10		Solid			✓	✓	✓	✓	✓	✓		
20	2023-SB-09-0204'		12:15		Solid			✓	✓	✓	✓	✓	✓		
21	2023-SB-09-0406'		12:20		Solid			✓	✓	✓	✓	✓	✓		
22	2023-SB-09-0608'	↓	12:25	↓	Solid			✓	✓	✓	✓	✓	✓	↓	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): Equis EDP

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 3/7/23 12:15	Company: Nobis	Received by:	Date/Time: 3/7/23 12:15	Company: ENE
Relinquished by:	Date/Time: 3/7/23 16:41	Company: ENE	Received by:	Date/Time: 3/7/23 16:41	Company: ENE
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.1 to 4.4 #6

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

Chain of Custody Record

10149

eurofins | Environment Testing

Client Information	Sampler: BF+KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.17
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 17 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested.			
City: Lowell	TAT Requested (days): Stnd.			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.007			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							F	F						
23	2023-SB-09-0816'	3/6/23	12:30	G	Solid			✓	✓	✓	✓	✓	✓	1	
24	2023-SB-09-1012'		12:35		Solid			✓	✓	✓	✓	✓	✓		
25	2023-MW-09-0002'		13:00		Solid			✓	✓	✓	✓	✓	✓		
26	2023-MW-09-0204'		13:05		Solid			✓	✓	✓	✓	✓	✓		
27	2023-MW-09-0406'		13:10		Solid		Y	✓	✓	✓	✓	✓	✓		
28	2023-MW-09-0608'		13:15		Solid			✓	✓	✓	✓	✓	✓		
29	2023-MW-09-0810'		13:20		Solid			✓	✓	✓	✓	✓	✓		
30	2023-MW-09-1012'		13:25		Solid			✓	✓	✓	✓	✓	✓		
31	2023-FD-08		08:00		Solid			✓	✓	✓	✓	✓	✓		
32	2023-FD-09		08:05					✓	✓	✓	✓	✓	✓	✓	
33	TRIP BLANK-08	—		✓				✓						3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III, IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to amcgrath@nobis-group.com

Empty Kit Relinquished by:	Date.	Time.	Method of Shipment:
Relinquished by:	Date/Time: 3/7/23 12:15	Company: Nobis	Received by:	Date/Time: 3/7/23 12:15	Company: ENE
Relinquished by:	Date/Time: 3/7/23 1654	Company: ENE	Received by:	Date/Time: 3/7/23 16:41	Company: ENE
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 4.2 4.2 4.4 IR

Ver 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8576.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-03-1012' (620-10149-34)	3/6/23	14:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/23/23 16:23	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3-9-23 0945	ENE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.2

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-08-0002' (620-10149-1)	3/6/23	08:45 Eastern		Solid			X	X	X	2	
2023-MW-08-0204' (620-10149-2)	3/6/23	08:50 Eastern		Solid			X	X	X	2	
2023-MW-08-0406' (620-10149-3)	3/6/23	08:55 Eastern		Solid			X	X	X	2	
2023-MW-08-0608' (620-10149-4)	3/6/23	09:00 Eastern		Solid			X	X	X	2	
2023-MW-08-0810' (620-10149-5)	3/6/23	09:05 Eastern		Solid			X	X	X	2	
2023-MW-08-1012' (620-10149-6)	3/6/23	09:10 Eastern		Solid			X	X	X	1	
2023-SB-10-0002' (620-10149-7)	3/6/23	09:50 Eastern		Solid			X	X	X	2	
2023-SB-10-0204' (620-10149-8)	3/6/23	09:55 Eastern		Solid			X	X	X	2	
2023-SB-10-0406' (620-10149-9)	3/6/23	10:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/7/23 17:50	Company: ENF	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: MMP	Date/Time: 3/9/23 0945	Company ENF
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.9 1.2		

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-10-0608' (620-10149-10)	3/6/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-10-0810' (620-10149-11)	3/6/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-10-1012' (620-10149-12)	3/6/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-10-1012' (620-10149-12MS)	3/6/23	10:15 Eastern	MS	Solid			X	X	X	2	
2023-SB-10-1012' (620-10149-12MSD)	3/6/23	10:15 Eastern	MSD	Solid			X	X	X	2	
2023-SB-11-0002' (620-10149-13)	3/6/23	10:50 Eastern		Solid			X	X	X	2	
2023-SB-11-0204' (620-10149-14)	3/6/23	10:55 Eastern		Solid			X	X	X	2	
2023-SB-11-0406' (620-10149-15)	3/6/23	11:00 Eastern		Solid			X	X	X	2	
2023-SB-11-0608' (620-10149-16)	3/6/23	11:05 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/7/23 12:50	EUC	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/9/23 0945	Company [signature]

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9 1.2

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-11-0810' (620-10149-17)	3/6/23	11:10 Eastern		Solid			X	X	X	2	
2023-SB-11-1012' (620-10149-18)	3/6/23	11:15 Eastern		Solid			X	X	X	2	
2023-SB-09-0002' (620-10149-19)	3/6/23	12:10 Eastern		Solid			X	X	X	2	
2023-SB-09-0204' (620-10149-20)	3/6/23	12:15 Eastern		Solid			X	X	X	2	
2023-SB-09-0406' (620-10149-21)	3/6/23	12:20 Eastern		Solid			X	X	X	2	
2023-SB-09-0608' (620-10149-22)	3/6/23	12:25 Eastern		Solid			X	X	X	2	
2023-SB-09-0810' (620-10149-23)	3/6/23	12:30 Eastern		Solid			X	X	X	2	
2023-SB-09-1012' (620-10149-24)	3/6/23	12:35 Eastern		Solid			X	X	X	2	
2023-MW-09-0002' (620-10149-25)	3/6/23	13:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/7/23 17:50	FedEx	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/9/23 0945	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9 1.2

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-09-0204' (620-10149-26)	3/6/23	13:05 Eastern		Solid			X	X	X	2	
2023-MW-09-0406' (620-10149-27)	3/6/23	13:10 Eastern		Solid			X	X	X	2	
2023-MW-09-0406' (620-10149-27MS)	3/6/23	13:10 Eastern	MS	Solid			X	X	X	2	
2023-MW-09-0406' (620-10149-27MSD)	3/6/23	13:10 Eastern	MSD	Solid			X	X	X	2	
2023-MW-09-0608' (620-10149-28)	3/6/23	13:15 Eastern		Solid			X	X	X	2	
2023-MW-09-0810' (620-10149-29)	3/6/23	13:20 Eastern		Solid			X	X	X	2	
2023-MW-09-1012' (620-10149-30)	3/6/23	13:25 Eastern		Solid			X	X	X	2	
2023-FD-08 (620-10149-31)	3/6/23	08:00 Eastern		Solid			X	X	X	2	
2023-FD-09 (620-10149-32)	3/6/23	08:05 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/7/23 12:50	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/8/23 0945	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9 1.2

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-08-0002' (620-10149-1)	3/6/23	08:45 Eastern		Solid			X	X	1	
2023-MW-08-0204' (620-10149-2)	3/6/23	08:50 Eastern		Solid			X	X	1	
2023-MW-08-0406' (620-10149-3)	3/6/23	08:55 Eastern		Solid			X	X	1	
2023-MW-08-0608' (620-10149-4)	3/6/23	09:00 Eastern		Solid			X	X	1	
2023-MW-08-0810' (620-10149-5)	3/6/23	09:05 Eastern		Solid			X	X	1	
2023-MW-08-1012' (620-10149-6)	3/6/23	09:10 Eastern		Solid			X	X	1	
2023-SB-10-0002' (620-10149-7)	3/6/23	09:50 Eastern		Solid			X	X	1	
2023-SB-10-0204' (620-10149-8)	3/6/23	09:55 Eastern		Solid			X	X	1	
2023-SB-10-0406' (620-10149-9)	3/6/23	10:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/7/23 12:47	FedEx	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3-9-23 1000	Company TAB
				Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-10-0608' (620-10149-10)	3/6/23	10:05 Eastern		Solid			X	X	1	
2023-SB-10-0810' (620-10149-11)	3/6/23	10:10 Eastern		Solid			X	X	1	
2023-SB-10-1012' (620-10149-12)	3/6/23	10:15 Eastern		Solid			X	X	1	
2023-SB-10-1012' (620-10149-12MS)	3/6/23	10:15 Eastern	MS	Solid			X		1	
2023-SB-10-1012' (620-10149-12MSD)	3/6/23	10:15 Eastern	MSD	Solid			X		1	
2023-SB-11-0002' (620-10149-13)	3/6/23	10:50 Eastern		Solid			X	X	1	
2023-SB-11-0204' (620-10149-14)	3/6/23	10:55 Eastern		Solid			X	X	1	
2023-SB-11-0406' (620-10149-15)	3/6/23	11:00 Eastern		Solid			X	X	1	
2023-SB-11-0608' (620-10149-16)	3/6/23	11:05 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 3/7/23 17:47	Company	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-11-0810' (620-10149-17)	3/6/23	11:10 Eastern		Solid			X	X	1	
2023-SB-11-1012' (620-10149-18)	3/6/23	11:15 Eastern		Solid			X	X	1	
2023-SB-09-0002' (620-10149-19)	3/6/23	12:10 Eastern		Solid			X	X	1	
2023-SB-09-0204' (620-10149-20)	3/6/23	12:15 Eastern		Solid			X	X	1	
2023-SB-09-0406' (620-10149-21)	3/6/23	12:20 Eastern		Solid			X	X	1	
2023-SB-09-0608' (620-10149-22)	3/6/23	12:25 Eastern		Solid			X	X	1	
2023-SB-09-0810' (620-10149-23)	3/6/23	12:30 Eastern		Solid			X	X	1	
2023-SB-09-1012' (620-10149-24)	3/6/23	12:35 Eastern		Solid			X	X	1	
2023-MW-09-0002' (620-10149-25)	3/6/23	13:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	3/7/23 12:47	[illegible]	Fedex		
	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-09-0204' (620-10149-26)	3/6/23	13:05 Eastern		Solid			X	X	1	
2023-MW-09-0406' (620-10149-27)	3/6/23	13:10 Eastern		Solid			X	X	1	
2023-MW-09-0406' (620-10149-27MS)	3/6/23	13:10 Eastern	MS	Solid			X		1	
2023-MW-09-0406' (620-10149-27MSD)	3/6/23	13:10 Eastern	MSD	Solid			X		1	
2023-MW-09-0608' (620-10149-28)	3/6/23	13:15 Eastern		Solid			X	X	1	
2023-MW-09-0810' (620-10149-29)	3/6/23	13:20 Eastern		Solid			X	X	1	
2023-MW-09-1012' (620-10149-30)	3/6/23	13:25 Eastern		Solid			X	X	1	
2023-FD-08 (620-10149-31)	3/6/23	08:00 Eastern		Solid			X	X	1	
2023-FD-09 (620-10149-32)	3/6/23	08:05 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/7/23 12:47	CHG			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				see pg 1		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8575.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-03-1012' (620-10149-34)	3/6/23	14:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/8/23 16:23	EVE	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					3-9-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6 TCE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 620-8558.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Becky.Mason@et.eurofinsus.com	State of Origin: Connecticut	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Connecticut		Job #: 620-10155-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Lockheed Martin-Sikorsky Stratford	Project #: 62000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470RCP/7470A_Prep Hg	6010RCP/3005A_TOT As/Cr/Mn/Zn	6020RCP/3020A As	6010RCP/3005A_TOT Cr	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW0110S (620-10155-8MSD)	3/7/23	10:11 Eastern	MSD	Water						X	1	
MW0110SDUP (620-10155-9)	3/7/23	10:11 Eastern		Water						X	1	
MW0110D (620-10155-11)	3/7/23	12:11 Eastern		Water						X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/7/23 12:47	Company EAC	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: see pg 1	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

March 6, 2024
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620141731
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic Data Review

Polychlorinated Biphenyls (PCBs) by Massachusetts Contingency Plan (MCP) Compendium of Analytical Methods (CAM) Method 8082:

21/Concrete Samples: ATM-CC-01, ATM-CC-02, ATM-CC-03, ATM-CC-04, ATM-CC-05, ATM-CC-06, ATM-CC-07, ATM-CC-08, ATM-CC-09, ATM-CC-10, ATM-CC-11, ATM-CC-12, ATM-CC-13, ATM-CC-14, ATM-CC-15, ATM-CC-16, ATM-CC-17, ATM-CC-18, ATM-CC-19, ATM-CC-20, FD-01-092723
1/Field Duplicate Pair: ATM-CC-14 / FD-01-092723

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on September 27, 2023. The samples were analyzed for Polychlorinated Biphenyls by MCP CAM Method 8082 by Eurofins New England in North Kingstown, RI.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); the Program Quality Assurance Project Plan (Program QAPP), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
* • Preservation and Technical Holding Times
* • Blanks

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Lowell, MA 01851
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*	•	Surrogates
NA	•	Internal Standards
*	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
*	•	Field Duplicates
NA	•	Performance Evaluation (PE) Samples
*	•	Target Analyte Identification
	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Reporting limits for non-detect PCB results exceeded the project action limit (PAL) of 1 mg/kg in 3 samples due to required sample dilutions.

The data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

PCBs:
Qualification of the data was not required.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Gary Glennon
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist

Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete				
Lab Sample ID		620-14173-1	620-14173-10	620-14173-11	620-14173-12	620-14173-13
Field Sample ID		ATM-CC-01	ATM-CC-10	ATM-CC-11	ATM-CC-12	ATM-CC-13
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/27/23	09/27/23	09/27/23	09/27/23	09/27/23
Aroclor 1016	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1221	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1232	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1242	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1248	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1254	mg/kg	11.1	11.5	1.17	0.666	5.67
Aroclor 1260	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1262	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1268	mg/kg	0.529 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor, Total	mg/kg	11.1	11.5	1.17	0.666	5.67

U – not detected; J – estimated value; R – rejected; EB – detected in equipment blank; N – tentatively identified; + biased high; - biased low

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete				
Lab Sample ID		620-14173-14	620-14173-15	620-14173-16	620-14173-17	620-14173-18
Field Sample ID		ATM-CC-14	ATM-CC-15	ATM-CC-16	ATM-CC-17	ATM-CC-18
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/27/23	09/27/23	09/27/23	09/27/23	09/27/23
Aroclor 1016	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1221	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1232	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1242	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1248	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1254	mg/kg	89.9	6.29	13	4.33	19.3
Aroclor 1260	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1262	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1268	mg/kg	4.38 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor, Total	mg/kg	89.9	6.29	13	4.33	19.3

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete				
Lab Sample ID		620-14173-19	620-14173-2	620-14173-20	620-14173-21	620-14173-3
Field Sample ID		ATM-CC-19	ATM-CC-02	ATM-CC-20	FD-01-092723	ATM-CC-03
Sample Type		N	N	N	FD	N
Parent Sample ID					ATM-CC-14	
Sample Date	**Units**	09/27/23	09/27/23	09/27/23	09/27/23	09/27/23
Aroclor 1016	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor 1221	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor 1232	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor 1242	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor 1248	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor 1254	mg/kg	11.3	7.37	0.0722	67	0.466
Aroclor 1260	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor 1262	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor 1268	mg/kg	0.594 U	0.28 U	0.06 U	2.64 U	0.0467 U
Aroclor, Total	mg/kg	11.3	7.37	0.0722	67	0.466

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete				
Lab Sample ID		620-14173-4	620-14173-5	620-14173-6	620-14173-7	620-14173-8
Field Sample ID		ATM-CC-04	ATM-CC-05	ATM-CC-06	ATM-CC-07	ATM-CC-08
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/27/23	09/27/23	09/27/23	09/27/23	09/27/23
Aroclor 1016	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor 1221	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor 1232	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor 1242	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor 1248	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor 1254	mg/kg	4.92	11.2	7.81	1.56	7
Aroclor 1260	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor 1262	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor 1268	mg/kg	0.581 U	0.547 U	0.54 U	0.495 U	0.545 U
Aroclor, Total	mg/kg	4.92	11.2	7.81	1.56	7

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete
Lab Sample ID		620-14173-9
Field Sample ID		ATM-CC-09
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	09/27/23
Aroclor 1016	mg/kg	0.497 U
Aroclor 1221	mg/kg	0.497 U
Aroclor 1232	mg/kg	0.497 U
Aroclor 1242	mg/kg	0.497 U
Aroclor 1248	mg/kg	0.497 U
Aroclor 1254	mg/kg	2.61
Aroclor 1260	mg/kg	0.497 U
Aroclor 1262	mg/kg	0.497 U
Aroclor 1268	mg/kg	0.497 U
Aroclor, Total	mg/kg	2.61

Data Review Qualification Actions
Site: American Tissue Mill
SDG: 620141731

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PCBs					
	Qualification of the data was not required.				

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02

Date: 02/13/2024

Methods: Polychlorinated Biphenyls (PCBs) by Massachusetts Contingency Plan (MCP) Compendium of Analytical Methods (CAM) Method 8082

Laboratory: Eurofins New England, North Kingstown, RI
Case: N/A
SDG: 620141731
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Twenty-one (21) concrete samples, including one field duplicate sample, were listed on the COC for SDG 620141731. The samples were collected on 09/27/2023 and received at the laboratory on 09/27/2023 at a maximum temperature of 1.4 °C.

Sample ID	Laboratory ID	Analyses
ATM-CC-01	620-14173-1	PCBs
ATM-CC-02	620-14173-2	PCBs
ATM-CC-03	620-14173-3	PCBs
ATM-CC-04	620-14173-4	PCBs
ATM-CC-05	620-14173-5	PCBs
ATM-CC-06	620-14173-6	PCBs
ATM-CC-07	620-14173-7	PCBs
ATM-CC-08	620-14173-8	PCBs
ATM-CC-09	620-14173-9	PCBs
ATM-CC-10	620-14173-10	PCBs
ATM-CC-11	620-14173-11	PCBs
ATM-CC-12	620-14173-12	PCBs
ATM-CC-13	620-14173-13	PCBs
ATM-CC-14	620-14173-14	PCBs
ATM-CC-15	620-14173-15	PCBs
ATM-CC-16	620-14173-16	PCBs
ATM-CC-17	620-14173-17	PCBs
ATM-CC-18	620-14173-18	PCBs
ATM-CC-19	620-14173-19	PCBs
ATM-CC-20	620-14173-20	PCBs
FD-01-092723	620-14173-21	PCBs

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The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) was used to perform the analysis. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte list reported by the laboratory was compared to the required analyte list per Table 2 (soil) in the QAPPA (February 2023) for the site. Results for all requested Aroclors were reported by the laboratory. MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Laboratory and Field Blanks

PCBs: Results for the PCB laboratory method blanks were non-detect. No blank actions are required.

5. Interference Check Sample (metals only)

Not applicable for this analysis.

6. Surrogates

PCBs: Percent surrogate recoveries for the samples were within the Program QAPP soil limits of 30-150% except for the recovery of decachlorobiphenyl (DCB) in several samples on the confirmation column, where the recoveries were below limits. Sample results were reported from the primary column where the recoveries were within the 30-150% limits and therefore, no actions are required. Surrogates were not recovered in samples ATM-CC-10 (620-14173-10), ATM-CC-14 (620-14173-14), and FD-01-092723 (620-14173-21) due to sample dilutions required to report PCB Aroclor detections. Dilutions were 1/20, 1/100, and 1/50, respectively. No actions are required.

7. Laboratory Control Samples

PCBs: Percent recoveries of Aroclors 1016 and 1260 in the PCB LCS/LCSD pairs met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30%. No actions are required.

8. **Matrix Spikes**

PCBs: Only Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, if actions are required, they are applied as follows:

If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on sample ATM-CC-17 (620-14173-17).

MS/MSD recoveries for Aroclor 1016 were within the Program QAPP soil limits of 40-140%; however, the RPD (35%) exceeded the Program QAPP limit of ≤ 30%. Results for Aroclors 1016, 1221, 1232, and 1242 were non-detect in all samples. Based on the NFGs (2020), the non-detect results for these Aroclors are accepted unqualified. No actions are taken.

The recoveries of Aroclor 1260 exceeded the Program QAPP soil limits of 40-140% in the MS and MSD analyses. Aroclor 1254 was detected in the unspiked parent sample and likely interfered with the recovery of Aroclor 1260 in the MS/MSD analyses. Results of the MS/MSD analyses met the RPD limit of ≤ 30%. No action is taken.

9. **Laboratory Duplicates (metals only)**

Not applicable for PCB analysis.

10. **Serial Dilution (metals only)**

Not applicable for PCB analysis.

11. **Field Duplicate Precision**

Criteria based on the EPA Region I Environmental Data Review Supplement (September 2020): RPD ≤ 50% (soils) for results ≥ 5 QL or absolute difference of ≤ 4x QL for results < 5x QL.

Field duplicate pair ATM-CC-14 / FD-01-092723 (620-14173-14 / 620-14173-21) is associated with the samples of this SDG.

PCBs: Field duplicate precision criteria were met. No actions are required.

12. **Internal Standards**

Not applicable for this analysis.

13. **Dual Column Precision (PCBs only)**

Laboratory data for PCB identification and quantitation are not a required deliverable for the MCP CAM for PCB analysis by GC. Therefore, dual column precision could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The laboratory case narrative did not include a notation for RPDs > 40% for PCB detections and no Aroclor detections were reported with a “p” notation that would indicate the RPD for the dual column results was > 40%, as defined in the laboratory report glossary. Therefore, dual column precision criteria are met and no actions are required.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

RLs for non-detect PCB results met the site Project Action Level (PAL) of 1 mg/kg in all samples except for samples ATM-CC-10 (620-14173-10), ATM-CC-14 (620-14173-14), and FD-01-092723 (620-14173-21). The non-detect RLs for these samples were > 1 mg/kg due to required sample dilutions.

16. Other

EPA Region I Supplement (2020) criterion for percent solids content for soil samples (> 30%) was met for the concrete samples of this SDG.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620141731 PCBs

Analyte	Original Result (mg/kg)	Qual	Duplicate Result (mg/kg)	Qual	RPD ≤ 50%	Abs Diff	Comment[1]
Sample ID	**ATM-CC-14**		**FD-01-092723**				
	620-14173-14		**620-14173-21**				
Aroclor 1016	4.38	U	2.64	U	-49.57		Ok - both ND
Aroclor 1221	4.38	U	2.64	U	-49.57		Ok - both ND
Aroclor 1232	4.38	U	2.64	U	-49.57		Ok - both ND
Aroclor 1242	4.38	U	2.64	U	-49.57		Ok - both ND
Aroclor 1248	4.38	U	2.64	U	-49.57		Ok - both ND
Aroclor 1254	89.9		67		-29.19		Ok - RPD < 50%
Aroclor 1260	4.38	U	2.64	U	-49.57		Ok - both ND
Aroclor 1262	4.38	U	2.64	U	-49.57		Ok - both ND
Aroclor 1268	4.38	U	2.64	U	-49.57		Ok - both ND

1 - Actions apply to all samples based on the EPA Region I Supplemental Guidance (2020).

DF=100 DF=50

14173

620-14173 Chain of Custody

Chain of Custody Record

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	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-12317-1644 1
Client Contact: Stephanie Stone	Phone	E-Mail: DMcGrath@nobis-group.com	State of Origin	Page: Page 1 of 10
Company: Nobis Engineering, Inc	PWSID		Analysis Requested	Job #:

Address: 585 Middlesex Street	Due Date Requested:
City: Lowell	TAT Requested (days): 5 day TAT
State, Zip: MA, 01851	Compliance Project: ☑ Yes △ No MCP CAM
Phone: 774-245-3612	PO #:
Email: sstone@nobis-group com	WO #:
Project Name: American Tissue Mill	Project #: S000D1.002/400
Site: Templeton, MA	SSOW#:

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCB 8082 (SOxH(et)	Total Number of containers	Special Instructions/Note:
	Preservation Code:							T		
-1	ATM-CC-01	9/27/23	1005	G	Solid			1		
-2	ATM-CC-02		1015		Solid					
-3	ATM-CC-03		1035		Solid					
-4	ATM-CC-04		1050		Solid					
-5	ATM-CC-05		1100		Solid					
-6	ATM-CC-06		1110		Solid					
-7	ATM-CC-07		11:25		Solid					
-8	ATM-CC-08		11:35		Solid					
-9	ATM-CC-09		11:45		Solid					
-10	ATM-CC-10		1200		Solid					
-11	ATM-CC-11		1205		Solid					

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send EQuIS EDD to DMcGrath@nobis-group.com

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by	9-27-23 13:57		Received by	9/27/23 1400	ENE
Relinquished by	9/27/23 16:13	ENE	Received by	9/27/23 16:13	BNG
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.2 +0.2 1.4 = 6

Ver: 06/08/2021

10/5/2023

14173

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax 413-506-3830

Chain of Custody Record

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Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-12317-1644 5
Client Contact: Stephanie Stone	Phone	E-Mail: DMcGrath@Nobis-Group.com	State of Origin	Page: Page 5 of 10
Company: Nobis Engineering, Inc	PWSID		Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Lowell	TAT Requested (days): 5 day TAT			
State, Zip: MA, 01851	Compliance Project: ☑ Yes ☐ No MCP CAM			
Phone: 774-245-3612	PO #:			Other:
Email: sstone@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #: S00001.002/400			
Site: Templeton, MA	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCB 60 82 (Soxhlet)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				1		
-12 ATM-CC-12	9/27/23	1215	G	Solid			1		
-13 ATM-CC-13		1220		Solid			1		
-14 ATM-CC-14		1230		Solid			1		
-15 ATM-CC-15		1245		Solid			1		
-16 ATM-CC-16		1250		Solid			1		
-17 ATM-CC-17		1310		Solid	X		1		MS/MSD
-18 ATM-CC-18		1315		Solid			1		
-19 ATM-CC-19		1335		Solid			1		
-20 ATM-CC-20		1340		Solid			1		
-21 FD-01-092723		0800		Solid			1		
				Solid			1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send Equis EDD to DMcGrath@Nobis-group.com

Empty Kit Relinquished by.	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-27-23 15:58			9/27/23 1640	ENC
2		9/27/23 16:13	ENC		9/27/23 16:13	ENC
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.2 to.2 1.4 #6

Ver: 06/08/2021

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10/5/2023

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 10/5/2023 7:08:12 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-14173-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

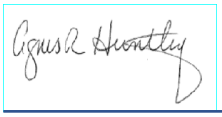
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-14173-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-14173-1 through 620-14173-21

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 10/05/2023

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-14173-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/27/2023 4:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

PCBs
Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: ATM-CC-01 (620-14173-1), ATM-CC-04 (620-14173-4), ATM-CC-05 (620-14173-5), ATM-CC-06 (620-14173-6), ATM-CC-07 (620-14173-7), ATM-CC-08 (620-14173-8), ATM-CC-09 (620-14173-9), ATM-CC-13 (620-14173-13), ATM-CC-16 (620-14173-16), ATM-CC-17 (620-14173-17), ATM-CC-17 (620-14173-17[MS]), ATM-CC-18 (620-14173-18) and ATM-CC-19 (620-14173-19). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27460/31) and (CCV 620-27460/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-27347 and analytical batch 620-27460 were outside control limits due to a dilution needed for the PCB-1254 aroclor.

Method 8082MCP: Surrogate recovery was outside control limits for the following sample: (CCV 620-27460/32). The DCB Decachlorobiphenyl (Surr) for the 1242/1268 aroclor CCV was outside acceptance criteria due to pattern interference from aroclor 1268. The 1242/1268 aroclor target peaks were within acceptance criteria. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27462/31) and (CCV 620-27462/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The continuing calibration verification (CCV) associated with batch 620-27462 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr) and PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 620-27462/29).

Method 8082MCP: The continuing calibration verification (CCV) associated with batch 620-27462 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 620-27462/29).

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27492/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration..

Job ID: 620-14173-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-CC-14 (620-14173-14) and FD-01-092723 (620-14173-21). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The following sample required a dilution due to the nature of the sample matrix: ATM-CC-10 (620-14173-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27494/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-27343 was outside control limits. Sample matrix interference is suspected.

Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-27359 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-01 — Lab Sample ID: 620-14173-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.1		0.529	0.412	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-02 — Lab Sample ID: 620-14173-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.37		0.280	0.218	mg/Kg	5	☼	8082	Total/NA

Client Sample ID: ATM-CC-03 — Lab Sample ID: 620-14173-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.466		0.0467	0.0363	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-04 — Lab Sample ID: 620-14173-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.92		0.581	0.452	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-05 — Lab Sample ID: 620-14173-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.2		0.547	0.425	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-06 — Lab Sample ID: 620-14173-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.81		0.540	0.420	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-07 — Lab Sample ID: 620-14173-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.56		0.495	0.385	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-08 — Lab Sample ID: 620-14173-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.00		0.545	0.424	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-09 — Lab Sample ID: 620-14173-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.61		0.497	0.387	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-10 — Lab Sample ID: 620-14173-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.5		1.10	0.856	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-CC-11 — Lab Sample ID: 620-14173-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.17		0.0527	0.0410	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-12 — Lab Sample ID: 620-14173-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.666		0.0545	0.0424	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-13 — Lab Sample ID: 620-14173-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	5.67		0.478	0.372	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	89.9		4.38	3.41	mg/Kg	100	☼	8082	Total/NA

Client Sample ID: ATM-CC-15 — Lab Sample ID: 620-14173-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	6.29		0.557	0.433	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-16 — Lab Sample ID: 620-14173-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	13.0		0.522	0.406	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-17 — Lab Sample ID: 620-14173-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.33		0.453	0.352	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-18 — Lab Sample ID: 620-14173-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	19.3		0.548	0.426	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-19 — Lab Sample ID: 620-14173-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.3		0.594	0.462	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-20 — Lab Sample ID: 620-14173-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0722		0.0600	0.0467	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: FD-01-092723 — Lab Sample ID: 620-14173-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	67.0		2.64	2.05	mg/Kg	50	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ATM-CC-01 Lab Sample ID: 620-14173-1

Date Collected: 09/27/23 10:05 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.529	0.381	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1221	ND		0.529	0.156	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1232	ND		0.529	0.147	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1242	ND		0.529	0.0836	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1248	ND		0.529	0.165	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1254	**11.1**		0.529	0.412	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1262	ND		0.529	0.123	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1260	ND		0.529	0.114	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1268	ND		0.529	0.113	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*
DCB Decachlorobiphenyl (Surr)	*1*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.7**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.3**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-02
Date Collected: 09/27/23 10:15
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-2
Matrix: Solid
Percent Solids: 98.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.280	0.202	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1221	ND		0.280	0.0828	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1232	ND		0.280	0.0776	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1242	ND		0.280	0.0443	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1248	ND		0.280	0.0876	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1254	**7.37**		0.280	0.218	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1262	ND		0.280	0.0653	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1260	ND		0.280	0.0603	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1268	ND		0.280	0.0597	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*
Tetrachloro-m-xylene	*70*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*
DCB Decachlorobiphenyl (Surr)	*41*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*
DCB Decachlorobiphenyl (Surr)	*40*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.4**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.6**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-03

Date Collected: 09/27/23 10:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-3

Matrix: Solid
Percent Solids: 98.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0467	0.0336	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1221	ND		0.0467	0.0138	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1232	ND		0.0467	0.0129	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1242	ND		0.0467	0.00738	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1248	ND		0.0467	0.0146	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1254	**0.466**		0.0467	0.0363	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1262	ND		0.0467	0.0109	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1260	ND		0.0467	0.0100	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1268	ND		0.0467	0.00994	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-04

Date Collected: 09/27/23 10:50
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-4

Matrix: Solid
Percent Solids: 98.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.581	0.418	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1221	ND		0.581	0.172	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1232	ND		0.581	0.161	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1242	ND		0.581	0.0917	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1248	ND		0.581	0.181	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1254	**4.92**		0.581	0.452	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1262	ND		0.581	0.135	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1260	ND		0.581	0.125	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1268	ND		0.581	0.124	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*
Tetrachloro-m-xylene	*71*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*
DCB Decachlorobiphenyl (Surr)	*11*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.7**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.3**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-05 Lab Sample ID: 620-14173-5

Date Collected: 09/27/23 11:00 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.547	0.394	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1221	ND		0.547	0.162	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1232	ND		0.547	0.151	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1242	ND		0.547	0.0864	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1248	ND		0.547	0.171	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1254	**11.2**		0.547	0.425	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1262	ND		0.547	0.127	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1260	ND		0.547	0.118	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1268	ND		0.547	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*
DCB Decachlorobiphenyl (Surr)	*0.04*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-06 Lab Sample ID: 620-14173-6

Date Collected: 09/27/23 11:10 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.540	0.389	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1221	ND		0.540	0.160	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1232	ND		0.540	0.150	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1242	ND		0.540	0.0853	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1248	ND		0.540	0.169	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1254	**7.81**		0.540	0.420	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1262	ND		0.540	0.126	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1260	ND		0.540	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1268	ND		0.540	0.115	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*
Tetrachloro-m-xylene	*82*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*
DCB Decachlorobiphenyl (Surr)	*47*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*
DCB Decachlorobiphenyl (Surr)	*1*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.3**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.7**		0.1	0.1	%			09/29/23 15:25	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-07

Date Collected: 09/27/23 11:25
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-7

Matrix: Solid
Percent Solids: 99.0

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.495	0.356	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1221	ND		0.495	0.146	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1232	ND		0.495	0.137	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1242	ND		0.495	0.0782	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1248	ND		0.495	0.155	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1254	**1.56**		0.495	0.385	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1262	ND		0.495	0.115	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1260	ND		0.495	0.106	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1268	ND		0.495	0.105	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*
DCB Decachlorobiphenyl (Surr)	*18*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.0**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-08 Lab Sample ID: 620-14173-8

Date Collected: 09/27/23 11:35 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 97.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.545	0.393	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1221	ND		0.545	0.161	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1232	ND		0.545	0.151	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1242	ND		0.545	0.0861	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1248	ND		0.545	0.170	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1254	**7.00**		0.545	0.424	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1262	ND		0.545	0.127	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1260	ND		0.545	0.117	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1268	ND		0.545	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*
Tetrachloro-m-xylene	*67*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*
DCB Decachlorobiphenyl (Surr)	*41*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*
DCB Decachlorobiphenyl (Surr)	*3*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**97.1**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-09
Date Collected: 09/27/23 11:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-9
Matrix: Solid
Percent Solids: 99.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.497	0.358	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1221	ND		0.497	0.147	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1232	ND		0.497	0.138	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1242	ND		0.497	0.0785	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1248	ND		0.497	0.155	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1254	**2.61**		0.497	0.387	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1262	ND		0.497	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1260	ND		0.497	0.107	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1268	ND		0.497	0.106	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*
Tetrachloro-m-xylene	*78*		*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*
DCB Decachlorobiphenyl (Surr)	*49*		*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*
DCB Decachlorobiphenyl (Surr)	*28*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.5**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.5**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-10 — Lab Sample ID: 620-14173-10

Date Collected: 09/27/23 12:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.10	0.793	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1221	ND		1.10	0.325	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1232	ND		1.10	0.305	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1242	ND		1.10	0.174	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1248	ND		1.10	0.344	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1254	**11.5**		1.10	0.856	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1262	ND		1.10	0.256	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1260	ND		1.10	0.237	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1268	ND		1.10	0.234	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-11 Lab Sample ID: 620-14173-11

Date Collected: 09/27/23 12:05 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 99.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0527	0.0380	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1221	ND		0.0527	0.0156	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1232	ND		0.0527	0.0146	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1242	ND		0.0527	0.00832	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1248	ND		0.0527	0.0165	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1254	**1.17**		0.0527	0.0410	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1262	ND		0.0527	0.0123	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1260	ND		0.0527	0.0113	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1268	ND		0.0527	0.0112	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.8**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.2**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-12

Date Collected: 09/27/23 12:15
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-12

Matrix: Solid
Percent Solids: 99.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0545	0.0392	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1221	ND		0.0545	0.0161	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1232	ND		0.0545	0.0151	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1242	ND		0.0545	0.00860	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1248	ND		0.0545	0.0170	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1254	**0.666**		0.0545	0.0424	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1262	ND		0.0545	0.0127	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1260	ND		0.0545	0.0117	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1268	ND		0.0545	0.0116	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.8**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.2**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-13

Date Collected: 09/27/23 12:20
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-13

Matrix: Solid
Percent Solids: 99.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.478	0.344	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1221	ND		0.478	0.141	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1232	ND		0.478	0.132	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1242	ND		0.478	0.0755	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1248	ND		0.478	0.149	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1254	**5.67**		0.478	0.372	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1262	ND		0.478	0.111	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1260	ND		0.478	0.103	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1268	ND		0.478	0.102	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*		*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*
Tetrachloro-m-xylene	*51*		*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*
DCB Decachlorobiphenyl (Surr)	*44*		*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*
DCB Decachlorobiphenyl (Surr)	*8*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Date Collected: 09/27/23 12:30 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.38	3.16	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1221	ND		4.38	1.30	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1232	ND		4.38	1.21	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1242	ND		4.38	0.693	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1248	ND		4.38	1.37	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1254	**89.9**		4.38	3.41	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1262	ND		4.38	1.02	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1260	ND		4.38	0.943	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1268	ND		4.38	0.934	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.4**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.6**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-15

Date Collected: 09/27/23 12:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-15

Matrix: Solid
Percent Solids: 99.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.557	0.401	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1221	ND		0.557	0.165	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1232	ND		0.557	0.154	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1242	ND		0.557	0.0880	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1248	ND		0.557	0.174	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1254	**6.29**		0.557	0.433	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1262	ND		0.557	0.130	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1260	ND		0.557	0.120	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1268	ND		0.557	0.119	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*
DCB Decachlorobiphenyl (Surr)	*45*	*p*	*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.8**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.2**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-16

Date Collected: 09/27/23 12:50
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-16

Matrix: Solid
Percent Solids: 98.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.522	0.376	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1221	ND		0.522	0.154	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1232	ND		0.522	0.145	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1242	ND		0.522	0.0824	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1248	ND		0.522	0.163	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1254	**13.0**		0.522	0.406	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1262	ND		0.522	0.122	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1260	ND		0.522	0.112	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1268	ND		0.522	0.111	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*
Tetrachloro-m-xylene	*53*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*
DCB Decachlorobiphenyl (Surr)	*30*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*
DCB Decachlorobiphenyl (Surr)	*8*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.4**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.6**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-17

Date Collected: 09/27/23 13:10
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-17

Matrix: Solid
Percent Solids: 99.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.453	0.326	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1221	ND		0.453	0.134	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1232	ND		0.453	0.125	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1242	ND		0.453	0.0716	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1248	ND		0.453	0.142	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1254	**4.33**		0.453	0.352	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1262	ND		0.453	0.106	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1260	ND	F1	0.453	0.0974	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1268	ND		0.453	0.0965	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*
Tetrachloro-m-xylene	*82*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*
DCB Decachlorobiphenyl (Surr)	*47*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*
DCB Decachlorobiphenyl (Surr)	*17*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.5**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.5**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-18

Date Collected: 09/27/23 13:15
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-18

Matrix: Solid
Percent Solids: 99.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.548	0.395	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1221	ND		0.548	0.162	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1232	ND		0.548	0.152	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1242	ND		0.548	0.0865	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1248	ND		0.548	0.171	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1254	**19.3**		0.548	0.426	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1262	ND		0.548	0.128	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1260	ND		0.548	0.118	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1268	ND		0.548	0.117	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*
DCB Decachlorobiphenyl (Surr)	*33*		*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*
DCB Decachlorobiphenyl (Surr)	*5*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.5**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.5**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-19

Date Collected: 09/27/23 13:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-19

Matrix: Solid
Percent Solids: 98.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.594	0.428	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1221	ND		0.594	0.176	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1232	ND		0.594	0.165	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1242	ND		0.594	0.0938	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1248	ND		0.594	0.186	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1254	**11.3**		0.594	0.462	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1262	ND		0.594	0.138	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1260	ND		0.594	0.128	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1268	ND		0.594	0.127	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*
Tetrachloro-m-xylene	*93*		*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*
DCB Decachlorobiphenyl (Surr)	*21*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-20 Lab Sample ID: 620-14173-20

Date Collected: 09/27/23 13:40 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0600	0.0432	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1221	ND		0.0600	0.0177	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1232	ND		0.0600	0.0166	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1242	ND		0.0600	0.00948	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1248	ND		0.0600	0.0187	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1254	**0.0722**		0.0600	0.0467	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1262	ND		0.0600	0.0140	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1260	ND		0.0600	0.0129	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1268	ND		0.0600	0.0128	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*
Tetrachloro-m-xylene	*81*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.0**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.0**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: FD-01-092723 **Lab Sample ID: 620-14173-21**
Date Collected: 09/27/23 08:00 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 99.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.64	1.90	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1221	ND		2.64	0.779	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1232	ND		2.64	0.730	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1242	ND		2.64	0.417	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1248	ND		2.64	0.824	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1254	**67.0**		2.64	2.05	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1262	ND		2.64	0.614	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1260	ND		2.64	0.567	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1268	ND		2.64	0.562	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.0**		0.1	0.1	%			09/29/23 15:25	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14173-1	ATM-CC-01	79	74	61	1 p S1-
620-14173-2	ATM-CC-02	72	70	41	40
620-14173-3	ATM-CC-03	69	76	70	67
620-14173-4	ATM-CC-04	63	71	65	11 p S1-
620-14173-5	ATM-CC-05	72	76	42	0.04 p S1-
620-14173-6	ATM-CC-06	75	82	47	1 p S1-
620-14173-7	ATM-CC-07	67	68	48	18 p S1-
620-14173-8	ATM-CC-08	63	67	41	3 p S1-
620-14173-9	ATM-CC-09	70	78	49	28 p S1-
620-14173-10	ATM-CC-10	0 S1-	0 S1-	0 S1-	0 S1-
620-14173-11	ATM-CC-11	64	80	66	62
620-14173-12	ATM-CC-12	79	79	65	63
620-14173-13	ATM-CC-13	47	51	44	8 p S1-
620-14173-14	ATM-CC-14	0 S1-	0 S1-	0 S1-	0 S1-
620-14173-15	ATM-CC-15	59	63	45 p	70
620-14173-16	ATM-CC-16	51	53	30	8 p S1-
620-14173-17	ATM-CC-17	79	82	47	17 p S1-
620-14173-17 MS	ATM-CC-17	76	81	45	27 p S1-
620-14173-17 MSD	ATM-CC-17	74	81	63	49
620-14173-18	ATM-CC-18	74	72	33	5 p S1-
620-14173-19	ATM-CC-19	88	93	42	21 p S1-
620-14173-20	ATM-CC-20	80	81	65	68
620-14173-21	FD-01-092723	0 S1-	0 S1-	0 S1-	0 S1-
LCS 620-27346/2-A	Lab Control Sample	81	80	64	64
LCS 620-27347/2-A	Lab Control Sample	61	64	53	53
LCSD 620-27346/3-A	Lab Control Sample Dup	75	76	66	67
LCSD 620-27347/3-A	Lab Control Sample Dup	69	73	57	56
MB 620-27346/1-A	Method Blank	76	73	68	68
MB 620-27347/1-A	Method Blank	71	75	62	61

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-27346/1-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:40	10/04/23 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*

Lab Sample ID: LCS 620-27346/2-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1448		mg/Kg		87	40 - 140		
PCB-1016			0.167	0.1359		mg/Kg		82	40 - 140		
PCB-1260			0.167	0.1678		mg/Kg		101	40 - 140		
PCB-1260			0.167	0.1456		mg/Kg		87	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*80*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*

Lab Sample ID: LCSD 620-27346/3-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1440		mg/Kg		86	40 - 140	1	30
PCB-1016			0.167	0.1355		mg/Kg		81	40 - 140	0	30
PCB-1260			0.167	0.1669		mg/Kg		100	40 - 140	1	30
PCB-1260			0.167	0.1462		mg/Kg		88	40 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*30 - 150*
Tetrachloro-m-xylene	*76*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27347/1-A
Matrix: Solid
Analysis Batch: 27462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:44	10/04/23 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*
Tetrachloro-m-xylene	*75*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*

Lab Sample ID: LCS 620-27347/2-A
Matrix: Solid
Analysis Batch: 27462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27347

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1091		mg/Kg		65	40 - 140		
PCB-1016			0.167	0.1035		mg/Kg		62	40 - 140		
PCB-1260			0.167	0.1155		mg/Kg		69	40 - 140		
PCB-1260			0.167	0.1159		mg/Kg		70	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*61*		*30 - 150*
Tetrachloro-m-xylene	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*

Lab Sample ID: LCSD 620-27347/3-A
Matrix: Solid
Analysis Batch: 27462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27347

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1236		mg/Kg		74	40 - 140	12	30
PCB-1016			0.167	0.1235		mg/Kg		74	40 - 140	18	30
PCB-1260			0.167	0.1290		mg/Kg		77	40 - 140	11	30
PCB-1260			0.167	0.1302		mg/Kg		78	40 - 140	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*30 - 150*
Tetrachloro-m-xylene	*73*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*57*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*56*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-14173-17 MS
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-17
Prep Type: Total/NA
Prep Batch: 27347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND	F2	0.410	0.3602	J	mg/Kg	☼	88	40 - 140
PCB-1260	ND	F1	0.410	1.230	F1	mg/Kg	☼	300	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*30 - 150*
Tetrachloro-m-xylene	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*45*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*27*	*p S1-*	*30 - 150*

Lab Sample ID: 620-14173-17 MSD
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-17
Prep Type: Total/NA
Prep Batch: 27347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND	F2	0.493	0.5116	J F2	mg/Kg	☼	104	40 - 140	35	30
PCB-1260	ND	F1	0.493	1.337	F1	mg/Kg	☼	271	40 - 140	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*30 - 150*
Tetrachloro-m-xylene	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*49*		*30 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 620-14173-10 DU
Matrix: Solid
Analysis Batch: 27343

Client Sample ID: ATM-CC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.9		1.9		%		4	5
Percent Solids	98.1		98.1		%		0.08	5

Lab Sample ID: 620-14173-17 DU
Matrix: Solid
Analysis Batch: 27343

Client Sample ID: ATM-CC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.5		0.4	F5	%		22	5
Percent Solids	99.5		99.6		%		0.1	5

Lab Sample ID: 620-14173-21 DU
Matrix: Solid
Analysis Batch: 27343

Client Sample ID: FD-01-092723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1		1		%		1	5
Percent Solids	99.0		99.0		%		0	5

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 620-14173-2 DU
Matrix: Solid
Analysis Batch: 27359

Client Sample ID: ATM-CC-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.9			3.0		%				3	5
Percent Solids	97.1			97.0		%				0.1	5

Lab Sample ID: 620-14173-12 DU
Matrix: Solid
Analysis Batch: 27359

Client Sample ID: ATM-CC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.2			1.2		%				2	5
Percent Solids	98.8			98.8		%				0	5

Lab Sample ID: 620-14173-17 DU
Matrix: Solid
Analysis Batch: 27359

Client Sample ID: ATM-CC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.6			1.8	F3	%				8	5
Percent Solids	98.4			98.2		%				0.1	5

GC Semi VOA

Prep Batch: 27346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-1	ATM-CC-01	Total/NA	Solid	3540C	
620-14173-2	ATM-CC-02	Total/NA	Solid	3540C	
620-14173-3	ATM-CC-03	Total/NA	Solid	3540C	
620-14173-4	ATM-CC-04	Total/NA	Solid	3540C	
620-14173-5	ATM-CC-05	Total/NA	Solid	3540C	
620-14173-6	ATM-CC-06	Total/NA	Solid	3540C	
620-14173-7	ATM-CC-07	Total/NA	Solid	3540C	
620-14173-8	ATM-CC-08	Total/NA	Solid	3540C	
620-14173-9	ATM-CC-09	Total/NA	Solid	3540C	
620-14173-10	ATM-CC-10	Total/NA	Solid	3540C	
620-14173-11	ATM-CC-11	Total/NA	Solid	3540C	
620-14173-12	ATM-CC-12	Total/NA	Solid	3540C	
620-14173-13	ATM-CC-13	Total/NA	Solid	3540C	
620-14173-14	ATM-CC-14	Total/NA	Solid	3540C	
MB 620-27346/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Prep Batch: 27347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-15	ATM-CC-15	Total/NA	Solid	3540C	
620-14173-16	ATM-CC-16	Total/NA	Solid	3540C	
620-14173-17	ATM-CC-17	Total/NA	Solid	3540C	
620-14173-18	ATM-CC-18	Total/NA	Solid	3540C	
620-14173-19	ATM-CC-19	Total/NA	Solid	3540C	
620-14173-20	ATM-CC-20	Total/NA	Solid	3540C	
620-14173-21	FD-01-092723	Total/NA	Solid	3540C	
MB 620-27347/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27347/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27347/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-14173-17 MS	ATM-CC-17	Total/NA	Solid	3540C	
620-14173-17 MSD	ATM-CC-17	Total/NA	Solid	3540C	

Analysis Batch: 27460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-1	ATM-CC-01	Total/NA	Solid	8082	27346
620-14173-2	ATM-CC-02	Total/NA	Solid	8082	27346
620-14173-4	ATM-CC-04	Total/NA	Solid	8082	27346
620-14173-5	ATM-CC-05	Total/NA	Solid	8082	27346
620-14173-6	ATM-CC-06	Total/NA	Solid	8082	27346
620-14173-7	ATM-CC-07	Total/NA	Solid	8082	27346
620-14173-8	ATM-CC-08	Total/NA	Solid	8082	27346
620-14173-9	ATM-CC-09	Total/NA	Solid	8082	27346
620-14173-13	ATM-CC-13	Total/NA	Solid	8082	27346
620-14173-15	ATM-CC-15	Total/NA	Solid	8082	27347
620-14173-16	ATM-CC-16	Total/NA	Solid	8082	27347
620-14173-17	ATM-CC-17	Total/NA	Solid	8082	27347
620-14173-18	ATM-CC-18	Total/NA	Solid	8082	27347
620-14173-19	ATM-CC-19	Total/NA	Solid	8082	27347
620-14173-20	ATM-CC-20	Total/NA	Solid	8082	27347
MB 620-27346/1-A	Method Blank	Total/NA	Solid	8082	27346

GC Semi VOA (Continued)

Analysis Batch: 27460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	8082	27346
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27346
620-14173-17 MS	ATM-CC-17	Total/NA	Solid	8082	27347
620-14173-17 MSD	ATM-CC-17	Total/NA	Solid	8082	27347

Analysis Batch: 27462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-27347/1-A	Method Blank	Total/NA	Solid	8082	27347
LCS 620-27347/2-A	Lab Control Sample	Total/NA	Solid	8082	27347
LCSD 620-27347/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27347

Analysis Batch: 27492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-12	ATM-CC-12	Total/NA	Solid	8082	27346
620-14173-14	ATM-CC-14	Total/NA	Solid	8082	27346
620-14173-21	FD-01-092723	Total/NA	Solid	8082	27347

Analysis Batch: 27494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-3	ATM-CC-03	Total/NA	Solid	8082	27346
620-14173-10	ATM-CC-10	Total/NA	Solid	8082	27346
620-14173-11	ATM-CC-11	Total/NA	Solid	8082	27346

General Chemistry

Analysis Batch: 27343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-1	ATM-CC-01	Total/NA	Solid	Moisture	
620-14173-2	ATM-CC-02	Total/NA	Solid	Moisture	
620-14173-3	ATM-CC-03	Total/NA	Solid	Moisture	
620-14173-4	ATM-CC-04	Total/NA	Solid	Moisture	
620-14173-5	ATM-CC-05	Total/NA	Solid	Moisture	
620-14173-6	ATM-CC-06	Total/NA	Solid	Moisture	
620-14173-7	ATM-CC-07	Total/NA	Solid	Moisture	
620-14173-8	ATM-CC-08	Total/NA	Solid	Moisture	
620-14173-9	ATM-CC-09	Total/NA	Solid	Moisture	
620-14173-10	ATM-CC-10	Total/NA	Solid	Moisture	
620-14173-11	ATM-CC-11	Total/NA	Solid	Moisture	
620-14173-12	ATM-CC-12	Total/NA	Solid	Moisture	
620-14173-13	ATM-CC-13	Total/NA	Solid	Moisture	
620-14173-14	ATM-CC-14	Total/NA	Solid	Moisture	
620-14173-15	ATM-CC-15	Total/NA	Solid	Moisture	
620-14173-16	ATM-CC-16	Total/NA	Solid	Moisture	
620-14173-17	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-18	ATM-CC-18	Total/NA	Solid	Moisture	
620-14173-19	ATM-CC-19	Total/NA	Solid	Moisture	
620-14173-20	ATM-CC-20	Total/NA	Solid	Moisture	
620-14173-21	FD-01-092723	Total/NA	Solid	Moisture	
620-14173-17 MS	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-17 MSD	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-10 DU	ATM-CC-10	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 27343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-17 DU	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-21 DU	FD-01-092723	Total/NA	Solid	Moisture	

Analysis Batch: 27359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-2 DU	ATM-CC-02	Total/NA	Solid	Moisture	
620-14173-12 DU	ATM-CC-12	Total/NA	Solid	Moisture	
620-14173-17 DU	ATM-CC-17	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-01 Lab Sample ID: 620-14173-1
Date Collected: 09/27/23 10:05 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-01 Lab Sample ID: 620-14173-1
Date Collected: 09/27/23 10:05 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 11:04

Client Sample ID: ATM-CC-02 Lab Sample ID: 620-14173-2
Date Collected: 09/27/23 10:15 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-02 Lab Sample ID: 620-14173-2
Date Collected: 09/27/23 10:15 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		5	27460	SFL	EET NE	10/04/23 11:22

Client Sample ID: ATM-CC-03 Lab Sample ID: 620-14173-3
Date Collected: 09/27/23 10:35 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-03 Lab Sample ID: 620-14173-3
Date Collected: 09/27/23 10:35 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27494	SFL	EET NE	10/05/23 14:11

Client Sample ID: ATM-CC-04 Lab Sample ID: 620-14173-4
Date Collected: 09/27/23 10:50 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-04
Date Collected: 09/27/23 10:50
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-4
Matrix: Solid
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 11:39

Client Sample ID: ATM-CC-05
Date Collected: 09/27/23 11:00
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-05
Date Collected: 09/27/23 11:00
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-5
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 11:57

Client Sample ID: ATM-CC-06
Date Collected: 09/27/23 11:10
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-06
Date Collected: 09/27/23 11:10
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-6
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 12:15

Client Sample ID: ATM-CC-07
Date Collected: 09/27/23 11:25
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-07
Date Collected: 09/27/23 11:25
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-7
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 12:33

Client Sample ID: ATM-CC-08
Date Collected: 09/27/23 11:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-08
Date Collected: 09/27/23 11:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-8
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 12:51

Client Sample ID: ATM-CC-09
Date Collected: 09/27/23 11:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-09
Date Collected: 09/27/23 11:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-9
Matrix: Solid
Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 13:08

Client Sample ID: ATM-CC-10
Date Collected: 09/27/23 12:00
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-10 — Lab Sample ID: 620-14173-10
Date Collected: 09/27/23 12:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		20	27494	SFL	EET NE	10/05/23 14:28

Client Sample ID: ATM-CC-11 — Lab Sample ID: 620-14173-11
Date Collected: 09/27/23 12:05 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-11 — Lab Sample ID: 620-14173-11
Date Collected: 09/27/23 12:05 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27494	SFL	EET NE	10/05/23 14:46

Client Sample ID: ATM-CC-12 — Lab Sample ID: 620-14173-12
Date Collected: 09/27/23 12:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-12 — Lab Sample ID: 620-14173-12
Date Collected: 09/27/23 12:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27492	SFL	EET NE	10/05/23 14:14

Client Sample ID: ATM-CC-13 — Lab Sample ID: 620-14173-13
Date Collected: 09/27/23 12:20 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-13 — Lab Sample ID: 620-14173-13

Date Collected: 09/27/23 12:20 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 14:21

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Date Collected: 09/27/23 12:30 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Date Collected: 09/27/23 12:30 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		100	27492	SFL	EET NE	10/05/23 14:31

Client Sample ID: ATM-CC-15 — Lab Sample ID: 620-14173-15

Date Collected: 09/27/23 12:45 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-15 — Lab Sample ID: 620-14173-15

Date Collected: 09/27/23 12:45 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 14:57

Client Sample ID: ATM-CC-16 — Lab Sample ID: 620-14173-16

Date Collected: 09/27/23 12:50 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-16 — Lab Sample ID: 620-14173-16

Date Collected: 09/27/23 12:50 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 15:15

Client Sample ID: ATM-CC-17 — Lab Sample ID: 620-14173-17

Date Collected: 09/27/23 13:10 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-17 — Lab Sample ID: 620-14173-17

Date Collected: 09/27/23 13:10 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 15:32

Client Sample ID: ATM-CC-18 — Lab Sample ID: 620-14173-18

Date Collected: 09/27/23 13:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-18 — Lab Sample ID: 620-14173-18

Date Collected: 09/27/23 13:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 16:51

Client Sample ID: ATM-CC-19 — Lab Sample ID: 620-14173-19

Date Collected: 09/27/23 13:35 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-19 — Lab Sample ID: 620-14173-19

Date Collected: 09/27/23 13:35 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 17:09

Client Sample ID: ATM-CC-20 — Lab Sample ID: 620-14173-20

Date Collected: 09/27/23 13:40 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-20 — Lab Sample ID: 620-14173-20

Date Collected: 09/27/23 13:40 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/05/23 09:18

Client Sample ID: FD-01-092723 — Lab Sample ID: 620-14173-21

Date Collected: 09/27/23 08:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: FD-01-092723 — Lab Sample ID: 620-14173-21

Date Collected: 09/27/23 08:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		50	27492	SFL	EET NE	10/05/23 14:49

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
Moisture	Percent Moisture	EPA	EET NE
3540C	Soxhlet Extraction	SW846	EET NE

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-14173-1	ATM-CC-01	Solid	09/27/23 10:05	09/27/23 16:13
620-14173-2	ATM-CC-02	Solid	09/27/23 10:15	09/27/23 16:13
620-14173-3	ATM-CC-03	Solid	09/27/23 10:35	09/27/23 16:13
620-14173-4	ATM-CC-04	Solid	09/27/23 10:50	09/27/23 16:13
620-14173-5	ATM-CC-05	Solid	09/27/23 11:00	09/27/23 16:13
620-14173-6	ATM-CC-06	Solid	09/27/23 11:10	09/27/23 16:13
620-14173-7	ATM-CC-07	Solid	09/27/23 11:25	09/27/23 16:13
620-14173-8	ATM-CC-08	Solid	09/27/23 11:35	09/27/23 16:13
620-14173-9	ATM-CC-09	Solid	09/27/23 11:45	09/27/23 16:13
620-14173-10	ATM-CC-10	Solid	09/27/23 12:00	09/27/23 16:13
620-14173-11	ATM-CC-11	Solid	09/27/23 12:05	09/27/23 16:13
620-14173-12	ATM-CC-12	Solid	09/27/23 12:15	09/27/23 16:13
620-14173-13	ATM-CC-13	Solid	09/27/23 12:20	09/27/23 16:13
620-14173-14	ATM-CC-14	Solid	09/27/23 12:30	09/27/23 16:13
620-14173-15	ATM-CC-15	Solid	09/27/23 12:45	09/27/23 16:13
620-14173-16	ATM-CC-16	Solid	09/27/23 12:50	09/27/23 16:13
620-14173-17	ATM-CC-17	Solid	09/27/23 13:10	09/27/23 16:13
620-14173-18	ATM-CC-18	Solid	09/27/23 13:15	09/27/23 16:13
620-14173-19	ATM-CC-19	Solid	09/27/23 13:35	09/27/23 16:13
620-14173-20	ATM-CC-20	Solid	09/27/23 13:40	09/27/23 16:13
620-14173-21	FD-01-092723	Solid	09/27/23 08:00	09/27/23 16:13

14173

620-14173 Chain of Custody

Chain of Custody Record

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	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-12317-1644 1
Client Contact: Stephanie Stone	Phone	E-Mail: DMcGrath@nobis-group.com	State of Origin	Page: Page 1 of 10
Company: Nobis Engineering, Inc	PWSID		Analysis Requested	Job #:

Address: 585 Middlesex Street	Due Date Requested:
City: Lowell	TAT Requested (days): 5 day TAT
State, Zip: MA, 01851	Compliance Project: ☑ Yes △ No MCP CAM
Phone: 774-245-3612	PO #:
Email: sstone@nobis-group com	WO #:
Project Name: American Tissue Mill	Project #: S000D1.002/400
Site: Templeton, MA	SSOW#:

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCB 8082 (SOxH(et)	Total Number of containers	Special Instructions/Note:
	Preservation Code:							T		
-1	ATM-CC-01	9/27/23	1005	G	Solid			1		
-2	ATM-CC-02		1015		Solid					
-3	ATM-CC-03		1035		Solid					
-4	ATM-CC-04		1050		Solid					
-5	ATM-CC-05		1100		Solid					
-6	ATM-CC-06		1110		Solid					
-7	ATM-CC-07		11:25		Solid					
-8	ATM-CC-08		11:35		Solid					
-9	ATM-CC-09		11:45		Solid					
-10	ATM-CC-10		1200		Solid					
-11	ATM-CC-11		1205		Solid					

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send EQuIS EDD to DMcGrath@nobis-group.com

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by	9-27-23 13:57		Received by	9/27/23 1400	ENE
Relinquished by	9/27/23 16:13	ENE	Received by	9/27/23 16:13	BNG
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.2 +0.2 1.4 = 6

Ver: 06/08/2021

10/5/2023

14173

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax 413-506-3830

Chain of Custody Record

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Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-12317-1644 5
Client Contact: Stephanie Stone	Phone	E-Mail: DMcGrath@Nobis-Group.com	State of Origin	Page: Page 5 of 10
Company: Nobis Engineering, Inc	PWSID		Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Lowell	TAT Requested (days): 5 day TAT			
State, Zip: MA, 01851	Compliance Project: ☑ Yes ☐ No MCP CAM			
Phone: 774-245-3612	PO #:			Other:
Email: sstone@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #: S00001.002/400			
Site: Templeton, MA	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCB 60 82 (Soxhlet)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				1		
-12 ATM-CC-12	9/27/23	1215	G	Solid			1		
-13 ATM-CC-13		1220		Solid			1		
-14 ATM-CC-14		1230		Solid			1		
-15 ATM-CC-15		1245		Solid			1		
-16 ATM-CC-16		1250		Solid			1		
-17 ATM-CC-17		1310		Solid	X		1		MS/MSD
-18 ATM-CC-18		1315		Solid			1		
-19 ATM-CC-19		1335		Solid			1		
-20 ATM-CC-20		1340		Solid			1		
-21 FD-01-092723		0800		Solid			1		
				Solid			1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send Equis EDD to DMcGrath@Nobis-group.com

Empty Kit Relinquished by.	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-27-23 15:58			9/27/23 1640	ENC
2		9/27/23 16:13	ENC		9/27/23 16:13	ENC
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.2 to.2 1.4 #6

Ver: 06/08/2021

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10/5/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-14173-1

Login Number: 14173
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

March 6, 2024
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620141901
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic Data Review

Polychlorinated Biphenyls (PCBs) by Massachusetts Contingency Plan (MCP) Compendium of Analytical Methods (CAM) Method 8082:

11/Concrete Samples: ATM-CC-21, ATM-CC-22, ATM-CC-23, ATM-CC-24, ATM-CC-25, ATM-CC-26, ATM-CC-27, ATM-CC-28, ATM-CC-29, ATM-CC-30, FD-02-092723
1/Field Duplicate Pair: ATM-CC-28 / FD-02-092723

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on September 27, 2023. The samples were analyzed for Polychlorinated Biphenyls by MCP CAM Method 8082 by Eurofins New England in North Kingstown, RI.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); the Program Quality Assurance Project Plan (Program QAPP), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

*	• Overall Evaluation of Data and Potential Usability Issues
*	• Data Completeness
*	• Preservation and Technical Holding Times
*	• Blanks
*	• Surrogates
NA	• Internal Standards

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*	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
*	•	Field Duplicates
NA	•	Performance Evaluation (PE) Samples
	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

The data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

PCBs:
One result was qualified for exceeded dual column precision criteria.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Gary Glennon
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete				
Lab Sample ID		620-14190-1	620-14190-10	620-14190-11	620-14190-2	620-14190-3
Field Sample ID		ATM-CC-21	ATM-CC-30	FD-02-092723	ATM-CC-22	ATM-CC-23
Sample Type		N	N	FD	N	N
Parent Sample ID				ATM-CC-28		
Sample Date	**Units**	09/27/23	09/27/23	09/27/23	09/27/23	09/27/23
Aroclor 1016	mg/kg	0.0541 U	0.0567 U	0.453 U	0.054 U	0.212 U
Aroclor 1221	mg/kg	0.0541 U	0.0567 U	0.453 U	0.054 U	0.212 U
Aroclor 1232	mg/kg	0.0541 U	0.0567 U	0.453 U	0.054 U	0.212 U
Aroclor 1242	mg/kg	0.0541 U	0.0567 U	0.453 U	0.054 U	0.212 U
Aroclor 1248	mg/kg	0.0541 U	0.0567 U	0.453 U	0.054 U	0.212 U
Aroclor 1254	mg/kg	0.377	0.479	11.2	0.054 U	0.35
Aroclor 1260	mg/kg	1.41	0.85	12.8	0.234	4.34
Aroclor 1262	mg/kg	0.0541 U	0.0567 U	0.453 U	0.054 U	0.212 U
Aroclor 1268	mg/kg	0.814	0.487	5.26	0.196	3.23
Aroclor, Total	mg/kg	2.601	1.816	29.26	0.43	7.92

U – not detected; J – estimated value; R – rejected; EB – detected in equipment blank; N – tentatively identified; + biased high; - biased low

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete				
Lab Sample ID		620-14190-4	620-14190-5	620-14190-6	620-14190-7	620-14190-8
Field Sample ID		ATM-CC-24	ATM-CC-25	ATM-CC-26	ATM-CC-27	ATM-CC-28
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	09/27/23	09/27/23	09/27/23	09/27/23	09/27/23
Aroclor 1016	mg/kg	0.047 U	0.0543 U	0.0588 U	0.0533 U	0.474 U
Aroclor 1221	mg/kg	0.047 U	0.0543 U	0.0588 U	0.0533 U	0.474 U
Aroclor 1232	mg/kg	0.047 U	0.0543 U	0.0588 U	0.0533 U	0.474 U
Aroclor 1242	mg/kg	0.047 U	0.0543 U	0.0588 U	0.0533 U	0.474 U
Aroclor 1248	mg/kg	0.047 U	0.0543 U	0.0588 U	0.0533 U	0.474 U
Aroclor 1254	mg/kg	0.0757	0.192	0.818	0.185	14.1
Aroclor 1260	mg/kg	0.188 J	0.606	1.65	0.142	14.8
Aroclor 1262	mg/kg	0.047 U	0.0543 U	0.0588 U	0.0533 U	0.474 U
Aroclor 1268	mg/kg	0.223	0.362	1.17	0.0585	5.77
Aroclor, Total	mg/kg	0.4867 J	1.16	3.638	0.3855	34.67

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Concrete
Lab Sample ID		620-14190-9
Field Sample ID		ATM-CC-29
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	09/27/23
Aroclor 1016	mg/kg	0.0516 U
Aroclor 1221	mg/kg	0.0516 U
Aroclor 1232	mg/kg	0.0516 U
Aroclor 1242	mg/kg	0.0516 U
Aroclor 1248	mg/kg	0.0516 U
Aroclor 1254	mg/kg	0.0574
Aroclor 1260	mg/kg	0.171
Aroclor 1262	mg/kg	0.0516 U
Aroclor 1268	mg/kg	0.133
Aroclor, Total	mg/kg	0.3614

Data Review Qualification Actions
Site: American Tissue Mill
SDG: 620141901

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PCBs					
	Aroclor 1260	ATM-CC-24	Dual column precision	J	

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02

Date: 02/14/2024

Methods: Polychlorinated Biphenyls (PCBs) by Massachusetts Contingency Plan (MCP) Compendium of Analytical Methods (CAM) Method 8082

Laboratory: Eurofins New England, North Kingstown, RI
Case: N/A
SDG: 620141901
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Eleven (11) concrete samples, including one field duplicate sample, were listed on the COC for SDG 620141901. The samples were collected on 09/27/2023 and received at the laboratory on 09/28/2023 at a maximum temperature of 1.6 °C.

Sample ID	Laboratory ID	Analyses
ATM-CC-21	620-14190-1	PCBs
ATM-CC-22	620-14190-2	PCBs
ATM-CC-23	620-14190-3	PCBs
ATM-CC-24	620-14190-4	PCBs
ATM-CC-25	620-14190-5	PCBs
ATM-CC-26	620-14190-6	PCBs
ATM-CC-27	620-14190-7	PCBs
ATM-CC-28	620-14190-8	PCBs
ATM-CC-29	620-14190-9	PCBs
ATM-CC-30	620-14190-10	PCBs
FD-02-092723	620-14190-11	PCBs

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) was used to perform the analysis. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte list reported by the laboratory was compared to the required analyte list per Table 2 (soil) in the QAPPA (February 2023) for the site. Results for all requested Aroclors were reported by the laboratory. MassDEP CAM target Aroclors 1262 and 1268 were also included in the laboratory report.

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2. **Holding Time and Sample Preservation Compliance**

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

3. **Calibration Issues**

Not assessed for S2AVM data review.

4. **Laboratory and Field Blanks**

PCBs: Results for the PCB laboratory method blank were non-detect. No blank actions are required.

5. **Interference Check Sample (metals only)**

Not applicable for this analysis.

6. **Surrogates**

PCBs: Percent surrogate recoveries for the samples were within the Program QAPP soil limits of 30-150% except for the recovery of decachlorobiphenyl (DCB) in samples ATM-CC-23 (620-14190-3), ATM-CC-28 (620-14190-8), and FD-02-092723 (620-14190-11), where the recoveries were above the limits on both the primary and confirmatory columns. Aroclors 1254, 1260, and 1268 were all detected in each of these samples. It is likely that the presence of these Aroclors in the samples interfered with the recovery of the surrogate DCB. No actions are taken.

7. **Laboratory Control Samples**

PCBs: Percent recoveries of Aroclors 1016 and 1260 in the PCB LCS/LCSD pair met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 30%. No actions are required.

8. **Matrix Spikes**

PCBs: Only Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, if actions are required, they are applied as follows:

If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on sample ATM-CC-24 (620-14190-4).

MS/MSD recoveries for Aroclor 1016 were within the Program QAPP soil limits of 40-140%; however, the RPD (55%) exceeded the Program QAPP limit of ≤ 30%. Results for Aroclors 1016, 1221, 1232, and 1242 were non-detect in all samples. Based on the NFGs (2020), the non-detect results for these Aroclors are accepted unqualified. No actions are taken.

The recoveries of Aroclor 1260 exceeded the Program QAPP soil limits of 40-140% in the MS and MSD analyses and the RPD exceeded the Program QAPP limit of ≤ 30%. Note that Aroclors 1254, 1260, and 1268 were detected in the unspiked parent sample. The presence of these

Aroclors in the unspiked sample likely interfered with the recovery of Aroclor 1260 in the MS/MSD analyses. Therefore, no action is taken.

9. **Laboratory Duplicates (metals only)**

   Not applicable for PCB analysis.

10. **Serial Dilution (metals only)**

    Not applicable for PCB analysis.

11. **Field Duplicate Precision**

    Criteria based on the EPA Region I Environmental Data Review Supplement (September 2020): RPD ≤ 50% (soils) for results ≥ 5 QL or absolute difference of ≤ 4x QL for results < 5x QL.

    Field duplicate pair ATM-CC-28 / FD-02-092723 (620-14190-8 / 620-14190-11) is associated with the samples of this SDG.

    PCBs: Field duplicate precision criteria were met. No actions are required.

12. **Internal Standards**

    Not applicable for this analysis.

13. **Dual Column Precision (PCBs only)**

    Laboratory data for PCB identification and quantitation are not a required deliverable for the MCP CAM for PCB analysis by GC. Therefore, dual column precision could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40%. The detected result for Aroclor 1260 in sample ATM-CC-24 (620-14190-4) was reported with a “p” qualifier to indicate that the RPD between the primary and confirmation column results is > 40%, as defined in the laboratory report glossary. Based on the NFGs (2020), the detected result for Aroclor 1260 in sample ATM-CC-24 is qualified as estimated (J) due to exceeded dual column precision. Note that the laboratory reported the result as estimated (J) due to the exceeded RPD criterion.

14. **Performance Evaluation Samples**

    Performance Evaluation (PE) samples were not included in this SDG.

15. **Reporting Limits**

    RLs for non-detect PCB results met the site Project Action Level (PAL) of 1 mg/kg in all samples.

16. **Other**

    EPA Region I Supplement (2020) criterion for percent solids content for soil samples (> 30%) was met for the concrete samples of this SDG.

    Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620141901 PCBs

Analyte	Original Result (mg/kg)	Qual	Duplicate Result (mg/kg)	Qual	RPD ≤ 50%	Abs Diff	Comment[1]
Sample ID	**ATM-CC-28**		**FD-02-092723**				
	620-14190-8		**620-14190-11**				
Aroclor 1016	0.474	U	0.453	U	-4.53		Ok - both ND
Aroclor 1221	0.474	U	0.453	U	-4.53		Ok - both ND
Aroclor 1232	0.474	U	0.453	U	-4.53		Ok - both ND
Aroclor 1242	0.474	U	0.453	U	-4.53		Ok - both ND
Aroclor 1248	0.474	U	0.453	U	-4.53		Ok - both ND
Aroclor 1254	14.1		11.2		-22.92		Ok - RPD < 50%
Aroclor 1260	14.8		12.8		-14.49		Ok - RPD < 50%
Aroclor 1262	0.474	U	0.453	U	-4.53		Ok - both ND
Aroclor 1268	5.77		5.26		-9.25		Ok - RPD < 50%

1 - Actions apply to all samples based on the EPA Region I Supplemental Guidance (2020).

DF=10 DF=10

620-14190 Chain of Custody

585 Middlesex Street
Lowell, MA 01851

CHAIN-OF-CUSTODY RECORD

14190

Office: (978) 683-0891

Project No.	Project Name:	Project Manager:	Sampler Signatures:	
50000 1.002/400	American Tissue Mill	D Mcgrath		

	Sample ID	Date/Time Sampled	Matrix	No. of Jars	Analysis Required: PCBs 8082 (Soxhlet)	Remarks
-1	ATM-CC-21	9-27-23 1145	Other	1	X	
-2	ATM-CC-22	1500			X	
-3	ATM-CC-23	1505			X	
-4	ATM-CC-24	1520			X	⊗ MS/MSD
-5	ATM-CC-25	1525			X	
-6	ATM-CC-26	1530			X	
-7	ATM-CC-27	1540			X	
-8	ATM-CC-28	1605			X	
-9	ATM-CC-29	1545			X	
-10	ATM-CC-30	1555			X	
-11	FD-02-092723	900			X	
					~~X~~	
Preservative Type:		ICE				
Bottle Type:						

Send Results to: dmcgrath@nobis-group.com. Please also send equis EDD

NOTES: Please use MCP CAM methods.
Use 5 day TAT
Other = concrete

Relinquished By	Day/Time	Received By	Day/Time	Results Needed By:
	9-28-23/1030		9/28/23 1039	
	9-28-23/1436		9/28/23 1436	
				Sheet of

1.4 +0.2 1.6

10/5/2023

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 10/5/2023 2:44:39 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-14190-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

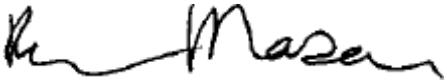
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-14190-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-14190-1 through 620-14190-11

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** Project Manager II

Printed Name: Becky Mason **Date:** 10/05/2023

Job ID: 620-14190-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-14190-1

Receipt
The samples were received on 9/28/2023 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC Semi VOA
Method 8082: Surrogate recovery was outside control limits for the following sample: ATM-CC-23 (620-14190-3), ATM-CC-28 (620-14190-8) and FD-02-092723 (620-14190-11). The DCB Decachlorobiphenyl (Surr) for the 1242/1268 aroclor CCV was outside acceptance criteria due to pattern interference from aroclor 1268.

Method 8082: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27460/31). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082: Surrogate recovery was outside control limits for the following sample: (CCV 620-27460/32). The DCB Decachlorobiphenyl (Surr) for the 1242/1268 aroclor CCV was outside acceptance criteria due to pattern interference from aroclor 1268. The 1242/1268 aroclor target peaks were within acceptance criteria. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-27345 and 620-27345 and analytical batch 620-27460 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-27376 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-21 — Lab Sample ID: 620-14190-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.377		0.0541	0.0421	mg/Kg	1	☼	8082	Total/NA
PCB-1260	1.41		0.0541	0.0116	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.814		0.0541	0.0115	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-22 — Lab Sample ID: 620-14190-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.234		0.0540	0.0116	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.196		0.0540	0.0115	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-23 — Lab Sample ID: 620-14190-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.350		0.212	0.165	mg/Kg	5	☼	8082	Total/NA
PCB-1260	4.34		0.212	0.0456	mg/Kg	5	☼	8082	Total/NA
PCB-1268	3.23		0.212	0.0451	mg/Kg	5	☼	8082	Total/NA

Client Sample ID: ATM-CC-24 — Lab Sample ID: 620-14190-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0757		0.0470	0.0365	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.188	p F1 F2	0.0470	0.0101	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.223		0.0470	0.0100	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-25 — Lab Sample ID: 620-14190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.192		0.0543	0.0422	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.606		0.0543	0.0117	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.362		0.0543	0.0116	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-26 — Lab Sample ID: 620-14190-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.818		0.0588	0.0457	mg/Kg	1	☼	8082	Total/NA
PCB-1260	1.65		0.0588	0.0126	mg/Kg	1	☼	8082	Total/NA
PCB-1268	1.17		0.0588	0.0125	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-27 — Lab Sample ID: 620-14190-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.185		0.0533	0.0415	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.142		0.0533	0.0115	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.0585		0.0533	0.0114	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-28 — Lab Sample ID: 620-14190-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	14.1		0.474	0.368	mg/Kg	10	☼	8082	Total/NA
PCB-1260	14.8		0.474	0.102	mg/Kg	10	☼	8082	Total/NA
PCB-1268	5.77		0.474	0.101	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-29 — Lab Sample ID: 620-14190-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0574		0.0516	0.0401	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.171		0.0516	0.0111	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.133		0.0516	0.0110	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-30 — Lab Sample ID: 620-14190-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.479		0.0567	0.0441	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.850		0.0567	0.0122	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.487		0.0567	0.0121	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: FD-02-092723 — Lab Sample ID: 620-14190-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.2		0.453	0.352	mg/Kg	10	☼	8082	Total/NA
PCB-1260	12.8		0.453	0.0973	mg/Kg	10	☼	8082	Total/NA
PCB-1268	5.26		0.453	0.0964	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ATM-CC-21 — Lab Sample ID: 620-14190-1

Date Collected: 09/27/23 14:45 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 98.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0541	0.0390	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1221	ND		0.0541	0.0160	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1232	ND		0.0541	0.0150	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1242	ND		0.0541	0.00854	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1248	ND		0.0541	0.0169	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1254	**0.377**		0.0541	0.0421	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1262	ND		0.0541	0.0126	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1260	**1.41**		0.0541	0.0116	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1268	**0.814**		0.0541	0.0115	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*37*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*
Tetrachloro-m-xylene	*38*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.3**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**98.7**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-22

Date Collected: 09/27/23 15:00
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-2

Matrix: Solid
Percent Solids: 97.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0540	0.0389	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1221	ND		0.0540	0.0159	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1232	ND		0.0540	0.0149	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1242	ND		0.0540	0.00853	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1248	ND		0.0540	0.0169	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1254	ND		0.0540	0.0420	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1262	ND		0.0540	0.0126	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1260	**0.234**		0.0540	0.0116	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1268	**0.196**		0.0540	0.0115	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.1**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**97.9**		0.1	0.1	%			10/02/23 10:38	1

Client Sample ID: ATM-CC-23 — Lab Sample ID: 620-14190-3

Date Collected: 09/27/23 15:05 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 99.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.212	0.153	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1221	ND		0.212	0.0626	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1232	ND		0.212	0.0587	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1242	ND		0.212	0.0335	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1248	ND		0.212	0.0662	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1254	**0.350**		0.212	0.165	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1262	ND		0.212	0.0494	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1260	**4.34**		0.212	0.0456	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1268	**3.23**		0.212	0.0451	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*
DCB Decachlorobiphenyl (Surr)	*267*	*S1+*	*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*
DCB Decachlorobiphenyl (Surr)	*221*	*S1+*	*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.0**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-24
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-4
Matrix: Solid
Percent Solids: 99.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.0470	0.0338	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1221	ND		0.0470	0.0139	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1232	ND		0.0470	0.0130	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1242	ND		0.0470	0.00742	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1248	ND		0.0470	0.0147	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1254	**0.0757**		0.0470	0.0365	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1262	ND		0.0470	0.0109	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1260	**0.188**	**p F1 F2**	0.0470	0.0101	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1268	**0.223**		0.0470	0.0100	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.7**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.3**		0.1	0.1	%			10/02/23 10:38	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-25

Date Collected: 09/27/23 15:25
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-5

Matrix: Solid
Percent Solids: 97.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0543	0.0391	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1221	ND		0.0543	0.0160	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1232	ND		0.0543	0.0150	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1242	ND		0.0543	0.00858	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1248	ND		0.0543	0.0170	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1254	**0.192**		0.0543	0.0422	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1262	ND		0.0543	0.0126	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1260	**0.606**		0.0543	0.0117	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1268	**0.362**		0.0543	0.0116	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.5**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**97.5**		0.1	0.1	%			10/02/23 10:38	1

Client Sample ID: ATM-CC-26 Lab Sample ID: 620-14190-6

Date Collected: 09/27/23 15:30 **Matrix: Solid**
Date Received: 09/28/23 14:36 **Percent Solids: 98.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0588	0.0423	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1221	ND		0.0588	0.0174	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1232	ND		0.0588	0.0163	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1242	ND		0.0588	0.00928	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1248	ND		0.0588	0.0184	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1254	**0.818**		0.0588	0.0457	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1262	ND		0.0588	0.0137	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1260	**1.65**		0.0588	0.0126	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1268	**1.17**		0.0588	0.0125	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.6**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**98.4**		0.1	0.1	%			10/02/23 10:38	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-27 Lab Sample ID: 620-14190-7

Date Collected: 09/27/23 15:40 **Matrix: Solid**
Date Received: 09/28/23 14:36 **Percent Solids: 96.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0533	0.0384	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1221	ND		0.0533	0.0158	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1232	ND		0.0533	0.0148	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1242	ND		0.0533	0.00842	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1248	ND		0.0533	0.0167	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1254	**0.185**		0.0533	0.0415	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1262	ND		0.0533	0.0124	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1260	**0.142**		0.0533	0.0115	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1268	**0.0585**		0.0533	0.0114	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.7**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**96.3**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-28

Date Collected: 09/27/23 16:05
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-8

Matrix: Solid
Percent Solids: 99.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.474	0.341	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1221	ND		0.474	0.140	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1232	ND		0.474	0.131	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1242	ND		0.474	0.0748	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1248	ND		0.474	0.148	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1254	**14.1**		0.474	0.368	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1262	ND		0.474	0.110	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1260	**14.8**		0.474	0.102	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1268	**5.77**		0.474	0.101	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*
Tetrachloro-m-xylene	*94*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*
DCB Decachlorobiphenyl (Surr)	*483*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*
DCB Decachlorobiphenyl (Surr)	*384*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.6**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.4**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-29

Date Collected: 09/27/23 15:45
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-9

Matrix: Solid
Percent Solids: 98.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0516	0.0372	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1221	ND		0.0516	0.0152	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1232	ND		0.0516	0.0143	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1242	ND		0.0516	0.00815	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1248	ND		0.0516	0.0161	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1254	**0.0574**		0.0516	0.0401	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1262	ND		0.0516	0.0120	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1260	**0.171**		0.0516	0.0111	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1268	**0.133**		0.0516	0.0110	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.3**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**98.7**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-30

Date Collected: 09/27/23 15:55
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-10

Matrix: Solid
Percent Solids: 97.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0567	0.0409	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1221	ND		0.0567	0.0168	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1232	ND		0.0567	0.0157	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1242	ND		0.0567	0.00896	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1248	ND		0.0567	0.0177	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1254	**0.479**		0.0567	0.0441	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1262	ND		0.0567	0.0132	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1260	**0.850**		0.0567	0.0122	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1268	**0.487**		0.0567	0.0121	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.1**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**97.9**		0.1	0.1	%			10/02/23 10:38	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: FD-02-092723 Lab Sample ID: 620-14190-11

Date Collected: 09/27/23 09:00 **Matrix: Solid**
Date Received: 09/28/23 14:36 **Percent Solids: 99.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.453	0.326	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1221	ND		0.453	0.134	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1232	ND		0.453	0.125	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1242	ND		0.453	0.0715	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1248	ND		0.453	0.141	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1254	**11.2**		0.453	0.352	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1262	ND		0.453	0.105	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1260	**12.8**		0.453	0.0973	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1268	**5.26**		0.453	0.0964	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*
Tetrachloro-m-xylene	*98*		*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*
DCB Decachlorobiphenyl (Surr)	*334*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*
DCB Decachlorobiphenyl (Surr)	*463*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.3**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.7**		0.1	0.1	%			10/02/23 10:38	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14190-1	ATM-CC-21	37	38	48	58
620-14190-2	ATM-CC-22	79	78	77	75
620-14190-3	ATM-CC-23	72	72	267 S1+	221 S1+
620-14190-4	ATM-CC-24	43	41	82	79
620-14190-4 MS	ATM-CC-24	79	78	85	78
620-14190-4 MSD	ATM-CC-24	41	41	48	40
620-14190-5	ATM-CC-25	77	73	83	71
620-14190-6	ATM-CC-26	82	80	110	100
620-14190-7	ATM-CC-27	72	69	72	59
620-14190-8	ATM-CC-28	92	94	483 S1+	384 S1+
620-14190-9	ATM-CC-29	76	73	75	62
620-14190-10	ATM-CC-30	62	62	76	64
620-14190-11	FD-02-092723	96	98	334 S1+	463 S1+
LCS 620-27346/2-A	Lab Control Sample	81	80	64	64
LCSD 620-27346/3-A	Lab Control Sample Dup	75	76	66	67
MB 620-27346/1-A	Method Blank	76	73	68	68

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: 620-14190-4 MS
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-24
Prep Type: Total/NA
Prep Batch: 27345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND	F2	0.390	0.3123		mg/Kg	☼	80	40 - 140
PCB-1260	0.188	p F1 F2	0.390	0.5763		mg/Kg	☼	100	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*30 - 150*
Tetrachloro-m-xylene	*78*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*

Lab Sample ID: 620-14190-4 MSD
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-24
Prep Type: Total/NA
Prep Batch: 27345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND	F2	0.398	0.1777	F2	mg/Kg	☼	45	40 - 140	55	30
PCB-1260	0.188	p F1 F2	0.398	0.3428	F1 F2	mg/Kg	☼	39	40 - 140	51	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*41*		*30 - 150*
Tetrachloro-m-xylene	*41*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*40*		*30 - 150*

Lab Sample ID: MB 620-27346/1-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:40	10/04/23 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCS 620-27346/2-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1448		mg/Kg		87	40 - 140		
PCB-1016			0.167	0.1359		mg/Kg		82	40 - 140		
PCB-1260			0.167	0.1678		mg/Kg		101	40 - 140		
PCB-1260			0.167	0.1456		mg/Kg		87	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*80*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*

Lab Sample ID: LCSD 620-27346/3-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1440		mg/Kg		86	40 - 140	1	30
PCB-1016			0.167	0.1355		mg/Kg		81	40 - 140	0	30
PCB-1260			0.167	0.1669		mg/Kg		100	40 - 140	1	30
PCB-1260			0.167	0.1462		mg/Kg		88	40 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*30 - 150*
Tetrachloro-m-xylene	*76*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 620-14190-2 DU
Matrix: Solid
Analysis Batch: 27376

Client Sample ID: ATM-CC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.1			1.8	F3	%				12	5
Percent Solids	97.9			98.2		%				0.2	5

Lab Sample ID: 620-14190-11 DU
Matrix: Solid
Analysis Batch: 27376

Client Sample ID: FD-02-092723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	0.3			0.7	F3	%				82	5
Percent Solids	99.7			99.3		%				0.4	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

GC Semi VOA

Prep Batch: 27345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-1	ATM-CC-21	Total/NA	Solid	3540C	
620-14190-2	ATM-CC-22	Total/NA	Solid	3540C	
620-14190-3	ATM-CC-23	Total/NA	Solid	3540C	
620-14190-4	ATM-CC-24	Total/NA	Solid	3540C	
620-14190-5	ATM-CC-25	Total/NA	Solid	3540C	
620-14190-4 MS	ATM-CC-24	Total/NA	Solid	3540C	
620-14190-4 MSD	ATM-CC-24	Total/NA	Solid	3540C	

Prep Batch: 27346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-6	ATM-CC-26	Total/NA	Solid	3540C	
620-14190-7	ATM-CC-27	Total/NA	Solid	3540C	
620-14190-8	ATM-CC-28	Total/NA	Solid	3540C	
620-14190-9	ATM-CC-29	Total/NA	Solid	3540C	
620-14190-10	ATM-CC-30	Total/NA	Solid	3540C	
620-14190-11	FD-02-092723	Total/NA	Solid	3540C	
MB 620-27346/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 27460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-1	ATM-CC-21	Total/NA	Solid	8082	27345
620-14190-2	ATM-CC-22	Total/NA	Solid	8082	27345
620-14190-3	ATM-CC-23	Total/NA	Solid	8082	27345
620-14190-4	ATM-CC-24	Total/NA	Solid	8082	27345
620-14190-5	ATM-CC-25	Total/NA	Solid	8082	27345
620-14190-6	ATM-CC-26	Total/NA	Solid	8082	27346
620-14190-7	ATM-CC-27	Total/NA	Solid	8082	27346
620-14190-8	ATM-CC-28	Total/NA	Solid	8082	27346
620-14190-9	ATM-CC-29	Total/NA	Solid	8082	27346
620-14190-10	ATM-CC-30	Total/NA	Solid	8082	27346
620-14190-11	FD-02-092723	Total/NA	Solid	8082	27346
MB 620-27346/1-A	Method Blank	Total/NA	Solid	8082	27346
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	8082	27346
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27346
620-14190-4 MS	ATM-CC-24	Total/NA	Solid	8082	27345
620-14190-4 MSD	ATM-CC-24	Total/NA	Solid	8082	27345

General Chemistry

Analysis Batch: 27376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-1	ATM-CC-21	Total/NA	Solid	Moisture	
620-14190-2	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-3	ATM-CC-23	Total/NA	Solid	Moisture	
620-14190-4	ATM-CC-24	Total/NA	Solid	Moisture	
620-14190-5	ATM-CC-25	Total/NA	Solid	Moisture	
620-14190-6	ATM-CC-26	Total/NA	Solid	Moisture	
620-14190-7	ATM-CC-27	Total/NA	Solid	Moisture	
620-14190-8	ATM-CC-28	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 27376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-9	ATM-CC-29	Total/NA	Solid	Moisture	
620-14190-10	ATM-CC-30	Total/NA	Solid	Moisture	
620-14190-11	FD-02-092723	Total/NA	Solid	Moisture	
620-14190-2 MS	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-2 MSD	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-4 MS	ATM-CC-24	Total/NA	Solid	Moisture	
620-14190-4 MSD	ATM-CC-24	Total/NA	Solid	Moisture	
620-14190-2 DU	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-11 DU	FD-02-092723	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-21
Date Collected: 09/27/23 14:45
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-21
Date Collected: 09/27/23 14:45
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-1
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 20:36

Client Sample ID: ATM-CC-22
Date Collected: 09/27/23 15:00
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-22
Date Collected: 09/27/23 15:00
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-2
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 20:54

Client Sample ID: ATM-CC-23
Date Collected: 09/27/23 15:05
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-23
Date Collected: 09/27/23 15:05
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-3
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		5	27460	SFL	EET NE	10/04/23 21:12

Client Sample ID: ATM-CC-24
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-24
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-4
Matrix: Solid
Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 21:29

Client Sample ID: ATM-CC-25
Date Collected: 09/27/23 15:25
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-25
Date Collected: 09/27/23 15:25
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-5
Matrix: Solid
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:38
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 22:23

Client Sample ID: ATM-CC-26
Date Collected: 09/27/23 15:30
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-26
Date Collected: 09/27/23 15:30
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-6
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 22:40

Client Sample ID: ATM-CC-27
Date Collected: 09/27/23 15:40
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-27
Lab Sample ID: 620-14190-7
Date Collected: 09/27/23 15:40
Matrix: Solid
Date Received: 09/28/23 14:36
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 22:58

Client Sample ID: ATM-CC-28
Lab Sample ID: 620-14190-8
Date Collected: 09/27/23 16:05
Matrix: Solid
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-28
Lab Sample ID: 620-14190-8
Date Collected: 09/27/23 16:05
Matrix: Solid
Date Received: 09/28/23 14:36
Percent Solids: 99.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 23:16

Client Sample ID: ATM-CC-29
Lab Sample ID: 620-14190-9
Date Collected: 09/27/23 15:45
Matrix: Solid
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-29
Lab Sample ID: 620-14190-9
Date Collected: 09/27/23 15:45
Matrix: Solid
Date Received: 09/28/23 14:36
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 23:33

Client Sample ID: ATM-CC-30
Lab Sample ID: 620-14190-10
Date Collected: 09/27/23 15:55
Matrix: Solid
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-30 — Lab Sample ID: 620-14190-10

Date Collected: 09/27/23 15:55 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 23:51

Client Sample ID: FD-02-092723 — Lab Sample ID: 620-14190-11

Date Collected: 09/27/23 09:00 — **Matrix: Solid**
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: FD-02-092723 — Lab Sample ID: 620-14190-11

Date Collected: 09/27/23 09:00 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 99.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/05/23 00:08

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
Moisture	Percent Moisture	EPA	EET NE
3540C	Soxhlet Extraction	SW846	EET NE

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-14190-1	ATM-CC-21	Solid	09/27/23 14:45	09/28/23 14:36
620-14190-2	ATM-CC-22	Solid	09/27/23 15:00	09/28/23 14:36
620-14190-3	ATM-CC-23	Solid	09/27/23 15:05	09/28/23 14:36
620-14190-4	ATM-CC-24	Solid	09/27/23 15:20	09/28/23 14:36
620-14190-5	ATM-CC-25	Solid	09/27/23 15:25	09/28/23 14:36
620-14190-6	ATM-CC-26	Solid	09/27/23 15:30	09/28/23 14:36
620-14190-7	ATM-CC-27	Solid	09/27/23 15:40	09/28/23 14:36
620-14190-8	ATM-CC-28	Solid	09/27/23 16:05	09/28/23 14:36
620-14190-9	ATM-CC-29	Solid	09/27/23 15:45	09/28/23 14:36
620-14190-10	ATM-CC-30	Solid	09/27/23 15:55	09/28/23 14:36
620-14190-11	FD-02-092723	Solid	09/27/23 09:00	09/28/23 14:36

620-14190 Chain of Custody

585 Middlesex Street
Lowell, MA 01851

CHAIN-OF-CUSTODY RECORD

14190

Office: (978) 683-0891

Project No.	Project Name:	Project Manager:	Sampler Signatures:	
50000 1.002/400	American Tissue Mill	D Mcgrath		

	Sample ID	Date/Time Sampled	Matrix	No. of Jars	Analysis Required: PCBs 8082 (Soxhlet)	Remarks
-1	ATM-CC-21	9-27-23 1145	Other	1	X	
-2	ATM-CC-22	1500			X	
-3	ATM-CC-23	1505			X	
-4	ATM-CC-24	1520			X	⊗ MS/MSD
-5	ATM-CC-25	1525			X	
-6	ATM-CC-26	1530			X	
-7	ATM-CC-27	1540			X	
-8	ATM-CC-28	1605			X	
-9	ATM-CC-29	1545			X	
-10	ATM-CC-30	1555			X	
-11	FD-02-092723	900			X	
					~~X~~	
Preservative Type:		ICE				
Bottle Type:						

Send Results to: dmcgrath@nobis-group.com. Please also send equis EDD

NOTES: Please use MCP CAM methods.
Use 5 day TAT
Other = concrete

Relinquished By	Day/Time	Received By	Day/Time	Results Needed By:
	9-28-23/1030		9/28/23 1039	
	9-28-23/1436		9/28/23 1436	
				Sheet of

1.4 +0.2 1.6

10/5/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-14190-1

Login Number: 14190
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

August 16, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620105731
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review:

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D and 8270D-SIM), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6020B/7470A), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS by Method 537 [mod.])

5/Groundwater Samples: 2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330
1/Field Duplicate Pair: 2023-MW-03-20230330 / 2023-FD-01-20230330
1/Aqueous Trip Blank: 2023-TB-01-20230330

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 30, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D and 8270D-SIM, Polychlorinated Biphenyls by EPA Method 8082, and VPHs by MassDEP-VPH by Eurofins New England in North Kingstown, RI. The samples were analyzed for MCP-14 Metals by EPA Methods 6020B/7470A and PFAS by Method 537 (mod.) by Eurofins Lancaster in Lancaster, PA. Note that Eurofins Lancaster reported results for the PFAS analyses in SDG 620105732. Therefore, the PFAS data are not included in this data review.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

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Lowell, MA 01851
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The data were evaluated based on the following parameters:

*	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Preservation and Technical Holding Times
	•	Blanks
*	•	Surrogates (organic analyses only)
NA	•	Internal Standards
	•	Matrix Spike Analysis
*	•	Laboratory Duplicates
	•	Laboratory Control Samples (LCS)
	•	Field Duplicates
NA	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
NA	•	Target Analyte Identification
	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Non-detect reporting limits (RLs) for hexachlorobenzene exceeded the project action limit (PAL) of 1 ug/L in all groundwater samples. Sample RLs were 5 ug/L. Project objectives may not be met.

Results for benzidine and pyridine were rejected (R) due to low LCS/LCSD recoveries. The data are not usable for meeting project objectives.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for LCS and MS/MSD exceedances.

SVOCs:
Results for benzidine and pyridine were rejected due to low LCS/LCSD recoveries. Results were qualified for LCS/LCSD exceedances, MS/MSD exceedances, method blank contamination, and field duplicate imprecision.

PCBs:
Qualification of the data was not required.

MassDEP-VPH:
Results were qualified for MS/MSD recoveries.

MCP-14 Metals and Mercury:
Qualification of the data was not required.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Gary Glennon
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
Antimony	ug/L	1 U	1 U	1 U	1 U	1 U
Arsenic	ug/L	0.989 J	2 U	2 U	2 U	1.11 J
Barium	ug/L	17.6	26	8.3	34	18.5
Beryllium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chromium	ug/L	2 U	2 U	0.991 J	1.72 J	2 U
Lead	ug/L	0.5 U	0.146 J	0.257 J	0.331 J	0.082 J
Mercury	ug/L	0.2 U	0.2 U	0.0824 J	0.2 U	0.2 U
Nickel	ug/L	2.27	1 U	1 U	1.24	2.75
Selenium	ug/L	1 U	1 U	1 U	1 U	1 U
Silver	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Thallium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	ug/L	4 U	4 U	4 U	1.47 J	4 U
Zinc	ug/L	18.4	41.5	10 U	22	23

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
Aroclor 1016	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1221	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1232	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1242	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1248	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1254	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1260	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1262	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U
Aroclor 1268	ug/L	0.417 U	0.4 U	0.4 U	0.455 U	0.435 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
1,2,4,5-Tetrachlorobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
2,2'-Oxybis(1-chloropropane)	ug/L	5.43 U	5 U	5 U	5 U	5 U
2,4,5-Trichlorophenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	ug/L	10.9 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	5.43 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	ug/L	5.43 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	ug/L	5.43 U	5 U	5 U	5 U	5 U
2-Chlorophenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
2-Methylnaphthalene	ug/L	0.0543 U	0.05 U	0.05 U	0.05 U	0.146 J
2-Methylphenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
2-Nitroaniline	ug/L	5.43 U	5 U	5 U	5 U	5 U
2-Nitrophenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
3 & 4 Methylphenol	ug/L	10.9 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	5.43 U	5 U	5 U	5 U	5 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
3-Nitroaniline	ug/L	5.43 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-methylphenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
4-Bromophenyl-phenylether	ug/L	5.43 U	5 U	5 U	5 U	5 U
4-Chloro-3-methylphenol	ug/L	5.43 U	5 U	5 U	5 U	5 U
4-Chloroaniline	ug/L	5.43 U	5 UJ	5 UJ	5 UJ	5 UJ
4-Chlorophenyl-phenylether	ug/L	5.43 U	5 U	5 U	5 U	5 U
4-Nitroaniline	ug/L	5.43 U	5 U	5 U	5 U	5 U
4-Nitrophenol	ug/L	21.7 U	20 U	20 U	20 U	20 U
Acenaphthene	ug/L	0.086 J	0.05 U	0.05 U	0.05 U	0.05 U
Acenaphthylene	ug/L	0.0746 J	0.05 U	0.05 U	0.05 U	0.05 U
Acetophenone	ug/L	5.43 U	5 U	5 U	5 U	5 U
Aniline	ug/L	5.43 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Anthracene	ug/L	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U
Azobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
Benzidine	ug/L	R	R	R	R	R
Benzo(a)anthracene	ug/L	0.0543 U	0.05 U	0.05 U	0.044 J	0.0454 J
Benzo(a)pyrene	ug/L	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(b)fluoranthene	ug/L	0.0543 U	0.05 U	0.05 U	0.0412 J	0.0407 J
Benzo(g,h,i)perylene	ug/L	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzo(k)fluoranthene	ug/L	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U
Benzoic Acid	ug/L	8.82 J	10 U	10 U	10 U	10 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
Benzyl Alcohol	ug/L	5.43 U	5 U	5 U	5 U	5 U
Bis(2-chloroethoxy)methane	ug/L	5.43 U	5 U	5 U	5 U	5 U
Bis(2-chloroethyl)ether	ug/L	5.43 U	5 U	5 U	5 U	5 U
Bis(2-ethylhexyl)phthalate	ug/L	10.9 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	ug/L	5.43 U	5 U	5 U	5 U	5 U
Carbazole	ug/L	5.43 U	5 U	5 U	5 U	5 U
Chrysene	ug/L	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U
Dibenz(a,h)anthracene	ug/L	0.0543 U	0.05 UJ	0.05 UJ	0.0342 J	0.05 UJ
Dibenzofuran	ug/L	5.43 U	5 U	5 U	5 U	5 U
Diethylphthalate	ug/L	5.43 U	5 U	5 U	5 U	5 U
Dimethylphthalate	ug/L	5.43 U	5 U	5 U	5 U	5 U
Di-N-Butylphthalate	ug/L	5.43 U	5 U	5 U	5 U	5 U
Di-N-Octyl Phthalate	ug/L	5.43 U	5 U	5 U	5 U	5 U
Fluoranthene	ug/L	0.0543 U	0.05 U	0.05 U	0.05 U	0.0452 J
Fluorene	ug/L	0.081	0.05 U	0.05 U	0.05 U	0.05 U
Hexachlorobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
Hexachlorobutadiene	ug/L	5.43 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene	ug/L	5.43 U	5 UJ	5 UJ	5 UJ	5 UJ
Hexachloroethane	ug/L	5.43 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	ug/L	0.087 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Isophorone	ug/L	5.43 U	5 U	5 U	5 U	5 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
Naphthalene	ug/L	0.0543 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.425 J
Naphthalene, 1-methyl-	ug/L	0.0543 U	0.05 U	0.05 U	0.05 U	0.05 U
Nitrobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
N-Nitrosodimethylamine (NDMA)	ug/L	5.43 UJ	5 UJ	5 UJ	5 UJ	5 UJ
N-Nitroso-di-n-propylamine (NDPA)	ug/L	5.43 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine	ug/L	5.43 U	5 U	5 U	5 U	5 U
Pentachloronitrobenzene	ug/L	5.43 U	5 U	5 U	5 U	5 U
Pentachlorophenol	ug/L	10.9 U	10 U	10 U	10 U	10 U
Phenanthrene	ug/L	0.217 U	0.05 U	0.05 U	0.05 U	0.0351 J
Phenol	ug/L	5.43 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Pyrene	ug/L	0.217 U	0.05 U	0.05 U	0.05 U	0.05 U
Pyridine	ug/L	R	R	R	R	R

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
1,1,1,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	ug/L	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
1,3,5-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	ug/L	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
2,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	2 U	2 U	2 U	2 U	2 U
2-Chlorotoluene	ug/L	1 U	1 U	1 U	1 U	1 U
2-Hexanone	ug/L	2 U	2 U	2 U	2 U	2 U
4-Chlorotoluene	ug/L	1 U	1 U	1 U	1 U	1 U
4-Isopropyltoluene	ug/L	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	ug/L	2 U	2 U	2 U	2 U	2 U
Acetone	ug/L	10 U	10 U	10 U	1.61 J	10 U
Acrylonitrile	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	2 U	2 U	2 U	2 U	2 U
Carbon disulfide	ug/L	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	ug/L	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
Chloroethane	ug/L	2 U	2 U	2 U	2 U	2 U
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	ug/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Diethyl ether	ug/L	1 U	1 U	1 U	1 U	1 U
Diisopropyl Ether	ug/L	1 U	1 U	1 U	1 U	1 U
Ethanol	ug/L	200 UJ	200 UJ	200 UJ	69.5 J	200 UJ
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/L	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	ug/L	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	ug/L	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	2 U	2 U	2 U	2 U	2 U
Naphthalene	ug/L	2 U	2 U	2 U	2 U	2 U
n-Butylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
o-Xylene	ug/L	1 U	1 U	1 U	1 U	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
sec-Butylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	1 U	1 U	1 U	1 U	1 U
tert-Amyl methyl ether	ug/L	1 U	1 U	1 U	1 U	1 U
tert-Butyl Alcohol	ug/L	10 U	10 U	10 U	10 U	10 U
Tert-Butyl Ethyl Ether	ug/L	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Toluene	ug/L	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichlorobutene	ug/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/L	1 U	1 U	1 U	1 U	1 U
Xylene (total)	ug/L	3 U	3 U	3 U	3 U	3 U

DATA SUMMARY TABLE

Analysis		VPH in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
Benzene	ug/L	5 U	5 U	5 U	5 U	5 U
C5-C8 Aliphatics (adjusted)	ug/L	100 U	100 U	100 U	100 U	100 U
C5-C8 Aliphatics (unadjusted)	ug/L	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ
C9-C10 Aromatics	ug/L	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ
C9-C12 Aliphatics (adjusted)	ug/L	100 U	100 U	100 U	100 U	100 U
C9-C12 Aliphatics (unadjusted)	ug/L	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U
m,p-Xylene	ug/L	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	ug/L	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	5 U	5 U	5 U	5 U	5 U
o-Xylene	ug/L	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	15 U	15 U	15 U	15 U	15 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10573-6
Field Sample ID		2023-TB-01-20230330
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/30/23
1,1,1,2-Tetrachloroethane	ug/L	1 U
1,1,1-Trichloroethane	ug/L	1 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1 U
1,1,2-Trichloroethane	ug/L	1 U
1,1-Dichloroethane	ug/L	1 U
1,1-Dichloroethene	ug/L	1 U
1,1-Dichloropropene	ug/L	1 U
1,2,3-Trichlorobenzene	ug/L	1 U
1,2,3-Trichloropropane	ug/L	1 U
1,2,4-Trichlorobenzene	ug/L	1 U
1,2,4-Trimethylbenzene	ug/L	1 U
1,2-Dibromo-3-chloropropane	ug/L	2 U
1,2-Dibromoethane	ug/L	0.5 U
1,2-Dichlorobenzene	ug/L	1 U
1,2-Dichloroethane	ug/L	1 U
1,2-Dichloropropane	ug/L	1 U
1,3,5-Trichlorobenzene	ug/L	1 U
1,3,5-Trimethylbenzene	ug/L	1 U
1,3-Dichlorobenzene	ug/L	1 U
1,3-Dichloropropane	ug/L	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10573-6
Field Sample ID		2023-TB-01-20230330
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/30/23
1,3-Dichloropropene	ug/L	0.5 U
1,4-Dichlorobenzene	ug/L	1 U
1,4-Dioxane	ug/L	50 U
2,2-Dichloropropane	ug/L	1 U
2-Butanone	ug/L	2 U
2-Chlorotoluene	ug/L	1 U
2-Hexanone	ug/L	2 U
4-Chlorotoluene	ug/L	1 U
4-Isopropyltoluene	ug/L	1 U
4-Methyl-2-pentanone	ug/L	2 U
Acetone	ug/L	10 U
Acrylonitrile	ug/L	0.5 U
Benzene	ug/L	1 U
Bromobenzene	ug/L	1 U
Bromochloromethane	ug/L	1 U
Bromodichloromethane	ug/L	0.5 U
Bromoform	ug/L	1 U
Bromomethane	ug/L	2 U
Carbon disulfide	ug/L	2 U
Carbon tetrachloride	ug/L	1 U
Chlorobenzene	ug/L	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10573-6
Field Sample ID		2023-TB-01-20230330
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/30/23
Chloroethane	ug/L	2 U
Chloroform	ug/L	1 U
Chloromethane	ug/L	2 U
cis-1,2-Dichloroethene	ug/L	1 U
cis-1,3-Dichloropropene	ug/L	0.5 U
Dibromochloromethane	ug/L	0.5 U
Dibromomethane	ug/L	1 U
Dichlorodifluoromethane	ug/L	2 U
Diethyl ether	ug/L	1 U
Diisopropyl Ether	ug/L	1 U
Ethanol	ug/L	200 UJ
Ethylbenzene	ug/L	1 U
Hexachlorobutadiene	ug/L	1 U
Isopropylbenzene	ug/L	1 U
m,p-Xylene	ug/L	1 U
Methyl tert-butyl ether	ug/L	1 U
Methylene chloride	ug/L	2 U
Naphthalene	ug/L	2 U
n-Butylbenzene	ug/L	1 U
n-Propylbenzene	ug/L	1 U
o-Xylene	ug/L	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10573-6
Field Sample ID		2023-TB-01-20230330
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/30/23
sec-Butylbenzene	ug/L	1 U
Styrene	ug/L	1 U
tert-Amyl methyl ether	ug/L	1 U
tert-Butyl Alcohol	ug/L	10 U
Tert-Butyl Ethyl Ether	ug/L	1 U
tert-Butylbenzene	ug/L	1 U
Tetrachloroethene	ug/L	1 U
Tetrahydrofuran	ug/L	2 U
Toluene	ug/L	1 U
trans-1,2-Dichloroethene	ug/L	1 U
trans-1,3-Dichloropropene	ug/L	0.5 U
trans-1,4-Dichlorobutene	ug/L	5 U
Trichloroethene	ug/L	1 U
Trichlorofluoromethane	ug/L	1 U
Vinyl chloride	ug/L	1 U
Xylene (total)	ug/L	3 U

DATA SUMMARY TABLE

Analysis		VPH in Water Quality Control Matrix
Lab Sample ID		620-10573-6
Field Sample ID		2023-TB-01-20230330
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/30/23
Benzene	ug/L	5 U
C5-C8 Aliphatics (adjusted)	ug/L	100 U
C5-C8 Aliphatics (unadjusted)	ug/L	100 U
C9-C10 Aromatics	ug/L	100 U
C9-C12 Aliphatics (adjusted)	ug/L	100 U
C9-C12 Aliphatics (unadjusted)	ug/L	100 U
Ethylbenzene	ug/L	5 U
m,p-Xylene	ug/L	10 U
Methyl tert-butyl ether	ug/L	5 U
Naphthalene	ug/L	5 U
o-Xylene	ug/L	5 U
Toluene	ug/L	5 U
Xylene (total)	ug/L	15 U

Data Review Qualification Actions
American Tissue Mill
SDG 620105731

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Ethanol	2023-TB-01-20230330	LCS recovery	UJ	
	1,4-Dioxane, diclorodifluoromethane, tetrahydrofuran	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	MS/MSD recoveries	UJ	
	Ethanol	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	MS recovery / RPD	J / UJ	
SVOCs					
	Benzidine, pyridine	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	LCS/LCSD recovery	R	No detected results.
	Aniline	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	LCS/LCSD recovery	UJ	
	Benzoic acid	2023-MW-03-20230330	LCS/LCSD RPD	J	
	N-nitrosodimethylamine, phenol	2023-MW-03-20230330	LCS/LCSD recovery	UJ	
	Dibenz(a,h)anthracene	2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	LCS recovery / RPD	J- / UJ	Final qual is J, indeterminate bias, in sample 2023-MW-05-20230330 since result is < RL and RPD exceeded criteria.
	Indeno(1,2,3-cd)pyrene	2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	LCS recovery	UJ	

Data Review Qualification Actions
American Tissue Mill
SDG 620105731

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	Benzo(a)anthracene	2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	LCS/LCSD RPD	J / A	
	4-Chloroaniline, benzidine, hexachlorocyclopentadiene, N-nitrosodimethylamine, phenol, pyridine	2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	MS/MSD recoveries	UJ	Final quals for benzidine and pyridine are R due to LCS/LCSD recovery.
	2-Methylnaphthalene, acenaphthene, acenaphthylene	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	MS/MSD RPD	J / A	
	Naphthalene	2023-FD-01-20230330	Method blank	J+	Final qual is J, indeterminate bias, due to FD imprecision.
	Naphthalene	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	Field duplicate imprecision	J / UJ	
PCBs					
	Qualification of the data was not required.				
MassDEP-VPH					
	C9-C10 aromatics, C5-C8 aliphatics (unadjusted), C9-C12 aliphatics (unadjusted)	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	MS/MSD recoveries	UJ	No detected results.
MCP-14 Metals / Mercury					
	Qualification of the data was not required.				

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 07/05/2023
Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D) and (8270D-SIM)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6020B/7470A)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins New England Laboratory, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (PFAS)
SDG: 620105731
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Five (5) groundwater samples, including one field duplicate sample, were listed on the COC for SDG 620105731. One trip blank sample was also included on the COC. The samples were collected on 03/30/2023 and received at the Eurofins New England Laboratory on 03/31/2023 at 2.8 °C. Samples for MCP Metals and PFAS analyses were subsequently shipped to the Eurofins Lancaster Laboratory for analysis on 04/03/2023. Samples were received at Eurofins Lancaster Laboratory on 04/05/2023 at 2.0 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-03-20230330	620-10573-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-04-20230330	620-10573-2	
2023-MW-06-20230330	620-10573-3	
2023-MW-05-20230330	620-10573-4	
2023-FD-01-20230330	620-10573-5	
2023-TB-01-20230330	620-10573-6	VOCs, MassDEP-VPH

Results for the PFAS analyses performed at the Eurofins Lancaster Laboratory are reported in SDG 620105732; therefore, the PFAS data are not included in this data review.

Note that the date of sample collection was appended to the sample IDs for this SDG in order to differentiate sample IDs from other collections at this site.

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

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The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (aqueous) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for additional VOCs were also reported by the laboratory. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1'-biphenyl. Based on the QAPPA (February 2023), 1,1'-biphenyl is not a compound of concern for the site. Results for several additional SVOCs were also reported by the laboratory. No actions are required.

The following SVOCs were reported by selected ion monitoring (SIM) mode:

1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene
Acenaphthylene	Anthracene	Benzo(a)anthracene
Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene
Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene
Naphthalene	Phenanthrene	Pyrene

The remaining SVOCs were reported by full scan mode.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory.

MassDEP-VPH: Results for all VPH parameters on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, copper, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which do not include these analytes.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for mercury; within 180 days for all other analytes) were met.

3. **Calibration Issues**

Not assessed for S2AVM data review.

4. **Laboratory and Field Blanks**

VOCs: Hexachlorobutadiene was detected at < reporting limit (RL) in VOC laboratory method blank MB 620-21055/7 (0.2954 ug/L). Hexachlorobutadiene was not detected in the associated sample (2023-TB-01-20230330). No blank actions are required. Hexachlorobutadiene and n-butylbenzene were detected at < RL in method blank MB 620-21085/7 (0.3338 ug/L and 0.6185 ug/L, respectively). Results for these compounds were non-detect in associated samples 2023-MW-04-20230330 (620-10573-2) and 2023-FD-01-20230330 (620-10573-5). No blank actions are required.

Trip blank sample 2023-TB-01-20230330 (620-10573-6) is associated with the samples of this SDG. Results were non-detect for all VOCs. No actions are required.

SVOCs: Benzoic acid was detected at < RL in method blank MB 620-21036/1-A. This blank is associated with the full scan SVOC results for samples 2023-MW-04-20230330 (620-10573-2), 2023-MW-06-20230330 (620-10573-3), 2023-MW-05-20230330 (620-10573-4), and 2023-FD-01-20230330 (620-10573-5). Results for benzoic acid were non-detect in associated samples and no blank actions are required.

Naphthalene was detected at < RL in method blank MB 620-21080/1-A. This blank is associated with the SIM SVOC results for samples 620-10573-1 through 620-10573-5. Naphthalene results were non-detect in the associated samples except for sample 620-10573-5, where it was detected above the RL. Based on the NFGs (2020), the detected naphthalene result in sample 620-10573-5 is qualified as estimated with a potential high bias (J+) since it was detected above RL but < 10x blank level. Note that the final qualifier is J, indeterminate bias, due to field duplicate imprecision, as further discussed below.

PCBs: Results for the PCB laboratory method blank were non-detect. No blank actions are required.

MassDEP-VPH: Results for the VPH laboratory method blank and the trip blank (2023-TB-01-20230330) were non-detect. No blank actions are required.

MCP-14 Metals/Mercury: Results for the metals and mercury laboratory method blanks are non-detect. No blank actions are required.

5. **Interference Check Sample (metals only)**

Not assessed for S2AVM data review.

6. **Surrogates**

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 70-130%. No action is required.

SVOC: Percent surrogate recoveries for the samples (full scan and SIM mode) were within the Program QAPP limits of 30-130% for base/neutral SVOCs and 15-110% for acid SVOCs. No actions are required.

PCBs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 30-150% on both analytical columns, except for the recovery of decachlorobiphenyl (DCB) on the primary (DCB1) column for sample 2023-MW-04-20230330 (620-10573-2) (377%). Sample results for all PCB Aroclors were non-detect in the sample. Non-detect Aroclor results are accepted unqualified for surrogate recovery since the potential bias is high.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover.

All percent LCS/LCSD recoveries met the Program QAPP recovery limits of 70-130% (or 40 - 160% for difficult compounds) except for the recovery of ethanol (69%) in the LCS of LCS/LCSD pair 620-21055/4 and /5, and the recovery of dibromomethane (132%) in the LCSD of the LCS/LCSD pair 620-21085/4 and /5. These compounds are not considered potentially difficult to recover and therefore, the 70-130% limits apply. Professional judgement, based on the NFGs (2020) for the VOC MS/MSD analyses, was used to qualify the non-detect ethanol result in associated sample 2023-TB-01-20230330 (620-10573-6) as estimated (UJ) and accept the non-detect dibromomethane results in associated samples 2023-MW-04-20230330 (620-10573-2) and 2023-FD-01-20230330 (620-10573-5) since the potential bias is high.

Percent recoveries for bromomethane, 2-butanone, dichlorodifluoromethane, and 1,4-dioxane exceeded the 70-130% limits in select VOC LCS and/or LCSD analyses. Since these compounds are considered potentially difficult to recover by the 8260 MCP CAM, the 40-160% recovery limits apply. Percent recoveries for these compounds were within the 40-160% limits and no actions are required.

All RPDs met the Program QAPP limits of ≤ 20%.

SVOCs: Full scan SVOC LCS/LCSD results met the Program QAPP limits of percent recoveries within 40-140% for base/neutral compounds, within 30-130% for acid compounds, within 15-140% for difficult to recovery compounds, and RPDs ≤ 20%, except for the compounds listed in the tables below, for full scan SVOC LCS/LCSD pairs 620-21036/13-A and 14/A and 620-21080-4-A and 5-A.

LCS/LCSD 620-21036/13-A and /14-A

Compound	% Recovery		RPD	Limits	Action
	LCS	LCSD		(%R / RPD)	
Aniline	33	29	ok	40-140 / 20	UJ
Benzidine	9	8	ok	40-140 / 20	No detects; R NDs
Pyridine	17	16	ok	40-140 / 20	No detects; R NDs
Associated Samples:	**620-10573-2, 620-10573-3, 620-10573-4, 620-10573-5**				

LCS/LCSD 620-21080/4-A and /5-A

Compound	% Recovery		RPD	Limits	Action
	LCS	LCSD		(%R / RPD)	
Aniline	ok	31	27	40-140 / 20	UJ
Benzidine	16	11	31	40-140 / 20	R
Benzoic Acid	ok	ok	50	40-140 / 20	J
Hexachlorobutadiene	ok	ok	21	40-140 / 20	A
Hexachlorocyclopentadiene	ok	ok	29	40-140 / 20	A
2,4-Dinitrophenol	ok	ok	30	30-130 / 20	A
4-Chloroaniline	ok	ok	22	40-140 / 20	A
N-Nitrosodimethylamine	28	ok	42	40-140 / 20	UJ
Pentachloronitrobenzene	ok	ok	22	40-140 / 20	A
Phenol	24	32	30	40-140 / 20	UJ
Pyridine	25	12	70	40-140 / 20	R
Associated Samples:	**620-10573-1**				

Results for benzidine and pyridine were non-detect in all samples associated with the LCS/LCSD pairs. Based on the NFGs (2020), the non-detect full scan results for benzidine and pyridine are rejected (R) in samples 620-10573-1 through 620-10573-5 due to the low recoveries.

Professional judgement was used to qualify the non-detect results for aniline as estimated (UJ), rather than rejected (R), in all associated groundwater samples (620-10573-1 through 620-10573-5) since aniline was recovered within limits in the LCS of LCS/LCSD pair 620-21080/4-A and /5-A.

Benzoic acid was detected at < RL in associated sample 620-10573-1. Professional judgement, based on the NFG actions for MS/MSDs, was used to qualify the result for benzoic acid as estimated (J) in sample 620-10573-1 due to the exceeded RPD in the associated LCS/LCSD pair.

Results for hexachlorobutadiene, hexachlorocyclopentadiene, 2,4-dinitrophenol, 4-chloroaniline, and pentachloronitrobenzene are non-detect in associated sample 620-10573-1. Professional judgement, based on the NFG actions for MS/MSDs, was used to accept these results unqualified.

The results for N-nitrosodimethylamine and phenol are non-detect in associated sample 620-10573-1. Professional judgement was used to qualify the non-detect results as estimated (UJ), rather than rejected (R), since recoveries for these compounds were acceptable in the full scan LCS/LCSD pair (620-21036/13-A and /14-A).

SVOC-SIM LCS/LCSD results met the Program QAPP limits of percent recoveries within 40-140% for base/neutral compounds, within 15-140% for difficult to recovery compounds, and RPDs ≤ 20%, except for the compounds listed in the table below, for SVOC-SIM LCS/LCSD pairs 620-21036/2-A and 3-A and 620-21080/2-A and 3-A.

LCS/LCSD 620-21036/2-A and 3-A

Compound	% Recovery		RPD	Limits	Action[1]
	LCS	LCSD		(%R / RPD)	
Dibenz(a,h)anthracene	37	ok	21	40-140 / 20	J- / UJ
Indeno(1,2,3-cd)pyrene	35	ok	32	40-140 / 20	UJ
Benzo(a)anthracene	ok	ok	29	40-140 / 20	J / A
Benzo(a)pyrene	ok	ok	29	40-140 / 20	A
Benzo(g,h,i)perylene	ok	ok	30	40-140 / 20	A
Benzo(k)fluoranthene	ok	ok	27	40-140 / 20	A

Associated Samples:	620-10573-2, 620-10573-3, 620-10573-4, 620-10573-5

[1] – Note that the final qualifier for dibenz(a,h)anthracene is J, indeterminate bias, since the sample result is < RL and the RPD is exceeded.

Based on the NFGs (2020), detected results for dibenz(a,h)anthracene are qualified as estimated with a potential negative bias (J-) in associated samples due to the low recovery. Note that the final qualifier is estimated (J), with an indeterminate bias, since the RPD was also exceeded. Professional judgement, based on the NFG actions for MS/MSDs, was used to qualify the non-detect results for dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene as estimated (UJ) rather than rejected (R) in the associated samples since results for these compounds in the LCSD analysis in the SVOC-SIM LCS/LCSD pair 620-21080/2-A and 3-A were acceptable.

Professional judgement, based on the NFG actions for MS/MSDs, was used to qualify detected results for benzo(a)anthracene as estimated (J) and to accept the non-detect results for benzo(a)anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, and benzo(k)fluoranthene in the associated samples.

Results for the SVOC-SIM LCS/LCSD pair 620-21080/2-A and 3-A met the Program QAPP limits and no actions are required for this LCS/LCSD pair.

PCBs: Percent recoveries of Aroclors 1016 and 1260 met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 20% in all LCS/LCSD pairs. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pairs met the Program QAPP recovery limits of 70-130%. All RPDs met the Program QAPP RPD limit of ≤ 25%. No actions are required.

MCP-14 Metals/Mercury: Percent recoveries for all metals and mercury LCS analyses were within the limits of 80-120%. No actions are required.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix, unless otherwise noted.

VOCs: MS/MSD analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). Percent recovery and RPD exceedances as well as actions taken are summarized below.

2023-MW-04-20230330

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
1,4-Dioxane	57	65	ok	70-130% / ≤ 20%	UJ
Dibromomethane	133	ok	ok		A
Dichlorodifluoromethane	65	67	ok		UJ
Ethanol	69	ok	28		J / UJ
Tetrahydrofuran	ok	69	ok		UJ

* Actions are based on the NFGs (2020). Actions applied to all groundwater samples, based on the Region 1 Supplement (2020).

Non-detect results for 1,4-dioxane, dichlorodifluoromethane, and tetrahydrofuran are qualified as estimated (UJ) in all groundwater samples due to low MS and/or MSD recoveries. Detected and non-detect results for ethanol are qualified as estimated (J / UJ) in all groundwater samples due

to a low recovery in the MS and an exceeded RPD value. Based on the NFGs (2020), non-detect results for compounds with high recoveries and/or RPDs are accepted unqualified for MS/MSD results.

SVOCs: Full scan MS/MSD analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). Percent recovery and RPD exceedances as well as actions taken are summarized below.

2023-MW-04-2023-0330 (SVOC – full scan)

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
4-Chloroaniline	25	34	30	40-140% / ≤ 20%	UJ
Benzidine	8	15	63		UJ**
Hexachlorocyclopentadiene	16	17	ok		UJ
N-nitrosodimethylamine	35	34	ok		UJ
Phenol	27	27	ok		UJ
Pyridine	27	31	ok		UJ

* Actions are based on the NFGs (2020). Actions applied to all groundwater samples, based on the Region 1 Supplement (2020).
** Professional judgement used to qualify non-detect results as estimated (UJ) rather than rejected (R) since MSD recovery was > 10%.

Results for the compounds in the table above are non-detect in the groundwater samples. Based on the NFGs (2020) and the Region 1 Supplement (2020), the non-detect results for 4-chloroaniline, benzidine, hexachlorocyclopentadiene, N-nitrosodimethylamine, phenol, and pyridine are qualified as estimated (UJ) in all groundwater samples due to low MS and/or MSD recoveries. The non-detect results do not require qualification for exceeded RPD criteria, based on the NFGs (2020).

SVOC-SIM MS/MSD analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). Percent recovery and RPD exceedances as well as actions taken are summarized below.

2023-MW-04-2023-0330 (SVOC-SIM)

Compound	% Recovery		RPD	Limits	Action*
	MS	MSD		(%R / RPD)	
1-Methylnaphthalene	ok	ok	26	40-140% / ≤ 20%	A
2-Methylnaphthalene	ok	ok	24		J / A
Acenaphthene	ok	ok	27		J / A
Acenaphthylene	ok	ok	28		J / A

* Actions are based on the NFGs (2020). Actions applied to all groundwater samples, based on the Region 1 Supplement (2020).

Based on the NFGs (2020) and the Region 1 Supplement (2020), the detected results for 2-methylnaphthalene, acenaphthene, and acenaphthylene are qualified as estimated (J) in all groundwater samples due to the exceeded RPD criteria. The non-detect results do not require qualification for exceeded RPD criteria, based on the NFGs (2020).

PCBs: Aroclors 1016 and 1260 were spiked in the MS/MSD; therefore, based on professional judgment, if any actions are required, they are applied as follows:

If 1016 %R or %RPD out: Qualify 1016, 1221, 1232, 1242
If 1260 %R or %RPD out: Qualify 1248, 1254, 1260, 1262,1268

MS/MSD analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). The recoveries of Aroclors 1016 and 1260 meet the Program QAPP limits of 40-140% and RPD ≤ 20%. No actions are required.

MassDEP-VPH: MS/MSD analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). Recoveries and RPDs met the Program QAPP limits of 70-130% recovery and ≤ 50% RPD except for the recoveries of C9-C10 aromatics, which was reported as spiked but not detected in both the MS and MSD analyses, and the recoveries of C5-C8 aliphatics (unadjusted) and C9-C12 aliphatics (unadjusted), which were also reported as spiked, but with results > spiking level. Percent recoveries were not calculated by the laboratory for these ranges. Results for the parent sample were all non-detect. The laboratory's case narrative indicates the recovery failures are due to the way the entire baseline is integrated for samples versus for QC samples (sum of peaks). Professional judgement was used to qualify detected and non-detect results for C9-C10 aromatics, C5-C8 aliphatics (unadjusted), and C9-C12 aliphatics (unadjusted) as estimated (UJ) in all samples due to baseline integration preventing calculation of meaningful recoveries for these ranges. There were no detected results for these ranges in the samples. LCS/LCSD recoveries are acceptable as noted above.

MCP-14 Metals/Mercury: MS/MSD analyses for MCP-14 metals and mercury were performed on sample 2023-MW-04-20230330 (620-10573-2). Recoveries and RPDs met the Program QAPP limits of 75-125% recovery and ≤ 20% RPD. No actions are required.

9. Laboratory Duplicates (metals only)

MCP-14 Metals/Mercury: Laboratory duplicate analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). The laboratory duplicate criterion (≤ 20% RPD) was met for all detected analytes. Mercury results were non-detect for both the sample and duplicate analyses. Laboratory duplicate precision is acceptable and no actions are required.

10. Serial Dilution (metals only)

MCP-14 Metals/Mercury: A serial dilution analysis was not performed for this SDG. The Massachusetts CAM requires a serial dilution analysis on samples used for MS/MSD analyses where analytes are detected at > 50x RL. MS/MSD analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). Detected analyte results were < 50x RL in this sample and no actions are required.

11. Field Duplicate Precision

Field duplicate pair 2023-MW-03-20230330 (620-10573-1) / 2023-FD-01-20230330 (620-10573-5) is associated with the groundwater samples of this SDG. Acceptable field duplicate precision is an RPD of ≤ 30% for results > 5x RL and an absolute difference < 2x RL for results < 5x RL, based on the EPA Region I Supplement (2020).

Based on the Region I Supplement (2020), qualifications are applied to all field samples with similar matrix, unless otherwise indicated.

Field duplicate precision criteria were met for all analytical parameters except for the naphthalene results, where the sample result was non-detect and the duplicate result was > RL, with an absolute difference > 2x RL. Detected and non-detect results for naphthalene are qualified as estimated (J/UJ) in all groundwater samples due to field duplicate imprecision.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision (PCBs only)

Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40% where PCBs were detected. PCBs were not detected in the groundwater samples of this SDG. No action is required.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

RLs for non-detect results for VOCs, SVOCs, PCBs, MassDEP-VPH and metals/mercury analyses met the Project Action Levels (PALs) for the site except for hexachlorobenzene, where the non-detect RLs exceeded the PAL of 1 ug/L in all groundwater samples. Sample RLs were 5 ug/L. Project objectives may not be met.

16. Other

EPA Region I Supplement (2020) criterion for percent solids content (> 30%) not applicable for groundwater samples.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620105731 VOCs

Analyte	Original Result (ug/L)	Qual	Duplicate Result (ug/L)	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**2023-MW-03-20230330**		**2023-FD-01-20230330**				
	620-10573-1		**620-10573-5**				
1,1,1,2-Tetrachloroethane	1	U	1	U	0.00		Ok - both ND
1,1,1-Trichloroethane	1	U	1	U	0.00		Ok - both ND
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.00		Ok - both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	U	1	U	0.00		Ok - both ND
1,1,2-Trichloroethane	1	U	1	U	0.00		Ok - both ND
1,1-Dichloroethane	1	U	1	U	0.00		Ok - both ND
1,1-Dichloroethene	1	U	1	U	0.00		Ok - both ND
1,1-Dichloropropene	1	U	1	U	0.00		Ok - both ND
1,2,3-Trichlorobenzene	1	U	1	U	0.00		Ok - both ND
1,2,3-Trichloropropane	1	U	1	U	0.00		Ok - both ND
1,2,4-Trichlorobenzene	1	U	1	U	0.00		Ok - both ND
1,2,4-Trimethylbenzene	1	U	1	U	0.00		Ok - both ND
1,2-Dibromo-3-chloropropane	2	U	2	U	0.00		Ok - both ND
1,2-Dibromoethane	0.5	U	0.5	U	0.00		Ok - both ND
1,2-Dichlorobenzene	1	U	1	U	0.00		Ok - both ND
1,2-Dichloroethane	1	U	1	U	0.00		Ok - both ND
1,2-Dichloropropane	1	U	1	U	0.00		Ok - both ND
1,3,5-Trichlorobenzene	1	U	1	U	0.00		Ok - both ND
1,3,5-Trimethylbenzene	1	U	1	U	0.00		Ok - both ND
1,3-Dichlorobenzene	1	U	1	U	0.00		Ok - both ND
1,3-Dichloropropane	1	U	1	U	0.00		Ok - both ND
1,3-Dichloropropene	0.5	U	0.5	U	0.00		Ok - both ND
1,4-Dichlorobenzene	1	U	1	U	0.00		Ok - both ND
1,4-Dioxane	50	U	50	U	0.00		Ok - both ND
2,2-Dichloropropane	1	U	1	U	0.00		Ok - both ND
2-Butanone	2	U	2	U	0.00		Ok - both ND
2-Chlorotoluene	1	U	1	U	0.00		Ok - both ND
2-Hexanone	2	U	2	U	0.00		Ok - both ND
4-Chlorotoluene	1	U	1	U	0.00		Ok - both ND
4-Isopropyltoluene	1	U	1	U	0.00		Ok - both ND
4-Methyl-2-pentanone	2	U	2	U	0.00		Ok - both ND
Acetone	10	U	10	U	0.00		Ok - both ND
Acrylonitrile	0.5	U	0.5	U	0.00		Ok - both ND
Benzene	1	U	1	U	0.00		Ok - both ND
Bromobenzene	1	U	1	U	0.00		Ok - both ND
Bromochloromethane	1	U	1	U	0.00		Ok - both ND
Bromodichloromethane	0.5	U	0.5	U	0.00		Ok - both ND
Bromoform	1	U	1	U	0.00		Ok - both ND
Bromomethane	2	U	2	U	0.00		Ok - both ND
Carbon disulfide	2	U	2	U	0.00		Ok - both ND
Carbon tetrachloride	1	U	1	U	0.00		Ok - both ND
Chlorobenzene	1	U	1	U	0.00		Ok - both ND
Chloroethane	2	U	2	U	0.00		Ok - both ND
Chloroform	1	U	1	U	0.00		Ok - both ND
Chloromethane	2	U	2	U	0.00		Ok - both ND
cis-1,2-Dichloroethene	1	U	1	U	0.00		Ok - both ND
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.00		Ok - both ND
Dibromochloromethane	0.5	U	0.5	U	0.00		Ok - both ND
Dibromomethane	1	U	1	U	0.00		Ok - both ND
Dichlorodifluoromethane	2	U	2	U	0.00		Ok - both ND
Diethyl ether	1	U	1	U	0.00		Ok - both ND

Field Duplicate Evaluation

SDG: 620105731 VOCs

Analyte	Original Result (ug/L)	Qual	Duplicate Result (ug/L)	Qual	RPD ≤ 30%	Abs Diff	Comment
Diisopropyl Ether	1	U	1	U	0.00		Ok - both ND
Ethanol	200	U	200	U	0.00		Ok - both ND
Ethylbenzene	1	U	1	U	0.00		Ok - both ND
Hexachlorobutadiene	1	U	1	U	0.00		Ok - both ND
Isopropylbenzene	1	U	1	U	0.00		Ok - both ND
m,p-Xylene	1	U	1	U	0.00		Ok - both ND
Methyl tert-butyl ether	1	U	1	U	0.00		Ok - both ND
Methylene chloride	2	U	2	U	0.00		Ok - both ND
Naphthalene	2	U	2	U	0.00		Ok - both ND
n-Butylbenzene	1	U	1	U	0.00		Ok - both ND
n-Propylbenzene	1	U	1	U	0.00		Ok - both ND
o-Xylene	1	U	1	U	0.00		Ok - both ND
sec-Butylbenzene	1	U	1	U	0.00		Ok - both ND
Styrene	1	U	1	U	0.00		Ok - both ND
tert-Amyl methyl ether	1	U	1	U	0.00		Ok - both ND
tert-Butyl Alcohol	10	U	10	U	0.00		Ok - both ND
Tert-Butyl Ethyl Ether	1	U	1	U	0.00		Ok - both ND
tert-Butylbenzene	1	U	1	U	0.00		Ok - both ND
Tetrachloroethene	1	U	1	U	0.00		Ok - both ND
Tetrahydrofuran	2	U	2	U	0.00		Ok - both ND
Toluene	1	U	1	U	0.00		Ok - both ND
trans-1,2-Dichloroethene	1	U	1	U	0.00		Ok - both ND
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.00		Ok - both ND
trans-1,4-Dichlorobutene	5	U	5	U	0.00		Ok - both ND
Trichloroethene	1	U	1	U	0.00		Ok - both ND
Trichlorofluoromethane	1	U	1	U	0.00		Ok - both ND
Vinyl chloride	1	U	1	U	0.00		Ok - both ND
Xylene (total)	3	U	3	U	0.00		Ok - both ND

Field Duplicate Evaluation

SDG: 620105731 SVOCs

Analyte	Original Result (ug/L)	Qual	Duplicate Result (ugL)	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**2023-MW-03-20230330**		**2023-FD-01-20230330**				
	620-10573-1		**620-10573-5**				
1,2,4,5-Tetrachlorobenzene	5.43	U	5	U	-8.25		Ok - both ND
1,2,4-Trichlorobenzene	5.43	U	5	U	-8.25		Ok - both ND
1,2-Dichlorobenzene	5.43	U	5	U	-8.25		Ok - both ND
1,3-Dichlorobenzene	5.43	U	5	U	-8.25		Ok - both ND
1,4-Dichlorobenzene	5.43	U	5	U	-8.25		Ok - both ND
2,2'-Oxybis(1-chloropropane)	5.43	U	5	U	-8.25		Ok - both ND
2,4,5-Trichlorophenol	5.43	U	5	U	-8.25		Ok - both ND
2,4,6-Trichlorophenol	5.43	U	5	U	-8.25		Ok - both ND
2,4-Dichlorophenol	5.43	U	5	U	-8.25		Ok - both ND
2,4-Dimethylphenol	5.43	U	5	U	-8.25		Ok - both ND
2,4-Dinitrophenol	10.9	U	10	U	-8.61		Ok - both ND
2,4-Dinitrotoluene	5.43	U	5	U	-8.25		Ok - both ND
2,6-Dinitrotoluene	5.43	U	5	U	-8.25		Ok - both ND
2-Chloronaphthalene	5.43	U	5	U	-8.25		Ok - both ND
2-Chlorophenol	5.43	U	5	U	-8.25		Ok - both ND
2-Methylnaphthalene	0.0543	U	0.146		91.56	0.09	Ok - abs diff < 2x RL
2-Methylphenol	5.43	U	5	U	-8.25		Ok - both ND
2-Nitroaniline	5.43	U	5	U	-8.25		Ok - both ND
2-Nitrophenol	5.43	U	5	U	-8.25		Ok - both ND
3 & 4 Methylphenol	10.9	U	10	U	-8.61		Ok - both ND
3,3'-Dichlorobenzidine	5.43	U	5	U	-8.25		Ok - both ND
3-Nitroaniline	5.43	U	5	U	-8.25		Ok - both ND
4,6-Dinitro-2-methylphenol	5.43	U	5	U	-8.25		Ok - both ND
4-Bromophenyl-phenylether	5.43	U	5	U	-8.25		Ok - both ND
4-Chloro-3-methylphenol	5.43	U	5	U	-8.25		Ok - both ND
4-Chloroaniline	5.43	U	5	U	-8.25		Ok - both ND
4-Chlorophenyl-phenylether	5.43	U	5	U	-8.25		Ok - both ND
4-Nitroaniline	5.43	U	5	U	-8.25		Ok - both ND
4-Nitrophenol	21.7	U	20	U	-8.15		Ok - both ND
Acenaphthene	0.086		0.05	U	-52.94	-0.04	Ok - abs diff < 2x RL
Acenaphthylene	0.0746		0.05	U	-39.49	-0.02	Ok - abs diff < 2x RL
Acetophenone	5.43	U	5	U	-8.25		Ok - both ND
Aniline	5.43	U	5	U	-8.25		Ok - both ND
Anthracene	0.087	U	0.05	U	-54.01		Ok - both ND
Azobenzene	5.43	U	5	U	-8.25		Ok - both ND
Benzidine	21.7	U	20	U	-8.15		Ok - both ND
Benzo(a)anthracene	0.0543	U	0.0454	J	-17.85		Ok - ND and < RL
Benzo(a)pyrene	0.087	U	0.05	U	-54.01		Ok - both ND
Benzo(b)fluoranthene	0.0543	U	0.0407	J	-28.63		Ok - ND and < RL
Benzo(g,h,i)perylene	0.087	U	0.05	U	-54.01		Ok - both ND
Benzo(k)fluoranthene	0.087	U	0.05	U	-54.01		Ok - both ND
Benzoic Acid	8.82	J	10	U	12.54		Ok - ND and < RL
Benzyl Alcohol	5.43	U	5	U	-8.25		Ok - both ND
Bis(2-chloroethoxy)methane	5.43	U	5	U	-8.25		Ok - both ND
Bis(2-chloroethyl)ether	5.43	U	5	U	-8.25		Ok - both ND
Bis(2-ethylhexyl)phthalate	10.9	U	10	U	-8.61		Ok - both ND
Butylbenzylphthalate	5.43	U	5	U	-8.25		Ok - both ND

Field Duplicate Evaluation

SDG: 620105731 SVOCs

Analyte	Original Result (ug/L)	Qual	Duplicate Result (ugL)	Qual	RPD ≤ 30%	Abs Diff	Comment
Carbazole	5.43	U	5	U	-8.25		Ok - both ND
Chrysene	0.087	U	0.05	U	-54.01		Ok - both ND
Dibenz(a,h)anthracene	0.0543	U	0.05	U	-8.25		Ok - both ND
Dibenzofuran	5.43	U	5	U	-8.25		Ok - both ND
Diethylphthalate	5.43	U	5	U	-8.25		Ok - both ND
Dimethylphthalate	5.43	U	5	U	-8.25		Ok - both ND
Di-N-Butylphthalate	5.43	U	5	U	-8.25		Ok - both ND
Di-N-Octyl Phthalate	5.43	U	5	U	-8.25		Ok - both ND
Fluoranthene	0.0543	U	0.0452	J	-18.29		Ok - ND and < RL
Fluorene	0.081		0.05	U	-47.33	-0.03	Ok - abs diff < 2x RL
Hexachlorobenzene	5.43	U	5	U	-8.25		Ok - both ND
Hexachlorobutadiene	5.43	U	5	U	-8.25		Ok - both ND
Hexachlorocyclopentadiene	5.43	U	5	U	-8.25		Ok - both ND
Hexachloroethane	5.43	U	5	U	-8.25		Ok - both ND
Indeno(1,2,3-cd)pyrene	0.087	U	0.05	U	-54.01		Ok - both ND
Isophorone	5.43	U	5	U	-8.25		Ok - both ND
Naphthalene	0.0543	U	0.425		154.68	0.37	**J/UJ abs diff > 2x RL**
Naphthalene, 1-methyl-	0.0543	U	0.05	U	-8.25		Ok - both ND
Nitrobenzene	5.43	U	5	U	-8.25		Ok - both ND
N-Nitrosodimethylamine (NDMA)	5.43	U	5	U	-8.25		Ok - both ND
N-Nitroso-di-n-propylamine (NDPA)	5.43	U	5	U	-8.25		Ok - both ND
N-Nitrosodiphenylamine	5.43	U	5	U	-8.25		Ok - both ND
Pentachloronitrobenzene	5.43	U	5	U	-8.25		Ok - both ND
Pentachlorophenol	10.9	U	10	U	-8.61		Ok - both ND
Phenanthrene	0.217	U	0.0351	J	-144.31		Ok - ND and < RL
Phenol	5.43	U	5	U	-8.25		Ok - both ND
Pyrene	0.217	U	0.05	U	-125.09		Ok - both ND
Pyridine	5.43	U	5	U	-8.25		Ok - both ND

Field Duplicate Evaluation

SDG: 620105731 PCBs

Analyte	Original Result (ug/L)	Qual	Duplicate Result (ug/L)	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**2023-MW-03-20230330**		**2023-FD-01-20230330**				
	620-10573-1		**620-10573-5**				
Aroclor 1016	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1221	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1232	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1242	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1248	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1254	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1260	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1262	0.417	U	0.435	U	4.23		Ok - both ND
Aroclor 1268	0.417	U	0.435	U	4.23		Ok - both ND

Field Duplicate Evaluation

SDG: 620105731 VPH

Analyte	Original Result (ug/L)	Qual	Duplicate Result (ug/L)	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**2023-MW-03-20230330**		**2023-FD-01-20230330**				
	620-10573-1		**620-10573-5**				
Benzene	5	U	5	U			Ok - both ND
C5-C8 Aliphatics (adjusted)	100	U	100	U			Ok - both ND
C5-C8 Aliphatics (unadjusted)	100	U	100	U			Ok - both ND
C9-C10 Aromatics	100	U	100	U			Ok - both ND
C9-C12 Aliphatics (adjusted)	100	U	100	U			Ok - both ND
C9-C12 Aliphatics (unadjusted)	100	U	100	U			Ok - both ND
Ethylbenzene	5	U	5	U			Ok - both ND
m,p-Xylene	10	U	10	U			Ok - both ND
Methyl tert-butyl ether	5	U	5	U			Ok - both ND
Naphthalene	5	U	5	U			Ok - both ND
o-Xylene	5	U	5	U			Ok - both ND
Toluene	5	U	5	U			Ok - both ND

Field Duplicate Evaluation

SDG: 620105731 METALS

Analyte	Original Result (ug/L)	Qual	Duplicate Result (ug/L)	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**2023-MW-03-20230330**		**2023-FD-01-20230330**				
	620-10573-1		**620-10573-5**				
Antimony	1	U	1	U	0.0		Ok - both ND
Arsenic	0.989	J	1.11	J	11.5		Ok - both < RL
Barium	17.6		18.5		5.0		Ok - RPD < 30%
Beryllium	0.5	U	0.5	U	0.0		Ok - both ND
Cadmium	0.5	U	0.5	U	0.0		Ok - both ND
Chromium	2	U	2	U	0.0		Ok - both ND
Lead	0.5	U	0.082	J	-143.6		Ok - ND and < RL
Mercury	0.2	U	0.2	U	0.0		Ok - both ND
Nickel	2.27		2.75		19.1	0.48	Ok - abs diff < 2x RL
Selenium	1	U	1	U	0.0		Ok - both ND
Silver	0.5	U	0.5	U	0.0		Ok - both ND
Thallium	0.5	U	0.5	U	0.0		Ok - both ND
Vanadium	4	U	4	U	0.0		Ok - both ND
Zinc	18.4		23		22.2	4.6	Ok - abs diff < 2x RL

620-10573 Chain of Custody

10573

Chain of Custody Record

Boston #215

eurofins | Environment Testing

	Sampler: L.Mato. S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 1
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 3
Company: Nobis Engineering Inc.	PWSID:	Analysis Requested		Job #:

Address: 585 Middlesex Street	Due Date Requested	
City: Lowell	TAT Requested (days): STD	
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No	
Phone:	PO #: S00001.002	
Email: bfortier@nobis-group.com ldmcgrath@nobis-group.com	WO #:	
Project Name: 4 Holeman Street, Templeton MA	Project #:	
Site:	SSOW#:	

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs SW846 8260	5 VOCs SW846 8270	VPH SW846 8082	PCBs 8082	Metals 6020 7471A	PFAS EPA Method 537.1	Total Number of containers	Special Instructions/Note:
	Preservation Code:														
01	2023-MW-03	3/30/23	1125	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-04		1420		Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-06		1210		Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-05		1505		Water			✓	✓	✓	✓	✓	✓		
05	2023-FD-01		800		Water			✓	✓	✓	✓	✓	✓		
06	Trip Blank 2023-TB-01		700		Water			✓	✓						
					Water										
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, (IV) Other (specify)

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com EQuIS EDD 2023-MW-04 is MS/MSD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by: L.Mato	3/30/23 7:24		Received by: Basement fridge	3/30/23 7:24	
Relinquished by:	3/30/23 3:07		Received by:	3/31/23 1505	EA
Relinquished by:	4/3/23 1314	EA	Received by:	4/3/23 1314	ENE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.6 & 2.2 2.8 tb

Ver: 06/08/2021

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5/11/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8924.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10573-1
Address: 2425 New Holland Pike,	Due Date Requested: 4/11/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	PRE_SCREEN_PFAS/PFAS_PreScn_W_P	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
2023-MW-03 (620-10573-1)	3/30/23	11:25 Eastern		Water			X	X	X	X	3	
2023-MW-04 (620-10573-2)	3/30/23	14:20 Eastern		Water			X	X	X	X	3	
2023-MW-06 (620-10573-3)	3/30/23	12:10 Eastern		Water			X	X	X	X	3	
2023-MW-05 (620-10573-4)	3/30/23	15:05 Eastern		Water			X	X	X	X	3	
2023-FD-01 (620-10573-5)	3/30/23	08:00 Eastern		Water			X	X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/3/23 16:37	GNE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/5/23 9:55	EUET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.0

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8928.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10573-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/11/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-04 (620-10573-2MS)	3/30/23	14:20 Eastern	MS	Water			X	X	X	3	
2023-MW-04 (620-10573-2MSD)	3/30/23	14:20 Eastern	MSD	Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/3/23 17:36	ENE	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	4/5/23 9:55	ENE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0

Ver: 06/08/2021

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 5/11/2023 3:47:54 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10573-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

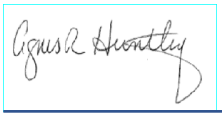
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10573-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10573-1 through 620-10573-6

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☑	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/11/2023

Job ID: 620-10573-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10573-1

Receipt
The samples were received on 3/31/2023 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: Hexachlorobutadiene.
(CCVIS 620-21052/3)

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Tert-amyl methyl ether.
(CCVIS 620-21055/3)

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, Ethanol, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Tert-amyl methyl ether.
(CCVIS 620-21085/3)

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for analytical batch 620-21085 recovered outside control limits for the following analytes: Bromomethane, Dichlorodifluoromethane, and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 620-21085 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Methods 8270C, 8270D, 8270D SIM: The laboratory control sample (LCS) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Methods 8270C, 8270D, 8270D SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Benzo[a]anthracene, Benzo[a]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The individual percent recoveries were within acceptance criteria.

Methods 8270C, 8270D, 8270D SIM: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to

Job ID: 620-10573-1 (Continued)

Laboratory: Eurofins New England (Continued)

be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 620-21036/1-A). These results have been reported and qualified.

Methods 8270D, 8270D SIM: The continuing calibration verification (CCV) associated with batch 620-21209 recovered above the upper control limit for 1-Methylnaphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 620-21209/6).

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21216/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-21080 and analytical batch 620-21159 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Benzidine, Pyridine and Phenol. MCP allows for <10% of analytes to fall outside of control limits. The affected target analytes recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The laboratory control sample (LCS) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: N-Nitrosodimethylamine. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Aniline. The affected target analytes recovered within acceptance limits in the LCS, therefore the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, 4-Chloroaniline, Aniline, Benzidine, Benzoic acid, Hexachlorobutadiene, Hexachlorocyclopentadiene, N-Nitrosodimethylamine, Pentachloronitrobenzene, Phenol and Pyridine. The individual percent recoveries are within acceptance limits unless otherwise specified in another NCM.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21036 and analytical batch 620-21311 recovered outside control limits for the following analytes: Aniline, Benzidine and Pyridine. MCP allows for <10% of analytes to fall outside of control limits. The affected target analytes recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21311/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH2.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 620-21124 were outside control limits for one or more analytes, see QC Sample Results for detail. The %R fail is due to the way the whole baseline is integrated for samples, and is not just a sum of peaks as in QC samples. The associated laboratory control sample (LCS) recovery is within acceptance limits; therefore, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 620-10573-1 (Continued)

Laboratory: Eurofins New England (Continued)

GC Semi VOA
Method 8082: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: 2023-MW-04 (620-10573-2). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

Methods 8082, 8082A: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 620-21137 and analytical batch 620-21181 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0860		0.0543	0.0423	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0746		0.0543	0.0422	ug/L	1		8270D	Total/NA
Fluorene	0.0810		0.0543	0.0371	ug/L	1		8270D	Total/NA
Benzoic acid	8.82	J B	10.9	6.05	ug/L	1		8270D	Total/NA
Zinc	18.4		10.0	4.00	ug/L	1		6020B	Total Recoverable
Arsenic	0.989	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	17.6		2.00	0.746	ug/L	1		6020B	Total Recoverable
Nickel	2.27		1.00	0.400	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	41.5		10.0	4.00	ug/L	1		6020B	Total Recoverable
Barium	26.0		2.00	0.746	ug/L	1		6020B	Total Recoverable
Lead	0.146	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	8.30		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	0.991	J	2.00	0.334	ug/L	1		6020B	Total Recoverable
Lead	0.257	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable
Mercury	0.0824	J	0.200	0.0790	ug/L	1		7470A	Total/NA

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.61	J	10.0	0.902	ug/L	1		8260C	Total/NA
Ethanol	69.5	J	200	9.08	ug/L	1		8260C	Total/NA
Benzo[a]anthracene	0.0440	J *1	0.0500	0.0413	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0412	J	0.0500	0.0375	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.0342	J *- *1	0.0500	0.0342	ug/L	1		8270D	Total/NA
Zinc	22.0		10.0	4.00	ug/L	1		6020B	Total Recoverable
Barium	34.0		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	1.72	J	2.00	0.334	ug/L	1		6020B	Total Recoverable
Nickel	1.24		1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.331	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable
Vanadium	1.47	J	4.00	0.794	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-01
Lab Sample ID: 620-10573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.146		0.0500	0.0470	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.0454	J *1	0.0500	0.0413	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0407	J	0.0500	0.0375	ug/L	1		8270D	Total/NA
Fluoranthene	0.0452	J	0.0500	0.0341	ug/L	1		8270D	Total/NA
Naphthalene	0.425		0.0500	0.0464	ug/L	1		8270D	Total/NA
Phenanthrene	0.0351	J	0.0500	0.0339	ug/L	1		8270D	Total/NA
Zinc	23.0		10.0	4.00	ug/L	1		6020B	Total Recoverable
Arsenic	1.11	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	18.5		2.00	0.746	ug/L	1		6020B	Total Recoverable
Nickel	2.75		1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.0820	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-TB-01
Lab Sample ID: 620-10573-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-03

Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 20:59	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 20:59	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 20:59	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 20:59	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 20:59	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 20:59	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 20:59	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 20:59	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 20:59	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 20:59	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 20:59	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 20:59	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 20:59	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 20:59	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 20:59	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 20:59	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 20:59	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 20:59	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 20:59	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 20:59	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 20:59	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 20:59	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 20:59	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 20:59	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 20:59	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 20:59	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 20:59	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 20:59	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 20:59	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 20:59	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 20:59	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 20:59	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 20:59	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 20:59	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 20:59	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 20:59	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 20:59	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 20:59	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 20:59	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 20:59	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 20:59	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 20:59	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 20:59	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 20:59	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 20:59	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 20:59	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 20:59	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 20:59	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 20:59	1

Client Sample ID: 2023-MW-03 **Lab Sample ID: 620-10573-1**
Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 20:59	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 20:59	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 20:59	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 20:59	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 20:59	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 20:59	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 20:59	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 20:59	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 20:59	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 20:59	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 20:59	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 20:59	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 20:59	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 20:59	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 20:59	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 20:59	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 20:59	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 20:59	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 20:59	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 20:59	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 20:59	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 20:59	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 20:59	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 20:59	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 20:59	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 20:59	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 20:59	1
Ethanol	ND		200	9.08	ug/L			04/04/23 20:59	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 20:59	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/04/23 20:59*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 20:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*04/04/23 20:59*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/04/23 20:59*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0543	0.0538	ug/L		04/05/23 09:47	04/10/23 17:15	1
2-Methylnaphthalene	ND		0.0543	0.0511	ug/L		04/05/23 09:47	04/10/23 17:15	1
Acenaphthene	**0.0860**		0.0543	0.0423	ug/L		04/05/23 09:47	04/10/23 17:15	1
Acenaphthylene	**0.0746**		0.0543	0.0422	ug/L		04/05/23 09:47	04/10/23 17:15	1
Anthracene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[a]anthracene	ND		0.0543	0.0449	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[a]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[b]fluoranthene	ND		0.0543	0.0408	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[g,h,i]perylene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[k]fluoranthene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Chrysene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03
Lab Sample ID: 620-10573-1
Date Collected: 03/30/23 11:25
Matrix: Water
Date Received: 03/31/23 15:05

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0543	0.0372	ug/L		04/05/23 09:47	04/10/23 17:15	1
Fluoranthene	ND		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 17:15	1
Fluorene	**0.0810**		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 17:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Naphthalene	ND		0.0543	0.0504	ug/L		04/05/23 09:47	04/10/23 17:15	1
Phenanthrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 17:15	1
Pyrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:15*	*1*
Terphenyl-d14	*55*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:15*	*1*
Benzo(e)pyrene-d12	*46*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.43	0.932	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,2,4-Trichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,2-Dichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,3-Dichlorobenzene	ND		5.43	1.38	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,4-Dichlorobenzene	ND		5.43	1.53	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4,5-Trichlorophenol	ND		5.43	1.17	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4,6-Trichlorophenol	ND		5.43	0.988	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dichlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dimethylphenol	ND		5.43	0.662	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dinitrophenol	ND		10.9	5.88	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dinitrotoluene	ND		5.43	1.03	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,6-Dinitrotoluene	ND		5.43	0.827	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Chloronaphthalene	ND		5.43	1.07	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Chlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Methylphenol	ND		5.43	0.582	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Nitroaniline	ND		5.43	0.741	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Nitrophenol	ND		5.43	0.838	ug/L		04/05/23 09:47	04/12/23 17:07	1
3 & 4 Methylphenol	ND		10.9	0.713	ug/L		04/05/23 09:47	04/12/23 17:07	1
3,3'-Dichlorobenzidine	ND		5.43	1.55	ug/L		04/05/23 09:47	04/12/23 17:07	1
3-Nitroaniline	ND		5.43	0.962	ug/L		04/05/23 09:47	04/12/23 17:07	1
4,6-Dinitro-2-methylphenol	ND		5.43	3.87	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Bromophenyl phenyl ether	ND		5.43	0.899	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Chloro-3-methylphenol	ND		5.43	0.857	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Chloroaniline	ND		5.43	2.24	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Chlorophenyl phenyl ether	ND		5.43	0.973	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Nitroaniline	ND		5.43	0.970	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Nitrophenol	ND		21.7	0.716	ug/L		04/05/23 09:47	04/12/23 17:07	1
Acetophenone	ND		5.43	0.792	ug/L		04/05/23 09:47	04/12/23 17:07	1
Aniline	ND	*-	5.43	1.52	ug/L		04/05/23 09:47	04/12/23 17:07	1
Azobenzene/Diphenyldiazene	ND		5.43	0.810	ug/L		04/05/23 09:47	04/12/23 17:07	1
Benzidine	ND	*-	21.7	2.09	ug/L		04/05/23 09:47	04/12/23 17:07	1
Benzoic acid	**8.82**	**J B**	10.9	6.05	ug/L		04/05/23 09:47	04/12/23 17:07	1
Benzyl alcohol	ND		5.43	0.638	ug/L		04/05/23 09:47	04/12/23 17:07	1
Bis(2-chloroethoxy)methane	ND		5.43	0.702	ug/L		04/05/23 09:47	04/12/23 17:07	1
Bis(2-chloroethyl)ether	ND		5.43	0.753	ug/L		04/05/23 09:47	04/12/23 17:07	1

Client Sample ID: 2023-MW-03 Lab Sample ID: 620-10573-1

Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.43	1.06	ug/L		04/05/23 09:47	04/12/23 17:07	1
Bis(2-ethylhexyl) phthalate	ND		10.9	6.39	ug/L		04/05/23 09:47	04/12/23 17:07	1
Butyl benzyl phthalate	ND		5.43	0.939	ug/L		04/05/23 09:47	04/12/23 17:07	1
Carbazole	ND		5.43	0.992	ug/L		04/05/23 09:47	04/12/23 17:07	1
Dibenzofuran	ND		5.43	0.852	ug/L		04/05/23 09:47	04/12/23 17:07	1
Diethyl phthalate	ND		5.43	0.952	ug/L		04/05/23 09:47	04/12/23 17:07	1
Dimethyl phthalate	ND		5.43	0.833	ug/L		04/05/23 09:47	04/12/23 17:07	1
Di-n-butyl phthalate	ND		5.43	0.998	ug/L		04/05/23 09:47	04/12/23 17:07	1
Di-n-octyl phthalate	ND		5.43	1.12	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachlorobenzene	ND		5.43	0.820	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachlorobutadiene	ND		5.43	1.24	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachlorocyclopentadiene	ND		5.43	1.08	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachloroethane	ND		5.43	1.39	ug/L		04/05/23 09:47	04/12/23 17:07	1
Isophorone	ND		5.43	0.552	ug/L		04/05/23 09:47	04/12/23 17:07	1
Nitrobenzene	ND		5.43	0.782	ug/L		04/05/23 09:47	04/12/23 17:07	1
N-Nitrosodimethylamine	ND		5.43	0.607	ug/L		04/05/23 09:47	04/12/23 17:07	1
N-Nitrosodi-n-propylamine	ND		5.43	0.859	ug/L		04/05/23 09:47	04/12/23 17:07	1
N-Nitrosodiphenylamine	ND		5.43	1.01	ug/L		04/05/23 09:47	04/12/23 17:07	1
Pentachloronitrobenzene	ND		5.43	0.668	ug/L		04/05/23 09:47	04/12/23 17:07	1
Pentachlorophenol	ND		10.9	3.36	ug/L		04/05/23 09:47	04/12/23 17:07	1
Phenol	ND		5.43	0.690	ug/L		04/05/23 09:47	04/12/23 17:07	1
Pyridine	ND	*-	5.43	1.46	ug/L		04/05/23 09:47	04/12/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*30 - 130*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
2-Fluorophenol (Surr)	*40*		*15 - 110*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
Phenol-d5 (Surr)	*24*		*15 - 110*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
Terphenyl-d14	*63*		*30 - 130*	*04/05/23 09:47*	*04/12/23 17:07*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:57	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:57	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 17:57	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:57	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:57	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 17:57	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*		*04/06/23 17:57*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 17:57*	*1*

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:55	04/10/23 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*
Tetrachloro-m-xylene	*50*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**18.4**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 08:07	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 08:07	1
Arsenic	**0.989**	**J**	2.00	0.680	ug/L		04/07/23 04:43	04/10/23 08:07	1
Barium	**17.6**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 08:07	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 08:07	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 08:07	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 08:07	1
Nickel	**2.27**		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 08:07	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 08:07	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 08:07	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 08:07	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 08:07	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 08:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:28	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-04
Date Collected: 03/30/23 14:20
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-2
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/05/23 18:20	1
Acetone	ND		10.0	0.902	ug/L			04/05/23 18:20	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/05/23 18:20	1
Benzene	ND		1.00	0.250	ug/L			04/05/23 18:20	1
Bromobenzene	ND		1.00	0.403	ug/L			04/05/23 18:20	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/05/23 18:20	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/05/23 18:20	1
Bromoform	ND		1.00	0.454	ug/L			04/05/23 18:20	1
Bromomethane	ND	*+	2.00	0.627	ug/L			04/05/23 18:20	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/05/23 18:20	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/05/23 18:20	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/05/23 18:20	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/05/23 18:20	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/05/23 18:20	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/05/23 18:20	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/05/23 18:20	1
Chloroethane	ND		2.00	0.405	ug/L			04/05/23 18:20	1
Chloroform	ND		1.00	0.297	ug/L			04/05/23 18:20	1
Chloromethane	ND		2.00	0.485	ug/L			04/05/23 18:20	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/05/23 18:20	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/05/23 18:20	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/05/23 18:20	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/05/23 18:20	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/05/23 18:20	1
Dibromomethane	ND	*+ F1	1.00	0.364	ug/L			04/05/23 18:20	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/05/23 18:20	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/05/23 18:20	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/05/23 18:20	1
Dichlorodifluoromethane (Freon 12)	ND	*- F1	2.00	0.289	ug/L			04/05/23 18:20	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/05/23 18:20	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/05/23 18:20	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/05/23 18:20	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/05/23 18:20	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/05/23 18:20	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/05/23 18:20	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/05/23 18:20	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/05/23 18:20	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/05/23 18:20	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/05/23 18:20	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/05/23 18:20	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/05/23 18:20	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/05/23 18:20	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/05/23 18:20	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/05/23 18:20	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/05/23 18:20	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/05/23 18:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/05/23 18:20	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/05/23 18:20	1
Naphthalene	ND		2.00	0.696	ug/L			04/05/23 18:20	1

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/05/23 18:20	1
Styrene	ND		1.00	0.419	ug/L			04/05/23 18:20	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/05/23 18:20	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/05/23 18:20	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/05/23 18:20	1
Toluene	ND		1.00	0.283	ug/L			04/05/23 18:20	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/05/23 18:20	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/05/23 18:20	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/05/23 18:20	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/05/23 18:20	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/05/23 18:20	1
Trichloroethene	ND		1.00	0.364	ug/L			04/05/23 18:20	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/05/23 18:20	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/05/23 18:20	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/05/23 18:20	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/05/23 18:20	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/05/23 18:20	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/05/23 18:20	1
o-Xylene	ND		1.00	0.428	ug/L			04/05/23 18:20	1
Tetrahydrofuran	ND	F1	2.00	0.704	ug/L			04/05/23 18:20	1
Ethyl ether	ND		1.00	0.421	ug/L			04/05/23 18:20	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/05/23 18:20	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/05/23 18:20	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/05/23 18:20	1
tert-Butanol	ND		10.0	8.52	ug/L			04/05/23 18:20	1
1,4-Dioxane	ND	*- F1	50.0	7.43	ug/L			04/05/23 18:20	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/05/23 18:20	1
Ethanol	ND	F1 F2	200	9.08	ug/L			04/05/23 18:20	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/05/23 18:20	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/05/23 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/05/23 18:20*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/05/23 18:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/05/23 18:20*	*1*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*04/05/23 18:20*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 17:11	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 17:11	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:11	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 17:11	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[a]anthracene	ND	*1	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 17:11	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 17:11	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04
Lab Sample ID: 620-10573-2
Date Collected: 03/30/23 14:20
Matrix: Water
Date Received: 03/31/23 15:05

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	*- *1	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 17:11	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:11	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:11	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:11	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 17:11	1
Phenanthrene	ND		0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 17:11	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:11*	*1*
Terphenyl-d14	*76*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:11*	*1*
Benzo(e)pyrene-d12	*64*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:11*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 16:36	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 16:36	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 16:36	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 16:36	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 16:36	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 16:36	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 16:36	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 16:36	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 16:36	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 16:36	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 16:36	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 16:36	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 16:36	1

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 16:36	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 16:36	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 16:36	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 16:36	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 16:36	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 16:36	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 16:36	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 16:36	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 16:36	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 16:36	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 16:36	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 16:36	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 16:36	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 16:36	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 16:36	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 16:36	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 16:36	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*30 - 130*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
2-Fluorophenol (Surr)	*43*		*15 - 110*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
Nitrobenzene-d5 (Surr)	*97*		*30 - 130*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
Phenol-d5 (Surr)	*24*		*15 - 110*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
Terphenyl-d14	*84*		*30 - 130*	*04/04/23 08:36*	*04/10/23 16:36*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:22	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:22	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 17:22	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:22	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:22	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 17:22	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 17:22*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 17:22*	*1*

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/07/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*
Tetrachloro-m-xylene	*37*		*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*
DCB Decachlorobiphenyl (Surr)	*377*	*S1+*	*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*
DCB Decachlorobiphenyl (Surr)	*55*	*p*	*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**41.5**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 07:45	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 07:45	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 04:43	04/10/23 07:45	1
Barium	**26.0**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 07:45	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 07:45	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 07:45	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 07:45	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 07:45	1
Lead	**0.146**	**J**	0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 07:45	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 07:45	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 07:45	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 07:45	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 07:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 14:43	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-06

Date Collected: 03/30/23 12:10
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-3

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 21:25	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 21:25	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 21:25	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 21:25	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 21:25	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 21:25	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 21:25	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 21:25	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 21:25	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 21:25	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 21:25	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 21:25	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 21:25	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 21:25	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 21:25	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 21:25	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 21:25	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 21:25	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 21:25	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 21:25	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 21:25	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 21:25	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 21:25	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 21:25	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 21:25	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 21:25	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 21:25	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 21:25	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 21:25	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 21:25	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 21:25	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 21:25	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 21:25	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 21:25	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 21:25	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 21:25	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 21:25	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 21:25	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 21:25	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 21:25	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 21:25	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 21:25	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 21:25	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 21:25	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 21:25	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 21:25	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 21:25	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 21:25	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 21:25	1

Client Sample ID: 2023-MW-06 **Lab Sample ID: 620-10573-3**
Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 21:25	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 21:25	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 21:25	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 21:25	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 21:25	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 21:25	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 21:25	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 21:25	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 21:25	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 21:25	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 21:25	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 21:25	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 21:25	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 21:25	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 21:25	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 21:25	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 21:25	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 21:25	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 21:25	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 21:25	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 21:25	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 21:25	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 21:25	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 21:25	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 21:25	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 21:25	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 21:25	1
Ethanol	ND		200	9.08	ug/L			04/04/23 21:25	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 21:25	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/04/23 21:25*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 21:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/04/23 21:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/04/23 21:25*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 17:41	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 17:41	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:41	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 17:41	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[a]anthracene	ND	*1	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 17:41	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 17:41	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06
Lab Sample ID: 620-10573-3
Date Collected: 03/30/23 12:10
Matrix: Water
Date Received: 03/31/23 15:05

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	*- *1	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 17:41	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:41	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:41	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:41	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 17:41	1
Phenanthrene	ND		0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 17:41	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:41*	*1*
Terphenyl-d14	*75*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:41*	*1*
Benzo(e)pyrene-d12	*50*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:41*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 17:05	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 17:05	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 17:05	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 17:05	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 17:05	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 17:05	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 17:05	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 17:05	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 17:05	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 17:05	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 17:05	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 17:05	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 17:05	1

Client Sample ID: 2023-MW-06 Lab Sample ID: 620-10573-3

Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 17:05	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 17:05	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 17:05	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 17:05	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 17:05	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 17:05	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 17:05	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 17:05	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 17:05	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 17:05	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 17:05	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 17:05	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 17:05	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 17:05	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 17:05	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 17:05	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 17:05	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
2-Fluorophenol (Surr)	*40*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
Phenol-d5 (Surr)	*22*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
Terphenyl-d14	*80*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:05*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 18:32	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 18:32	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 18:32	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 18:32	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 18:32	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 18:32	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*89*		*70 - 130*		*04/06/23 18:32*	*1*
2,5-Dibromotoluene (pid)	*89*		*70 - 130*		*04/06/23 18:32*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-06

Date Collected: 03/30/23 12:10
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-3

Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/07/23 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:23	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:23	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:23	1
Barium	**8.30**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:23	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:23	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:23	1
Chromium	**0.991**	**J**	2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:23	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:23	1
Lead	**0.257**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:23	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:23	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:23	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:23	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0824**	**J**	0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:34	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 21:51	1
Acetone	**1.61**	**J**	10.0	0.902	ug/L			04/04/23 21:51	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 21:51	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 21:51	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 21:51	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 21:51	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 21:51	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 21:51	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 21:51	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 21:51	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 21:51	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 21:51	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 21:51	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 21:51	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 21:51	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 21:51	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 21:51	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 21:51	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 21:51	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 21:51	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 21:51	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 21:51	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 21:51	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 21:51	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 21:51	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 21:51	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 21:51	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 21:51	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 21:51	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 21:51	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 21:51	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 21:51	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 21:51	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 21:51	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 21:51	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 21:51	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 21:51	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 21:51	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 21:51	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 21:51	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 21:51	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 21:51	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 21:51	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 21:51	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 21:51	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 21:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 21:51	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 21:51	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 21:51	1

Client Sample ID: 2023-MW-05 Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 21:51	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 21:51	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 21:51	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 21:51	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 21:51	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 21:51	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 21:51	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 21:51	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 21:51	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 21:51	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 21:51	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 21:51	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 21:51	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 21:51	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 21:51	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 21:51	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 21:51	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 21:51	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 21:51	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 21:51	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 21:51	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 21:51	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 21:51	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 21:51	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 21:51	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 21:51	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 21:51	1
Ethanol	**69.5**	**J**	200	9.08	ug/L			04/04/23 21:51	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 21:51	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/04/23 21:51*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/23 21:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*04/04/23 21:51*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/04/23 21:51*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 18:11	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 18:11	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:11	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 18:11	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[a]anthracene	**0.0440**	**J *1**	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[b]fluoranthene	**0.0412**	**J**	0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 18:11	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 18:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**0.0342**	**J *- *1**	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 18:11	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:11	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:11	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:11	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 18:11	1
Phenanthrene	ND		0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 18:11	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:11*	*1*
Terphenyl-d14	*69*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:11*	*1*
Benzo(e)pyrene-d12	*50*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:11*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 17:34	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 17:34	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 17:34	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 17:34	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 17:34	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 17:34	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 17:34	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 17:34	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 17:34	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 17:34	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 17:34	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 17:34	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 17:34	1

Client Sample ID: 2023-MW-05 Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 17:34	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 17:34	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 17:34	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 17:34	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 17:34	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 17:34	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 17:34	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 17:34	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 17:34	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 17:34	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 17:34	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 17:34	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 17:34	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 17:34	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 17:34	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 17:34	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 17:34	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
2-Fluorophenol (Surr)	*39*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
Phenol-d5 (Surr)	*22*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
Terphenyl-d14	*73*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:34*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:08	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:08	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 19:08	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:08	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:08	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 19:08	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*87*		*70 - 130*		*04/06/23 19:08*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 19:08*	*1*

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.455	0.0636	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1221	ND		0.455	0.169	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1232	ND		0.455	0.109	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1242	ND		0.455	0.0864	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1248	ND		0.455	0.186	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1254	ND		0.455	0.166	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1262	ND		0.455	0.182	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1260	ND		0.455	0.0864	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1268	ND		0.455	0.0955	ug/L		04/06/23 11:55	04/07/23 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*33*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*
Tetrachloro-m-xylene	*32*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*
DCB Decachlorobiphenyl (Surr)	*44*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*
DCB Decachlorobiphenyl (Surr)	*38*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**22.0**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 08:05	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 08:05	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 04:43	04/10/23 08:05	1
Barium	**34.0**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 08:05	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 08:05	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 08:05	1
Chromium	**1.72**	**J**	2.00	0.334	ug/L		04/07/23 04:43	04/10/23 08:05	1
Nickel	**1.24**		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 08:05	1
Lead	**0.331**	**J**	0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 08:05	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 08:05	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 08:05	1
Vanadium	**1.47**	**J**	4.00	0.794	ug/L		04/07/23 04:43	04/10/23 08:05	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 08:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-FD-01

Date Collected: 03/30/23 08:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-5

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/05/23 17:54	1
Acetone	ND		10.0	0.902	ug/L			04/05/23 17:54	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/05/23 17:54	1
Benzene	ND		1.00	0.250	ug/L			04/05/23 17:54	1
Bromobenzene	ND		1.00	0.403	ug/L			04/05/23 17:54	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/05/23 17:54	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/05/23 17:54	1
Bromoform	ND		1.00	0.454	ug/L			04/05/23 17:54	1
Bromomethane	ND	*+	2.00	0.627	ug/L			04/05/23 17:54	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/05/23 17:54	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/05/23 17:54	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/05/23 17:54	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/05/23 17:54	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/05/23 17:54	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/05/23 17:54	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/05/23 17:54	1
Chloroethane	ND		2.00	0.405	ug/L			04/05/23 17:54	1
Chloroform	ND		1.00	0.297	ug/L			04/05/23 17:54	1
Chloromethane	ND		2.00	0.485	ug/L			04/05/23 17:54	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/05/23 17:54	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/05/23 17:54	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/05/23 17:54	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/05/23 17:54	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/05/23 17:54	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/05/23 17:54	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/05/23 17:54	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/05/23 17:54	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/05/23 17:54	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/05/23 17:54	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/05/23 17:54	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/05/23 17:54	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/05/23 17:54	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/05/23 17:54	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/05/23 17:54	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/05/23 17:54	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/05/23 17:54	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/05/23 17:54	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/05/23 17:54	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/05/23 17:54	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/05/23 17:54	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/05/23 17:54	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/05/23 17:54	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/05/23 17:54	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/05/23 17:54	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/05/23 17:54	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/05/23 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/05/23 17:54	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/05/23 17:54	1
Naphthalene	ND		2.00	0.696	ug/L			04/05/23 17:54	1

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/05/23 17:54	1
Styrene	ND		1.00	0.419	ug/L			04/05/23 17:54	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/05/23 17:54	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/05/23 17:54	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/05/23 17:54	1
Toluene	ND		1.00	0.283	ug/L			04/05/23 17:54	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/05/23 17:54	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/05/23 17:54	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/05/23 17:54	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/05/23 17:54	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/05/23 17:54	1
Trichloroethene	ND		1.00	0.364	ug/L			04/05/23 17:54	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/05/23 17:54	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/05/23 17:54	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/05/23 17:54	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/05/23 17:54	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/05/23 17:54	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/05/23 17:54	1
o-Xylene	ND		1.00	0.428	ug/L			04/05/23 17:54	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/05/23 17:54	1
Ethyl ether	ND		1.00	0.421	ug/L			04/05/23 17:54	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/05/23 17:54	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/05/23 17:54	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/05/23 17:54	1
tert-Butanol	ND		10.0	8.52	ug/L			04/05/23 17:54	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/05/23 17:54	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/05/23 17:54	1
Ethanol	ND		200	9.08	ug/L			04/05/23 17:54	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/05/23 17:54	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/05/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/05/23 17:54*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/05/23 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*		*04/05/23 17:54*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*04/05/23 17:54*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 18:40	1
2-Methylnaphthalene	**0.146**		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 18:40	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:40	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 18:40	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[a]anthracene	**0.0454**	**J *1**	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[b]fluoranthene	**0.0407**	**J**	0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 18:40	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 18:40	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-FD-01
Date Collected: 03/30/23 08:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-5
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	*- *1	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 18:40	1
Fluoranthene	**0.0452**	**J**	0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:40	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:40	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:40	1
Naphthalene	**0.425**		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 18:40	1
Phenanthrene	**0.0351**	**J**	0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 18:40	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:40*	*1*
Terphenyl-d14	*68*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:40*	*1*
Benzo(e)pyrene-d12	*48*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:40*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 18:03	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 18:03	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 18:03	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 18:03	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 18:03	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 18:03	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 18:03	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 18:03	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 18:03	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 18:03	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 18:03	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 18:03	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 18:03	1

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 18:03	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 18:03	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 18:03	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 18:03	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 18:03	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 18:03	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 18:03	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 18:03	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 18:03	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 18:03	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 18:03	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 18:03	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 18:03	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 18:03	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 18:03	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 18:03	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 18:03	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
2-Fluorophenol (Surr)	*33*		*15 - 110*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
Phenol-d5 (Surr)	*19*		*15 - 110*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*15 - 110*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
Terphenyl-d14	*72*		*30 - 130*	*04/04/23 08:36*	*04/10/23 18:03*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:43	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:43	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 19:43	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:43	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:43	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 19:43	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*		*04/06/23 19:43*	*1*
2,5-Dibromotoluene (pid)	*85*		*70 - 130*		*04/06/23 19:43*	*1*

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.435	0.0609	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1221	ND		0.435	0.162	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1232	ND		0.435	0.104	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1242	ND		0.435	0.0826	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1248	ND		0.435	0.178	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1254	ND		0.435	0.159	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1262	ND		0.435	0.174	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1260	ND		0.435	0.0826	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1268	ND		0.435	0.0913	ug/L		04/06/23 11:55	04/07/23 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**23.0**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 08:03	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 08:03	1
Arsenic	**1.11**	**J**	2.00	0.680	ug/L		04/07/23 04:43	04/10/23 08:03	1
Barium	**18.5**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 08:03	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 08:03	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 08:03	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 08:03	1
Nickel	**2.75**		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 08:03	1
Lead	**0.0820**	**J**	0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 08:03	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 08:03	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 08:03	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 08:03	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 08:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-TB-01
Date Collected: 03/30/23 07:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-6
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 16:04	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 16:04	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 16:04	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 16:04	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 16:04	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 16:04	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 16:04	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 16:04	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 16:04	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/04/23 16:04	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 16:04	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 16:04	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 16:04	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 16:04	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 16:04	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 16:04	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 16:04	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 16:04	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 16:04	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 16:04	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 16:04	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 16:04	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 16:04	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 16:04	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 16:04	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 16:04	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 16:04	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 16:04	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/04/23 16:04	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 16:04	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 16:04	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 16:04	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 16:04	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 16:04	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 16:04	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 16:04	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 16:04	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 16:04	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 16:04	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 16:04	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 16:04	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 16:04	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 16:04	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 16:04	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 16:04	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 16:04	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 16:04	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 16:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-TB-01
Date Collected: 03/30/23 07:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-6
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 16:04	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 16:04	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 16:04	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 16:04	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 16:04	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 16:04	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 16:04	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 16:04	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 16:04	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 16:04	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 16:04	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 16:04	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 16:04	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 16:04	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 16:04	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 16:04	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 16:04	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 16:04	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 16:04	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 16:04	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 16:04	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 16:04	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 16:04	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 16:04	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 16:04	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/04/23 16:04	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 16:04	1
Ethanol	ND	*-	200	9.08	ug/L			04/04/23 16:04	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 16:04	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/04/23 16:04*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/23 16:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 16:04*	*1*
Dibromofluoromethane (Surr)	*127*		*70 - 130*		*04/04/23 16:04*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:02	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:02	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 15:02	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:02	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:02	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 15:02	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-TB-01
Date Collected: 03/30/23 07:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-6
Matrix: Water

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*81*		*70 - 130*		*04/06/23 15:02*	*1*
2,5-Dibromotoluene (pid)	*81*		*70 - 130*		*04/06/23 15:02*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10573-1	2023-MW-03	94	95	111	101
620-10573-2	2023-MW-04	88	95	129	123
620-10573-2 MS	2023-MW-04	97	96	125	124
620-10573-2 MSD	2023-MW-04	96	95	122	123
620-10573-3	2023-MW-06	94	95	107	99
620-10573-4	2023-MW-05	95	96	112	100
620-10573-5	2023-FD-01	88	94	128	125
620-10573-6	2023-TB-01	91	96	129	127
LCS 620-21052/4	Lab Control Sample	98	96	102	97
LCS 620-21055/4	Lab Control Sample	96	96	125	120
LCS 620-21085/4	Lab Control Sample	97	97	127	121
LCSD 620-21052/5	Lab Control Sample Dup	99	95	102	97
LCSD 620-21055/5	Lab Control Sample Dup	97	95	125	120
LCSD 620-21085/5	Lab Control Sample Dup	97	93	121	119
MB 620-21052/7	Method Blank	95	94	101	96
MB 620-21055/7	Method Blank	92	95	129	128
MB 620-21085/7	Method Blank	90	97	130	129

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	TPHL	BePd12
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-10573-1	2023-MW-03	59	55	46
620-10573-2	2023-MW-04	100	76	64
620-10573-2 MS	2023-MW-04	47	45	51
620-10573-2 MSD	2023-MW-04	61	54	60
620-10573-3	2023-MW-06	90	75	50
620-10573-4	2023-MW-05	90	69	50
620-10573-5	2023-FD-01	78	68	48
LCS 620-21036/2-A	Lab Control Sample	68	55	35
LCS 620-21080/2-A	Lab Control Sample	70	67	80
LCSD 620-21036/3-A	Lab Control Sample Dup	75	61	64
LCSD 620-21080/3-A	Lab Control Sample Dup	72	62	79
MB 620-21036/1-A	Method Blank	50	47	20 S1-
MB 620-21080/1-A	Method Blank	80	65	81

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14
BePd12 = Benzo(e)pyrene-d12

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10573-1	2023-MW-03	60	40	60	24	63	63
620-10573-2	2023-MW-04	93	43	97	24	90	84
620-10573-2 MS	2023-MW-04	55	41	57	31	59	58
620-10573-2 MSD	2023-MW-04	58	41	61	30	64	64
620-10573-3	2023-MW-06	83	40	88	22	84	80
620-10573-4	2023-MW-05	83	39	85	22	81	73
620-10573-5	2023-FD-01	71	33	73	19	72	72
LCS 620-21036/13-A	Lab Control Sample	69	59	67	41	82	70
LCS 620-21080/4-A	Lab Control Sample	52	35	54	22	70	77
LCSD 620-21036/14-A	Lab Control Sample Dup	65	54	70	38	81	70
LCSD 620-21080/5-A	Lab Control Sample Dup	63	46	63	31	79	69
MB 620-21036/1-A	Method Blank	54	60	57	43	63	66
MB 620-21080/1-A	Method Blank	67	55	69	36	75	68

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		25DBTf1	25DBTp1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10573-1	2023-MW-03	85	86
620-10573-2	2023-MW-04	88	88
620-10573-2 MS	2023-MW-04	85	84
620-10573-2 MSD	2023-MW-04	91	91
620-10573-3	2023-MW-06	89	89
620-10573-4	2023-MW-05	87	88
620-10573-5	2023-FD-01	86	85
620-10573-6	2023-TB-01	81	81
LCS 620-21124/3	Lab Control Sample	86	88
LCSD 620-21124/4	Lab Control Sample Dup	88	89
MB 620-21124/6	Method Blank	88	88

Surrogate Legend

25DBTf = 2,5-Dibromotoluene (fid)
25DBTp = 2,5-Dibromotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10573-1	2023-MW-03	50	50	69	58
620-10573-2	2023-MW-04	45	37	377 S1+	55 p

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10573-2 MS	2023-MW-04	44	42	48	52
620-10573-2 MSD	2023-MW-04	60	58	86	62
620-10573-3	2023-MW-06	60	60	70	59
620-10573-4	2023-MW-05	33	32	44	38
620-10573-5	2023-FD-01	63	58	69	66
LCS 620-21137/2-A	Lab Control Sample	54	52	84	67
LCSD 620-21137/3-A	Lab Control Sample Dup	58	56	95	75
MB 620-21137/1-A	Method Blank	92	92	99	81

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21052/7
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 13:24	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 13:24	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 13:24	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 13:24	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 13:24	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 13:24	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 13:24	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 13:24	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 13:24	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 13:24	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 13:24	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 13:24	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 13:24	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 13:24	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 13:24	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 13:24	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 13:24	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 13:24	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 13:24	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 13:24	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 13:24	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 13:24	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 13:24	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 13:24	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 13:24	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 13:24	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 13:24	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 13:24	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 13:24	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 13:24	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 13:24	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 13:24	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 13:24	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 13:24	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 13:24	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 13:24	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 13:24	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 13:24	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 13:24	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 13:24	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 13:24	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 13:24	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 13:24	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 13:24	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 13:24	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 13:24	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 13:24	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21052/7
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 13:24	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 13:24	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 13:24	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 13:24	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 13:24	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 13:24	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 13:24	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 13:24	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 13:24	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 13:24	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 13:24	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 13:24	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 13:24	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 13:24	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 13:24	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 13:24	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 13:24	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 13:24	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 13:24	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 13:24	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 13:24	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 13:24	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 13:24	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 13:24	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 13:24	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 13:24	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 13:24	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 13:24	1
Ethanol	ND		200	9.08	ug/L			04/04/23 13:24	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 13:24	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/04/23 13:24*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/04/23 13:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/04/23 13:24*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/04/23 13:24*	*1*

Lab Sample ID: LCS 620-21052/4
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.15		ug/L		91	70 - 130
Acetone	20.0	21.73		ug/L		109	70 - 130
Acrylonitrile	20.0	18.57		ug/L		93	70 - 130
Benzene	20.0	19.39		ug/L		97	70 - 130
Bromobenzene	20.0	20.72		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21052/4
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	18.81		ug/L		94	70 - 130
Bromodichloromethane	20.0	18.23		ug/L		91	70 - 130
Bromoform	20.0	21.28		ug/L		106	70 - 130
Bromomethane	20.0	16.33		ug/L		82	70 - 130
2-Butanone (MEK)	20.0	21.63		ug/L		108	70 - 130
n-Butylbenzene	20.0	21.50		ug/L		107	70 - 130
sec-Butylbenzene	20.0	20.15		ug/L		101	70 - 130
tert-Butylbenzene	20.0	18.55		ug/L		93	70 - 130
Carbon disulfide	20.0	18.32		ug/L		92	70 - 130
Carbon tetrachloride	20.0	18.34		ug/L		92	70 - 130
Chlorobenzene	20.0	20.36		ug/L		102	70 - 130
Chloroethane	20.0	20.13		ug/L		101	70 - 130
Chloroform	20.0	18.32		ug/L		92	70 - 130
Chloromethane	20.0	20.36		ug/L		102	70 - 130
2-Chlorotoluene	20.0	23.06		ug/L		115	70 - 130
4-Chlorotoluene	20.0	23.40		ug/L		117	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	23.03		ug/L		115	70 - 130
Dibromochloromethane	20.0	18.44		ug/L		92	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.45		ug/L		97	70 - 130
Dibromomethane	20.0	18.84		ug/L		94	70 - 130
1,2-Dichlorobenzene	20.0	23.19		ug/L		116	70 - 130
1,3-Dichlorobenzene	20.0	22.48		ug/L		112	70 - 130
1,4-Dichlorobenzene	20.0	20.85		ug/L		104	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	24.06		ug/L		120	70 - 130
1,1-Dichloroethane	20.0	18.72		ug/L		94	70 - 130
1,2-Dichloroethane	20.0	18.98		ug/L		95	70 - 130
1,1-Dichloroethene	20.0	18.48		ug/L		92	70 - 130
cis-1,2-Dichloroethene	20.0	18.03		ug/L		90	70 - 130
trans-1,2-Dichloroethene	20.0	18.54		ug/L		93	70 - 130
1,2-Dichloropropane	20.0	19.03		ug/L		95	70 - 130
1,3-Dichloropropane	20.0	19.57		ug/L		98	70 - 130
2,2-Dichloropropane	20.0	18.23		ug/L		91	70 - 130
1,1-Dichloropropene	20.0	20.09		ug/L		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.12		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	21.02		ug/L		105	70 - 130
Ethylbenzene	20.0	21.76		ug/L		109	70 - 130
Hexachlorobutadiene	20.0	24.62		ug/L		123	70 - 130
2-Hexanone (MBK)	20.0	18.76		ug/L		94	70 - 130
Isopropylbenzene	20.0	20.58		ug/L		103	70 - 130
4-Isopropyltoluene	20.0	21.88		ug/L		109	70 - 130
Methyl tert-butyl ether	20.0	19.92		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.47		ug/L		102	70 - 130
Methylene Chloride	20.0	18.13		ug/L		91	70 - 130
Naphthalene	20.0	23.20		ug/L		116	70 - 130
N-Propylbenzene	20.0	22.89		ug/L		114	70 - 130
Styrene	20.0	21.08		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.39		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.35		ug/L		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21052/4
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	20.0	18.91		ug/L		95	70 - 130
Toluene	20.0	18.94		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	20.0	25.03		ug/L		125	70 - 130
1,2,4-Trichlorobenzene	20.0	21.27		ug/L		106	70 - 130
1,3,5-Trichlorobenzene	20.0	24.06		ug/L		120	70 - 130
1,1,1-Trichloroethane	20.0	18.40		ug/L		92	70 - 130
1,1,2-Trichloroethane	20.0	18.87		ug/L		94	70 - 130
Trichloroethene	20.0	18.49		ug/L		92	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	18.15		ug/L		91	70 - 130
1,2,3-Trichloropropane	20.0	21.74		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	20.0	20.71		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	20.0	20.74		ug/L		104	70 - 130
Vinyl chloride	20.0	19.12		ug/L		96	70 - 130
m,p-Xylene	20.0	23.40		ug/L		117	70 - 130
o-Xylene	20.0	20.51		ug/L		103	70 - 130
Tetrahydrofuran	20.0	19.41		ug/L		97	70 - 130
Ethyl ether	20.0	19.80		ug/L		99	70 - 130
Tert-amyl methyl ether	20.0	19.51		ug/L		98	70 - 130
Ethyl tert-butyl ether	20.0	17.65		ug/L		88	70 - 130
di-Isopropyl ether	20.0	20.24		ug/L		101	70 - 130
tert-Butanol	200	201.1		ug/L		101	70 - 130
1,4-Dioxane	200	184.9		ug/L		92	70 - 130
trans-1,4-Dichloro-2-butene	20.0	16.65		ug/L		83	70 - 130
Ethanol	400	331.9		ug/L		83	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 620-21052/5
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.54		ug/L		88	70 - 130	3	20
Acetone	20.0	18.82		ug/L		94	70 - 130	14	20
Acrylonitrile	20.0	18.37		ug/L		92	70 - 130	1	20
Benzene	20.0	18.86		ug/L		94	70 - 130	3	20
Bromobenzene	20.0	20.58		ug/L		103	70 - 130	1	20
Bromochloromethane	20.0	18.44		ug/L		92	70 - 130	2	20
Bromodichloromethane	20.0	17.65		ug/L		88	70 - 130	3	20
Bromoform	20.0	20.66		ug/L		103	70 - 130	3	20
Bromomethane	20.0	16.41		ug/L		82	70 - 130	0	20
2-Butanone (MEK)	20.0	20.18		ug/L		101	70 - 130	7	20
n-Butylbenzene	20.0	20.69		ug/L		103	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21052/5
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	19.41		ug/L		97	70 - 130	4	20
tert-Butylbenzene	20.0	18.19		ug/L		91	70 - 130	2	20
Carbon disulfide	20.0	17.68		ug/L		88	70 - 130	4	20
Carbon tetrachloride	20.0	17.82		ug/L		89	70 - 130	3	20
Chlorobenzene	20.0	19.85		ug/L		99	70 - 130	3	20
Chloroethane	20.0	18.86		ug/L		94	70 - 130	7	20
Chloroform	20.0	17.80		ug/L		89	70 - 130	3	20
Chloromethane	20.0	19.59		ug/L		98	70 - 130	4	20
2-Chlorotoluene	20.0	22.42		ug/L		112	70 - 130	3	20
4-Chlorotoluene	20.0	22.71		ug/L		114	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	20.0	22.12		ug/L		111	70 - 130	4	20
Dibromochloromethane	20.0	17.82		ug/L		89	70 - 130	3	20
1,2-Dibromoethane (EDB)	20.0	19.03		ug/L		95	70 - 130	2	20
Dibromomethane	20.0	18.10		ug/L		91	70 - 130	4	20
1,2-Dichlorobenzene	20.0	22.49		ug/L		112	70 - 130	3	20
1,3-Dichlorobenzene	20.0	21.84		ug/L		109	70 - 130	3	20
1,4-Dichlorobenzene	20.0	19.79		ug/L		99	70 - 130	5	20
Dichlorodifluoromethane (Freon 12)	20.0	23.63		ug/L		118	70 - 130	2	20
1,1-Dichloroethane	20.0	18.34		ug/L		92	70 - 130	2	20
1,2-Dichloroethane	20.0	18.71		ug/L		94	70 - 130	1	20
1,1-Dichloroethene	20.0	18.33		ug/L		92	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	17.75		ug/L		89	70 - 130	2	20
trans-1,2-Dichloroethene	20.0	17.97		ug/L		90	70 - 130	3	20
1,2-Dichloropropane	20.0	18.62		ug/L		93	70 - 130	2	20
1,3-Dichloropropane	20.0	19.02		ug/L		95	70 - 130	3	20
2,2-Dichloropropane	20.0	17.74		ug/L		89	70 - 130	3	20
1,1-Dichloropropene	20.0	19.87		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene	20.0	18.86		ug/L		94	70 - 130	1	20
trans-1,3-Dichloropropene	20.0	20.57		ug/L		103	70 - 130	2	20
Ethylbenzene	20.0	21.24		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	20.0	23.40		ug/L		117	70 - 130	5	20
2-Hexanone (MBK)	20.0	18.59		ug/L		93	70 - 130	1	20
Isopropylbenzene	20.0	20.24		ug/L		101	70 - 130	2	20
4-Isopropyltoluene	20.0	21.01		ug/L		105	70 - 130	4	20
Methyl tert-butyl ether	20.0	19.67		ug/L		98	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	20.36		ug/L		102	70 - 130	1	20
Methylene Chloride	20.0	17.74		ug/L		89	70 - 130	2	20
Naphthalene	20.0	22.28		ug/L		111	70 - 130	4	20
N-Propylbenzene	20.0	22.21		ug/L		111	70 - 130	3	20
Styrene	20.0	20.47		ug/L		102	70 - 130	3	20
1,1,1,2-Tetrachloroethane	20.0	19.79		ug/L		99	70 - 130	3	20
1,1,2,2-Tetrachloroethane	20.0	20.67		ug/L		103	70 - 130	3	20
Tetrachloroethene	20.0	18.53		ug/L		93	70 - 130	2	20
Toluene	20.0	18.32		ug/L		92	70 - 130	3	20
1,2,3-Trichlorobenzene	20.0	23.82		ug/L		119	70 - 130	5	20
1,2,4-Trichlorobenzene	20.0	20.65		ug/L		103	70 - 130	3	20
1,3,5-Trichlorobenzene	20.0	22.84		ug/L		114	70 - 130	5	20
1,1,1-Trichloroethane	20.0	17.91		ug/L		90	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21052/5
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	20.0	18.19		ug/L		91	70 - 130	4	20
Trichloroethene	20.0	17.88		ug/L		89	70 - 130	3	20
Trichlorofluoromethane (Freon 11)	20.0	17.58		ug/L		88	70 - 130	3	20
1,2,3-Trichloropropane	20.0	20.97		ug/L		105	70 - 130	4	20
1,2,4-Trimethylbenzene	20.0	20.08		ug/L		100	70 - 130	3	20
1,3,5-Trimethylbenzene	20.0	20.15		ug/L		101	70 - 130	3	20
Vinyl chloride	20.0	19.06		ug/L		95	70 - 130	0	20
m,p-Xylene	20.0	22.85		ug/L		114	70 - 130	2	20
o-Xylene	20.0	20.27		ug/L		101	70 - 130	1	20
Tetrahydrofuran	20.0	19.74		ug/L		99	70 - 130	2	20
Ethyl ether	20.0	19.37		ug/L		97	70 - 130	2	20
Tert-amyl methyl ether	20.0	19.24		ug/L		96	70 - 130	1	20
Ethyl tert-butyl ether	20.0	17.70		ug/L		88	70 - 130	0	20
di-Isopropyl ether	20.0	20.11		ug/L		101	70 - 130	1	20
tert-Butanol	200	200.9		ug/L		100	70 - 130	0	20
1,4-Dioxane	200	184.4		ug/L		92	70 - 130	0	20
trans-1,4-Dichloro-2-butene	20.0	15.44		ug/L		77	70 - 130	8	20
Ethanol	400	303.6		ug/L		76	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 13:46	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 13:46	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 13:46	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 13:46	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 13:46	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 13:46	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 13:46	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 13:46	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 13:46	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 13:46	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 13:46	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 13:46	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 13:46	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 13:46	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 13:46	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 13:46	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 13:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.00	0.297	ug/L			04/04/23 13:46	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 13:46	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 13:46	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 13:46	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 13:46	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 13:46	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 13:46	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 13:46	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 13:46	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 13:46	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 13:46	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 13:46	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 13:46	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 13:46	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 13:46	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 13:46	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 13:46	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 13:46	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 13:46	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 13:46	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 13:46	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 13:46	1
Hexachlorobutadiene	0.2954	J	1.00	0.236	ug/L			04/04/23 13:46	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 13:46	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 13:46	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 13:46	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 13:46	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 13:46	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 13:46	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 13:46	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 13:46	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 13:46	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 13:46	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 13:46	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 13:46	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 13:46	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 13:46	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 13:46	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 13:46	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 13:46	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 13:46	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 13:46	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 13:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 13:46	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 13:46	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 13:46	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 13:46	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 13:46	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 13:46	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 13:46	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 13:46	1
Ethanol	ND		200	9.08	ug/L			04/04/23 13:46	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/04/23 13:46*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 13:46*	*1*
Dibromofluoromethane (Surr)	*128*		*70 - 130*		*04/04/23 13:46*	*1*

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.82		ug/L		94	70 - 130
Acetone	20.0	16.28		ug/L		81	70 - 130
Acrylonitrile	20.0	17.49		ug/L		87	70 - 130
Benzene	20.0	19.86		ug/L		99	70 - 130
Bromobenzene	20.0	19.22		ug/L		96	70 - 130
Bromochloromethane	20.0	23.80		ug/L		119	70 - 130
Bromodichloromethane	20.0	22.21		ug/L		111	70 - 130
Bromoform	20.0	22.19		ug/L		111	70 - 130
Bromomethane	20.0	25.77		ug/L		129	70 - 130
2-Butanone (MEK)	20.0	13.01	*-	ug/L		65	70 - 130
n-Butylbenzene	20.0	21.15		ug/L		106	70 - 130
sec-Butylbenzene	20.0	21.18		ug/L		106	70 - 130
tert-Butylbenzene	20.0	19.21		ug/L		96	70 - 130
Carbon disulfide	20.0	19.74		ug/L		99	70 - 130
Carbon tetrachloride	20.0	20.47		ug/L		102	70 - 130
Chlorobenzene	20.0	22.08		ug/L		110	70 - 130
Chloroethane	20.0	17.58		ug/L		88	70 - 130
Chloroform	20.0	20.49		ug/L		102	70 - 130
Chloromethane	20.0	19.69		ug/L		98	70 - 130
2-Chlorotoluene	20.0	21.06		ug/L		105	70 - 130
4-Chlorotoluene	20.0	21.03		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	21.43		ug/L		107	70 - 130
Dibromochloromethane	20.0	22.01		ug/L		110	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	20.14		ug/L		101	70 - 130
Dibromomethane	20.0	24.55		ug/L		123	70 - 130
1,2-Dichlorobenzene	20.0	23.81		ug/L		119	70 - 130
1,3-Dichlorobenzene	20.0	19.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	21.85		ug/L		109	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.59	*-	ug/L		63	70 - 130
1,1-Dichloroethane	20.0	18.20		ug/L		91	70 - 130
1,2-Dichloroethane	20.0	23.32		ug/L		117	70 - 130
1,1-Dichloroethene	20.0	18.02		ug/L		90	70 - 130
cis-1,2-Dichloroethene	20.0	21.80		ug/L		109	70 - 130
trans-1,2-Dichloroethene	20.0	19.35		ug/L		97	70 - 130
1,2-Dichloropropane	20.0	21.69		ug/L		108	70 - 130
1,3-Dichloropropane	20.0	19.01		ug/L		95	70 - 130
2,2-Dichloropropane	20.0	17.94		ug/L		90	70 - 130
1,1-Dichloropropene	20.0	17.55		ug/L		88	70 - 130
cis-1,3-Dichloropropene	20.0	19.57		ug/L		98	70 - 130
trans-1,3-Dichloropropene	20.0	20.59		ug/L		103	70 - 130
Ethylbenzene	20.0	21.90		ug/L		109	70 - 130
Hexachlorobutadiene	20.0	19.79		ug/L		99	70 - 130
2-Hexanone (MBK)	20.0	16.55		ug/L		83	70 - 130
Isopropylbenzene	20.0	19.59		ug/L		98	70 - 130
4-Isopropyltoluene	20.0	21.47		ug/L		107	70 - 130
Methyl tert-butyl ether	20.0	16.76		ug/L		84	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.14		ug/L		96	70 - 130
Methylene Chloride	20.0	18.32		ug/L		92	70 - 130
Naphthalene	20.0	17.58		ug/L		88	70 - 130
N-Propylbenzene	20.0	20.08		ug/L		100	70 - 130
Styrene	20.0	19.99		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	20.0	21.89		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.40		ug/L		112	70 - 130
Tetrachloroethene	20.0	18.11		ug/L		91	70 - 130
Toluene	20.0	19.13		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	20.0	18.64		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	20.0	18.05		ug/L		90	70 - 130
1,3,5-Trichlorobenzene	20.0	20.68		ug/L		103	70 - 130
1,1,1-Trichloroethane	20.0	18.92		ug/L		95	70 - 130
1,1,2-Trichloroethane	20.0	21.21		ug/L		106	70 - 130
Trichloroethene	20.0	17.83		ug/L		89	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	21.08		ug/L		105	70 - 130
1,2,3-Trichloropropane	20.0	19.67		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	20.0	21.82		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	20.0	21.64		ug/L		108	70 - 130
Vinyl chloride	20.0	18.38		ug/L		92	70 - 130
m,p-Xylene	40.0	47.21		ug/L		118	70 - 130
o-Xylene	20.0	22.60		ug/L		113	70 - 130
Tetrahydrofuran	20.0	16.39		ug/L		82	70 - 130
Ethyl ether	20.0	19.77		ug/L		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	20.0	15.79		ug/L		79	70 - 130
Ethyl tert-butyl ether	20.0	17.64		ug/L		88	70 - 130
di-Isopropyl ether	20.0	19.04		ug/L		95	70 - 130
tert-Butanol	200	162.1		ug/L		81	70 - 130
1,4-Dioxane	200	117.6	*-	ug/L		59	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.23		ug/L		101	70 - 130
Ethanol	400	274.5	*-	ug/L		69	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.37		ug/L		92	70 - 130	2	20
Acetone	20.0	15.64		ug/L		78	70 - 130	4	20
Acrylonitrile	20.0	17.62		ug/L		88	70 - 130	1	20
Benzene	20.0	19.57		ug/L		98	70 - 130	1	20
Bromobenzene	20.0	19.44		ug/L		97	70 - 130	1	20
Bromochloromethane	20.0	21.50		ug/L		108	70 - 130	10	20
Bromodichloromethane	20.0	21.62		ug/L		108	70 - 130	3	20
Bromoform	20.0	22.61		ug/L		113	70 - 130	2	20
Bromomethane	20.0	25.19		ug/L		126	70 - 130	2	20
2-Butanone (MEK)	20.0	12.56	*-	ug/L		63	70 - 130	3	20
n-Butylbenzene	20.0	21.32		ug/L		107	70 - 130	1	20
sec-Butylbenzene	20.0	20.95		ug/L		105	70 - 130	1	20
tert-Butylbenzene	20.0	19.08		ug/L		95	70 - 130	1	20
Carbon disulfide	20.0	19.06		ug/L		95	70 - 130	4	20
Carbon tetrachloride	20.0	20.39		ug/L		102	70 - 130	0	20
Chlorobenzene	20.0	22.14		ug/L		111	70 - 130	0	20
Chloroethane	20.0	18.44		ug/L		92	70 - 130	5	20
Chloroform	20.0	20.37		ug/L		102	70 - 130	1	20
Chloromethane	20.0	19.46		ug/L		97	70 - 130	1	20
2-Chlorotoluene	20.0	21.28		ug/L		106	70 - 130	1	20
4-Chlorotoluene	20.0	21.05		ug/L		105	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	20.0	22.17		ug/L		111	70 - 130	3	20
Dibromochloromethane	20.0	21.81		ug/L		109	70 - 130	1	20
1,2-Dibromoethane (EDB)	20.0	20.17		ug/L		101	70 - 130	0	20
Dibromomethane	20.0	25.20		ug/L		126	70 - 130	3	20
1,2-Dichlorobenzene	20.0	23.92		ug/L		120	70 - 130	0	20
1,3-Dichlorobenzene	20.0	19.98		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	20.0	21.79		ug/L		109	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	20.0	12.44	*-	ug/L		62	70 - 130	1	20
1,1-Dichloroethane	20.0	18.04		ug/L		90	70 - 130	1	20
1,2-Dichloroethane	20.0	23.31		ug/L		117	70 - 130	0	20
1,1-Dichloroethene	20.0	17.89		ug/L		89	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	19.98		ug/L		100	70 - 130	9	20
trans-1,2-Dichloroethene	20.0	20.44		ug/L		102	70 - 130	5	20
1,2-Dichloropropane	20.0	21.61		ug/L		108	70 - 130	0	20
1,3-Dichloropropane	20.0	19.16		ug/L		96	70 - 130	1	20
2,2-Dichloropropane	20.0	17.83		ug/L		89	70 - 130	1	20
1,1-Dichloropropene	20.0	17.60		ug/L		88	70 - 130	0	20
cis-1,3-Dichloropropene	20.0	19.65		ug/L		98	70 - 130	0	20
trans-1,3-Dichloropropene	20.0	20.76		ug/L		104	70 - 130	1	20
Ethylbenzene	20.0	22.08		ug/L		110	70 - 130	1	20
Hexachlorobutadiene	20.0	19.95		ug/L		100	70 - 130	1	20
2-Hexanone (MBK)	20.0	16.30		ug/L		82	70 - 130	2	20
Isopropylbenzene	20.0	19.63		ug/L		98	70 - 130	0	20
4-Isopropyltoluene	20.0	21.65		ug/L		108	70 - 130	1	20
Methyl tert-butyl ether	20.0	16.71		ug/L		84	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	20.0	19.41		ug/L		97	70 - 130	1	20
Methylene Chloride	20.0	19.45		ug/L		97	70 - 130	6	20
Naphthalene	20.0	17.61		ug/L		88	70 - 130	0	20
N-Propylbenzene	20.0	20.07		ug/L		100	70 - 130	0	20
Styrene	20.0	20.26		ug/L		101	70 - 130	1	20
1,1,1,2-Tetrachloroethane	20.0	22.05		ug/L		110	70 - 130	1	20
1,1,2,2-Tetrachloroethane	20.0	22.63		ug/L		113	70 - 130	1	20
Tetrachloroethene	20.0	17.85		ug/L		89	70 - 130	1	20
Toluene	20.0	19.01		ug/L		95	70 - 130	1	20
1,2,3-Trichlorobenzene	20.0	18.85		ug/L		94	70 - 130	1	20
1,2,4-Trichlorobenzene	20.0	18.28		ug/L		91	70 - 130	1	20
1,3,5-Trichlorobenzene	20.0	21.07		ug/L		105	70 - 130	2	20
1,1,1-Trichloroethane	20.0	18.84		ug/L		94	70 - 130	0	20
1,1,2-Trichloroethane	20.0	20.99		ug/L		105	70 - 130	1	20
Trichloroethene	20.0	17.36		ug/L		87	70 - 130	3	20
Trichlorofluoromethane (Freon 11)	20.0	20.83		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane	20.0	19.94		ug/L		100	70 - 130	1	20
1,2,4-Trimethylbenzene	20.0	21.99		ug/L		110	70 - 130	1	20
1,3,5-Trimethylbenzene	20.0	21.63		ug/L		108	70 - 130	0	20
Vinyl chloride	20.0	18.49		ug/L		92	70 - 130	1	20
m,p-Xylene	40.0	47.69		ug/L		119	70 - 130	1	20
o-Xylene	20.0	22.86		ug/L		114	70 - 130	1	20
Tetrahydrofuran	20.0	19.27		ug/L		96	70 - 130	16	20
Ethyl ether	20.0	19.81		ug/L		99	70 - 130	0	20
Tert-amyl methyl ether	20.0	15.57		ug/L		78	70 - 130	1	20
Ethyl tert-butyl ether	20.0	17.63		ug/L		88	70 - 130	0	20
di-Isopropyl ether	20.0	19.11		ug/L		96	70 - 130	0	20
tert-Butanol	200	157.3		ug/L		79	70 - 130	3	20
1,4-Dioxane	200	111.3	*-	ug/L		56	70 - 130	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			20.0	20.78		ug/L		104	70 - 130	3	20
Ethanol			400	328.7		ug/L		82	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: MB 620-21085/7
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/05/23 13:06	1
Acetone	ND		10.0	0.902	ug/L			04/05/23 13:06	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/05/23 13:06	1
Benzene	ND		1.00	0.250	ug/L			04/05/23 13:06	1
Bromobenzene	ND		1.00	0.403	ug/L			04/05/23 13:06	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/05/23 13:06	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/05/23 13:06	1
Bromoform	ND		1.00	0.454	ug/L			04/05/23 13:06	1
Bromomethane	ND		2.00	0.627	ug/L			04/05/23 13:06	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/05/23 13:06	1
n-Butylbenzene	0.6185	J	1.00	0.450	ug/L			04/05/23 13:06	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/05/23 13:06	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/05/23 13:06	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/05/23 13:06	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/05/23 13:06	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/05/23 13:06	1
Chloroethane	ND		2.00	0.405	ug/L			04/05/23 13:06	1
Chloroform	ND		1.00	0.297	ug/L			04/05/23 13:06	1
Chloromethane	ND		2.00	0.485	ug/L			04/05/23 13:06	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/05/23 13:06	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/05/23 13:06	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/05/23 13:06	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/05/23 13:06	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/05/23 13:06	1
Dibromomethane	ND		1.00	0.364	ug/L			04/05/23 13:06	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/05/23 13:06	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/05/23 13:06	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/05/23 13:06	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/05/23 13:06	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/05/23 13:06	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/05/23 13:06	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/05/23 13:06	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/05/23 13:06	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/05/23 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21085/7
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/05/23 13:06	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/05/23 13:06	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/05/23 13:06	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/05/23 13:06	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/05/23 13:06	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/05/23 13:06	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/05/23 13:06	1
Hexachlorobutadiene	0.3338	J	1.00	0.236	ug/L			04/05/23 13:06	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/05/23 13:06	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/05/23 13:06	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/05/23 13:06	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/05/23 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/05/23 13:06	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/05/23 13:06	1
Naphthalene	ND		2.00	0.696	ug/L			04/05/23 13:06	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/05/23 13:06	1
Styrene	ND		1.00	0.419	ug/L			04/05/23 13:06	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/05/23 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/05/23 13:06	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/05/23 13:06	1
Toluene	ND		1.00	0.283	ug/L			04/05/23 13:06	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/05/23 13:06	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/05/23 13:06	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/05/23 13:06	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/05/23 13:06	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/05/23 13:06	1
Trichloroethene	ND		1.00	0.364	ug/L			04/05/23 13:06	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/05/23 13:06	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/05/23 13:06	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/05/23 13:06	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/05/23 13:06	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/05/23 13:06	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/05/23 13:06	1
o-Xylene	ND		1.00	0.428	ug/L			04/05/23 13:06	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/05/23 13:06	1
Ethyl ether	ND		1.00	0.421	ug/L			04/05/23 13:06	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/05/23 13:06	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/05/23 13:06	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/05/23 13:06	1
tert-Butanol	ND		10.0	8.52	ug/L			04/05/23 13:06	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/05/23 13:06	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/05/23 13:06	1
Ethanol	ND		200	9.08	ug/L			04/05/23 13:06	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/05/23 13:06	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/05/23 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/05/23 13:06*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21085/7
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/05/23 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*		*04/05/23 13:06*	*1*
Dibromofluoromethane (Surr)	*129*		*70 - 130*		*04/05/23 13:06*	*1*

Lab Sample ID: LCS 620-21085/4
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	19.29		ug/L		96	70 - 130
Acetone	20.0	15.17		ug/L		76	70 - 130
Acrylonitrile	20.0	17.48		ug/L		87	70 - 130
Benzene	20.0	20.57		ug/L		103	70 - 130
Bromobenzene	20.0	20.07		ug/L		100	70 - 130
Bromochloromethane	20.0	22.69		ug/L		113	70 - 130
Bromodichloromethane	20.0	22.82		ug/L		114	70 - 130
Bromoform	20.0	23.18		ug/L		116	70 - 130
Bromomethane	20.0	26.65	*+	ug/L		133	70 - 130
2-Butanone (MEK)	20.0	23.16		ug/L		116	70 - 130
n-Butylbenzene	20.0	22.10		ug/L		111	70 - 130
sec-Butylbenzene	20.0	22.13		ug/L		111	70 - 130
tert-Butylbenzene	20.0	19.78		ug/L		99	70 - 130
Carbon disulfide	20.0	20.27		ug/L		101	70 - 130
Carbon tetrachloride	20.0	21.52		ug/L		108	70 - 130
Chlorobenzene	20.0	22.77		ug/L		114	70 - 130
Chloroethane	20.0	19.11		ug/L		96	70 - 130
Chloroform	20.0	21.51		ug/L		108	70 - 130
Chloromethane	20.0	20.15		ug/L		101	70 - 130
2-Chlorotoluene	20.0	22.00		ug/L		110	70 - 130
4-Chlorotoluene	20.0	21.80		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	23.50		ug/L		117	70 - 130
Dibromochloromethane	20.0	22.78		ug/L		114	70 - 130
1,2-Dibromoethane (EDB)	20.0	20.80		ug/L		104	70 - 130
Dibromomethane	20.0	25.81		ug/L		129	70 - 130
1,2-Dichlorobenzene	20.0	24.67		ug/L		123	70 - 130
1,3-Dichlorobenzene	20.0	20.71		ug/L		104	70 - 130
1,4-Dichlorobenzene	20.0	22.63		ug/L		113	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.37	*-	ug/L		62	70 - 130
1,1-Dichloroethane	20.0	19.00		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	22.96		ug/L		115	70 - 130
1,1-Dichloroethene	20.0	20.39		ug/L		102	70 - 130
cis-1,2-Dichloroethene	20.0	19.88		ug/L		99	70 - 130
trans-1,2-Dichloroethene	20.0	21.34		ug/L		107	70 - 130
1,2-Dichloropropane	20.0	22.72		ug/L		114	70 - 130
1,3-Dichloropropane	20.0	19.88		ug/L		99	70 - 130
2,2-Dichloropropane	20.0	18.15		ug/L		91	70 - 130
1,1-Dichloropropene	20.0	18.55		ug/L		93	70 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21085/4
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	20.0	20.34		ug/L		102	70 - 130
trans-1,3-Dichloropropene	20.0	21.02		ug/L		105	70 - 130
Ethylbenzene	20.0	22.98		ug/L		115	70 - 130
Hexachlorobutadiene	20.0	20.50		ug/L		103	70 - 130
2-Hexanone (MBK)	20.0	16.77		ug/L		84	70 - 130
Isopropylbenzene	20.0	20.50		ug/L		103	70 - 130
4-Isopropyltoluene	20.0	22.50		ug/L		113	70 - 130
Methyl tert-butyl ether	20.0	16.96		ug/L		85	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.30		ug/L		96	70 - 130
Methylene Chloride	20.0	18.24		ug/L		91	70 - 130
Naphthalene	20.0	18.31		ug/L		92	70 - 130
N-Propylbenzene	20.0	21.09		ug/L		105	70 - 130
Styrene	20.0	21.14		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	20.0	22.76		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	20.0	23.33		ug/L		117	70 - 130
Tetrachloroethene	20.0	18.59		ug/L		93	70 - 130
Toluene	20.0	19.91		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	20.0	19.44		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	20.0	18.72		ug/L		94	70 - 130
1,3,5-Trichlorobenzene	20.0	21.63		ug/L		108	70 - 130
1,1,1-Trichloroethane	20.0	19.68		ug/L		98	70 - 130
1,1,2-Trichloroethane	20.0	21.73		ug/L		109	70 - 130
Trichloroethene	20.0	18.60		ug/L		93	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	21.57		ug/L		108	70 - 130
1,2,3-Trichloropropane	20.0	20.80		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	20.0	22.88		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	20.0	22.44		ug/L		112	70 - 130
Vinyl chloride	20.0	19.51		ug/L		98	70 - 130
m,p-Xylene	40.0	49.18		ug/L		123	70 - 130
o-Xylene	20.0	23.59		ug/L		118	70 - 130
Tetrahydrofuran	20.0	15.44		ug/L		77	70 - 130
Ethyl ether	20.0	20.58		ug/L		103	70 - 130
Tert-amyl methyl ether	20.0	15.83		ug/L		79	70 - 130
Ethyl tert-butyl ether	20.0	18.10		ug/L		91	70 - 130
di-Isopropyl ether	20.0	19.63		ug/L		98	70 - 130
tert-Butanol	200	165.7		ug/L		83	70 - 130
1,4-Dioxane	200	117.1	*-	ug/L		59	70 - 130
trans-1,4-Dichloro-2-butene	20.0	21.03		ug/L		105	70 - 130
Ethanol	400	328.6		ug/L		82	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 130*
Dibromofluoromethane (Surr)	*121*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21085/5
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.76		ug/L		94	70 - 130	3	20
Acetone	20.0	14.61		ug/L		73	70 - 130	4	20
Acrylonitrile	20.0	17.96		ug/L		90	70 - 130	3	20
Benzene	20.0	19.76		ug/L		99	70 - 130	4	20
Bromobenzene	20.0	20.02		ug/L		100	70 - 130	0	20
Bromochloromethane	20.0	20.91		ug/L		105	70 - 130	8	20
Bromodichloromethane	20.0	22.16		ug/L		111	70 - 130	3	20
Bromoform	20.0	22.85		ug/L		114	70 - 130	1	20
Bromomethane	20.0	25.79		ug/L		129	70 - 130	3	20
2-Butanone (MEK)	20.0	21.56		ug/L		108	70 - 130	7	20
n-Butylbenzene	20.0	21.90		ug/L		109	70 - 130	1	20
sec-Butylbenzene	20.0	21.69		ug/L		108	70 - 130	2	20
tert-Butylbenzene	20.0	19.20		ug/L		96	70 - 130	3	20
Carbon disulfide	20.0	19.94		ug/L		100	70 - 130	2	20
Carbon tetrachloride	20.0	20.72		ug/L		104	70 - 130	4	20
Chlorobenzene	20.0	22.56		ug/L		113	70 - 130	1	20
Chloroethane	20.0	19.17		ug/L		96	70 - 130	0	20
Chloroform	20.0	20.85		ug/L		104	70 - 130	3	20
Chloromethane	20.0	19.88		ug/L		99	70 - 130	1	20
2-Chlorotoluene	20.0	21.62		ug/L		108	70 - 130	2	20
4-Chlorotoluene	20.0	21.59		ug/L		108	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	20.0	22.90		ug/L		115	70 - 130	3	20
Dibromochloromethane	20.0	21.84		ug/L		109	70 - 130	4	20
1,2-Dibromoethane (EDB)	20.0	19.91		ug/L		100	70 - 130	4	20
Dibromomethane	20.0	26.31	*+	ug/L		132	70 - 130	2	20
1,2-Dichlorobenzene	20.0	24.29		ug/L		121	70 - 130	2	20
1,3-Dichlorobenzene	20.0	20.41		ug/L		102	70 - 130	1	20
1,4-Dichlorobenzene	20.0	22.57		ug/L		113	70 - 130	0	20
Dichlorodifluoromethane (Freon 12)	20.0	12.63	*-	ug/L		63	70 - 130	2	20
1,1-Dichloroethane	20.0	18.75		ug/L		94	70 - 130	1	20
1,2-Dichloroethane	20.0	23.12		ug/L		116	70 - 130	1	20
1,1-Dichloroethene	20.0	16.96		ug/L		85	70 - 130	18	20
cis-1,2-Dichloroethene	20.0	21.99		ug/L		110	70 - 130	10	20
trans-1,2-Dichloroethene	20.0	18.90		ug/L		94	70 - 130	12	20
1,2-Dichloropropane	20.0	22.12		ug/L		111	70 - 130	3	20
1,3-Dichloropropane	20.0	18.93		ug/L		95	70 - 130	5	20
2,2-Dichloropropane	20.0	17.54		ug/L		88	70 - 130	3	20
1,1-Dichloropropene	20.0	18.04		ug/L		90	70 - 130	3	20
cis-1,3-Dichloropropene	20.0	19.65		ug/L		98	70 - 130	3	20
trans-1,3-Dichloropropene	20.0	20.67		ug/L		103	70 - 130	2	20
Ethylbenzene	20.0	22.58		ug/L		113	70 - 130	2	20
Hexachlorobutadiene	20.0	20.42		ug/L		102	70 - 130	0	20
2-Hexanone (MBK)	20.0	15.99		ug/L		80	70 - 130	5	20
Isopropylbenzene	20.0	20.60		ug/L		103	70 - 130	0	20
4-Isopropyltoluene	20.0	22.31		ug/L		112	70 - 130	1	20
Methyl tert-butyl ether	20.0	16.71		ug/L		84	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	19.18		ug/L		96	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21085/5
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			20.0	19.28		ug/L		96	70 - 130	6	20
Naphthalene			20.0	18.29		ug/L		91	70 - 130	0	20
N-Propylbenzene			20.0	20.85		ug/L		104	70 - 130	1	20
Styrene			20.0	21.05		ug/L		105	70 - 130	0	20
1,1,1,2-Tetrachloroethane			20.0	22.46		ug/L		112	70 - 130	1	20
1,1,2,2-Tetrachloroethane			20.0	23.07		ug/L		115	70 - 130	1	20
Tetrachloroethene			20.0	17.88		ug/L		89	70 - 130	4	20
Toluene			20.0	18.99		ug/L		95	70 - 130	5	20
1,2,3-Trichlorobenzene			20.0	19.28		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene			20.0	18.68		ug/L		93	70 - 130	0	20
1,3,5-Trichlorobenzene			20.0	21.64		ug/L		108	70 - 130	0	20
1,1,1-Trichloroethane			20.0	18.87		ug/L		94	70 - 130	4	20
1,1,2-Trichloroethane			20.0	21.07		ug/L		105	70 - 130	3	20
Trichloroethene			20.0	18.02		ug/L		90	70 - 130	3	20
Trichlorofluoromethane (Freon 11)			20.0	20.95		ug/L		105	70 - 130	3	20
1,2,3-Trichloropropane			20.0	20.11		ug/L		101	70 - 130	3	20
1,2,4-Trimethylbenzene			20.0	22.53		ug/L		113	70 - 130	2	20
1,3,5-Trimethylbenzene			20.0	22.31		ug/L		112	70 - 130	1	20
Vinyl chloride			20.0	18.74		ug/L		94	70 - 130	4	20
m,p-Xylene			40.0	48.31		ug/L		121	70 - 130	2	20
o-Xylene			20.0	23.46		ug/L		117	70 - 130	1	20
Tetrahydrofuran			20.0	16.31		ug/L		82	70 - 130	5	20
Ethyl ether			20.0	19.74		ug/L		99	70 - 130	4	20
Tert-amyl methyl ether			20.0	15.59		ug/L		78	70 - 130	2	20
Ethyl tert-butyl ether			20.0	17.91		ug/L		90	70 - 130	1	20
di-Isopropyl ether			20.0	19.19		ug/L		96	70 - 130	2	20
tert-Butanol			200	172.6		ug/L		86	70 - 130	4	20
1,4-Dioxane			200	137.0	*-	ug/L		68	70 - 130	16	20
trans-1,4-Dichloro-2-butene			20.0	20.44		ug/L		102	70 - 130	3	20
Ethanol			400	365.0		ug/L		91	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*
Dibromofluoromethane (Surr)	*119*		*70 - 130*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		20.3	20.46		ug/L		101	70 - 130
Acetone	ND		20.3	15.45		ug/L		76	70 - 130
Acrylonitrile	ND		20.3	18.14		ug/L		89	70 - 130
Benzene	ND		20.3	20.28		ug/L		100	70 - 130
Bromobenzene	ND		20.3	20.10		ug/L		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	ND		20.3	22.27		ug/L		109	70 - 130
Bromodichloromethane	ND		20.3	22.59		ug/L		111	70 - 130
Bromoform	ND		20.3	21.79		ug/L		107	70 - 130
Bromomethane	ND	*+	20.3	19.62		ug/L		96	70 - 130
2-Butanone (MEK)	ND		20.3	21.17		ug/L		104	70 - 130
n-Butylbenzene	ND		20.3	22.95		ug/L		113	70 - 130
sec-Butylbenzene	ND		20.3	23.29		ug/L		114	70 - 130
tert-Butylbenzene	ND		20.3	20.45		ug/L		100	70 - 130
Carbon disulfide	ND		20.3	21.77		ug/L		107	70 - 130
Carbon tetrachloride	ND		20.3	22.84		ug/L		112	70 - 130
Chlorobenzene	ND		20.3	23.35		ug/L		115	70 - 130
Chloroethane	ND		20.3	20.87		ug/L		103	70 - 130
Chloroform	ND		20.3	21.58		ug/L		106	70 - 130
Chloromethane	ND		20.3	19.64		ug/L		97	70 - 130
2-Chlorotoluene	ND		20.3	22.32		ug/L		110	70 - 130
4-Chlorotoluene	ND		20.3	21.98		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	ND		20.3	21.18		ug/L		104	70 - 130
Dibromochloromethane	ND		20.3	21.72		ug/L		107	70 - 130
1,2-Dibromoethane (EDB)	ND		20.3	19.83		ug/L		97	70 - 130
Dibromomethane	ND	*+ F1	20.3	27.05	F1	ug/L		133	70 - 130
1,2-Dichlorobenzene	ND		20.3	24.58		ug/L		121	70 - 130
1,3-Dichlorobenzene	ND		20.3	20.83		ug/L		102	70 - 130
1,4-Dichlorobenzene	ND		20.3	22.67		ug/L		111	70 - 130
Dichlorodifluoromethane (Freon 12)	ND	*- F1	20.3	13.26	F1	ug/L		65	70 - 130
1,1-Dichloroethane	ND		20.3	20.03		ug/L		98	70 - 130
1,2-Dichloroethane	ND		20.3	24.06		ug/L		118	70 - 130
1,1-Dichloroethene	ND		20.3	18.76		ug/L		92	70 - 130
cis-1,2-Dichloroethene	ND		20.3	20.46		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		20.3	19.05		ug/L		94	70 - 130
1,2-Dichloropropane	ND		20.3	22.62		ug/L		111	70 - 130
1,3-Dichloropropane	ND		20.3	19.23		ug/L		95	70 - 130
2,2-Dichloropropane	ND		20.3	18.03		ug/L		89	70 - 130
1,1-Dichloropropene	ND		20.3	18.42		ug/L		91	70 - 130
cis-1,3-Dichloropropene	ND		20.3	18.65		ug/L		92	70 - 130
trans-1,3-Dichloropropene	ND		20.3	20.05		ug/L		99	70 - 130
Ethylbenzene	ND		20.3	23.45		ug/L		115	70 - 130
Hexachlorobutadiene	ND		20.3	20.98		ug/L		103	70 - 130
2-Hexanone (MBK)	ND		20.3	14.45		ug/L		71	70 - 130
Isopropylbenzene	ND		20.3	21.38		ug/L		105	70 - 130
4-Isopropyltoluene	ND		20.3	23.04		ug/L		113	70 - 130
Methyl tert-butyl ether	ND		20.3	15.62		ug/L		77	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		20.3	17.72		ug/L		87	70 - 130
Methylene Chloride	ND		20.3	19.17		ug/L		94	70 - 130
Naphthalene	ND		20.3	17.09		ug/L		84	70 - 130
N-Propylbenzene	ND		20.3	21.80		ug/L		107	70 - 130
Styrene	ND		20.3	20.87		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	ND		20.3	22.71		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.3	22.58		ug/L		111	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	ND		20.3	18.81		ug/L		92	70 - 130
Toluene	ND		20.3	19.97		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	ND		20.3	18.70		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	ND		20.3	18.11		ug/L		89	70 - 130
1,3,5-Trichlorobenzene	ND		20.3	21.25		ug/L		104	70 - 130
1,1,1-Trichloroethane	ND		20.3	19.98		ug/L		98	70 - 130
1,1,2-Trichloroethane	ND		20.3	21.28		ug/L		105	70 - 130
Trichloroethene	ND		20.3	18.96		ug/L		93	70 - 130
Trichlorofluoromethane (Freon 11)	ND		20.3	22.85		ug/L		112	70 - 130
1,2,3-Trichloropropane	ND		20.3	19.37		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	ND		20.3	23.23		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	ND		20.3	23.10		ug/L		114	70 - 130
Vinyl chloride	ND		20.3	20.98		ug/L		103	70 - 130
m,p-Xylene	ND		40.7	50.56		ug/L		124	70 - 130
o-Xylene	ND		20.3	24.01		ug/L		118	70 - 130
Tetrahydrofuran	ND	F1	20.3	15.92		ug/L		78	70 - 130
Ethyl ether	ND		20.3	19.08		ug/L		94	70 - 130
Tert-amyl methyl ether	ND		20.3	14.77		ug/L		73	70 - 130
Ethyl tert-butyl ether	ND		20.3	17.06		ug/L		84	70 - 130
di-Isopropyl ether	ND		20.3	18.76		ug/L		92	70 - 130
tert-Butanol	ND		203	147.4		ug/L		72	70 - 130
1,4-Dioxane	ND	*- F1	203	116.5	F1	ug/L		57	70 - 130
trans-1,4-Dichloro-2-butene	ND		20.3	19.42		ug/L		95	70 - 130
Ethanol	ND	F1 F2	407	281.2	F1	ug/L		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*124*		*70 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		20.3	20.59		ug/L		101	70 - 130	1	20
Acetone	ND		20.3	15.35		ug/L		75	70 - 130	1	20
Acrylonitrile	ND		20.3	16.76		ug/L		82	70 - 130	8	20
Benzene	ND		20.3	20.66		ug/L		102	70 - 130	2	20
Bromobenzene	ND		20.3	20.30		ug/L		100	70 - 130	1	20
Bromochloromethane	ND		20.3	21.58		ug/L		106	70 - 130	3	20
Bromodichloromethane	ND		20.3	22.56		ug/L		111	70 - 130	0	20
Bromoform	ND		20.3	22.21		ug/L		109	70 - 130	2	20
Bromomethane	ND	*+	20.3	20.26		ug/L		100	70 - 130	3	20
2-Butanone (MEK)	ND		20.3	21.51		ug/L		106	70 - 130	2	20
n-Butylbenzene	ND		20.3	23.62		ug/L		116	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	ND		20.3	23.52		ug/L		116	70 - 130	1	20
tert-Butylbenzene	ND		20.3	20.67		ug/L		102	70 - 130	1	20
Carbon disulfide	ND		20.3	21.87		ug/L		107	70 - 130	0	20
Carbon tetrachloride	ND		20.3	23.36		ug/L		115	70 - 130	2	20
Chlorobenzene	ND		20.3	23.59		ug/L		116	70 - 130	1	20
Chloroethane	ND		20.3	19.51		ug/L		96	70 - 130	7	20
Chloroform	ND		20.3	21.65		ug/L		106	70 - 130	0	20
Chloromethane	ND		20.3	19.78		ug/L		97	70 - 130	1	20
2-Chlorotoluene	ND		20.3	22.53		ug/L		111	70 - 130	1	20
4-Chlorotoluene	ND		20.3	22.30		ug/L		110	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		20.3	21.91		ug/L		108	70 - 130	3	20
Dibromochloromethane	ND		20.3	22.15		ug/L		109	70 - 130	2	20
1,2-Dibromoethane (EDB)	ND		20.3	20.24		ug/L		99	70 - 130	2	20
Dibromomethane	ND	*+ F1	20.3	26.48		ug/L		130	70 - 130	2	20
1,2-Dichlorobenzene	ND		20.3	25.16		ug/L		124	70 - 130	2	20
1,3-Dichlorobenzene	ND		20.3	21.03		ug/L		103	70 - 130	1	20
1,4-Dichlorobenzene	ND		20.3	23.27		ug/L		114	70 - 130	3	20
Dichlorodifluoromethane (Freon 12)	ND	*- F1	20.3	13.58	F1	ug/L		67	70 - 130	2	20
1,1-Dichloroethane	ND		20.3	20.12		ug/L		99	70 - 130	0	20
1,2-Dichloroethane	ND		20.3	23.48		ug/L		115	70 - 130	2	20
1,1-Dichloroethene	ND		20.3	20.92		ug/L		103	70 - 130	11	20
cis-1,2-Dichloroethene	ND		20.3	19.86		ug/L		98	70 - 130	3	20
trans-1,2-Dichloroethene	ND		20.3	20.42		ug/L		100	70 - 130	7	20
1,2-Dichloropropane	ND		20.3	22.89		ug/L		112	70 - 130	1	20
1,3-Dichloropropane	ND		20.3	19.40		ug/L		95	70 - 130	1	20
2,2-Dichloropropane	ND		20.3	18.57		ug/L		91	70 - 130	3	20
1,1-Dichloropropene	ND		20.3	19.28		ug/L		95	70 - 130	5	20
cis-1,3-Dichloropropene	ND		20.3	19.71		ug/L		97	70 - 130	6	20
trans-1,3-Dichloropropene	ND		20.3	20.62		ug/L		101	70 - 130	3	20
Ethylbenzene	ND		20.3	23.92		ug/L		118	70 - 130	2	20
Hexachlorobutadiene	ND		20.3	21.92		ug/L		108	70 - 130	4	20
2-Hexanone (MBK)	ND		20.3	15.75		ug/L		77	70 - 130	9	20
Isopropylbenzene	ND		20.3	21.56		ug/L		106	70 - 130	1	20
4-Isopropyltoluene	ND		20.3	24.01		ug/L		118	70 - 130	4	20
Methyl tert-butyl ether	ND		20.3	16.44		ug/L		81	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		20.3	18.16		ug/L		89	70 - 130	2	20
Methylene Chloride	ND		20.3	18.56		ug/L		91	70 - 130	3	20
Naphthalene	ND		20.3	18.18		ug/L		89	70 - 130	6	20
N-Propylbenzene	ND		20.3	22.21		ug/L		109	70 - 130	2	20
Styrene	ND		20.3	21.34		ug/L		105	70 - 130	2	20
1,1,1,2-Tetrachloroethane	ND		20.3	22.97		ug/L		113	70 - 130	1	20
1,1,2,2-Tetrachloroethane	ND		20.3	22.88		ug/L		112	70 - 130	1	20
Tetrachloroethene	ND		20.3	19.29		ug/L		95	70 - 130	2	20
Toluene	ND		20.3	20.41		ug/L		100	70 - 130	2	20
1,2,3-Trichlorobenzene	ND		20.3	19.47		ug/L		96	70 - 130	4	20
1,2,4-Trichlorobenzene	ND		20.3	18.76		ug/L		92	70 - 130	4	20
1,3,5-Trichlorobenzene	ND		20.3	22.31		ug/L		110	70 - 130	5	20
1,1,1-Trichloroethane	ND		20.3	20.20		ug/L		99	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		20.3	21.61		ug/L		106	70 - 130	2	20
Trichloroethene	ND		20.3	18.57		ug/L		91	70 - 130	2	20
Trichlorofluoromethane (Freon 11)	ND		20.3	23.46		ug/L		115	70 - 130	3	20
1,2,3-Trichloropropane	ND		20.3	19.81		ug/L		97	70 - 130	2	20
1,2,4-Trimethylbenzene	ND		20.3	23.64		ug/L		116	70 - 130	2	20
1,3,5-Trimethylbenzene	ND		20.3	23.28		ug/L		114	70 - 130	1	20
Vinyl chloride	ND		20.3	20.84		ug/L		102	70 - 130	1	20
m,p-Xylene	ND		40.7	51.33		ug/L		126	70 - 130	2	20
o-Xylene	ND		20.3	24.16		ug/L		119	70 - 130	1	20
Tetrahydrofuran	ND	F1	20.3	14.09	F1	ug/L		69	70 - 130	12	20
Ethyl ether	ND		20.3	19.93		ug/L		98	70 - 130	4	20
Tert-amyl methyl ether	ND		20.3	15.69		ug/L		77	70 - 130	6	20
Ethyl tert-butyl ether	ND		20.3	17.70		ug/L		87	70 - 130	4	20
di-Isopropyl ether	ND		20.3	19.36		ug/L		95	70 - 130	3	20
tert-Butanol	ND		203	159.8		ug/L		79	70 - 130	8	20
1,4-Dioxane	ND	*- F1	203	132.1	F1	ug/L		65	70 - 130	13	20
trans-1,4-Dichloro-2-butene	ND		20.3	19.86		ug/L		98	70 - 130	2	20
Ethanol	ND	F1 F2	407	372.3	F2	ug/L		91	70 - 130	28	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*
Dibromofluoromethane (Surr)	*123*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21036/1-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/12/23 17:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21036/1-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/12/23 17:37	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/12/23 17:37	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/12/23 17:37	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/12/23 17:37	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/12/23 17:37	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/12/23 17:37	1
Aniline	ND		5.00	1.40	ug/L		04/04/23 08:36	04/12/23 17:37	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/12/23 17:37	1
Benzidine	ND		20.0	1.93	ug/L		04/04/23 08:36	04/12/23 17:37	1
Benzoic acid	5.592	J	10.0	5.56	ug/L		04/04/23 08:36	04/12/23 17:37	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/12/23 17:37	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/12/23 17:37	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/12/23 17:37	1
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/12/23 17:37	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/12/23 17:37	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/12/23 17:37	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/12/23 17:37	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/12/23 17:37	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/12/23 17:37	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/12/23 17:37	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/12/23 17:37	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/12/23 17:37	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/12/23 17:37	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/12/23 17:37	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/12/23 17:37	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/12/23 17:37	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/12/23 17:37	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/12/23 17:37	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/12/23 17:37	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/12/23 17:37	1
Pyridine	ND		5.00	1.34	ug/L		04/04/23 08:36	04/12/23 17:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*30 - 130*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
2-Fluorophenol (Surr)	*60*		*15 - 110*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
Phenol-d5 (Surr)	*43*		*15 - 110*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*04/04/23 08:36*	*04/12/23 17:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21036/1-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21036

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	66		30 - 130	04/04/23 08:36	04/12/23 17:37	1

Lab Sample ID: LCS 620-21036/13-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	20.52		ug/L		51	40 - 140
1,2,4-Trichlorobenzene	40.0	25.79		ug/L		64	40 - 140
1,2-Dichlorobenzene	40.0	26.88		ug/L		67	40 - 140
1,3-Dichlorobenzene	40.0	25.85		ug/L		65	40 - 140
1,4-Dichlorobenzene	40.0	26.03		ug/L		65	40 - 140
2,4,5-Trichlorophenol	40.0	31.42		ug/L		79	30 - 130
2,4,6-Trichlorophenol	40.0	29.65		ug/L		74	30 - 130
2,4-Dichlorophenol	40.0	27.59		ug/L		69	30 - 130
2,4-Dimethylphenol	40.0	27.57		ug/L		69	30 - 130
2,4-Dinitrophenol	40.0	41.83		ug/L		105	30 - 130
2,4-Dinitrotoluene	40.0	30.76		ug/L		77	40 - 140
2,6-Dinitrotoluene	40.0	30.62		ug/L		77	40 - 140
2-Chloronaphthalene	40.0	28.01		ug/L		70	40 - 140
2-Chlorophenol	40.0	30.45		ug/L		76	30 - 130
2-Methylphenol	40.0	29.51		ug/L		74	30 - 130
2-Nitroaniline	40.0	30.54		ug/L		76	40 - 140
2-Nitrophenol	40.0	27.96		ug/L		70	30 - 130
3 & 4 Methylphenol	40.0	28.05		ug/L		70	30 - 130
3,3'-Dichlorobenzidine	40.0	33.52		ug/L		84	40 - 140
3-Nitroaniline	40.0	25.69		ug/L		64	40 - 140
4,6-Dinitro-2-methylphenol	40.0	39.87		ug/L		100	30 - 130
4-Bromophenyl phenyl ether	40.0	29.81		ug/L		75	40 - 140
4-Chloro-3-methylphenol	40.0	29.55		ug/L		74	30 - 130
4-Chloroaniline	40.0	24.93		ug/L		62	40 - 140
4-Chlorophenyl phenyl ether	40.0	29.18		ug/L		73	40 - 140
4-Nitroaniline	40.0	33.91		ug/L		85	40 - 140
4-Nitrophenol	40.0	16.85	J	ug/L		42	30 - 130
Acetophenone	40.0	31.98		ug/L		80	40 - 140
Aniline	40.0	13.07	*-	ug/L		33	40 - 140
Azobenzene/Diphenyldiazene	40.0	28.49		ug/L		71	40 - 140
Benzidine	40.0	3.583	J *-	ug/L		9	40 - 140
Benzoic acid	40.0	28.30		ug/L		71	30 - 130
Benzyl alcohol	40.0	28.09		ug/L		70	40 - 140
Bis(2-chloroethoxy)methane	40.0	25.11		ug/L		63	40 - 140
Bis(2-chloroethyl)ether	40.0	28.82		ug/L		72	40 - 140
bis (2-chloroisopropyl) ether	40.0	25.79		ug/L		64	40 - 140
Bis(2-ethylhexyl) phthalate	40.0	34.66		ug/L		87	40 - 140
Butyl benzyl phthalate	40.0	35.13		ug/L		88	40 - 140
Carbazole	40.0	30.74		ug/L		77	40 - 140
Dibenzofuran	40.0	27.88		ug/L		70	40 - 140
Diethyl phthalate	40.0	31.38		ug/L		78	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21036/13-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	40.0	29.28		ug/L		73	40 - 140
Di-n-butyl phthalate	40.0	32.80		ug/L		82	40 - 140
Di-n-octyl phthalate	40.0	34.12		ug/L		85	40 - 140
Hexachlorobenzene	40.0	30.06		ug/L		75	40 - 140
Hexachlorobutadiene	40.0	22.02		ug/L		55	40 - 140
Hexachlorocyclopentadiene	40.0	24.22		ug/L		61	40 - 140
Hexachloroethane	40.0	26.21		ug/L		66	40 - 140
Isophorone	40.0	21.76		ug/L		54	40 - 140
Nitrobenzene	40.0	26.88		ug/L		67	40 - 140
N-Nitrosodimethylamine	40.0	16.68		ug/L		42	40 - 140
N-Nitrosodi-n-propylamine	40.0	32.12		ug/L		80	40 - 140
N-Nitrosodiphenylamine	40.0	36.23		ug/L		91	40 - 140
Pentachloronitrobenzene	40.0	25.60		ug/L		64	40 - 140
Pentachlorophenol	40.0	29.26		ug/L		73	30 - 130
Phenol	40.0	17.02		ug/L		43	40 - 140
Pyridine	40.0	6.758	*-	ug/L		17	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*
2-Fluorophenol (Surr)	*59*		*15 - 110*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*
Phenol-d5 (Surr)	*41*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*
Terphenyl-d14	*70*		*30 - 130*

Lab Sample ID: LCSD 620-21036/14-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	40.0	20.49		ug/L		51	40 - 140	0	20
1,2,4-Trichlorobenzene	40.0	26.32		ug/L		66	40 - 140	2	20
1,2-Dichlorobenzene	40.0	24.99		ug/L		62	40 - 140	7	20
1,3-Dichlorobenzene	40.0	23.56		ug/L		59	40 - 140	9	20
1,4-Dichlorobenzene	40.0	23.89		ug/L		60	40 - 140	9	20
2,4,5-Trichlorophenol	40.0	28.61		ug/L		72	30 - 130	9	20
2,4,6-Trichlorophenol	40.0	28.54		ug/L		71	30 - 130	4	20
2,4-Dichlorophenol	40.0	27.55		ug/L		69	30 - 130	0	20
2,4-Dimethylphenol	40.0	27.74		ug/L		69	30 - 130	1	20
2,4-Dinitrophenol	40.0	35.70		ug/L		89	30 - 130	16	20
2,4-Dinitrotoluene	40.0	29.77		ug/L		74	40 - 140	3	20
2,6-Dinitrotoluene	40.0	29.99		ug/L		75	40 - 140	2	20
2-Chloronaphthalene	40.0	26.86		ug/L		67	40 - 140	4	20
2-Chlorophenol	40.0	27.10		ug/L		68	30 - 130	12	20
2-Methylphenol	40.0	26.17		ug/L		65	30 - 130	12	20
2-Nitroaniline	40.0	28.60		ug/L		72	40 - 140	7	20
2-Nitrophenol	40.0	29.09		ug/L		73	30 - 130	4	20
3 & 4 Methylphenol	40.0	25.01		ug/L		63	30 - 130	11	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21036/14-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine			40.0	33.36		ug/L		83	40 - 140	0	20
3-Nitroaniline			40.0	24.88		ug/L		62	40 - 140	3	20
4,6-Dinitro-2-methylphenol			40.0	34.20		ug/L		85	30 - 130	15	20
4-Bromophenyl phenyl ether			40.0	30.65		ug/L		77	40 - 140	3	20
4-Chloro-3-methylphenol			40.0	28.90		ug/L		72	30 - 130	2	20
4-Chloroaniline			40.0	24.58		ug/L		61	40 - 140	1	20
4-Chlorophenyl phenyl ether			40.0	28.43		ug/L		71	40 - 140	3	20
4-Nitroaniline			40.0	30.94		ug/L		77	40 - 140	9	20
4-Nitrophenol			40.0	16.73	J	ug/L		42	30 - 130	1	20
Acetophenone			40.0	28.81		ug/L		72	40 - 140	10	20
Aniline			40.0	11.69	*-	ug/L		29	40 - 140	11	20
Azobenzene/Diphenyldiazene			40.0	27.50		ug/L		69	40 - 140	4	20
Benzidine			40.0	3.122	J *-	ug/L		8	40 - 140	14	20
Benzoic acid			40.0	23.87		ug/L		60	30 - 130	17	20
Benzyl alcohol			40.0	25.00		ug/L		63	40 - 140	12	20
Bis(2-chloroethoxy)methane			40.0	26.20		ug/L		65	40 - 140	4	20
Bis(2-chloroethyl)ether			40.0	26.11		ug/L		65	40 - 140	10	20
bis (2-chloroisopropyl) ether			40.0	22.59		ug/L		56	40 - 140	13	20
Bis(2-ethylhexyl) phthalate			40.0	35.01		ug/L		88	40 - 140	1	20
Butyl benzyl phthalate			40.0	34.92		ug/L		87	40 - 140	1	20
Carbazole			40.0	30.32		ug/L		76	40 - 140	1	20
Dibenzofuran			40.0	27.81		ug/L		70	40 - 140	0	20
Diethyl phthalate			40.0	30.51		ug/L		76	40 - 140	3	20
Dimethyl phthalate			40.0	28.87		ug/L		72	40 - 140	1	20
Di-n-butyl phthalate			40.0	33.02		ug/L		83	40 - 140	1	20
Di-n-octyl phthalate			40.0	33.06		ug/L		83	40 - 140	3	20
Hexachlorobenzene			40.0	30.64		ug/L		77	40 - 140	2	20
Hexachlorobutadiene			40.0	23.34		ug/L		58	40 - 140	6	20
Hexachlorocyclopentadiene			40.0	24.21		ug/L		61	40 - 140	0	20
Hexachloroethane			40.0	24.66		ug/L		62	40 - 140	6	20
Isophorone			40.0	22.44		ug/L		56	40 - 140	3	20
Nitrobenzene			40.0	27.24		ug/L		68	40 - 140	1	20
N-Nitrosodimethylamine			40.0	16.05		ug/L		40	40 - 140	4	20
N-Nitrosodi-n-propylamine			40.0	28.22		ug/L		71	40 - 140	13	20
N-Nitrosodiphenylamine			40.0	29.77		ug/L		74	40 - 140	20	20
Pentachloronitrobenzene			40.0	25.51		ug/L		64	40 - 140	0	20
Pentachlorophenol			40.0	27.64		ug/L		69	30 - 130	6	20
Phenol			40.0	16.27		ug/L		41	40 - 140	5	20
Pyridine			40.0	6.409	*-	ug/L		16	40 - 140	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*65*		*30 - 130*
2-Fluorophenol (Surr)	*54*		*15 - 110*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*
Phenol-d5 (Surr)	*38*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*
Terphenyl-d14	*70*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/05/23 09:47	04/07/23 14:52	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/05/23 09:47	04/07/23 14:52	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/05/23 09:47	04/07/23 14:52	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/05/23 09:47	04/07/23 14:52	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/05/23 09:47	04/07/23 14:52	1
Acetophenone	ND		5.00	0.729	ug/L		04/05/23 09:47	04/07/23 14:52	1
Aniline	ND		5.00	1.40	ug/L		04/05/23 09:47	04/07/23 14:52	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzidine	ND		20.0	1.93	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzoic acid	ND		40.0	40.0	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/05/23 09:47	04/07/23 14:52	1
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/05/23 09:47	04/07/23 14:52	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/05/23 09:47	04/07/23 14:52	1
Carbazole	ND		5.00	0.913	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/05/23 09:47	04/07/23 14:52	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/05/23 09:47	04/07/23 14:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		5.00	0.508	ug/L		04/05/23 09:47	04/07/23 14:52	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/05/23 09:47	04/07/23 14:52	1
Phenol	ND		5.00	0.635	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pyridine	ND		5.00	1.34	ug/L		04/05/23 09:47	04/07/23 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2-Fluorophenol (Surr)	*55*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Phenol-d5 (Surr)	*36*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Terphenyl-d14	*68*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	16.05		ug/L		40	40 - 140
1,2,4-Trichlorobenzene	40.0	19.46		ug/L		49	40 - 140
1,2-Dichlorobenzene	40.0	19.98		ug/L		50	40 - 140
1,3-Dichlorobenzene	40.0	19.10		ug/L		48	40 - 140
1,4-Dichlorobenzene	40.0	19.07		ug/L		48	40 - 140
2,4,5-Trichlorophenol	40.0	24.71		ug/L		62	30 - 130
2,4,6-Trichlorophenol	40.0	24.14		ug/L		60	30 - 130
2,4-Dichlorophenol	40.0	22.11		ug/L		55	30 - 130
2,4-Dimethylphenol	40.0	19.76		ug/L		49	30 - 130
2,4-Dinitrophenol	40.0	29.51		ug/L		74	30 - 130
2,4-Dinitrotoluene	40.0	29.82		ug/L		75	40 - 140
2,6-Dinitrotoluene	40.0	27.30		ug/L		68	40 - 140
2-Chloronaphthalene	40.0	21.64		ug/L		54	40 - 140
2-Chlorophenol	40.0	22.06		ug/L		55	30 - 130
2-Methylphenol	40.0	18.88		ug/L		47	30 - 130
2-Nitroaniline	40.0	26.85		ug/L		67	40 - 140
2-Nitrophenol	40.0	22.63		ug/L		57	30 - 130
3 & 4 Methylphenol	40.0	18.05		ug/L		45	30 - 130
3,3'-Dichlorobenzidine	40.0	41.03		ug/L		103	40 - 140
3-Nitroaniline	40.0	25.28		ug/L		63	40 - 140
4,6-Dinitro-2-methylphenol	40.0	33.96		ug/L		85	30 - 130
4-Bromophenyl phenyl ether	40.0	26.56		ug/L		66	40 - 140
4-Chloro-3-methylphenol	40.0	23.42		ug/L		59	30 - 130
4-Chloroaniline	40.0	18.16		ug/L		45	40 - 140
4-Chlorophenyl phenyl ether	40.0	24.22		ug/L		61	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroaniline	40.0	35.09		ug/L		88	40 - 140
4-Nitrophenol	40.0	14.59	J	ug/L		36	30 - 130
Acetophenone	40.0	24.21		ug/L		61	40 - 140
Aniline	40.0	16.11		ug/L		40	40 - 140
Azobenzene/Diphenyldiazene	40.0	24.59		ug/L		61	40 - 140
Benzidine	40.0	6.263	J *-	ug/L		16	40 - 140
Benzoic acid	40.0	16.92		ug/L		42	30 - 130
Benzyl alcohol	40.0	18.98		ug/L		47	40 - 140
Bis(2-chloroethoxy)methane	40.0	20.28		ug/L		51	40 - 140
Bis(2-chloroethyl)ether	40.0	21.18		ug/L		53	40 - 140
bis (2-chloroisopropyl) ether	40.0	19.16		ug/L		48	40 - 140
Bis(2-ethylhexyl) phthalate	40.0	37.61		ug/L		94	40 - 140
Butyl benzyl phthalate	40.0	37.21		ug/L		93	40 - 140
Carbazole	40.0	32.62		ug/L		82	40 - 140
Dibenzofuran	40.0	23.23		ug/L		58	40 - 140
Diethyl phthalate	40.0	30.13		ug/L		75	40 - 140
Dimethyl phthalate	40.0	26.66		ug/L		67	40 - 140
Di-n-butyl phthalate	40.0	35.34		ug/L		88	40 - 140
Di-n-octyl phthalate	40.0	36.15		ug/L		90	40 - 140
Hexachlorobenzene	40.0	27.20		ug/L		68	40 - 140
Hexachlorobutadiene	40.0	17.05		ug/L		43	40 - 140
Hexachlorocyclopentadiene	40.0	16.78		ug/L		42	40 - 140
Hexachloroethane	40.0	19.23		ug/L		48	40 - 140
Isophorone	40.0	17.39		ug/L		43	40 - 140
Nitrobenzene	40.0	21.92		ug/L		55	40 - 140
N-Nitrosodimethylamine	40.0	11.21	*-	ug/L		28	40 - 140
N-Nitrosodi-n-propylamine	40.0	24.34		ug/L		61	40 - 140
N-Nitrosodiphenylamine	40.0	28.69		ug/L		72	40 - 140
Pentachloronitrobenzene	40.0	22.63		ug/L		57	40 - 140
Pentachlorophenol	40.0	26.52		ug/L		66	30 - 130
Phenol	40.0	9.606	*-	ug/L		24	40 - 140
Pyridine	40.0	10.19	*-	ug/L		25	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*52*		*30 - 130*
2-Fluorophenol (Surr)	*35*		*15 - 110*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*
Phenol-d5 (Surr)	*22*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*
Terphenyl-d14	*77*		*30 - 130*

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	40.0	19.39		ug/L		48	40 - 140	19	20
1,2,4-Trichlorobenzene	40.0	23.08		ug/L		58	40 - 140	17	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	40.0	21.76		ug/L		54	40 - 140	9	20
1,3-Dichlorobenzene	40.0	20.84		ug/L		52	40 - 140	9	20
1,4-Dichlorobenzene	40.0	20.96		ug/L		52	40 - 140	9	20
2,4,5-Trichlorophenol	40.0	29.52		ug/L		74	30 - 130	18	20
2,4,6-Trichlorophenol	40.0	28.08		ug/L		70	30 - 130	15	20
2,4-Dichlorophenol	40.0	25.20		ug/L		63	30 - 130	13	20
2,4-Dimethylphenol	40.0	24.21		ug/L		61	30 - 130	20	20
2,4-Dinitrophenol	40.0	39.89	*1	ug/L		100	30 - 130	30	20
2,4-Dinitrotoluene	40.0	31.21		ug/L		78	40 - 140	5	20
2,6-Dinitrotoluene	40.0	30.27		ug/L		76	40 - 140	10	20
2-Chloronaphthalene	40.0	26.01		ug/L		65	40 - 140	18	20
2-Chlorophenol	40.0	23.53		ug/L		59	30 - 130	6	20
2-Methylphenol	40.0	22.06		ug/L		55	30 - 130	16	20
2-Nitroaniline	40.0	30.19		ug/L		75	40 - 140	12	20
2-Nitrophenol	40.0	25.74		ug/L		64	30 - 130	13	20
3 & 4 Methylphenol	40.0	21.74		ug/L		54	30 - 130	19	20
3,3'-Dichlorobenzidine	40.0	41.58		ug/L		104	40 - 140	1	20
3-Nitroaniline	40.0	27.37		ug/L		68	40 - 140	8	20
4,6-Dinitro-2-methylphenol	40.0	41.21		ug/L		103	30 - 130	19	20
4-Bromophenyl phenyl ether	40.0	29.73		ug/L		74	40 - 140	11	20
4-Chloro-3-methylphenol	40.0	28.10		ug/L		70	30 - 130	18	20
4-Chloroaniline	40.0	22.72	*1	ug/L		57	40 - 140	22	20
4-Chlorophenyl phenyl ether	40.0	28.31		ug/L		71	40 - 140	16	20
4-Nitroaniline	40.0	35.00		ug/L		88	40 - 140	0	20
4-Nitrophenol	40.0	17.74	J	ug/L		44	30 - 130	19	20
Acetophenone	40.0	26.07		ug/L		65	40 - 140	7	20
Aniline	40.0	12.29	*- *1	ug/L		31	40 - 140	27	20
Azobenzene/Diphenyldiazene	40.0	29.30		ug/L		73	40 - 140	17	20
Benzidine	40.0	4.568	J *- *1	ug/L		11	40 - 140	31	20
Benzoic acid	40.0	28.35	*1	ug/L		71	30 - 130	50	20
Benzyl alcohol	40.0	20.96		ug/L		52	40 - 140	10	20
Bis(2-chloroethoxy)methane	40.0	23.23		ug/L		58	40 - 140	14	20
Bis(2-chloroethyl)ether	40.0	22.69		ug/L		57	40 - 140	7	20
bis (2-chloroisopropyl) ether	40.0	21.07		ug/L		53	40 - 140	9	20
Bis(2-ethylhexyl) phthalate	40.0	35.61		ug/L		89	40 - 140	5	20
Butyl benzyl phthalate	40.0	36.28		ug/L		91	40 - 140	3	20
Carbazole	40.0	33.36		ug/L		83	40 - 140	2	20
Dibenzofuran	40.0	27.18		ug/L		68	40 - 140	16	20
Diethyl phthalate	40.0	31.50		ug/L		79	40 - 140	4	20
Dimethyl phthalate	40.0	29.58		ug/L		74	40 - 140	10	20
Di-n-butyl phthalate	40.0	34.73		ug/L		87	40 - 140	2	20
Di-n-octyl phthalate	40.0	34.56		ug/L		86	40 - 140	4	20
Hexachlorobenzene	40.0	29.73		ug/L		74	40 - 140	9	20
Hexachlorobutadiene	40.0	20.95	*1	ug/L		52	40 - 140	21	20
Hexachlorocyclopentadiene	40.0	22.46	*1	ug/L		56	40 - 140	29	20
Hexachloroethane	40.0	21.15		ug/L		53	40 - 140	9	20
Isophorone	40.0	20.40		ug/L		51	40 - 140	16	20
Nitrobenzene	40.0	25.35		ug/L		63	40 - 140	14	20
N-Nitrosodimethylamine	40.0	17.23	*1	ug/L		43	40 - 140	42	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine			40.0	26.23		ug/L		66	40 - 140	7	20
N-Nitrosodiphenylamine			40.0	29.94		ug/L		75	40 - 140	4	20
Pentachloronitrobenzene			40.0	28.18	*1	ug/L		70	40 - 140	22	20
Pentachlorophenol			40.0	30.84		ug/L		77	30 - 130	15	20
Phenol			40.0	12.95	*- *1	ug/L		32	40 - 140	30	20
Pyridine			40.0	4.932	J *- *1	ug/L		12	40 - 140	70	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*30 - 130*
2-Fluorophenol (Surr)	*46*		*15 - 110*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*
Phenol-d5 (Surr)	*31*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*69*		*30 - 130*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		38.5	16.52		ug/L		43	40 - 140
1,2,4-Trichlorobenzene	ND		38.5	20.72		ug/L		54	40 - 140
1,2-Dichlorobenzene	ND		38.5	20.49		ug/L		53	40 - 140
1,3-Dichlorobenzene	ND		38.5	20.02		ug/L		52	40 - 140
1,4-Dichlorobenzene	ND		38.5	19.89		ug/L		52	40 - 140
2,4,5-Trichlorophenol	ND		38.5	23.44		ug/L		61	30 - 130
2,4,6-Trichlorophenol	ND		38.5	23.27		ug/L		61	30 - 130
2,4-Dichlorophenol	ND		38.5	22.35		ug/L		58	30 - 130
2,4-Dimethylphenol	ND		38.5	22.31		ug/L		58	30 - 130
2,4-Dinitrophenol	ND		38.5	18.64		ug/L		48	30 - 130
2,4-Dinitrotoluene	ND		38.5	22.06		ug/L		57	40 - 140
2,6-Dinitrotoluene	ND		38.5	22.74		ug/L		59	40 - 140
2-Chloronaphthalene	ND		38.5	22.38		ug/L		58	40 - 140
2-Chlorophenol	ND		38.5	22.11		ug/L		57	30 - 130
2-Methylphenol	ND		38.5	20.20		ug/L		53	30 - 130
2-Nitroaniline	ND		38.5	24.21		ug/L		63	40 - 140
2-Nitrophenol	ND		38.5	22.10		ug/L		57	30 - 130
3 & 4 Methylphenol	ND		38.5	18.95		ug/L		49	30 - 130
3,3'-Dichlorobenzidine	ND		38.5	26.17		ug/L		68	40 - 140
3-Nitroaniline	ND		38.5	19.39		ug/L		50	40 - 140
4,6-Dinitro-2-methylphenol	ND		38.5	17.79		ug/L		46	30 - 130
4-Bromophenyl phenyl ether	ND		38.5	23.16		ug/L		60	40 - 140
4-Chloro-3-methylphenol	ND		38.5	22.40		ug/L		58	30 - 130
4-Chloroaniline	ND	F1 F2	38.5	9.755	F1	ug/L		25	40 - 140
4-Chlorophenyl phenyl ether	ND		38.5	22.05		ug/L		57	40 - 140
4-Nitroaniline	ND		38.5	23.06		ug/L		60	40 - 140
4-Nitrophenol	ND		38.5	16.38	J	ug/L		43	30 - 130
Acetophenone	ND		38.5	22.35		ug/L		58	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	ND	*-	38.5	16.72		ug/L		43	40 - 140
Azobenzene/Diphenyldiazene	ND		38.5	21.63		ug/L		56	40 - 140
Benzidine	ND	F2 F1 *-	38.5	3.068	J F1	ug/L		8	40 - 140
Benzoic acid	ND		38.5	23.48		ug/L		61	30 - 130
Benzyl alcohol	ND		38.5	20.72		ug/L		54	40 - 140
Bis(2-chloroethoxy)methane	ND		38.5	20.66		ug/L		54	40 - 140
Bis(2-chloroethyl)ether	ND		38.5	20.52		ug/L		53	40 - 140
bis (2-chloroisopropyl) ether	ND		38.5	18.46		ug/L		48	40 - 140
Bis(2-ethylhexyl) phthalate	ND		38.5	27.07		ug/L		70	40 - 140
Butyl benzyl phthalate	ND		38.5	26.31		ug/L		68	40 - 140
Carbazole	ND		38.5	22.95		ug/L		60	40 - 140
Dibenzofuran	ND		38.5	21.62		ug/L		56	40 - 140
Diethyl phthalate	ND		38.5	22.68		ug/L		59	40 - 140
Dimethyl phthalate	ND		38.5	22.13		ug/L		58	40 - 140
Di-n-butyl phthalate	ND		38.5	25.32		ug/L		66	40 - 140
Di-n-octyl phthalate	ND		38.5	25.12		ug/L		65	40 - 140
Hexachlorobenzene	ND		38.5	22.74		ug/L		59	40 - 140
Hexachlorobutadiene	ND		38.5	18.46		ug/L		48	40 - 140
Hexachlorocyclopentadiene	ND	F1	38.5	6.315	F1	ug/L		16	40 - 140
Hexachloroethane	ND		38.5	18.43		ug/L		48	40 - 140
Isophorone	ND		38.5	16.93		ug/L		44	40 - 140
Nitrobenzene	ND		38.5	33.81		ug/L		88	40 - 140
N-Nitrosodimethylamine	ND	F1	38.5	13.53	F1	ug/L		35	40 - 140
N-Nitrosodi-n-propylamine	ND		38.5	22.08		ug/L		57	40 - 140
N-Nitrosodiphenylamine	ND		38.5	21.84		ug/L		57	40 - 140
Pentachloronitrobenzene	ND		38.5	18.21		ug/L		47	40 - 140
Pentachlorophenol	ND		38.5	17.09		ug/L		44	30 - 130
Phenol	ND	F1	38.5	10.33	F1	ug/L		27	40 - 140
Pyridine	ND	F1 *-	38.5	10.40	F1	ug/L		27	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*30 - 130*
2-Fluorophenol (Surr)	*41*		*15 - 110*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*
Phenol-d5 (Surr)	*31*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*59*		*15 - 110*
Terphenyl-d14	*58*		*30 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		38.5	17.36		ug/L		45	40 - 140	5	20
1,2,4-Trichlorobenzene	ND		38.5	21.73		ug/L		57	40 - 140	5	20
1,2-Dichlorobenzene	ND		38.5	21.66		ug/L		56	40 - 140	6	20
1,3-Dichlorobenzene	ND		38.5	21.02		ug/L		55	40 - 140	5	20
1,4-Dichlorobenzene	ND		38.5	20.89		ug/L		54	40 - 140	5	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		38.5	25.44		ug/L		66	30 - 130	8	20
2,4,6-Trichlorophenol	ND		38.5	24.60		ug/L		64	30 - 130	6	20
2,4-Dichlorophenol	ND		38.5	23.97		ug/L		62	30 - 130	7	20
2,4-Dimethylphenol	ND		38.5	23.38		ug/L		61	30 - 130	5	20
2,4-Dinitrophenol	ND		38.5	17.74		ug/L		46	30 - 130	5	20
2,4-Dinitrotoluene	ND		38.5	24.70		ug/L		64	40 - 140	11	20
2,6-Dinitrotoluene	ND		38.5	24.73		ug/L		64	40 - 140	8	20
2-Chloronaphthalene	ND		38.5	23.64		ug/L		61	40 - 140	5	20
2-Chlorophenol	ND		38.5	23.79		ug/L		62	30 - 130	7	20
2-Methylphenol	ND		38.5	20.84		ug/L		54	30 - 130	3	20
2-Nitroaniline	ND		38.5	26.20		ug/L		68	40 - 140	8	20
2-Nitrophenol	ND		38.5	23.88		ug/L		62	30 - 130	8	20
3 & 4 Methylphenol	ND		38.5	19.81		ug/L		52	30 - 130	4	20
3,3'-Dichlorobenzidine	ND		38.5	31.11		ug/L		81	40 - 140	17	20
3-Nitroaniline	ND		38.5	22.44		ug/L		58	40 - 140	15	20
4,6-Dinitro-2-methylphenol	ND		38.5	17.59		ug/L		46	30 - 130	1	20
4-Bromophenyl phenyl ether	ND		38.5	24.37		ug/L		63	40 - 140	5	20
4-Chloro-3-methylphenol	ND		38.5	24.24		ug/L		63	30 - 130	8	20
4-Chloroaniline	ND	F1 F2	38.5	13.21	F2 F1	ug/L		34	40 - 140	30	20
4-Chlorophenyl phenyl ether	ND		38.5	23.43		ug/L		61	40 - 140	6	20
4-Nitroaniline	ND		38.5	26.92		ug/L		70	40 - 140	15	20
4-Nitrophenol	ND		38.5	17.46	J	ug/L		45	30 - 130	6	20
Acetophenone	ND		38.5	24.03		ug/L		62	40 - 140	7	20
Aniline	ND	*-	38.5	18.92		ug/L		49	40 - 140	12	20
Azobenzene/Diphenyldiazene	ND		38.5	23.16		ug/L		60	40 - 140	7	20
Benzidine	ND	F2 F1 *-	38.5	5.904	J F2 F1	ug/L		15	40 - 140	63	20
Benzoic acid	ND		38.5	23.29		ug/L		61	30 - 130	1	20
Benzyl alcohol	ND		38.5	21.33		ug/L		55	40 - 140	3	20
Bis(2-chloroethoxy)methane	ND		38.5	21.80		ug/L		57	40 - 140	5	20
Bis(2-chloroethyl)ether	ND		38.5	21.88		ug/L		57	40 - 140	6	20
bis (2-chloroisopropyl) ether	ND		38.5	19.72		ug/L		51	40 - 140	7	20
Bis(2-ethylhexyl) phthalate	ND		38.5	30.05		ug/L		78	40 - 140	10	20
Butyl benzyl phthalate	ND		38.5	29.10		ug/L		76	40 - 140	10	20
Carbazole	ND		38.5	25.55		ug/L		66	40 - 140	11	20
Dibenzofuran	ND		38.5	23.07		ug/L		60	40 - 140	7	20
Diethyl phthalate	ND		38.5	24.88		ug/L		65	40 - 140	9	20
Dimethyl phthalate	ND		38.5	24.01		ug/L		62	40 - 140	8	20
Di-n-butyl phthalate	ND		38.5	28.05		ug/L		73	40 - 140	10	20
Di-n-octyl phthalate	ND		38.5	27.81		ug/L		72	40 - 140	10	20
Hexachlorobenzene	ND		38.5	24.25		ug/L		63	40 - 140	6	20
Hexachlorobutadiene	ND		38.5	19.47		ug/L		51	40 - 140	5	20
Hexachlorocyclopentadiene	ND	F1	38.5	6.584	F1	ug/L		17	40 - 140	4	20
Hexachloroethane	ND		38.5	19.65		ug/L		51	40 - 140	6	20
Isophorone	ND		38.5	17.75		ug/L		46	40 - 140	5	20
Nitrobenzene	ND		38.5	35.75		ug/L		93	40 - 140	6	20
N-Nitrosodimethylamine	ND	F1	38.5	12.98	F1	ug/L		34	40 - 140	4	20
N-Nitrosodi-n-propylamine	ND		38.5	23.74		ug/L		62	40 - 140	7	20
N-Nitrosodiphenylamine	ND		38.5	25.00		ug/L		65	40 - 140	13	20
Pentachloronitrobenzene	ND		38.5	18.70		ug/L		49	40 - 140	3	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD **Client Sample ID: 2023-MW-04**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21159 **Prep Batch: 21080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachlorophenol	ND		38.5	19.26		ug/L		50	30 - 130	12	20
Phenol	ND	F1	38.5	10.23	F1	ug/L		27	40 - 140	1	20
Pyridine	ND	F1 *-	38.5	12.05	F1	ug/L		31	40 - 140	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*30 - 130*
2-Fluorophenol (Surr)	*41*		*15 - 110*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*
Phenol-d5 (Surr)	*30*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*64*		*15 - 110*
Terphenyl-d14	*64*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 620-21036/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21071 **Prep Batch: 21036**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 10:46	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 10:46	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 10:46	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 10:46	1
Anthracene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[a]anthracene	ND		0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[a]pyrene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[g,h,i]perylene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[k]fluoranthene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Chrysene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Dibenz(a,h)anthracene	ND		0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 10:46	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 10:46	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 10:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 10:46	1
Phenanthrene	ND		0.200	0.200	ug/L		04/04/23 08:36	04/05/23 10:46	1
Pyrene	ND		0.200	0.200	ug/L		04/04/23 08:36	04/05/23 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*30 - 130*	*04/04/23 08:36*	*04/05/23 10:46*	*1*
Terphenyl-d14	*47*		*30 - 130*	*04/04/23 08:36*	*04/05/23 10:46*	*1*
Benzo(e)pyrene-d12	*20*	*S1-*	*30 - 130*	*04/04/23 08:36*	*04/05/23 10:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 620-21036/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	4.00	2.911		ug/L		73	40 - 140
2-Methylnaphthalene	4.00	2.886		ug/L		72	40 - 140
Acenaphthene	4.00	2.924		ug/L		73	40 - 140
Acenaphthylene	4.00	2.800		ug/L		70	40 - 140
Anthracene	4.00	2.721		ug/L		68	40 - 140
Benzo[a]anthracene	4.00	1.623		ug/L		41	40 - 140
Benzo[a]pyrene	4.00	2.150		ug/L		54	40 - 140
Benzo[b]fluoranthene	4.00	1.619		ug/L		40	40 - 140
Benzo[g,h,i]perylene	4.00	1.924		ug/L		48	40 - 140
Benzo[k]fluoranthene	4.00	2.295		ug/L		57	40 - 140
Chrysene	4.00	2.638		ug/L		66	40 - 140
Dibenz(a,h)anthracene	4.00	1.492	*-	ug/L		37	40 - 140
Fluoranthene	4.00	2.641		ug/L		66	40 - 140
Fluorene	4.00	2.657		ug/L		66	40 - 140
Indeno[1,2,3-cd]pyrene	4.00	1.386	*-	ug/L		35	40 - 140
Naphthalene	4.00	2.628		ug/L		66	40 - 140
Phenanthrene	4.00	2.857		ug/L		71	40 - 140
Pyrene	4.00	2.831		ug/L		71	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*
Terphenyl-d14	*55*		*30 - 130*
Benzo(e)pyrene-d12	*35*		*30 - 130*

Lab Sample ID: LCSD 620-21036/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	4.00	3.313		ug/L		83	40 - 140	13	20
2-Methylnaphthalene	4.00	3.292		ug/L		82	40 - 140	13	20
Acenaphthene	4.00	3.304		ug/L		83	40 - 140	12	20
Acenaphthylene	4.00	3.158		ug/L		79	40 - 140	12	20
Anthracene	4.00	2.914		ug/L		73	40 - 140	7	20
Benzo[a]anthracene	4.00	2.181	*1	ug/L		55	40 - 140	29	20
Benzo[a]pyrene	4.00	2.865	*1	ug/L		72	40 - 140	29	20
Benzo[b]fluoranthene	4.00	1.913		ug/L		48	40 - 140	17	20
Benzo[g,h,i]perylene	4.00	2.614	*1	ug/L		65	40 - 140	30	20
Benzo[k]fluoranthene	4.00	3.001	*1	ug/L		75	40 - 140	27	20
Chrysene	4.00	3.186		ug/L		80	40 - 140	19	20
Dibenz(a,h)anthracene	4.00	1.846	*1	ug/L		46	40 - 140	21	20
Fluoranthene	4.00	2.932		ug/L		73	40 - 140	10	20
Fluorene	4.00	2.710		ug/L		68	40 - 140	2	20
Indeno[1,2,3-cd]pyrene	4.00	1.911	*1	ug/L		48	40 - 140	32	20
Naphthalene	4.00	3.002		ug/L		75	40 - 140	13	20
Phenanthrene	4.00	3.018		ug/L		75	40 - 140	5	20
Pyrene	4.00	3.224		ug/L		81	40 - 140	13	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 620-21036/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
Terphenyl-d14	*61*		*30 - 130*
Benzo(e)pyrene-d12	*64*		*30 - 130*

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/05/23 09:47	04/05/23 15:12	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/05/23 09:47	04/05/23 15:12	1
Anthracene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]anthracene	ND		0.0500	0.0413	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[g,h,i]perylene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[k]fluoranthene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Chrysene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Dibenz(a,h)anthracene	ND		0.0500	0.0342	ug/L		04/05/23 09:47	04/05/23 15:12	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Fluorene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Naphthalene	0.04711	J	0.0500	0.0464	ug/L		04/05/23 09:47	04/05/23 15:12	1
Phenanthrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1
Pyrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Terphenyl-d14	*65*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Benzo(e)pyrene-d12	*81*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*

Lab Sample ID: LCS 620-21080/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	4.00	3.040		ug/L		76	40 - 140
2-Methylnaphthalene	4.00	2.880		ug/L		72	40 - 140
Acenaphthene	4.00	3.004		ug/L		75	40 - 140
Acenaphthylene	4.00	2.912		ug/L		73	40 - 140
Anthracene	4.00	3.135		ug/L		78	40 - 140
Benzo[a]anthracene	4.00	1.807		ug/L		45	40 - 140
Benzo[a]pyrene	4.00	2.620		ug/L		66	40 - 140
Benzo[b]fluoranthene	4.00	1.621		ug/L		41	40 - 140
Benzo[g,h,i]perylene	4.00	2.174		ug/L		54	40 - 140
Benzo[k]fluoranthene	4.00	2.704		ug/L		68	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 620-21080/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chrysene			4.00	3.197		ug/L		80	40 - 140		
Dibenz(a,h)anthracene			4.00	1.755		ug/L		44	40 - 140		
Fluoranthene			4.00	3.117		ug/L		78	40 - 140		
Fluorene			4.00	2.810		ug/L		70	40 - 140		
Indeno[1,2,3-cd]pyrene			4.00	1.619		ug/L		40	40 - 140		
Naphthalene			4.00	2.707		ug/L		68	40 - 140		
Phenanthrene			4.00	3.167		ug/L		79	40 - 140		
Pyrene			4.00	3.331		ug/L		83	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*
Terphenyl-d14	*67*		*30 - 130*
Benzo(e)pyrene-d12	*80*		*30 - 130*

Lab Sample ID: LCSD 620-21080/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			4.00	3.070		ug/L		77	40 - 140	1	20
2-Methylnaphthalene			4.00	3.063		ug/L		77	40 - 140	6	20
Acenaphthene			4.00	3.071		ug/L		77	40 - 140	2	20
Acenaphthylene			4.00	2.829		ug/L		71	40 - 140	3	20
Anthracene			4.00	2.783		ug/L		70	40 - 140	12	20
Benzo[a]anthracene			4.00	1.784		ug/L		45	40 - 140	1	20
Benzo[a]pyrene			4.00	2.395		ug/L		60	40 - 140	9	20
Benzo[b]fluoranthene			4.00	1.734		ug/L		43	40 - 140	7	20
Benzo[g,h,i]perylene			4.00	1.967		ug/L		49	40 - 140	10	20
Benzo[k]fluoranthene			4.00	2.588		ug/L		65	40 - 140	4	20
Chrysene			4.00	2.974		ug/L		74	40 - 140	7	20
Dibenz(a,h)anthracene			4.00	1.636		ug/L		41	40 - 140	7	20
Fluoranthene			4.00	2.808		ug/L		70	40 - 140	10	20
Fluorene			4.00	2.519		ug/L		63	40 - 140	11	20
Indeno[1,2,3-cd]pyrene			4.00	1.699		ug/L		42	40 - 140	5	20
Naphthalene			4.00	2.705		ug/L		68	40 - 140	0	20
Phenanthrene			4.00	2.859		ug/L		71	40 - 140	10	20
Pyrene			4.00	3.034		ug/L		76	40 - 140	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*
Terphenyl-d14	*62*		*30 - 130*
Benzo(e)pyrene-d12	*79*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21209

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	ND		4.17	2.523		ug/L		61	40 - 140
2-Methylnaphthalene	ND		4.17	2.211		ug/L		53	40 - 140
Acenaphthene	ND		4.17	2.154		ug/L		52	40 - 140
Acenaphthylene	ND		4.17	2.084		ug/L		50	40 - 140
Anthracene	ND		4.17	2.147		ug/L		52	40 - 140
Benzo[a]anthracene	ND	*1	4.17	4.704		ug/L		113	40 - 140
Benzo[a]pyrene	ND	*1	4.17	3.785		ug/L		91	40 - 140
Benzo[b]fluoranthene	ND		4.17	4.580		ug/L		110	40 - 140
Benzo[g,h,i]perylene	ND	*1	4.17	3.903		ug/L		94	40 - 140
Benzo[k]fluoranthene	ND	*1	4.17	3.509		ug/L		84	40 - 140
Chrysene	ND		4.17	3.425		ug/L		82	40 - 140
Dibenz(a,h)anthracene	ND	*- *1	4.17	4.307		ug/L		103	40 - 140
Fluoranthene	ND		4.17	2.058		ug/L		49	40 - 140
Fluorene	ND		4.17	1.678		ug/L		40	40 - 140
Indeno[1,2,3-cd]pyrene	ND	*- *1	4.17	4.701		ug/L		113	40 - 140
Naphthalene	ND		4.17	2.332		ug/L		56	40 - 140
Phenanthrene	ND		4.17	1.861		ug/L		45	40 - 140
Pyrene	ND		4.17	2.413		ug/L		58	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*47*		*30 - 130*
Terphenyl-d14	*45*		*30 - 130*
Benzo(e)pyrene-d12	*51*		*30 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21209

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	ND		4.00	3.283		ug/L		82	40 - 140	26	20
2-Methylnaphthalene	ND		4.00	2.806		ug/L		70	40 - 140	24	20
Acenaphthene	ND		4.00	2.813		ug/L		70	40 - 140	27	20
Acenaphthylene	ND		4.00	2.774		ug/L		69	40 - 140	28	20
Anthracene	ND		4.00	2.621		ug/L		66	40 - 140	20	20
Benzo[a]anthracene	ND	*1	4.00	5.549		ug/L		139	40 - 140	16	20
Benzo[a]pyrene	ND	*1	4.00	4.368		ug/L		109	40 - 140	14	20
Benzo[b]fluoranthene	ND		4.00	5.179		ug/L		129	40 - 140	12	20
Benzo[g,h,i]perylene	ND	*1	4.00	4.432		ug/L		111	40 - 140	13	20
Benzo[k]fluoranthene	ND	*1	4.00	4.095		ug/L		102	40 - 140	15	20
Chrysene	ND		4.00	3.962		ug/L		99	40 - 140	15	20
Dibenz(a,h)anthracene	ND	*- *1	4.00	4.850		ug/L		121	40 - 140	12	20
Fluoranthene	ND		4.00	2.395		ug/L		60	40 - 140	15	20
Fluorene	ND		4.00	1.923		ug/L		48	40 - 140	14	20
Indeno[1,2,3-cd]pyrene	ND	*- *1	4.00	5.316		ug/L		133	40 - 140	12	20
Naphthalene	ND		4.00	2.856		ug/L		71	40 - 140	20	20
Phenanthrene	ND		4.00	2.234		ug/L		56	40 - 140	18	20
Pyrene	ND		4.00	2.824		ug/L		71	40 - 140	16	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21209

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*61*		*30 - 130*
Terphenyl-d14	*54*		*30 - 130*
Benzo(e)pyrene-d12	*60*		*30 - 130*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 620-21124/6
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 13:44	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 13:44	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*

Lab Sample ID: LCS 620-21124/3
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C10 Aromatics	20.0	ND		ug/L		115	70 - 130
C5-C8 Aliphatics (unadjusted)	60.0	ND		ug/L		100	70 - 130
C9-C12 Aliphatics (unadjusted)	60.0	ND		ug/L		81	70 - 130
Benzene	20.0	20.29		ug/L		101	70 - 130
Ethylbenzene	20.0	21.87		ug/L		109	70 - 130
Methyl tert-butyl ether	20.0	18.80		ug/L		94	70 - 130
Naphthalene	20.0	21.58		ug/L		108	70 - 130
Toluene	20.0	20.18		ug/L		101	70 - 130
m,p-Xylene	40.0	41.83		ug/L		105	70 - 130
o-Xylene	20.0	22.10		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: LCSD 620-21124/4
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			20.0	ND		ug/L		115	70 - 130	0	25
C5-C8 Aliphatics (unadjusted)			60.0	ND		ug/L		99	70 - 130	1	25
C9-C12 Aliphatics (unadjusted)			60.0	ND		ug/L		78	70 - 130	3	25
Benzene			20.0	20.24		ug/L		101	70 - 130	0	25
Ethylbenzene			20.0	21.59		ug/L		108	70 - 130	1	25
Methyl tert-butyl ether			20.0	19.23		ug/L		96	70 - 130	2	25
Naphthalene			20.0	21.94		ug/L		110	70 - 130	2	25
Toluene			20.0	19.95		ug/L		100	70 - 130	1	25
m,p-Xylene			40.0	41.12		ug/L		103	70 - 130	2	25
o-Xylene			20.0	21.92		ug/L		110	70 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*
2,5-Dibromotoluene (pid)	*89*		*70 - 130*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21124

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C10 Aromatics	ND		20.3	ND		ug/L		NC	70 - 130
C5-C8 Aliphatics (unadjusted)	ND		61.0	150.2		ug/L		NC	70 - 130
C9-C12 Aliphatics (unadjusted)	ND		61.0	218.9		ug/L		NC	70 - 130
Benzene	ND		20.3	22.02		ug/L		108	70 - 130
Ethylbenzene	ND		20.3	23.81		ug/L		117	70 - 130
Methyl tert-butyl ether	ND		20.3	19.93		ug/L		98	70 - 130
Naphthalene	ND		20.3	22.07		ug/L		108	70 - 130
Toluene	ND		20.3	21.93		ug/L		108	70 - 130
m,p-Xylene	ND		40.7	45.03		ug/L		111	70 - 130
o-Xylene	ND		20.3	24.25		ug/L		119	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*
2,5-Dibromotoluene (pid)	*84*		*70 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21124

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics	ND		20.3	ND		ug/L		NC	70 - 130	NC	30
C5-C8 Aliphatics (unadjusted)	ND		61.0	148.8		ug/L		NC	70 - 130	1	30
C9-C12 Aliphatics (unadjusted)	ND		61.0	210.1		ug/L		NC	70 - 130	4	30
Benzene	ND		20.3	21.93		ug/L		108	70 - 130	0	30
Ethylbenzene	ND		20.3	23.55		ug/L		116	70 - 130	1	30
Methyl tert-butyl ether	ND		20.3	19.95		ug/L		98	70 - 130	0	30
Naphthalene	ND		20.3	22.57		ug/L		111	70 - 130	2	30
Toluene	ND		20.3	21.66		ug/L		106	70 - 130	1	30

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10573-2 MSD **Client Sample ID: 2023-MW-04**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylene	ND		40.7	44.61		ug/L		110	70 - 130	1	30
o-Xylene	ND		20.3	23.99		ug/L		118	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*91*		*70 - 130*
2,5-Dibromotoluene (pid)	*91*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-21137/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21225 **Prep Batch: 21137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/10/23 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*

Lab Sample ID: LCS 620-21137/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21181 **Prep Batch: 21137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			4.00	2.710		ug/L		68	40 - 140		
PCB-1016			4.00	2.285		ug/L		57	40 - 140		
PCB-1260			4.00	2.703		ug/L		68	40 - 140		
PCB-1260			4.00	2.560		ug/L		64	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*30 - 150*
Tetrachloro-m-xylene	*52*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-21137/3-A
Matrix: Water
Analysis Batch: 21181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			4.00	2.599		ug/L		65	40 - 140	4	20
PCB-1016			4.00	2.381		ug/L		60	40 - 140	4	20
PCB-1260			4.00	3.171		ug/L		79	40 - 140	16	20
PCB-1260			4.00	2.907		ug/L		73	40 - 140	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*58*		*30 - 150*
Tetrachloro-m-xylene	*56*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21181

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		3.85	1.977		ug/L		51	40 - 140
PCB-1260	ND		3.85	2.667		ug/L		69	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*44*		*30 - 150*
Tetrachloro-m-xylene	*42*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*52*		*30 - 150*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21181

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		4.00	2.374		ug/L		59	40 - 140	18	20
PCB-1260	ND		4.00	2.646		ug/L		66	40 - 140	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 150*
Tetrachloro-m-xylene	*58*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-361883/1-A
Matrix: Water
Analysis Batch: 362616

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 07:41	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 07:41	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-361883/1-A
Matrix: Water
Analysis Batch: 362616

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00	0.680	ug/L		04/07/23 04:43	04/10/23 07:41	1
Barium	ND		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 07:41	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 07:41	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 07:41	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 07:41	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 07:41	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 07:41	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 07:41	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 07:41	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 07:41	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 07:41	1

Lab Sample ID: LCS 410-361883/2-A
Matrix: Water
Analysis Batch: 362616

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	517.8		ug/L		104	80 - 120
Antimony	100	105.8		ug/L		106	80 - 120
Arsenic	500	514.9		ug/L		103	80 - 120
Barium	500	522.5		ug/L		105	80 - 120
Beryllium	50.0	50.96		ug/L		102	80 - 120
Cadmium	50.0	52.82		ug/L		106	80 - 120
Chromium	500	508.9		ug/L		102	80 - 120
Nickel	500	513.2		ug/L		103	80 - 120
Lead	50.0	52.74		ug/L		105	80 - 120
Selenium	100	104.7		ug/L		105	80 - 120
Thallium	100	105.6		ug/L		106	80 - 120
Vanadium	500	510.1		ug/L		102	80 - 120
Silver	50.0	53.45		ug/L		107	80 - 120

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 362616

Client Sample ID: 2023-MW-04
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	41.5		500	552.6		ug/L		102	75 - 125
Antimony	ND		100	104.7		ug/L		105	75 - 125
Arsenic	ND		500	516.4		ug/L		103	75 - 125
Barium	26.0		500	550.6		ug/L		105	75 - 125
Beryllium	ND		50.0	51.20		ug/L		102	75 - 125
Cadmium	ND		50.0	52.17		ug/L		104	75 - 125
Chromium	ND		500	502.9		ug/L		101	75 - 125
Nickel	ND		500	514.0		ug/L		103	75 - 125
Lead	0.146	J	50.0	52.11		ug/L		104	75 - 125
Selenium	ND		100	103.5		ug/L		104	75 - 125
Thallium	ND		100	103.4		ug/L		103	75 - 125
Vanadium	ND		500	502.6		ug/L		101	75 - 125
Silver	ND		50.0	53.56		ug/L		107	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 362616

Client Sample ID: 2023-MW-04
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	41.5		500	555.5		ug/L		103	75 - 125	1	20
Antimony	ND		100	104.9		ug/L		105	75 - 125	0	20
Arsenic	ND		500	511.6		ug/L		102	75 - 125	1	20
Barium	26.0		500	548.9		ug/L		105	75 - 125	0	20
Beryllium	ND		50.0	51.34		ug/L		103	75 - 125	0	20
Cadmium	ND		50.0	52.67		ug/L		105	75 - 125	1	20
Chromium	ND		500	504.1		ug/L		101	75 - 125	0	20
Nickel	ND		500	510.8		ug/L		102	75 - 125	1	20
Lead	0.146	J	50.0	52.14		ug/L		104	75 - 125	0	20
Selenium	ND		100	103.9		ug/L		104	75 - 125	0	20
Thallium	ND		100	103.7		ug/L		104	75 - 125	0	20
Vanadium	ND		500	506.8		ug/L		101	75 - 125	1	20
Silver	ND		50.0	53.19		ug/L		106	75 - 125	1	20

Lab Sample ID: 620-10573-2 DU
Matrix: Water
Analysis Batch: 362616

Client Sample ID: 2023-MW-04
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Zinc	41.5			43.22		ug/L				4	20
Antimony	ND			ND		ug/L				NC	20
Arsenic	ND			ND		ug/L				NC	20
Barium	26.0			26.62		ug/L				2	20
Beryllium	ND			ND		ug/L				NC	20
Cadmium	ND			ND		ug/L				NC	20
Chromium	ND			ND		ug/L				NC	20
Nickel	ND			ND		ug/L				NC	20
Lead	0.146	J		0.1380	J	ug/L				6	20
Selenium	ND			ND		ug/L				NC	20
Thallium	ND			ND		ug/L				NC	20
Vanadium	ND			ND		ug/L				NC	20
Silver	ND			ND		ug/L				NC	20

Lab Sample ID: MB 410-362080/1-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 07:45	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 07:45	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 07:45	1
Barium	ND		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 07:45	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 07:45	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 07:45	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 07:45	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 07:45	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 07:45	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 07:45	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 07:45	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-362080/1-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 07:45	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 07:45	1

Lab Sample ID: LCS 410-362080/2-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	523.9		ug/L		105	80 - 120
Antimony	100	103.8		ug/L		104	80 - 120
Arsenic	500	526.4		ug/L		105	80 - 120
Barium	500	529.7		ug/L		106	80 - 120
Beryllium	50.0	49.60		ug/L		99	80 - 120
Cadmium	50.0	52.78		ug/L		106	80 - 120
Chromium	500	533.0		ug/L		107	80 - 120
Nickel	500	524.9		ug/L		105	80 - 120
Lead	50.0	53.20		ug/L		106	80 - 120
Selenium	100	104.9		ug/L		105	80 - 120
Thallium	100	105.6		ug/L		106	80 - 120
Vanadium	500	530.4		ug/L		106	80 - 120
Silver	50.0	53.49		ug/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-361425/1-A
Matrix: Water
Analysis Batch: 361739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 14:38	1

Lab Sample ID: LCS 410-361425/2-A
Matrix: Water
Analysis Batch: 361739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.9159		ug/L		92	80 - 120

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 361739

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		1.00	0.8927		ug/L		89	75 - 125

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 361739

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		1.00	0.8933		ug/L		89	75 - 125	0	20

Lab Sample ID: 620-10573-2 DU
Matrix: Water
Analysis Batch: 361739

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		ug/L				NC	20

GC/MS VOA

Analysis Batch: 21052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8260C	
620-10573-3	2023-MW-06	Total/NA	Water	8260C	
620-10573-4	2023-MW-05	Total/NA	Water	8260C	
MB 620-21052/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21052/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21052/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 21055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-6	2023-TB-01	Total/NA	Water	8260C	
MB 620-21055/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21055/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21055/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 21085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8260C	
620-10573-5	2023-FD-01	Total/NA	Water	8260C	
MB 620-21085/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21085/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21085/5	Lab Control Sample Dup	Total/NA	Water	8260C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	8260C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 21036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	3510C	
620-10573-3	2023-MW-06	Total/NA	Water	3510C	
620-10573-4	2023-MW-05	Total/NA	Water	3510C	
620-10573-5	2023-FD-01	Total/NA	Water	3510C	
MB 620-21036/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21036/13-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 620-21036/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21036/14-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 620-21036/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 21071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8270D	21036
620-10573-3	2023-MW-06	Total/NA	Water	8270D	21036
620-10573-4	2023-MW-05	Total/NA	Water	8270D	21036
620-10573-5	2023-FD-01	Total/NA	Water	8270D	21036
MB 620-21036/1-A	Method Blank	Total/NA	Water	8270D	21036
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21036/2-A	Lab Control Sample	Total/NA	Water	8270D	21036
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21036/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	21036
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080

GC/MS Semi VOA

Prep Batch: 21080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	3510C	
MB 620-21080/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	3510C	

Analysis Batch: 21159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080
620-10573-2 MS	2023-MW-04	Total/NA	Water	8270D	21080
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8270D	21080

Analysis Batch: 21209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8270D	21080
620-10573-2 MS	2023-MW-04	Total/NA	Water	8270D	21080
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8270D	21080

Analysis Batch: 21216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8270D	21036
620-10573-3	2023-MW-06	Total/NA	Water	8270D	21036
620-10573-4	2023-MW-05	Total/NA	Water	8270D	21036
620-10573-5	2023-FD-01	Total/NA	Water	8270D	21036

Analysis Batch: 21311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8270D	21080
MB 620-21036/1-A	Method Blank	Total/NA	Water	8270D	21036
LCS 620-21036/13-A	Lab Control Sample	Total/NA	Water	8270D	21036
LCSD 620-21036/14-A	Lab Control Sample Dup	Total/NA	Water	8270D	21036

GC VOA

Analysis Batch: 21124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	MAVPH2.1	
620-10573-2	2023-MW-04	Total/NA	Water	MAVPH2.1	
620-10573-3	2023-MW-06	Total/NA	Water	MAVPH2.1	
620-10573-4	2023-MW-05	Total/NA	Water	MAVPH2.1	
620-10573-5	2023-FD-01	Total/NA	Water	MAVPH2.1	
620-10573-6	2023-TB-01	Total/NA	Water	MAVPH2.1	
MB 620-21124/6	Method Blank	Total/NA	Water	MAVPH2.1	
LCS 620-21124/3	Lab Control Sample	Total/NA	Water	MAVPH2.1	

GC VOA (Continued)

Analysis Batch: 21124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 620-21124/4	Lab Control Sample Dup	Total/NA	Water	MAVPH2.1	
620-10573-2 MS	2023-MW-04	Total/NA	Water	MAVPH2.1	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	MAVPH2.1	

GC Semi VOA

Prep Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	3510C	
620-10573-2	2023-MW-04	Total/NA	Water	3510C	
620-10573-3	2023-MW-06	Total/NA	Water	3510C	
620-10573-4	2023-MW-05	Total/NA	Water	3510C	
620-10573-5	2023-FD-01	Total/NA	Water	3510C	
MB 620-21137/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	3510C	

Analysis Batch: 21181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8082	21137
620-10573-3	2023-MW-06	Total/NA	Water	8082	21137
620-10573-4	2023-MW-05	Total/NA	Water	8082	21137
620-10573-5	2023-FD-01	Total/NA	Water	8082	21137
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	8082	21137
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	8082	21137
620-10573-2 MS	2023-MW-04	Total/NA	Water	8082	21137
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8082	21137

Analysis Batch: 21225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8082	21137
MB 620-21137/1-A	Method Blank	Total/NA	Water	8082	21137

Metals

Prep Batch: 361425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	7470A	
620-10573-2	2023-MW-04	Total/NA	Water	7470A	
620-10573-3	2023-MW-06	Total/NA	Water	7470A	
620-10573-4	2023-MW-05	Total/NA	Water	7470A	
620-10573-5	2023-FD-01	Total/NA	Water	7470A	
MB 410-361425/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-361425/2-A	Lab Control Sample	Total/NA	Water	7470A	
620-10573-2 MS	2023-MW-04	Total/NA	Water	7470A	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	7470A	
620-10573-2 DU	2023-MW-04	Total/NA	Water	7470A	

Metals

Analysis Batch: 361739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	7470A	361425
620-10573-2	2023-MW-04	Total/NA	Water	7470A	361425
620-10573-3	2023-MW-06	Total/NA	Water	7470A	361425
620-10573-4	2023-MW-05	Total/NA	Water	7470A	361425
620-10573-5	2023-FD-01	Total/NA	Water	7470A	361425
MB 410-361425/1-A	Method Blank	Total/NA	Water	7470A	361425
LCS 410-361425/2-A	Lab Control Sample	Total/NA	Water	7470A	361425
620-10573-2 MS	2023-MW-04	Total/NA	Water	7470A	361425
620-10573-2 MSD	2023-MW-04	Total/NA	Water	7470A	361425
620-10573-2 DU	2023-MW-04	Total/NA	Water	7470A	361425

Prep Batch: 361883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total Recoverable	Water	3005A	
620-10573-2	2023-MW-04	Total Recoverable	Water	3005A	
620-10573-4	2023-MW-05	Total Recoverable	Water	3005A	
620-10573-5	2023-FD-01	Total Recoverable	Water	3005A	
MB 410-361883/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-361883/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
620-10573-2 MS	2023-MW-04	Total Recoverable	Water	3005A	
620-10573-2 MSD	2023-MW-04	Total Recoverable	Water	3005A	
620-10573-2 DU	2023-MW-04	Total Recoverable	Water	3005A	

Prep Batch: 362080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-3	2023-MW-06	Total Recoverable	Water	3005A	
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 362616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total Recoverable	Water	6020B	361883
620-10573-2	2023-MW-04	Total Recoverable	Water	6020B	361883
620-10573-4	2023-MW-05	Total Recoverable	Water	6020B	361883
620-10573-5	2023-FD-01	Total Recoverable	Water	6020B	361883
MB 410-361883/1-A	Method Blank	Total Recoverable	Water	6020B	361883
LCS 410-361883/2-A	Lab Control Sample	Total Recoverable	Water	6020B	361883
620-10573-2 MS	2023-MW-04	Total Recoverable	Water	6020B	361883
620-10573-2 MSD	2023-MW-04	Total Recoverable	Water	6020B	361883
620-10573-2 DU	2023-MW-04	Total Recoverable	Water	6020B	361883

Analysis Batch: 363601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-3	2023-MW-06	Total Recoverable	Water	6020B	362080
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	6020B	362080
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	6020B	362080

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03 Lab Sample ID: 620-10573-1

Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21052	CLR	EET NE	04/04/23 20:59
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21311	JS	EET NE	04/12/23 17:07
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 17:15
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 17:57
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21225	SFL	EET NE	04/10/23 12:08
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 08:07
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:28

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21085	CLR	EET NE	04/05/23 18:20
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 16:36
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 17:11
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 17:22
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 20:58
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 07:45
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 14:43

Client Sample ID: 2023-MW-06 Lab Sample ID: 620-10573-3

Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21052	CLR	EET NE	04/04/23 21:25
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 17:05
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 17:41
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 18:32
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 21:50

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-06

Date Collected: 03/30/23 12:10
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:23
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:34

Client Sample ID: 2023-MW-05

Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21052	CLR	EET NE	04/04/23 21:51
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 17:34
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 18:11
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 19:08
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:07
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 08:05
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:11

Client Sample ID: 2023-FD-01

Date Collected: 03/30/23 08:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21085	CLR	EET NE	04/05/23 17:54
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 18:03
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 18:40
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 19:43
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:25
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 08:03
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:07

Lab Chronicle

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-TB-01
Lab Sample ID: 620-10573-6

Date Collected: 03/30/23 07:00
Matrix: Water

Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21055	CLR	EET NE	04/04/23 16:04
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 15:02

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3510C	Water	PCB-1016
8082	3510C	Water	PCB-1221
8082	3510C	Water	PCB-1232
8082	3510C	Water	PCB-1242
8082	3510C	Water	PCB-1248
8082	3510C	Water	PCB-1254
8082	3510C	Water	PCB-1260
8082	3510C	Water	PCB-1262
8082	3510C	Water	PCB-1268
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,1-Dichloropropene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,3-Trichloropropane
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane (EDB)
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,3-Dichloropropane
8260C		Water	1,3-Dichloropropene, Total
8260C		Water	1,4-Dichlorobenzene
8260C		Water	1,4-Dioxane
8260C		Water	2,2-Dichloropropane
8260C		Water	2-Butanone (MEK)
8260C		Water	2-Chlorotoluene
8260C		Water	2-Hexanone (MBK)
8260C		Water	4-Chlorotoluene
8260C		Water	4-Isopropyltoluene
8260C		Water	4-Methyl-2-pentanone (MIBK)
8260C		Water	Acetone
8260C		Water	Acrylonitrile
8260C		Water	Benzene
8260C		Water	Bromobenzene
8260C		Water	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Dibromochloromethane
8260C		Water	Dibromomethane
8260C		Water	Dichlorodifluoromethane (Freon 12)
8260C		Water	di-Isopropyl ether
8260C		Water	Ethanol
8260C		Water	Ethyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Ethylbenzene
8260C		Water	Hexachlorobutadiene
8260C		Water	Isopropylbenzene
8260C		Water	m,p-Xylene
8260C		Water	Methyl tert-butyl ether
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	n-Butylbenzene
8260C		Water	N-Propylbenzene
8260C		Water	o-Xylene
8260C		Water	sec-Butylbenzene
8260C		Water	Styrene
8260C		Water	Tert-amyl methyl ether
8260C		Water	tert-Butanol
8260C		Water	tert-Butylbenzene
8260C		Water	Tetrachloroethene
8260C		Water	Tetrahydrofuran
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	trans-1,4-Dichloro-2-butene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane (Freon 11)
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270D	3510C	Water	1,2,4-Trichlorobenzene
8270D	3510C	Water	1,2-Dichlorobenzene
8270D	3510C	Water	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	1,4-Dichlorobenzene
8270D	3510C	Water	1-Methylnaphthalene
8270D	3510C	Water	2,4,5-Trichlorophenol
8270D	3510C	Water	2,4,6-Trichlorophenol
8270D	3510C	Water	2,4-Dichlorophenol
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2,4-Dinitrotoluene
8270D	3510C	Water	2,6-Dinitrotoluene
8270D	3510C	Water	2-Chloronaphthalene
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	2-Methylnaphthalene
8270D	3510C	Water	2-Methylphenol
8270D	3510C	Water	2-Nitroaniline
8270D	3510C	Water	2-Nitrophenol
8270D	3510C	Water	3 & 4 Methylphenol
8270D	3510C	Water	3,3'-Dichlorobenzidine
8270D	3510C	Water	3-Nitroaniline
8270D	3510C	Water	4,6-Dinitro-2-methylphenol
8270D	3510C	Water	4-Bromophenyl phenyl ether
8270D	3510C	Water	4-Chloro-3-methylphenol
8270D	3510C	Water	4-Chloroaniline
8270D	3510C	Water	4-Chlorophenyl phenyl ether
8270D	3510C	Water	4-Nitroaniline
8270D	3510C	Water	4-Nitrophenol
8270D	3510C	Water	Acenaphthene
8270D	3510C	Water	Acenaphthylene
8270D	3510C	Water	Acetophenone
8270D	3510C	Water	Aniline
8270D	3510C	Water	Anthracene
8270D	3510C	Water	Azobenzene/Diphenyldiazene
8270D	3510C	Water	Benzidine
8270D	3510C	Water	Benzo[a]anthracene
8270D	3510C	Water	Benzo[a]pyrene
8270D	3510C	Water	Benzo[b]fluoranthene
8270D	3510C	Water	Benzo[g,h,i]perylene
8270D	3510C	Water	Benzo[k]fluoranthene
8270D	3510C	Water	Benzoic acid
8270D	3510C	Water	Benzyl alcohol
8270D	3510C	Water	bis (2-chloroisopropyl) ether
8270D	3510C	Water	Bis(2-chloroethoxy)methane
8270D	3510C	Water	Bis(2-chloroethyl)ether
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D	3510C	Water	Butyl benzyl phthalate
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Chrysene
8270D	3510C	Water	Dibenz(a,h)anthracene

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	Dibenzofuran
8270D	3510C	Water	Diethyl phthalate
8270D	3510C	Water	Dimethyl phthalate
8270D	3510C	Water	Di-n-butyl phthalate
8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Fluorene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isophorone
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodimethylamine
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosodiphenylamine
8270D	3510C	Water	Pentachloronitrobenzene
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol
8270D	3510C	Water	Pyrene
8270D	3510C	Water	Pyridine
MAVPH2.1		Water	Benzene
MAVPH2.1		Water	C5-C8 Aliphatics (adjusted)
MAVPH2.1		Water	C5-C8 Aliphatics (unadjusted)
MAVPH2.1		Water	C9-C10 Aromatics
MAVPH2.1		Water	C9-C12 Aliphatics (adjusted)
MAVPH2.1		Water	C9-C12 Aliphatics (unadjusted)
MAVPH2.1		Water	Ethylbenzene
MAVPH2.1		Water	m,p-Xylene
MAVPH2.1		Water	Methyl tert-butyl ether
MAVPH2.1		Water	Naphthalene
MAVPH2.1		Water	o-Xylene
MAVPH2.1		Water	Toluene
MAVPH2.1		Water	Xylenes, Total

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	04-17-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	04-17-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	04-17-23
Iowa	State	361	04-12-23
Kansas	NELAP	E-10151	04-17-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	04-17-23
Louisiana (All)	NELAP	02055	04-17-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	04-24-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	04-17-23
New Jersey	NELAP	PA011	04-17-23
New York	NELAP	10670	04-17-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	04-23-23
North Dakota	State	R-205	04-17-23
Oklahoma	NELAP	R-205	04-24-23
Oregon	NELAP	PA200001	04-12-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	04-17-23
Rhode Island	State	LAO00338	04-17-23
South Carolina	State	89002	04-23-23
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	04-17-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	04-17-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MAVPH2.1	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET NE
5030C	Purge and Trap	SW846	EET NE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10573-1	2023-MW-03	Water	03/30/23 11:25	03/31/23 15:05
620-10573-2	2023-MW-04	Water	03/30/23 14:20	03/31/23 15:05
620-10573-3	2023-MW-06	Water	03/30/23 12:10	03/31/23 15:05
620-10573-4	2023-MW-05	Water	03/30/23 15:05	03/31/23 15:05
620-10573-5	2023-FD-01	Water	03/30/23 08:00	03/31/23 15:05
620-10573-6	2023-TB-01	Water	03/30/23 07:00	03/31/23 15:05

620-10573 Chain of Custody

10573

Chain of Custody Record

Boston #215

eurofins | Environment Testing

	Sampler: L.Mato. S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 1
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 3
Company: Nobis Engineering Inc.	PWSID:	Analysis Requested		Job #:

Address: 585 Middlesex Street	Due Date Requested	
City: Lowell	TAT Requested (days): STD	
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No	
Phone:	PO #: S00001.002	
Email: bfortier@nobis-group.com ldmcgrath@nobis-group.com	WO #:	
Project Name: 4 Holeman Street, Templeton MA	Project #:	
Site:	SSOW#:	

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs SW846 8260	5 VOCs SW846 8270	VPH SW846 8082	PCBs 8082	Metals 6020 7471A	PFAS EPA Method 537.1	Total Number of containers	Special Instructions/Note:
	Preservation Code:														
01	2023-MW-03	3/30/23	1125	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-04		1420		Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-06		1210		Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-05		1505		Water			✓	✓	✓	✓	✓	✓		
05	2023-FD-01		800		Water			✓	✓	✓	✓	✓	✓		
06	Trip Blank 2023-TB-01		700		Water			✓	✓						
					Water										
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, (IV) Other (specify)

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com EQuIS EDD 2023-MW-04 is MS/MSD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by: L.Mato	3/30/23 7:24		Received by: Basement fridge	3/30/23 7:24	
Relinquished by:	3/30/23 3:07		Received by:	3/31/23 1505	EA
Relinquished by:	4/3/23 1314	EA	Received by:	4/3/23 1314	ENE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.6 & 2.2 2.8 tb

Ver: 06/08/2021

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5/11/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8924.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10573-1
Address: 2425 New Holland Pike,	Due Date Requested: 4/11/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	PRE_SCREEN_PFAS/PFAS_PreScn_W_P	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
2023-MW-03 (620-10573-1)	3/30/23	11:25 Eastern		Water			X	X	X	X	3	
2023-MW-04 (620-10573-2)	3/30/23	14:20 Eastern		Water			X	X	X	X	3	
2023-MW-06 (620-10573-3)	3/30/23	12:10 Eastern		Water			X	X	X	X	3	
2023-MW-05 (620-10573-4)	3/30/23	15:05 Eastern		Water			X	X	X	X	3	
2023-FD-01 (620-10573-5)	3/30/23	08:00 Eastern		Water			X	X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/3/23 16:37	GNE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/5/23 9:55	EUET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.0

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8928.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10573-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/11/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-04 (620-10573-2MS)	3/30/23	14:20 Eastern	MS	Water			X	X	X	3	
2023-MW-04 (620-10573-2MSD)	3/30/23	14:20 Eastern	MSD	Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/3/23 17:36	ENE	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	4/5/23 9:55	ENE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-1

Login Number: 10573
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-1

Login Number: 10573
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

August 16, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620105732
Eurofins Lancaster Laboratory, Lancaster, PA (sub-contractor to Eurofins New England Laboratory, North Kingstown, RI)

Tier 1 Stage 2A Organic Data Review:

Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 mod.

5/Groundwater Samples: 2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330
1/Field Duplicate Pair: 2023-MW-03-20230330 / 2023-FD-01-20230330

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 30, 2023. The samples were analyzed for PFAS by EPA Method 537 mod., by Eurofins Lancaster Laboratory in Lancaster, PA, as sub-contractor to Eurofins New England Laboratory in North Kingstown.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's Data and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
* • Preservation and Technical Holding Times
* • Blanks
• Surrogates (organic analyses only)

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

NA	•	Internal Standards
	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
*	•	Field Duplicates
NA	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
NA	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Note that the date of sample collection was appended to the sample IDs for this SDG in order to differentiate sample IDs from other collections at this site.

The COC for this SDG includes sample analyses for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), MassDEP volatile petroleum hydrocarbon (VPH), and metals analyses, as well as a trip blank for VOC and VPH analyses. Data for these analyses are reported and evaluated in SDG 620105731. Results of the PFAS analyses are reported in this SDG only; therefore, only the PFAS data were evaluated in this review.

Non-detect results for 2 PFAS compounds were rejected (R) in samples 2023-MW-05-20230330 and 2023-FD-01-20230330 due to low surrogate recovery. Results are not usable for project objectives.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

PFAS:
Results for two PFAS compounds were rejected in samples 2023-MW-05-20230330 and 2023-FD-01-20230330 due to low surrogate recovery. Results were also qualified for surrogate recoveries and MS/MSD recoveries.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

nobis

Linda Terzis
Data Validator

Gary Glennon
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
10:2 FTS	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
11Cl-PF3OUdS (F53B Minor)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ng/L	1.91 U	1.99 U	1.86 U	1.93 UJ	1.91 UJ
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ng/L	1.91 U	1.99 U	1.86 U	1.93 UJ	1.91 UJ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
4:2 Fluorotelomer sulfonic acid	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
6:2 Fluorotelomer sulfonate	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
8:2 Fluorotelomer sulfonate	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
9Cl-PF3ONS	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
N-ethylperfluoro-1-octanesulfonamide	ng/L	1.91 UJ	1.99 UJ	1.86 UJ	R	R
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
N-methylperfluoro-1-octanesulfonamide	ng/L	1.91 UJ	1.99 UJ	1.86 UJ	R	R
Perfluorobutanesulfonic acid (PFBS)	ng/L	0.467 J	0.318 J	1.86 U	0.48 J	0.501 J
Perfluorobutanoic Acid (PFBA)	ng/L	1.79 J	1.19 J	1.04 J	2.03	1.86 J
Perfluorodecane Sulfonate	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Groundwater				
Lab Sample ID		620-10573-1	620-10573-2	620-10573-3	620-10573-4	620-10573-5
Field Sample ID		2023-MW-03-20230330	2023-MW-04-20230330	2023-MW-06-20230330	2023-MW-05-20230330	2023-FD-01-20230330
Sample Type		N	N	N	N	FD
Parent Sample ID						2023-MW-03-20230330
Sample Date	**Units**	03/30/23	03/30/23	03/30/23	03/30/23	03/30/23
Perfluorodecanoic Acid (PFDA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluorododecanesulfonic acid (PFDoS)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluorododecanoic Acid (PFDoA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluoroheptane sulfonate	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluoroheptanoic acid (PFHpA)	ng/L	0.852 J	1.45 J	1.86 U	0.731 J	0.946 J
Perfluorohexadecanoic acid	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluorohexanesulfonic acid (PFHxS)	ng/L	0.374 J	0.635 J	1.86 U	0.326 J	0.242 J
Perfluorohexanoic Acid (PFHxA)	ng/L	1.09 J	0.61 J	0.231 J	0.53 J	1.19 J
Perfluorononanesulfonic acid	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluorononanoic acid (PFNA)	ng/L	0.222 J	0.565 J	1.86 U	0.286 J	1.91 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluorooctadecanoic acid	ng/L	1.91 U	1.99 UJ	1.86 U	1.93 U	1.91 U
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.41 J	16.8	0.666 J	0.743 J	1.42 J
Perfluorooctanoic acid (PFOA)	ng/L	1.6 J	10.5	1.24 J	1.89 J	1.76 J
Perfluorooctylsulfonamide	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluoropentanoic Acid	ng/L	0.834 J	1.99 U	1.86 U	0.646 J	0.852 J
Perfluoropetanesulfonic acid (PFPeS)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U
Perfluoroundecanoic Acid (PFUna)	ng/L	1.91 U	1.99 U	1.86 U	1.93 U	1.91 U

Data Review Qualification Actions
American Tissue Mill
SDG 620105732

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PFAS					
	NMePFOSA, NEtPFOSA	2023-MW-05-20230330, 2023-FD-01-20230330	Surrogate recovery (< 10%)	R	
	NMePFOSA, NEtPFOSA	2023-MW-03-20230330, 2023-MW-04-20230330, 2023-MW-06-20230330	Surrogate recovery	UJ	
	PFBS	2023-MW-04-20230330, 2023-MW-05-20230330, 2023-FD-01-20230330	Surrogate recovery	J	
	NMeFOSE, N-EtFOSE	2023-MW-05-20230330, 2023-FD-01-20230330	Surrogate recovery	UJ	
	Perfluorooctadecanoic acid	2023-MW-04-20230330	MS/MSD recoveries	UJ	

NEtPFOSA - N-ethylperfluoro-1-octanesulfonamide
NMePFOSA - N-methylperfluoro-1-octanesulfonamide
PFPeA - Perfluoropentanoic acid
PFDoDA / PFDoA - Perfluorododecanoic acid
FOSA Perfluorooctylsulfonamide
NMeFOSE - 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
N-EtFOSE-M 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol
PFBS - Perfluorobutanesulfonic acid

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 07/17/2023
Methods: Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins Lancaster Laboratory, Lancaster, PA (sub-contractor to Eurofins New England Laboratory, North Kingstown, RI)
SDG: 620105732
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Five (5) groundwater samples, including one field duplicate sample, were listed on the COC for SDG 620105732. The samples were collected on 03/30/2023 and received at Eurofins New England Laboratory on 03/31/2023 at 2.8 °C. Samples for PFAS analysis were subsequently shipped to Eurofins Lancaster Laboratory on 04/03/2023. The samples were received at Eurofins Lancaster on 04/05/2023 at 2.0 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-03-20230330	620-10573-1	PFAS
2023-MW-04-20230330	620-10573-2	
2023-MW-06-20230330	620-10573-3	
2023-MW-05-20230330	620-10573-4	
2023-FD-01-20230330	620-10573-5	

Note that the date of sample collection was appended to the sample IDs for this SDG in order to differentiate sample IDs from other collections at this site.

The COC for this SDG includes sample analyses for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), MassDEP volatile petroleum hydrocarbon (VPH), and metals analyses, as well as a trip blank for VOC and VPH analyses. Data for these analyses are reported and evaluated in SDG 620105731. Results of the PFAS analyses are reported in this SDG; therefore, only the PFAS data were evaluated in this review.

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). The data were also evaluated using USEPA's Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018).

The analyte list reported by the laboratory was compared to the required analyte list per Table 2 (aqueous) in the QAPPA (February 2023) for the site. Results for all PFAS compounds on Table 2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

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2. **Holding Time and Sample Preservation Compliance**

   Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

   PFAS: Samples were extracted outside the QAPP-specified holding time of 14 days from collection for aqueous samples but within 28 days of extraction, consistent with other PFAS aqueous methods (e.g., EPA Method 533). Site objectives are not impacted by the use of a 28-day extraction holding time. Samples were analyzed within 28 days of extraction. No actions are required.

3. **Calibration Issues**

   Not assessed for S2AVM data review.

4. **Laboratory and Field Blanks**

   PFAS: Results for PFAS were non-detect in all laboratory method blanks. No blank actions are required.

5. **Interference Check Sample (metals only)**

   Not assessed for S2AVM data review.

6. **Surrogates**

   PFAS: Percent recoveries of select surrogates did not meet the Program QAPP limits of 50-150% in the samples. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), detected and non-detect results with associated surrogate recovery below limits (but > 10%) are qualified as estimated (J/UJ). Detected results with associated surrogate recovery above limits are qualified as estimated (J) and non-detect results are accepted unqualified since the potential bias is high. Detected results with associated surrogate recoveries < 10% are qualified as estimated (J) and non-detect results are rejected (R). Refer to the Data Review Qualification Actions Table for action details.

   Note that samples 2023-MW-03-20230330 (620-10573-1), 2023-MW-05-20230330 (620-10573-4), and 2023-FD-01-20230330 (620-10573-5) were re-analyzed and/or re-extracted due to exceeded surrogate recoveries. Results of the re-analyses confirmed the recoveries in the original analyses; therefore, results from the original analyses are reported.

7. **Laboratory Control Samples**

   PFAS: Percent recoveries for all PFAS LCS/LCSD analyses met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS/LCSD results. RPDs met the laboratory limit of ≤ 30%.

8. **Matrix Spikes**

Based on the EPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018), MS/MSD qualifications are applied to the parent sample only.

PFAS: MS/MSD analyses were performed on sample 2023-MW-04-20230330 (620-10573-2). Recoveries for all PFAS compounds were within the laboratory limits and all RPDs were ≤ 30% except for the recoveries of perfluorooctadecanoic acid, which were below the laboratory limits of 29-172% (28% and 16% in the MS and MSD, respectively). The RPD exceeded the laboratory limit of ≤ 30% (89%). The result for perfluorooctadecanoic acid was non-detect in parent sample 2023-MW-04-20230330. The non-detect result for perfluorooctadecanoic acid in sample 2023-MW-04-20230330 is qualified as estimated (UJ) due to low MS/MSD recoveries.

Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include MS/MSD recovery limits for PFAS. Therefore, the laboratory-established percent recovery and RPD limits were used to evaluate the MS/MSD results.

9. **Laboratory Duplicates**

Note that Table 2-12-1 of the Program QAPP lists a laboratory duplicate as a QC sample for the PFAS analysis with no associated QC limit. A laboratory duplicate analysis was not reported by the laboratory for the PFAS analysis. The EPA Data Review and Validation Guidelines for PFAS (November 2018) does not include discussion of laboratory duplicate analyses. No actions are taken.

10. **Serial Dilution (metals only)**

Not applicable for this analysis.

11. **Field Duplicate Precision**

Acceptable field duplicate precision is an RPD of ≤ 30% for results > 5x RL and an absolute difference < 2x RL for results < 5x RL, based on the EPA Region 1 Supplement (2020).

Based on the Region I Supplement (2020), qualifications are applied to all field samples with similar matrix, unless otherwise indicated.

Field duplicate pair 2023-MW-03-20230330 (620-10573-1) / 2023-FD-01-20230330 (620-10573-5) is associated with the groundwater samples of this SDG. Field duplicate precision criteria were met and no actions are required.

12. **Internal Standards**

Not assessed for S2AVM data review.

13. **Dual Column Precision (PCBs only)**

Not applicable for this analysis.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

There are no Project Action Levels (PALs) associated with the PFAS analysis for this site.

16. Other

Region I Supplement (2020) criterion for percent solids content (> 30%) is not applicable for aqueous samples.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: 620105732 PFAS

Analyte	Original Result ug/L	Qual	Duplicate Result ug/L	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**2023-MW-03-20230330**		**2023-FD-01-20230330**				
	620-10573-1		**620-10573-5**				
10:2 FTS	1.91	U	1.91	U	0.00		Ok - both ND
11Cl-PF3OUdS (F53B Minor)	1.91	U	1.91	U	0.00		Ok - both ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1.91	U	1.91	U	0.00		Ok - both ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	1.91	U	1.91	U	0.00		Ok - both ND
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.91	U	1.91	U	0.00		Ok - both ND
4:2 Fluorotelomer sulfonic acid	1.91	U	1.91	U	0.00		Ok - both ND
6:2 Fluorotelomer sulfonate	1.91	U	1.91	U	0.00		Ok - both ND
8:2 Fluorotelomer sulfonate	1.91	U	1.91	U	0.00		Ok - both ND
9Cl-PF3ONS	1.91	U	1.91	U	0.00		Ok - both ND
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.91	U	1.91	U	0.00		Ok - both ND
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	1.91	U	1.91	U	0.00		Ok - both ND
N-ethylperfluoro-1-octanesulfonamide	1.91	U	1.91	U	0.00		Ok - both ND
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	1.91	U	1.91	U	0.00		Ok - both ND
N-methylperfluoro-1-octanesulfonamide	1.91	U	1.91	U	0.00		Ok - both ND
(PFBS)	0.467	J	0.501	J	7.02		Ok - both < RL
Perfluorobutanoic Acid (PFBA)	1.79	J	1.86	J	3.84		Ok - both < RL
Perfluorodecane Sulfonate	1.91	U	1.91	U	0.00		Ok - both ND
Perfluorodecanoic Acid (PFDA)	1.91	U	1.91	U	0.00		Ok - both ND
Perfluorododecanesulfonic acid (PFDoS)	1.91	U	1.91	U	0.00		Ok - both ND
(PFDoA)	1.91	U	1.91	U	0.00		Ok - both ND
Perfluoroheptane sulfonate	1.91	U	1.91	U	0.00		Ok - both ND
Perfluoroheptanoic acid (PFHpA)	0.852	J	0.946	J	10.46		Ok - both < RL
Perfluorohexadecanoic acid	1.91	U	1.91	U	0.00		Ok - both ND
(PFHxS)	0.374	J	0.242	J	-42.86		Ok - both < RL
Perfluorohexanoic Acid (PFHxA)	1.09	J	1.19	J	8.77		Ok - both < RL
Perfluorononanesulfonic acid	1.91	U	1.91	U	0.00		Ok - both ND
Perfluorononanoic acid (PFNA)	0.222	J	1.91	U	158.35		Ok - ND and < RL
Perfluoro-n-tetradecanoic acid (PFTeDA)	1.91	U	1.91	U	0.00		Ok - both ND
(PFTrDA)	1.91	U	1.91	U	0.00		Ok - both ND
Perfluorooctadecanoic acid	1.91	U	1.91	U	0.00		Ok - both ND
(PFOS)	1.41	J	1.42	J	0.71		Ok - both < RL
Perfluorooctanoic acid (PFOA)	1.6	J	1.76	J	9.52		Ok - both < RL
Perfluorooctylsulfonamide	1.91	U	1.91	U	0.00		Ok - both ND
Perfluoropentanoic Acid	0.834	J	0.852	J	2.14		Ok - both < RL
(PFPeS)	1.91	U	1.91	U	0.00		Ok - both ND
(PFUna)	1.91	U	1.91	U	0.00		Ok - both ND

10579

Chain of Custody Record

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620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water			✓					✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/15/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10573-2

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

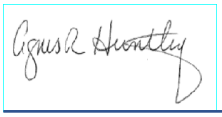
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10573-2

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/15/2023

Job ID: 620-10573-2

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10573-2

Comments
No additional comments.

Receipt
The samples were received on 3/31/2023 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

LCMS
Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-03 (620-10573-1) is outside of the QC limits for the initial injection and within QC limits for the re-injection. However, the recovery for the labeled isotope(s) in the re-injection sample is outside the QC acceptance limits. The values here are from the initial injection of the sample.

Method 537 (modified): The recovery for the labeled isotope(s) d3-NMePFOSA and d5-NEtPFOSA in the following sample: 2023-MW-05 (620-10573-4) and 2023-FD-01 (620-10573-5) are outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) were again outside the QC acceptance limits.

Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-05 (620-10573-4) is outside of the QC limits for the initial injection. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the sample injection standard in the re-extracted sample(s) was within the QC acceptance limits. The data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.467	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.79	J	1.91	0.957	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.852	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.374	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	1.09	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.222	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.41	J	1.91	0.479	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.60	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.834	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RA	0.294	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RA	1.83	J	1.91	0.957	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RA	0.768	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RA	1.20	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid - RA	0.193	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RA	1.29	J	1.91	0.479	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RA	1.47	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RA	0.829	J	1.91	0.287	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.318	J	1.99	0.299	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.19	J	1.99	0.996	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	1.45	J	1.99	0.299	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.635	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.610	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.565	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	16.8		1.99	0.498	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	10.5		1.99	0.299	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.04	J	1.86	0.928	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.231	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.666	J I	1.86	0.464	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.24	J	1.86	0.278	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.480	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	2.03		1.93	0.963	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.731	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.326	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.530	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.286	J I	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.743	J	1.93	0.481	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.89	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.646	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.439	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RE	1.76	J H	1.87	0.935	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-05 (Continued)

Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid - RE	0.542	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.202	J H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	0.553	J H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid - RE	0.198	J I H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonamide - RE	0.644	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	0.834	J H	1.87	0.467	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.64	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.542	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-FD-01

Lab Sample ID: 620-10573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.501	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.86	J	1.91	0.953	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.946	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.242	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	1.19	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.42	J	1.91	0.477	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.76	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.852	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.625	J I H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RE	1.68	J H	1.98	0.988	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RE	0.803	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.247	J H	1.98	0.198	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	1.08	J H	1.98	0.198	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	1.23	J H	1.98	0.494	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.47	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.733	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.766	ng/L		04/20/23 10:11	05/04/23 23:15	1
11Cl-PF3OUdS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.574	ng/L		04/20/23 10:11	05/04/23 23:15	1
9Cl-PF3ONS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
DONA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
HFPODA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSAA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSAA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSA	ND		1.91	0.670	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorobutanesulfonic acid	**0.467**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorobutanoic acid	**1.79**	**J**	1.91	0.957	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorodecanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorodecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorododecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroheptanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroheptanoic acid	**0.852**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexanesulfonic acid	**0.374**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexanoic acid	**1.09**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorononanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorononanoic acid	**0.222**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanesulfonamide	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanesulfonic acid	**1.41**	**J**	1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanoic acid	**1.60**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoropentanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoropentanoic acid	**0.834**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorotetradecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorotridecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroundecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*140*		*10 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
M2-6:2 FTS	*142*		*17 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
M2-8:2 FTS	*154*		*33 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C2 PFTeDA	*77*		*10 - 179*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C3 HFPO-DA	*85*		*17 - 185*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C3 PFBS	*143*		*16 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C4 PFBA	*122*		*42 - 165*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C4 PFHpA	*123*		*31 - 182*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C5 PFPeA	*127*		*38 - 187*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C8 PFOA	*118*		*48 - 162*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C8 PFOS	*117*		*51 - 159*	*04/20/23 10:11*	*05/04/23 23:15*	*1*

Client Sample ID: 2023-MW-03 **Lab Sample ID: 620-10573-1**
Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	112		31 - 174	04/20/23 10:11	05/04/23 23:15	1
d5-NEtFOSAA	110		29 - 195	04/20/23 10:11	05/04/23 23:15	1
d7-N-MeFOSE-M	59		10 - 178	04/20/23 10:11	05/04/23 23:15	1
d9-N-EtFOSE-M	52		10 - 177	04/20/23 10:11	05/04/23 23:15	1
13C3 PFHxS	122		28 - 188	04/20/23 10:11	05/04/23 23:15	1
13C5 PFHxA	114		24 - 179	04/20/23 10:11	05/04/23 23:15	1
13C6 PFDA	118		49 - 163	04/20/23 10:11	05/04/23 23:15	1
13C7 PFUnA	114		34 - 174	04/20/23 10:11	05/04/23 23:15	1
d3-NMePFOSA	12		10 - 155	04/20/23 10:11	05/04/23 23:15	1
d5-NEtPFOSA	10		10 - 159	04/20/23 10:11	05/04/23 23:15	1
13C8 FOSA	98		10 - 168	04/20/23 10:11	05/04/23 23:15	1
13C2-PFDoDA	95		17 - 176	04/20/23 10:11	05/04/23 23:15	1
13C9 PFNA	113		51 - 167	04/20/23 10:11	05/04/23 23:15	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.766	ng/L		04/20/23 10:11	05/09/23 18:08	1
11Cl-PF3OUdS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.574	ng/L		04/20/23 10:11	05/09/23 18:08	1
9Cl-PF3ONS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
DONA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
HFPODA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSAA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSAA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSA	ND		1.91	0.670	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorobutanesulfonic acid	**0.294**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorobutanoic acid	**1.83**	**J**	1.91	0.957	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorodecanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorodecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorododecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroheptanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroheptanoic acid	**0.768**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexanesulfonic acid	ND		1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexanoic acid	**1.20**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorononanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorononanoic acid	**0.193**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanesulfonamide	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanesulfonic acid	**1.29**	**J**	1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanoic acid	**1.47**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoropentanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoropentanoic acid	**0.829**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorotridecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroundecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*129*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
M2-6:2 FTS	*149*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
M2-8:2 FTS	*157*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C2 PFTeDA	*73*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 HFPO-DA	*118*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 PFBS	*151*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C4 PFHpA	*108*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C5 PFPeA	*133*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 PFOA	*108*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 PFOS	*115*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d3-NMeFOSAA	*113*		*31 - 174*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d5-NEtFOSAA	*114*		*29 - 195*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d7-N-MeFOSE-M	*56*		*10 - 178*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d9-N-EtFOSE-M	*52*		*10 - 177*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 PFHxS	*119*		*28 - 188*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C5 PFHxA	*104*		*24 - 179*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C6 PFDA	*116*		*49 - 163*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C7 PFUnA	*116*		*34 - 174*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d3-NMePFOSA	*10*		*10 - 155*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d5-NEtPFOSA	*8*	*5-	*10 - 159*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 FOSA	*100*		*10 - 168*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C2-PFDoDA	*95*		*17 - 176*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C9 PFNA	*115*		*51 - 167*	*04/20/23 10:11*	*05/09/23 18:08*	*1*

Client Sample ID: 2023-MW-04 **Lab Sample ID: 620-10573-2**
Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.99	0.796	ng/L		04/20/23 10:11	05/09/23 18:20	1
11Cl-PF3OUdS	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
4:2 Fluorotelomer sulfonic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
6:2 Fluorotelomer sulfonic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
8:2 Fluorotelomer sulfonic acid	ND		1.99	0.597	ng/L		04/20/23 10:11	05/09/23 18:20	1
9Cl-PF3ONS	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
DONA	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
HFPODA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSAA	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSAA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSA	ND		1.99	0.697	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorobutanesulfonic acid	**0.318**	**J**	1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorobutanoic acid	**1.19**	**J**	1.99	0.996	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorodecanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorodecanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorododecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroheptanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroheptanoic acid	**1.45**	**J**	1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexadecanoic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexanesulfonic acid	**0.635**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexanoic acid	**0.610**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorononanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorononanoic acid	**0.565**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctadecanoic acid	ND	F1	1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanesulfonamide	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanesulfonic acid	**16.8**		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanoic acid	**10.5**		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoropentanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoropentanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorotetradecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorotridecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroundecanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*122*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
M2-6:2 FTS	*144*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C2 PFTeDA	*75*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C3 HFPO-DA	*119*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C3 PFBS	*157*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C4 PFHpA	*106*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C5 PFPeA	*133*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C8 PFOA	*107*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C8 PFOS	*116*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:20*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04
Lab Sample ID: 620-10573-2
Date Collected: 03/30/23 14:20
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	119		31 - 174	04/20/23 10:11	05/09/23 18:20	1
d5-NEtFOSAA	130		29 - 195	04/20/23 10:11	05/09/23 18:20	1
d7-N-MeFOSE-M	75		10 - 178	04/20/23 10:11	05/09/23 18:20	1
d9-N-EtFOSE-M	66		10 - 177	04/20/23 10:11	05/09/23 18:20	1
13C3 PFHxS	122		28 - 188	04/20/23 10:11	05/09/23 18:20	1
13C5 PFHxA	98		24 - 179	04/20/23 10:11	05/09/23 18:20	1
13C6 PFDA	121		49 - 163	04/20/23 10:11	05/09/23 18:20	1
13C7 PFUnA	124		34 - 174	04/20/23 10:11	05/09/23 18:20	1
d3-NMePFOSA	15		10 - 155	04/20/23 10:11	05/09/23 18:20	1
d5-NEtPFOSA	12		10 - 159	04/20/23 10:11	05/09/23 18:20	1
13C8 FOSA	104		10 - 168	04/20/23 10:11	05/09/23 18:20	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/09/23 18:20	1
13C9 PFNA	119		51 - 167	04/20/23 10:11	05/09/23 18:20	1

Client Sample ID: 2023-MW-06 **Lab Sample ID: 620-10573-3**
Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.86	0.743	ng/L		04/20/23 10:11	05/05/23 00:10	1
11Cl-PF3OUdS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
4:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
6:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
8:2 Fluorotelomer sulfonic acid	ND		1.86	0.557	ng/L		04/20/23 10:11	05/05/23 00:10	1
9Cl-PF3ONS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
DONA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
HFPODA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSAA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSAA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSA	ND		1.86	0.650	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorobutanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorobutanoic acid	**1.04**	**J**	1.86	0.928	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorodecanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorodecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorododecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroheptanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroheptanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexanesulfonic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexanoic acid	**0.231**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorononanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorononanoic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanesulfonamide	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanesulfonic acid	**0.666**	**J I**	1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanoic acid	**1.24**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoropentanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoropentanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorotetradecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorotridecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroundecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*126*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
M2-6:2 FTS	*138*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
M2-8:2 FTS	*159*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C2 PFTeDA	*121*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C3 HFPO-DA	*102*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C3 PFBS	*135*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C4 PFBA	*67*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C4 PFHpA	*119*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C5 PFPeA	*125*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C8 PFOA	*116*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C8 PFOS	*119*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:10*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06
Lab Sample ID: 620-10573-3
Date Collected: 03/30/23 12:10
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	114		31 - 174	04/20/23 10:11	05/05/23 00:10	1
d5-NEtFOSAA	118		29 - 195	04/20/23 10:11	05/05/23 00:10	1
d7-N-MeFOSE-M	87		10 - 178	04/20/23 10:11	05/05/23 00:10	1
d9-N-EtFOSE-M	79		10 - 177	04/20/23 10:11	05/05/23 00:10	1
13C3 PFHxS	123		28 - 188	04/20/23 10:11	05/05/23 00:10	1
13C5 PFHxA	116		24 - 179	04/20/23 10:11	05/05/23 00:10	1
13C6 PFDA	116		49 - 163	04/20/23 10:11	05/05/23 00:10	1
13C7 PFUnA	121		34 - 174	04/20/23 10:11	05/05/23 00:10	1
d3-NMePFOSA	37		10 - 155	04/20/23 10:11	05/05/23 00:10	1
d5-NEtPFOSA	32		10 - 159	04/20/23 10:11	05/05/23 00:10	1
13C8 FOSA	110		10 - 168	04/20/23 10:11	05/05/23 00:10	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/05/23 00:10	1
13C9 PFNA	115		51 - 167	04/20/23 10:11	05/05/23 00:10	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.93	0.770	ng/L		04/20/23 10:11	05/05/23 00:21	1
11Cl-PF3OUdS	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
4:2 Fluorotelomer sulfonic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
6:2 Fluorotelomer sulfonic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
8:2 Fluorotelomer sulfonic acid	ND		1.93	0.578	ng/L		04/20/23 10:11	05/05/23 00:21	1
9Cl-PF3ONS	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
DONA	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
HFPODA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSAA	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSAA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSA	ND		1.93	0.674	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorobutanesulfonic acid	**0.480**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorobutanoic acid	**2.03**		1.93	0.963	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorodecanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorodecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorododecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroheptanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroheptanoic acid	**0.731**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexadecanoic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexanesulfonic acid	**0.326**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexanoic acid	**0.530**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorononanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorononanoic acid	**0.286**	**J I**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctadecanoic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanesulfonamide	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanesulfonic acid	**0.743**	**J**	1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanoic acid	**1.89**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoropentanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoropentanoic acid	**0.646**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorotetradecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorotridecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroundecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*123*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
M2-6:2 FTS	*159*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
M2-8:2 FTS	*154*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C2 PFTeDA	*54*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C3 PFBS	*159*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C4 PFBA	*115*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C4 PFHpA	*107*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C8 PFOA	*111*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C8 PFOS	*110*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:21*	*1*

Client Sample ID: 2023-MW-05 Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	94		31 - 174	04/20/23 10:11	05/05/23 00:21	1
d5-NEtFOSAA	93		29 - 195	04/20/23 10:11	05/05/23 00:21	1
d7-N-MeFOSE-M	32		10 - 178	04/20/23 10:11	05/05/23 00:21	1
d9-N-EtFOSE-M	29		10 - 177	04/20/23 10:11	05/05/23 00:21	1
13C3 PFHxS	124		28 - 188	04/20/23 10:11	05/05/23 00:21	1
13C5 PFHxA	98		24 - 179	04/20/23 10:11	05/05/23 00:21	1
13C6 PFDA	106		49 - 163	04/20/23 10:11	05/05/23 00:21	1
13C7 PFUnA	107		34 - 174	04/20/23 10:11	05/05/23 00:21	1
d3-NMePFOSA	5	*5-	10 - 155	04/20/23 10:11	05/05/23 00:21	1
d5-NEtPFOSA	4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:21	1
13C8 FOSA	74		10 - 168	04/20/23 10:11	05/05/23 00:21	1
13C2-PFDoDA	90		17 - 176	04/20/23 10:11	05/05/23 00:21	1
13C9 PFNA	105		51 - 167	04/20/23 10:11	05/05/23 00:21	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.87	0.748	ng/L		05/10/23 08:01	05/12/23 06:35	1
11Cl-PF3OUdS	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.561	ng/L		05/10/23 08:01	05/12/23 06:35	1
9Cl-PF3ONS	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
DONA	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
HFPODA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSAA	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSE	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSAA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSA	ND	H	1.87	0.654	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSE	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorobutanesulfonic acid	**0.439**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorobutanoic acid	**1.76**	**J H**	1.87	0.935	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorodecanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorodecanoic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorododecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroheptanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroheptanoic acid	**0.542**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexadecanoic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexanesulfonic acid	**0.202**	**J H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexanoic acid	**0.553**	**J H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorononanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorononanoic acid	**0.198**	**J I H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctadecanoic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanesulfonamide	**0.644**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanesulfonic acid	**0.834**	**J H**	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanoic acid	**1.64**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoropentanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoropentanoic acid	**0.542**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05
Lab Sample ID: 620-10573-4
Date Collected: 03/30/23 15:05
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorotridecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroundecanoic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*131*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
M2-6:2 FTS	*168*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
M2-8:2 FTS	*174*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C2 PFTeDA	*72*		*10 - 179*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 HFPO-DA	*99*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 PFBS	*197*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C4 PFBA	*129*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C4 PFHpA	*107*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C5 PFPeA	*167*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 PFOA	*109*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 PFOS	*115*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d3-NMeFOSAA	*105*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d5-NEtFOSAA	*102*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d7-N-MeFOSE-M	*12*		*10 - 178*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d9-N-EtFOSE-M	*13*		*10 - 177*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 PFHxS	*126*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C5 PFHxA	*99*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C6 PFDA	*117*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C7 PFUnA	*119*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d3-NMePFOSA	*0.2*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d5-NEtPFOSA	*0.2*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 FOSA	*36*		*10 - 168*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C2-PFDoDA	*102*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C9 PFNA	*120*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:35*	*1*

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10573-5**
Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.762	ng/L		04/20/23 10:11	05/05/23 00:32	1
11Cl-PF3OUdS	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.572	ng/L		04/20/23 10:11	05/05/23 00:32	1
9Cl-PF3ONS	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
DONA	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
HFPODA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSAA	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSE	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSAA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSA	ND		1.91	0.667	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSE	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorobutanesulfonic acid	**0.501**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorobutanoic acid	**1.86**	**J**	1.91	0.953	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorodecanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorodecanoic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorododecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroheptanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroheptanoic acid	**0.946**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexadecanoic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexanesulfonic acid	**0.242**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexanoic acid	**1.19**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorononanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorononanoic acid	ND		1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctadecanoic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanesulfonamide	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanesulfonic acid	**1.42**	**J**	1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanoic acid	**1.76**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoropentanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoropentanoic acid	**0.852**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorotetradecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorotridecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroundecanoic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*135*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
M2-6:2 FTS	*146*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
M2-8:2 FTS	*145*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C2 PFTeDA	*97*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C3 HFPO-DA	*99*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C3 PFBS	*154*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C4 PFHpA	*112*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C5 PFPeA	*128*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C8 PFOA	*111*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C8 PFOS	*116*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:32*	*1*

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10573-5**
Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	112		31 - 174	04/20/23 10:11	05/05/23 00:32	1
d5-NEtFOSAA	109		29 - 195	04/20/23 10:11	05/05/23 00:32	1
d7-N-MeFOSE-M	13		10 - 178	04/20/23 10:11	05/05/23 00:32	1
d9-N-EtFOSE-M	10		10 - 177	04/20/23 10:11	05/05/23 00:32	1
13C3 PFHxS	127		28 - 188	04/20/23 10:11	05/05/23 00:32	1
13C5 PFHxA	104		24 - 179	04/20/23 10:11	05/05/23 00:32	1
13C6 PFDA	113		49 - 163	04/20/23 10:11	05/05/23 00:32	1
13C7 PFUnA	111		34 - 174	04/20/23 10:11	05/05/23 00:32	1
d3-NMePFOSA	0.2	*5-	10 - 155	04/20/23 10:11	05/05/23 00:32	1
d5-NEtPFOSA	0.4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:32	1
13C8 FOSA	56		10 - 168	04/20/23 10:11	05/05/23 00:32	1
13C2-PFDoDA	100		17 - 176	04/20/23 10:11	05/05/23 00:32	1
13C9 PFNA	113		51 - 167	04/20/23 10:11	05/05/23 00:32	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.98	0.790	ng/L		05/10/23 08:01	05/12/23 06:46	1
11Cl-PF3OUdS	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.593	ng/L		05/10/23 08:01	05/12/23 06:46	1
9Cl-PF3ONS	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
DONA	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
HFPODA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSAA	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSE	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSAA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSA	ND	H	1.98	0.691	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSE	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorobutanesulfonic acid	**0.625**	**J I H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorobutanoic acid	**1.68**	**J H**	1.98	0.988	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorodecanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorodecanoic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorododecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroheptanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroheptanoic acid	**0.803**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexadecanoic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexanesulfonic acid	**0.247**	**J H**	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexanoic acid	**1.08**	**J H**	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorononanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorononanoic acid	ND	H	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctadecanoic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanesulfonamide	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanesulfonic acid	**1.23**	**J H**	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanoic acid	**1.47**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoropentanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoropentanoic acid	**0.733**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorotridecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroundecanoic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*170*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
M2-6:2 FTS	*175*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
M2-8:2 FTS	*195*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C2 PFTeDA	*98*		*10 - 179*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 HFPO-DA	*152*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 PFBS	*184*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C4 PFBA	*140*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C4 PFHpA	*125*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C5 PFPeA	*157*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 PFOA	*128*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 PFOS	*138*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d3-NMeFOSAA	*128*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d5-NEtFOSAA	*133*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d7-N-MeFOSE-M	*38*		*10 - 178*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d9-N-EtFOSE-M	*35*		*10 - 177*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 PFHxS	*144*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C5 PFHxA	*123*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C6 PFDA	*140*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C7 PFUnA	*135*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d3-NMePFOSA	*0.4*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d5-NEtPFOSA	*0.4*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 FOSA	*96*		*10 - 168*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C2-PFDoDA	*125*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C9 PFNA	*139*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:46*	*1*

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	PFTDA	HFPODA	C3PFBS	PFBA	C4PFHA
Lab Sample ID	Client Sample ID	(10-200)	(17-200)	(33-200)	(10-179)	(17-185)	(16-200)	(42-165)	(31-182)
620-10573-1	2023-MW-03	140	142	154	77	85	143	122	123
620-10573-1 - RA	2023-MW-03	129	149	157	73	118	151	121	108
620-10573-2	2023-MW-04	122	144	165	75	119	157	124	106
620-10573-2 MS	2023-MW-04	118	143	159	113	91	155	121	100
620-10573-2 MSD	2023-MW-04	126	137	163	122	91	155	124	112
620-10573-3	2023-MW-06	126	138	159	121	102	135	67	119
620-10573-4	2023-MW-05	123	159	154	54	94	159	115	107
620-10573-4 - RE	2023-MW-05	131	168	174	72	99	197	129	107
620-10573-5	2023-FD-01	135	146	145	97	99	154	121	112
620-10573-5 - RE	2023-FD-01	170	175	195	98	152	184	140	125
LCS 410-366531/2-A	Lab Control Sample	125	133	142	118	110	118	100	117
LCS 410-374042/3-A	Lab Control Sample	155	162	168	115	125	140	110	125
LCSD 410-374042/4-A	Lab Control Sample Dup	147	168	162	113	135	137	122	126
MB 410-366531/1-A	Method Blank	113	118	132	101	94	102	96	110
MB 410-374042/1-A	Method Blank	145	160	165	111	107	129	97	124

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA	C8PFOA	C8PFOS	d3NMFOS	d5NEFOS	NMFM	NEFM	C3PFHS
Lab Sample ID	Client Sample ID	(38-187)	(48-162)	(51-159)	(31-174)	(29-195)	(10-178)	(10-177)	(28-188)
620-10573-1	2023-MW-03	127	118	117	112	110	59	52	122
620-10573-1 - RA	2023-MW-03	133	108	115	113	114	56	52	119
620-10573-2	2023-MW-04	133	107	116	119	130	75	66	122
620-10573-2 MS	2023-MW-04	128	101	115	116	124	87	82	117
620-10573-2 MSD	2023-MW-04	126	113	120	119	125	87	78	126
620-10573-3	2023-MW-06	125	116	119	114	118	87	79	123
620-10573-4	2023-MW-05	132	111	110	94	93	32	29	124
620-10573-4 - RE	2023-MW-05	167	109	115	105	102	12	13	126
620-10573-5	2023-FD-01	128	111	116	112	109	13	10	127
620-10573-5 - RE	2023-FD-01	157	128	138	128	133	38	35	144
LCS 410-366531/2-A	Lab Control Sample	113	116	113	113	115	87	85	120
LCS 410-374042/3-A	Lab Control Sample	132	127	134	127	125	91	88	134
LCSD 410-374042/4-A	Lab Control Sample Dup	131	125	130	124	120	90	84	132
MB 410-366531/1-A	Method Blank	103	105	102	95	99	81	80	106
MB 410-374042/1-A	Method Blank	124	118	126	120	118	86	81	128

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C5PHA	C6PFDA	13C7PUA	d3NMFSA	d5NPFSA	PFOSA	PFDoDA	C9PFNA
Lab Sample ID	Client Sample ID	(24-179)	(49-163)	(34-174)	(10-155)	(10-159)	(10-168)	(17-176)	(51-167)
620-10573-1	2023-MW-03	114	118	114	12	10	98	95	113
620-10573-1 - RA	2023-MW-03	104	116	116	10	8 *5-	100	95	115
620-10573-2	2023-MW-04	98	121	124	15	12	104	120	119
620-10573-2 MS	2023-MW-04	97	116	120	25	20	110	118	117
620-10573-2 MSD	2023-MW-04	106	119	124	24	19	115	124	119
620-10573-3	2023-MW-06	116	116	121	37	32	110	120	115
620-10573-4	2023-MW-05	98	106	107	5 *5-	4 *5-	74	90	105
620-10573-4 - RE	2023-MW-05	99	117	119	0.2 *5-	0.2 *5-	36	102	120
620-10573-5	2023-FD-01	104	113	111	0.2 *5-	0.4 *5-	56	100	113
620-10573-5 - RE	2023-FD-01	123	140	135	0.4 *5-	0.4 *5-	96	125	139
LCS 410-366531/2-A	Lab Control Sample	118	114	117	54	49	116	117	108
LCS 410-374042/3-A	Lab Control Sample	137	122	128	77	72	127	116	133
LCSD 410-374042/4-A	Lab Control Sample Dup	129	128	125	70	65	122	119	130

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C5PHA (24-179)	C6PFDA (49-163)	13C7PUA (34-174)	d3NMFSA (10-155)	d5NPFSA (10-159)	PFOSA (10-168)	PFDoDA (17-176)	C9PFNA (51-167)
MB 410-366531/1-A	Method Blank	109	100	102	56	52	99	106	98
MB 410-374042/1-A	Method Blank	124	124	124	69	64	120	114	127

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		04/20/23 10:11	05/04/23 21:46	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		04/20/23 10:11	05/04/23 21:46	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
DONA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
HFPODA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSAA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSAA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSA	ND		2.00	0.700	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-8:2 FTS	*132*		*33 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 PFBS	*102*		*16 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFBA	*96*		*42 - 165*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFHpA	*110*		*31 - 182*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C5 PFPeA	*103*		*38 - 187*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C8 PFOA	*105*		*48 - 162*	*04/20/23 10:11*	*05/04/23 21:46*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		51 - 159	04/20/23 10:11	05/04/23 21:46	1
d3-NMeFOSAA	95		31 - 174	04/20/23 10:11	05/04/23 21:46	1
d5-NEtFOSAA	99		29 - 195	04/20/23 10:11	05/04/23 21:46	1
d7-N-MeFOSE-M	81		10 - 178	04/20/23 10:11	05/04/23 21:46	1
d9-N-EtFOSE-M	80		10 - 177	04/20/23 10:11	05/04/23 21:46	1
13C3 PFHxS	106		28 - 188	04/20/23 10:11	05/04/23 21:46	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/04/23 21:46	1
13C6 PFDA	100		49 - 163	04/20/23 10:11	05/04/23 21:46	1
13C7 PFUnA	102		34 - 174	04/20/23 10:11	05/04/23 21:46	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/04/23 21:46	1
d5-NEtPFOSA	52		10 - 159	04/20/23 10:11	05/04/23 21:46	1
13C8 FOSA	99		10 - 168	04/20/23 10:11	05/04/23 21:46	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/04/23 21:46	1
13C9 PFNA	98		51 - 167	04/20/23 10:11	05/04/23 21:46	1

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	25.64		ng/L		104	50 - 146
11Cl-PF3OUdS	23.8	22.26		ng/L		94	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	23.85		ng/L		100	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	23.74		ng/L		98	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.72		ng/L		93	55 - 138
9Cl-PF3ONS	23.8	21.21		ng/L		89	59 - 135
DONA	24.2	23.71		ng/L		98	55 - 143
HFPODA	25.6	24.19		ng/L		94	50 - 135
NEtFOSAA	25.6	24.04		ng/L		94	55 - 134
NEtFOSA	25.6	27.04		ng/L		106	61 - 134
NEtFOSE	25.6	25.95		ng/L		101	60 - 136
NMeFOSAA	25.6	25.46		ng/L		99	59 - 140
NMeFOSA	25.6	27.19		ng/L		106	64 - 143
NMeFOSE	25.6	26.14		ng/L		102	55 - 144
Perfluorobutanesulfonic acid	22.7	21.97		ng/L		97	53 - 138
Perfluorobutanoic acid	25.6	25.47		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	24.7	23.63		ng/L		96	55 - 137
Perfluorodecanoic acid	25.6	25.78		ng/L		101	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.45		ng/L		95	48 - 138
Perfluorododecanoic acid	25.6	24.96		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	24.4	25.00		ng/L		103	56 - 140
Perfluoroheptanoic acid	25.6	25.36		ng/L		99	59 - 145
Perfluorohexadecanoic acid	25.6	21.75		ng/L		85	41 - 158
Perfluorohexanesulfonic acid	23.3	22.33		ng/L		96	58 - 134
Perfluorohexanoic acid	25.6	22.43		ng/L		88	58 - 139
Perfluorononanesulfonic acid	24.6	23.55		ng/L		96	59 - 136
Perfluorononanoic acid	25.6	25.14		ng/L		98	61 - 139
Perfluorooctadecanoic acid	25.6	20.85		ng/L		81	29 - 172

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	25.6	24.56		ng/L		96	43 - 167
Perfluorooctanesulfonic acid	23.7	21.94		ng/L		93	45 - 150
Perfluorooctanoic acid	25.6	24.80		ng/L		97	51 - 145
Perfluoropentanesulfonic acid	24.0	24.25		ng/L		101	55 - 140
Perfluoropentanoic acid	25.6	24.96		ng/L		97	57 - 141
Perfluorotetradecanoic acid	25.6	24.34		ng/L		95	62 - 139
Perfluorotridecanoic acid	25.6	25.74		ng/L		101	58 - 146
Perfluoroundecanoic acid	25.6	26.31		ng/L		103	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*125*		*10 - 200*
M2-6:2 FTS	*133*		*17 - 200*
M2-8:2 FTS	*142*		*33 - 200*
13C2 PFTeDA	*118*		*10 - 179*
13C3 HFPO-DA	*110*		*17 - 185*
13C3 PFBS	*118*		*16 - 200*
13C4 PFBA	*100*		*42 - 165*
13C4 PFHpA	*117*		*31 - 182*
13C5 PFPeA	*113*		*38 - 187*
13C8 PFOA	*116*		*48 - 162*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*113*		*31 - 174*
d5-NEtFOSAA	*115*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*85*		*10 - 177*
13C3 PFHxS	*120*		*28 - 188*
13C5 PFHxA	*118*		*24 - 179*
13C6 PFDA	*114*		*49 - 163*
13C7 PFUnA	*117*		*34 - 174*
d3-NMePFOSA	*54*		*10 - 155*
d5-NEtPFOSA	*49*		*10 - 159*
13C8 FOSA	*116*		*10 - 168*
13C2-PFDoDA	*117*		*17 - 176*
13C9 PFNA	*108*		*51 - 167*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	ND		22.9	19.99		ng/L		87	50 - 146
11Cl-PF3OUdS	ND		22.1	23.15		ng/L		105	53 - 139
4:2 Fluorotelomer sulfonic acid	ND		22.2	20.99		ng/L		94	55 - 139
6:2 Fluorotelomer sulfonic acid	ND		22.5	20.92		ng/L		93	28 - 173
8:2 Fluorotelomer sulfonic acid	ND		22.8	20.99		ng/L		92	55 - 138
9Cl-PF3ONS	ND		22.1	22.83		ng/L		103	59 - 135
DONA	ND		22.5	25.80		ng/L		115	55 - 143
HFPODA	ND		23.8	30.91		ng/L		130	50 - 135
NEtFOSAA	ND		23.8	22.92		ng/L		96	55 - 134

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSA	ND		23.8	25.76		ng/L		108	61 - 134
NEtFOSE	ND		23.8	24.30		ng/L		102	60 - 136
NMeFOSAA	ND		23.8	22.63		ng/L		95	59 - 140
NMeFOSA	ND		23.8	25.70		ng/L		108	64 - 143
NMeFOSE	ND		23.8	23.77		ng/L		100	55 - 144
Perfluorobutanesulfonic acid	0.318	J	21.0	19.22		ng/L		90	53 - 138
Perfluorobutanoic acid	1.19	J	23.8	24.80		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	ND		22.9	23.65		ng/L		103	55 - 137
Perfluorodecanoic acid	ND		23.8	25.88		ng/L		109	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	ND		23.0	22.57		ng/L		98	48 - 138
Perfluorododecanoic acid	ND		23.8	23.21		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	ND		22.6	23.47		ng/L		104	56 - 140
Perfluoroheptanoic acid	1.45	J	23.8	24.35		ng/L		96	59 - 145
Perfluorohexadecanoic acid	ND		23.8	18.35		ng/L		77	41 - 158
Perfluorohexanesulfonic acid	0.635	J	21.7	22.21		ng/L		99	58 - 134
Perfluorohexanoic acid	0.610	J	23.8	25.68		ng/L		105	58 - 139
Perfluorononanesulfonic acid	ND		22.8	23.31		ng/L		102	59 - 136
Perfluorononanoic acid	0.565	J	23.8	23.60		ng/L		97	61 - 139
Perfluorooctadecanoic acid	ND	F1	23.8	6.748	F1	ng/L		28	29 - 172
Perfluorooctanesulfonamide	ND		23.8	23.59		ng/L		99	43 - 167
Perfluorooctanesulfonic acid	16.8		22.0	40.53		ng/L		108	45 - 150
Perfluorooctanoic acid	10.5		23.8	39.29		ng/L		121	51 - 145
Perfluoropentanesulfonic acid	ND		22.3	23.24		ng/L		104	55 - 140
Perfluoropentanoic acid	ND		23.8	22.76		ng/L		96	57 - 141
Perfluorotetradecanoic acid	ND		23.8	23.22		ng/L		98	62 - 139
Perfluorotridecanoic acid	ND		23.8	23.15		ng/L		97	58 - 146
Perfluoroundecanoic acid	ND		23.8	24.78		ng/L		104	60 - 141

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*118*		*10 - 200*
M2-6:2 FTS	*143*		*17 - 200*
M2-8:2 FTS	*159*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*91*		*17 - 185*
13C3 PFBS	*155*		*16 - 200*
13C4 PFBA	*121*		*42 - 165*
13C4 PFHpA	*100*		*31 - 182*
13C5 PFPeA	*128*		*38 - 187*
13C8 PFOA	*101*		*48 - 162*
13C8 PFOS	*115*		*51 - 159*
d3-NMeFOSAA	*116*		*31 - 174*
d5-NEtFOSAA	*124*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*82*		*10 - 177*
13C3 PFHxS	*117*		*28 - 188*
13C5 PFHxA	*97*		*24 - 179*
13C6 PFDA	*116*		*49 - 163*
13C7 PFUnA	*120*		*34 - 174*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d3-NMePFOSA	25		10 - 155
d5-NEtPFOSA	20		10 - 159
13C8 FOSA	110		10 - 168
13C2-PFDoDA	118		17 - 176
13C9 PFNA	117		51 - 167

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 372358

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS	ND		24.2	23.84		ng/L		99	50 - 146	0	30
11Cl-PF3OUdS	ND		23.3	23.56		ng/L		101	53 - 139	9	30
4:2 Fluorotelomer sulfonic acid	ND		23.4	22.14		ng/L		94	55 - 139	2	30
6:2 Fluorotelomer sulfonic acid	ND		23.8	23.21		ng/L		98	28 - 173	1	30
8:2 Fluorotelomer sulfonic acid	ND		24.0	21.72		ng/L		90	55 - 138	1	30
9Cl-PF3ONS	ND		23.3	22.10		ng/L		95	59 - 135	9	30
DONA	ND		23.7	25.02		ng/L		106	55 - 143	3	30
HFPODA	ND		25.1	30.49		ng/L		122	50 - 135	14	30
NEtFOSAA	ND		25.1	23.02		ng/L		92	55 - 134	3	30
NEtFOSA	ND		25.1	27.09		ng/L		108	61 - 134	10	30
NEtFOSE	ND		25.1	25.26		ng/L		101	60 - 136	2	30
NMeFOSAA	ND		25.1	25.52		ng/L		102	59 - 140	7	30
NMeFOSA	ND		25.1	24.76		ng/L		99	64 - 143	8	30
NMeFOSE	ND		25.1	23.80		ng/L		95	55 - 144	5	30
Perfluorobutanesulfonic acid	ND		22.2	24.33		ng/L		110	53 - 138	0	30
Perfluorobutanoic acid	1.16	J	25.1	25.66		ng/L		98	59 - 136	4	30
Perfluorodecanesulfonic acid	ND		24.2	24.29		ng/L		100	55 - 137	9	30
Perfluorodecanoic acid	ND		25.1	26.17		ng/L		104	56 - 138	8	30
Perfluorododecanesulfonic acid (PFDoS)	ND		24.3	23.48		ng/L		97	48 - 138	7	30
Perfluorododecanoic acid	ND		25.1	25.48		ng/L		102	59 - 143	6	30
Perfluoroheptanesulfonic acid	ND		23.9	23.88		ng/L		100	56 - 140	8	30
Perfluoroheptanoic acid	2.32		25.1	27.12		ng/L		99	59 - 145	4	30
Perfluorohexadecanoic acid	ND		25.1	17.55		ng/L		70	41 - 158	9	30
Perfluorohexanesulfonic acid	0.880	J	22.9	22.98		ng/L		97	58 - 134	3	30
Perfluorohexanoic acid	0.632	J	25.1	24.88		ng/L		97	58 - 139	6	30
Perfluorononanesulfonic acid	ND		24.1	23.89		ng/L		99	59 - 136	9	30
Perfluorononanoic acid	0.531	J	25.1	25.09		ng/L		98	61 - 139	2	30
Perfluorooctadecanoic acid	ND		25.1	3.974		ng/L		16	29 - 172	89	30
Perfluorooctanesulfonamide	ND		25.1	25.25		ng/L		101	43 - 167	7	30
Perfluorooctanesulfonic acid	16.1		23.2	39.18		ng/L		99	45 - 150	2	30
Perfluorooctanoic acid	9.78		25.1	35.78		ng/L		104	51 - 145	8	30
Perfluoropentanesulfonic acid	ND		23.5	24.26		ng/L		103	55 - 140	6	30
Perfluoropentanoic acid	0.655	J	25.1	24.75		ng/L		96	57 - 141	6	30
Perfluorotetradecanoic acid	ND		25.1	23.85		ng/L		95	62 - 139	6	30
Perfluorotridecanoic acid	ND		25.1	24.36		ng/L		97	58 - 146	0	30
Perfluoroundecanoic acid	ND		25.1	26.40		ng/L		105	60 - 141	9	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	126		10 - 200
M2-6:2 FTS	137		17 - 200
M2-8:2 FTS	163		33 - 200
13C2 PFTeDA	122		10 - 179
13C3 HFPO-DA	91		17 - 185
13C3 PFBS	155		16 - 200
13C4 PFBA	124		42 - 165
13C4 PFHpA	112		31 - 182
13C5 PFPeA	126		38 - 187
13C8 PFOA	113		48 - 162
13C8 PFOS	120		51 - 159
d3-NMeFOSAA	119		31 - 174
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	87		10 - 178
d9-N-EtFOSE-M	78		10 - 177
13C3 PFHxS	126		28 - 188
13C5 PFHxA	106		24 - 179
13C6 PFDA	119		49 - 163
13C7 PFUnA	124		34 - 174
d3-NMePFOSA	24		10 - 155
d5-NEtPFOSA	19		10 - 159
13C8 FOSA	115		10 - 168
13C2-PFDoDA	124		17 - 176
13C9 PFNA	119		51 - 167

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		05/10/23 08:01	05/12/23 05:51	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		05/10/23 08:01	05/12/23 05:51	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
DONA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
HFPODA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSAA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSAA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSA	ND		2.00	0.700	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-6:2 FTS	*160*		*17 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2 PFTeDA	*111*		*10 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 HFPO-DA	*107*		*17 - 185*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFBS	*129*		*16 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFBA	*97*		*42 - 165*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFHpA	*124*		*31 - 182*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFPeA	*124*		*38 - 187*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOA	*118*		*48 - 162*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOS	*126*		*51 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMeFOSAA	*120*		*31 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtFOSAA	*118*		*29 - 195*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d7-N-MeFOSE-M	*86*		*10 - 178*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d9-N-EtFOSE-M	*81*		*10 - 177*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFHxS	*128*		*28 - 188*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFHxA	*124*		*24 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C6 PFDA	*124*		*49 - 163*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C7 PFUnA	*124*		*34 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMePFOSA	*69*		*10 - 155*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtPFOSA	*64*		*10 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 FOSA	*120*		*10 - 168*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2-PFDoDA	*114*		*17 - 176*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C9 PFNA	*127*		*51 - 167*	*05/10/23 08:01*	*05/12/23 05:51*	*1*

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	13.75		ng/L		56	50 - 146
11Cl-PF3OUdS	23.8	15.47		ng/L		65	53 - 139

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4:2 Fluorotelomer sulfonic acid	23.9	16.51		ng/L		69	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	17.47		ng/L		72	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	15.33		ng/L		63	55 - 138
9Cl-PF3ONS	23.8	16.13		ng/L		68	59 - 135
DONA	24.2	17.83		ng/L		74	55 - 143
HFPODA	25.6	19.60		ng/L		77	50 - 135
NEtFOSAA	25.6	17.15		ng/L		67	55 - 134
NEtFOSA	25.6	19.74		ng/L		77	61 - 134
NEtFOSE	25.6	17.97		ng/L		70	60 - 136
NMeFOSAA	25.6	16.82		ng/L		66	59 - 140
NMeFOSA	25.6	19.43		ng/L		76	64 - 143
NMeFOSE	25.6	18.67		ng/L		73	55 - 144
Perfluorobutanesulfonic acid	22.7	15.70		ng/L		69	53 - 138
Perfluorobutanoic acid	25.6	17.75		ng/L		69	59 - 136
Perfluorodecanesulfonic acid	24.7	16.51		ng/L		67	55 - 137
Perfluorodecanoic acid	25.6	20.02		ng/L		78	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	15.27		ng/L		62	48 - 138
Perfluorododecanoic acid	25.6	18.89		ng/L		74	59 - 143
Perfluoroheptanesulfonic acid	24.4	16.66		ng/L		68	56 - 140
Perfluoroheptanoic acid	25.6	18.98		ng/L		74	59 - 145
Perfluorohexadecanoic acid	25.6	16.57		ng/L		65	41 - 158
Perfluorohexanesulfonic acid	23.3	15.83		ng/L		68	58 - 134
Perfluorohexanoic acid	25.6	16.32		ng/L		64	58 - 139
Perfluorononanesulfonic acid	24.6	15.85		ng/L		64	59 - 136
Perfluorononanoic acid	25.6	18.41		ng/L		72	61 - 139
Perfluorooctadecanoic acid	25.6	16.51		ng/L		65	29 - 172
Perfluorooctanesulfonamide	25.6	16.86		ng/L		66	43 - 167
Perfluorooctanesulfonic acid	23.7	16.19		ng/L		68	45 - 150
Perfluorooctanoic acid	25.6	20.10		ng/L		79	51 - 145
Perfluoropentanesulfonic acid	24.0	16.12		ng/L		67	55 - 140
Perfluoropentanoic acid	25.6	17.11		ng/L		67	57 - 141
Perfluorotetradecanoic acid	25.6	17.88		ng/L		70	62 - 139
Perfluorotridecanoic acid	25.6	18.58		ng/L		73	58 - 146
Perfluoroundecanoic acid	25.6	18.81		ng/L		73	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*155*		*10 - 200*
M2-6:2 FTS	*162*		*17 - 200*
M2-8:2 FTS	*168*		*33 - 200*
13C2 PFTeDA	*115*		*10 - 179*
13C3 HFPO-DA	*125*		*17 - 185*
13C3 PFBS	*140*		*16 - 200*
13C4 PFBA	*110*		*42 - 165*
13C4 PFHpA	*125*		*31 - 182*
13C5 PFPeA	*132*		*38 - 187*
13C8 PFOA	*127*		*48 - 162*
13C8 PFOS	*134*		*51 - 159*
d3-NMeFOSAA	*127*		*31 - 174*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	91		10 - 178
d9-N-EtFOSE-M	88		10 - 177
13C3 PFHxS	134		28 - 188
13C5 PFHxA	137		24 - 179
13C6 PFDA	122		49 - 163
13C7 PFUnA	128		34 - 174
d3-NMePFOSA	77		10 - 155
d5-NEtPFOSA	72		10 - 159
13C8 FOSA	127		10 - 168
13C2-PFDoDA	116		17 - 176
13C9 PFNA	133		51 - 167

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS			24.7	14.31		ng/L		58	50 - 146	4	30
11Cl-PF3OUdS			23.8	16.60		ng/L		70	53 - 139	7	30
4:2 Fluorotelomer sulfonic acid			23.9	17.25		ng/L		72	55 - 139	4	30
6:2 Fluorotelomer sulfonic acid			24.3	16.77		ng/L		69	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	16.32		ng/L		67	55 - 138	6	30
9Cl-PF3ONS			23.8	16.72		ng/L		70	59 - 135	4	30
DONA			24.2	17.69		ng/L		73	55 - 143	1	30
HFPODA			25.6	18.61		ng/L		73	50 - 135	5	30
NEtFOSAA			25.6	18.00		ng/L		70	55 - 134	5	30
NEtFOSA			25.6	20.65		ng/L		81	61 - 134	5	30
NEtFOSE			25.6	18.85		ng/L		74	60 - 136	5	30
NMeFOSAA			25.6	18.46		ng/L		72	59 - 140	9	30
NMeFOSA			25.6	18.92		ng/L		74	64 - 143	3	30
NMeFOSE			25.6	17.97		ng/L		70	55 - 144	4	30
Perfluorobutanesulfonic acid			22.7	16.38		ng/L		72	53 - 138	4	30
Perfluorobutanoic acid			25.6	17.78		ng/L		69	59 - 136	0	30
Perfluorodecanesulfonic acid			24.7	16.60		ng/L		67	55 - 137	1	30
Perfluorodecanoic acid			25.6	19.60		ng/L		77	56 - 138	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	15.85		ng/L		64	48 - 138	4	30
Perfluorododecanoic acid			25.6	19.20		ng/L		75	59 - 143	2	30
Perfluoroheptanesulfonic acid			24.4	17.09		ng/L		70	56 - 140	3	30
Perfluoroheptanoic acid			25.6	18.70		ng/L		73	59 - 145	1	30
Perfluorohexadecanoic acid			25.6	17.37		ng/L		68	41 - 158	5	30
Perfluorohexanesulfonic acid			23.3	16.34		ng/L		70	58 - 134	3	30
Perfluorohexanoic acid			25.6	17.67		ng/L		69	58 - 139	8	30
Perfluorononanesulfonic acid			24.6	17.23		ng/L		70	59 - 136	8	30
Perfluorononanoic acid			25.6	18.69		ng/L		73	61 - 139	2	30
Perfluorooctadecanoic acid			25.6	17.90		ng/L		70	29 - 172	8	30
Perfluorooctanesulfonamide			25.6	17.99		ng/L		70	43 - 167	7	30
Perfluorooctanesulfonic acid			23.7	16.90		ng/L		71	45 - 150	4	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.6	18.79		ng/L		73	51 - 145	7	30
Perfluoropentanesulfonic acid			24.0	17.33		ng/L		72	55 - 140	7	30
Perfluoropentanoic acid			25.6	17.91		ng/L		70	57 - 141	5	30
Perfluorotetradecanoic acid			25.6	18.16		ng/L		71	62 - 139	2	30
Perfluorotridecanoic acid			25.6	17.88		ng/L		70	58 - 146	4	30
Perfluoroundecanoic acid			25.6	19.38		ng/L		76	60 - 141	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*147*		*10 - 200*
M2-6:2 FTS	*168*		*17 - 200*
M2-8:2 FTS	*162*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*135*		*17 - 185*
13C3 PFBS	*137*		*16 - 200*
13C4 PFBA	*122*		*42 - 165*
13C4 PFHpA	*126*		*31 - 182*
13C5 PFPeA	*131*		*38 - 187*
13C8 PFOA	*125*		*48 - 162*
13C8 PFOS	*130*		*51 - 159*
d3-NMeFOSAA	*124*		*31 - 174*
d5-NEtFOSAA	*120*		*29 - 195*
d7-N-MeFOSE-M	*90*		*10 - 178*
d9-N-EtFOSE-M	*84*		*10 - 177*
13C3 PFHxS	*132*		*28 - 188*
13C5 PFHxA	*129*		*24 - 179*
13C6 PFDA	*128*		*49 - 163*
13C7 PFUnA	*125*		*34 - 174*
d3-NMePFOSA	*70*		*10 - 155*
d5-NEtPFOSA	*65*		*10 - 159*
13C8 FOSA	*122*		*10 - 168*
13C2-PFDoDA	*119*		*17 - 176*
13C9 PFNA	*130*		*51 - 167*

LCMS

Prep Batch: 366531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	SPE	
620-10573-1 - RA	2023-MW-03	Total/NA	Water	SPE	
620-10573-2	2023-MW-04	Total/NA	Water	SPE	
620-10573-3	2023-MW-06	Total/NA	Water	SPE	
620-10573-4	2023-MW-05	Total/NA	Water	SPE	
620-10573-5	2023-FD-01	Total/NA	Water	SPE	
MB 410-366531/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	SPE	
620-10573-2 MS	2023-MW-04	Total/NA	Water	SPE	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	SPE	

Analysis Batch: 372358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	537 IDA	366531
620-10573-3	2023-MW-06	Total/NA	Water	537 IDA	366531
620-10573-4	2023-MW-05	Total/NA	Water	537 IDA	366531
620-10573-5	2023-FD-01	Total/NA	Water	537 IDA	366531
MB 410-366531/1-A	Method Blank	Total/NA	Water	537 IDA	366531
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	537 IDA	366531
620-10573-2 MSD	2023-MW-04	Total/NA	Water	537 IDA	366531

Analysis Batch: 373753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1 - RA	2023-MW-03	Total/NA	Water	537 IDA	366531
620-10573-2	2023-MW-04	Total/NA	Water	537 IDA	366531
620-10573-2 MS	2023-MW-04	Total/NA	Water	537 IDA	366531

Prep Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-4 - RE	2023-MW-05	Total/NA	Water	SPE	
620-10573-5 - RE	2023-FD-01	Total/NA	Water	SPE	
MB 410-374042/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Analysis Batch: 374796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-4 - RE	2023-MW-05	Total/NA	Water	537 IDA	374042
620-10573-5 - RE	2023-FD-01	Total/NA	Water	537 IDA	374042
MB 410-374042/1-A	Method Blank	Total/NA	Water	537 IDA	374042
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	537 IDA	374042
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	374042

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Date Collected: 03/30/23 11:25 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/04/23 23:15
Total/NA	Prep	SPE	RA		366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA	RA	1	373753	UUV6	ELLE	05/09/23 18:08

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 18:20

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Date Collected: 03/30/23 12:10 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:10

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:21
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:35

Client Sample ID: 2023-FD-01 — Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:32
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:46

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
SPE	PFAS by SPE	Lab SOP	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10573-1	2023-MW-03	Water	03/30/23 11:25	03/31/23 15:05
620-10573-2	2023-MW-04	Water	03/30/23 14:20	03/31/23 15:05
620-10573-3	2023-MW-06	Water	03/30/23 12:10	03/31/23 15:05
620-10573-4	2023-MW-05	Water	03/30/23 15:05	03/31/23 15:05
620-10573-5	2023-FD-01	Water	03/30/23 08:00	03/31/23 15:05

10573

620-10573 Chain of Custody

Chain of Custody Record

Boston #215

eurofins | Environment Testing

Sampler: L Mato. S Stone	Lab PM:	Carrier Tracking No(s).	COC No: 620-9105-1141 1
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 3
Company: Nobis Engineering Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested			
City: Lowell	TAT Requested (days): STD			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone:	PO #: S00001.002			
Email: bfortier@nobis-group.com / dmcgrath@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs SW846 8260	SVOCs SW846 8270	VPH SW846 8082	PCBs 8082	Metals 6020/7471A	PFAS EPA method 537.1	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
01	2023-MW-03	3/30/23	1125	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-04		1420		Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-06		1210		Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-05		1505		Water			✓	✓	✓	✓	✓	✓		
05	2023-FD-01		800		Water			✓	✓	✓	✓	✓	✓		
06	Trip Blank 2023-TB-01		700		Water			✓		✓					
					Water										
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I II, III, IV, Other (specify)

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com 2023-MW-04 is MS/MSD EQuis EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
L Mato	3/30/23 724		Basement Fridge	3/30/23 724	
[signature]	3/30/23 3:07		[signature]	3/31/23 1505	EtA
[signature]	4/3/23 1314	EtA	[signature]	4/3/23 1314	EWG

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: 2 G W 2 2.8 HG

Ver: 06/08/2021

5/15/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-2

Login Number: 10573
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-2

Login Number: 10573
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

August 16, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620105792
Eurofins Lancaster Laboratory, Lancaster, PA (sub-contractor to Eurofins New England Laboratory, North Kingstown, RI)

Tier 1 Stage 2A Organic Data Review:

Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) by 537 mod.

5/Groundwater Samples: 2023-MW-01-20230331, 2023-MW-02-20230331, 2023-MW-07-20230331, 2023-MW-08-20230331, 2023-MW-09-20230331
1/PFAS Field Blank: 2023-PFB-01-20230331

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 31, 2023. The samples were analyzed for PFAS by EPA Method 537 mod., by Eurofins Lancaster Laboratory in Lancaster, PA, as sub-contractor to Eurofins New England Laboratory in North Kingstown.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's Data and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

The data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
* • Preservation and Technical Holding Times
* • Blanks
• Surrogates (organic analyses only)

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

NA	•	Internal Standards
NA	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
NA	•	Field Duplicates
NA	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
NA	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Note that the date of sample collection was appended to the sample IDs for this SDG in order to differentiate sample IDs from other collections at this site.

The COC for this SDG includes sample analyses for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), MassDEP volatile petroleum hydrocarbon (VPH), and metals analyses, as well as a trip blank for VOC and VPH analyses. Data for these analyses are reported and evaluated in SDG 620105791. Results of the PFAS analyses are reported in this SDG only; therefore, only the PFAS data were evaluated in this review.

Non-detect results for 3 PFAS compounds were rejected (R) in samples 2023-MW-02-20230331 and/or 2023-MW-08-20230331 due to low surrogate recovery. Results are not usable for project objectives.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

PFAS:
Results for three PFAS compounds were rejected in samples 2023-MW-02-20230331 and/or 2023-MW-08-20230331 due to low surrogate recovery. Results were also qualified for surrogate recoveries.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Gary Glennon
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
10:2 FTS	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
11Cl-PF3OUdS (F53B Minor)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ng/L	1.99 U	R	1.86 U	1.81 U	1.78 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ng/L	1.99 U	1.93 UJ	1.86 U	1.81 U	1.78 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
4:2 Fluorotelomer sulfonic acid	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
6:2 Fluorotelomer sulfonate	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
8:2 Fluorotelomer sulfonate	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
9Cl-PF3ONS	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
N-ethylperfluoro-1-octanesulfonamide	ng/L	1.99 UJ	R	1.86 UJ	R	1.78 UJ
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
N-methylperfluoro-1-octanesulfonamide	ng/L	1.99 UJ	R	1.86 UJ	1.81 UJ	1.78 UJ
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.99 U	0.709 J	0.367 J	1.81 U	0.905 J
Perfluorobutanoic Acid (PFBA)	ng/L	1.99 U	1.93 U	1.36 J	1.81 U	1.78 U
Perfluorodecane Sulfonate	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
Perfluorodecanoic Acid (PFDA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluorododecanesulfonic acid (PFDoS)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluorododecanoic Acid (PFDoA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluoroheptane sulfonate	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluoroheptanoic acid (PFHpA)	ng/L	1.99 U	0.91 J	0.419 J	1.81 U	1.78 U
Perfluorohexadecanoic acid	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluorohexanesulfonic acid (PFHxS)	ng/L	0.244 J	1.23 J	1.86 U	1.81 U	0.411 J
Perfluorohexanoic Acid (PFHxA)	ng/L	0.199 J	0.709 J	0.52 J	0.197 J	0.191 J
Perfluorononanesulfonic acid	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluorononanoic acid (PFNA)	ng/L	0.22 J	1.93 U	0.249 J	1.81 U	1.78 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluorooctadecanoic acid	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluorooctanesulfonic acid (PFOS)	ng/L	0.892 J	1.21 J	1.44 J	1.81 U	0.484 J
Perfluorooctanoic acid (PFOA)	ng/L	0.991 J	3.22	1.15 J	0.483 J	0.701 J
Perfluorooctylsulfonamide	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluoropentanoic Acid	ng/L	1.99 U	0.587 J	1.86 U	1.81 U	1.78 U
Perfluoropetanesulfonic acid (PFPeS)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U
Perfluoroundecanoic Acid (PFUna)	ng/L	1.99 U	1.93 U	1.86 U	1.81 U	1.78 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Water Quality Control Matrix
Lab Sample ID		620-10579-6
Field Sample ID		2023-PFB-01-20230331
Sample Type		FB
Parent Sample ID		
Sample Date	**Units**	03/31/23
10:2 FTS	ng/L	1.97 U
11Cl-PF3OUdS (F53B Minor)	ng/L	1.97 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	ng/L	1.97 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	ng/L	1.97 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ng/L	1.97 U
4:2 Fluorotelomer sulfonic acid	ng/L	1.97 U
6:2 Fluorotelomer sulfonate	ng/L	1.97 U
8:2 Fluorotelomer sulfonate	ng/L	1.97 U
9Cl-PF3ONS	ng/L	1.97 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ng/L	1.97 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ng/L	1.97 U
N-ethylperfluoro-1-octanesulfonamide	ng/L	1.97 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ng/L	1.97 U
N-methylperfluoro-1-octanesulfonamide	ng/L	1.97 U
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.97 U
Perfluorobutanoic Acid (PFBA)	ng/L	1.97 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Water Quality Control Matrix
Lab Sample ID		620-10579-6
Field Sample ID		2023-PFB-01-20230331
Sample Type		FB
Parent Sample ID		
Sample Date	**Units**	03/31/23
Perfluorodecane Sulfonate	ng/L	1.97 U
Perfluorodecanoic Acid (PFDA)	ng/L	1.97 U
Perfluorododecanesulfonic acid (PFDoS)	ng/L	1.97 U
Perfluorododecanoic Acid (PFDoA)	ng/L	1.97 U
Perfluoroheptane sulfonate	ng/L	1.97 U
Perfluoroheptanoic acid (PFHpA)	ng/L	1.97 U
Perfluorohexadecanoic acid	ng/L	1.97 U
Perfluorohexanesulfonic acid (PFHxS)	ng/L	1.97 U
Perfluorohexanoic Acid (PFHxA)	ng/L	1.97 U
Perfluorononanesulfonic acid	ng/L	1.97 U
Perfluorononanoic acid (PFNA)	ng/L	1.97 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	ng/L	1.97 U
Perfluoro-n-tridecanoic acid (PFTrDA)	ng/L	1.97 U
Perfluorooctadecanoic acid	ng/L	1.97 U
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.97 U
Perfluorooctanoic acid (PFOA)	ng/L	1.97 U
Perfluorooctylsulfonamide	ng/L	1.97 U
Perfluoropentanoic Acid	ng/L	1.97 U
Perfluoropetanesulfonic acid (PFPeS)	ng/L	1.97 U

DATA SUMMARY TABLE

Analysis		Per- and Polyfluoroalkyl Substances (PFAS) in Water Quality Control Matrix
Lab Sample ID		620-10579-6
Field Sample ID		2023-PFB-01-20230331
Sample Type		FB
Parent Sample ID		
Sample Date	**Units**	03/31/23
Perfluoroundecanoic Acid (PFUna)	ng/L	1.97 U

Data Review Qualification Actions
American Tissue Mill
SDG 620105792

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PFAS					
	N-EtFOSE-M, NMePFOSA	2023-MW-02-20230331	Surrogate recovery (< 10%)	R	
	NEtPFOSA	2023-MW-02-20230331, 2023-MW-08-20230331	Surrogate recovery (< 10%)	R	
	PFBS	2023-MW-07-20230331, 2023-MW-09-20230331	Surrogate recovery	J	
	NMePFOSA, NEtPFOSA	2023-MW-01-20230331, 2023-MW-07-20230331, 2023-MW-09-20230331	Surrogate recovery	UJ	
	N-MeFOSE-M	2023-MW-02-20230331	Surrogate recovery	UJ	
	PFOS	2023-MW-02-20230331	Surrogate recovery	J	
	NMePFOSA	2023-MW-08-20230331	Surrogate recovery	UJ	

NEtPFOSA - N-ethylperfluoro-1-octanesulfonamide
NMePFOSA - N-methylperfluoro-1-octanesulfonamide
PFPeA - Perfluoropentanoic acid
PFDoDA / PFDoA - Perfluorododecanoic acid
FOSA Perfluorooctylsulfonamide
NMeFOSE - 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
N-EtFOSE-M 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol
PFBS - Perfluorobutanesulfonic acid

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 07/18/2023
Methods: Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins Lancaster Laboratory, Lancaster, PA (sub-contractor to Eurofins New England Laboratory, North Kingstown, RI)
SDG: 620105792
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Five (5) groundwater samples were listed on the COC for SDG 620105792. A PFAS field blank was also included on the COC. The samples were collected on 03/31/2023 and received at Eurofins New England Laboratory on 04/03/2023 at 2.4 °C. Samples for PFAS analysis were subsequently shipped to Eurofins Lancaster Laboratory on 04/03/2023. The samples were received at Eurofins Lancaster on 04/05/2023 at 2.0 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-01-20230331	620-10579-1	PFAS
2023-MW-02-20230331	620-10579-2	
2023-MW-07-20230331	620-10579-3	
2023-MW-08-20230331	620-10579-4	
2023-MW-09-20230331	620-10579-5	
2023-PFB-01-20230331	620-10579-6	

Note that the date of sample collection was appended to the sample IDs for this SDG in order to differentiate sample IDs from other collections at this site.

The COC for this SDG includes sample analyses for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), MassDEP volatile petroleum hydrocarbon (VPH), and metals analyses, as well as a trip blank for VOC and VPH analyses. Data for these analyses are reported and evaluated in SDG 620105791. Results of the PFAS analyses are reported in this SDG; therefore, only the PFAS data were evaluated in this review.

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). The data were also evaluated using USEPA's Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018).

The analyte list reported by the laboratory was compared to the required analyte list per Table 2 (aqueous) in the QAPPA (February 2023) for the site. Results for all PFAS compounds on Table

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2 of QAPPA were reported by the laboratory. Results for several additional PFAS compounds were also reported by the laboratory. No actions are required.

2. **Holding Time and Sample Preservation Compliance**

   Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

   PFAS: Samples were extracted outside the QAPP-specified holding time of 14 days from collection for aqueous samples but within 28 days of extraction, consistent with other PFAS aqueous methods (e.g., EPA Method 533). Site objectives are not impacted by the use of a 28-day holding time. Samples were analyzed within 28 days of extraction. No actions are required.

3. **Calibration Issues**

   Not assessed for S2AVM data review.

4. **Laboratory and Field Blanks**

   PFAS: Results for PFAS were non-detect in all laboratory method blanks as well as the PFAS field blank. No blank actions are required.

5. **Interference Check Sample (metals only)**

   Not assessed for S2AVM data review.

6. **Surrogates**

   PFAS: Percent recoveries of select surrogates did not meet the Program QAPP limits of 50-150% in the samples. Based on the EPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (November 2018), detected and non-detect results with associated surrogate recovery below limits (but > 10%) are qualified as estimated (J/UJ). Detected results with associated surrogate recovery above limits are qualified as estimated (J) and non-detect results are accepted unqualified since the potential bias is high. Detected results with associated surrogate recoveries < 10% are qualified as estimated (J) and non-detect results are rejected (R). Refer to the Data Review Qualification Actions Table for action details.

   Note that samples 2023-MW-02-20230331 (620-10579-2) and 2023-MW-08-20230331 (620-10579-4) were re-extracted due to exceeded surrogate recoveries. Results of the re-analyses confirmed the recoveries in the original analyses; therefore, results from the original analyses are reported.

7. **Laboratory Control Samples**

   PFAS: Percent recoveries for all PFAS LCS/LCSD analyses met the laboratory limits and no actions are required. Note that there is no MCP CAM method for the PFAS analysis and the Program QAPP did not include LCS recovery limits for PFAS. Therefore, the laboratory-established limits were used to evaluate the LCS/LCSD results. RPDs met the laboratory limit of ≤ 30%.

8. **Matrix Spikes**

Based on the EPA Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537 (November 2018), MS/MSD qualifications are applied to the parent sample only.

PFAS: MS/MSD analyses were not requested on the COC for this SDG. No actions are required.

9. **Laboratory Duplicates**

Note that Table 2-12-1 of the Program QAPP lists a laboratory duplicate as a QC sample for the PFAS analysis with no associated QC limit. A laboratory duplicate analysis was not reported by the laboratory for the PFAS analysis. The EPA Data Review and Validation Guidelines for PFAS (November 2018) does not include discussion of laboratory duplicate analyses. No actions are taken.

10. **Serial Dilution (metals only)**

Not applicable for this analysis.

11. **Field Duplicate Precision**

A field duplicate sample was not submitted with the samples of this SDG. No actions are required.

12. **Internal Standards**

Not assessed for S2AVM data review.

13. **Dual Column Precision (PCBs only)**

Not applicable for this analysis.

14. **Performance Evaluation Samples**

Performance Evaluation (PE) samples were not included in this SDG.

15. **Reporting Limits**

There are no Project Action Levels (PALs) associated with the PFAS analysis for this site.

16. **Other**

Region 1 Supplement (2020) criterion for percent solids content (> 30%) is not applicable for aqueous samples.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

10579

Chain of Custody Record

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620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
					Preservation Code:			A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water								✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
K. Mato	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/11/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8924.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10579-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/12/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	PRE_SCREEN_PFAS/PFAS_PreScn_W_P	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
2023-MW-01 (620-10579-1)	3/31/23	12:15 Eastern		Water			X	X	X	X	3	
2023-MW-02 (620-10579-2)	3/31/23	16:00 Eastern		Water			X	X	X	X	3	
2023-MW-07 (620-10579-3)	3/31/23	10:55 Eastern		Water			X	X	X	X	3	
2023-MW-08 (620-10579-4)	3/31/23	11:00 Eastern		Water			X	X	X	X	3	
2023-MW-09 (620-10579-5)	3/31/23	09:20 Eastern		Water			X	X	X	X	3	
2023-PFB-01 (620-10579-6)	3/31/23	18:30 Eastern		Water					X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/3/23 16:37	ENE	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/5/23 9:55	ENET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.0

Ver: 06/08/2021

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10579-2

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

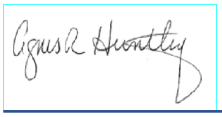
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10579-2

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/15/2023

Job ID: 620-10579-2

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10579-2

Receipt
The samples were received on 4/3/2023 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

LCMS
Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-08 (620-10579-4) is outside of the QC limits for the initial injection. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the sample injection standard in the re-extracted sample(s) was within the QC acceptance limits. The data is reported.

Method 537 (modified): The recovery for the labeled isotope(s) d9-N-EtFOSE-M, d3-NMePFOSA and d5-NEtPFOSA in the following sample: 2023-MW-02 (620-10579-2) are outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) were again outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope(s) d5-NEtPFOSA in the following sample: 2023-MW-08 (620-10579-4) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was again outside the QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-01 — Lab Sample ID: 620-10579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	0.244	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.199	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.220	J I	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.892	J I	1.99	0.497	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.991	J	1.99	0.298	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-02 — Lab Sample ID: 620-10579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.709	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.910	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.23	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.709	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.21	J I	1.93	0.482	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	3.22		1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.587	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.311	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RE	0.516	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.564	J H	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	0.517	J H	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	0.844	J I H	1.94	0.484	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.91	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.369	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-07 — Lab Sample ID: 620-10579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.367	J	1.86	0.278	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.36	J	1.86	0.928	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.419	J	1.86	0.278	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.520	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.249	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.44	J	1.86	0.464	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.15	J	1.86	0.278	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-08 — Lab Sample ID: 620-10579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.197	J	1.81	0.181	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.483	J	1.81	0.271	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	0.308	J H	2.00	0.300	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-09 — Lab Sample ID: 620-10579-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.905	J	1.78	0.266	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.411	J	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.191	J	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.484	J I	1.78	0.444	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.701	J	1.78	0.266	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-PFB-01 — Lab Sample ID: 620-10579-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-01
Date Collected: 03/31/23 12:15
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.99	0.796	ng/L		04/20/23 10:11	05/09/23 18:53	1
11Cl-PF3OUdS	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
4:2 Fluorotelomer sulfonic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
6:2 Fluorotelomer sulfonic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
8:2 Fluorotelomer sulfonic acid	ND		1.99	0.597	ng/L		04/20/23 10:11	05/09/23 18:53	1
9Cl-PF3ONS	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
DONA	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
HFPODA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSAA	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSAA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSA	ND		1.99	0.696	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorobutanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorobutanoic acid	ND		1.99	0.995	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorodecanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorodecanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorododecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroheptanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroheptanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexadecanoic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexanesulfonic acid	**0.244**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexanoic acid	**0.199**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorononanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorononanoic acid	**0.220**	**J I**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctadecanoic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanesulfonamide	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanesulfonic acid	**0.892**	**J I**	1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanoic acid	**0.991**	**J**	1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoropentanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoropentanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorotetradecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorotridecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroundecanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
M2-6:2 FTS	*137*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
M2-8:2 FTS	*153*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C2 PFTeDA	*106*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C3 HFPO-DA	*90*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C3 PFBS	*154*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C4 PFBA	*117*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C4 PFHpA	*104*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C8 PFOA	*106*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C8 PFOS	*110*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:53*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01
Lab Sample ID: 620-10579-1
Date Collected: 03/31/23 12:15
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	114		31 - 174	04/20/23 10:11	05/09/23 18:53	1
d5-NEtFOSAA	117		29 - 195	04/20/23 10:11	05/09/23 18:53	1
d7-N-MeFOSE-M	75		10 - 178	04/20/23 10:11	05/09/23 18:53	1
d9-N-EtFOSE-M	74		10 - 177	04/20/23 10:11	05/09/23 18:53	1
13C3 PFHxS	115		28 - 188	04/20/23 10:11	05/09/23 18:53	1
13C5 PFHxA	102		24 - 179	04/20/23 10:11	05/09/23 18:53	1
13C6 PFDA	112		49 - 163	04/20/23 10:11	05/09/23 18:53	1
13C7 PFUnA	116		34 - 174	04/20/23 10:11	05/09/23 18:53	1
d3-NMePFOSA	20		10 - 155	04/20/23 10:11	05/09/23 18:53	1
d5-NEtPFOSA	18		10 - 159	04/20/23 10:11	05/09/23 18:53	1
13C8 FOSA	101		10 - 168	04/20/23 10:11	05/09/23 18:53	1
13C2-PFDoDA	116		17 - 176	04/20/23 10:11	05/09/23 18:53	1
13C9 PFNA	116		51 - 167	04/20/23 10:11	05/09/23 18:53	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-02

Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.93	0.771	ng/L		04/20/23 10:11	05/05/23 00:54	1
11Cl-PF3OUdS	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
4:2 Fluorotelomer sulfonic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
6:2 Fluorotelomer sulfonic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
8:2 Fluorotelomer sulfonic acid	ND		1.93	0.578	ng/L		04/20/23 10:11	05/05/23 00:54	1
9Cl-PF3ONS	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
DONA	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
HFPODA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSAA	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSAA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSA	ND		1.93	0.674	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorobutanesulfonic acid	**0.709**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorobutanoic acid	ND		1.93	0.963	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorodecanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorodecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorododecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroheptanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroheptanoic acid	**0.910**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexadecanoic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexanesulfonic acid	**1.23**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexanoic acid	**0.709**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorononanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorononanoic acid	ND		1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctadecanoic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanesulfonamide	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanesulfonic acid	**1.21**	**J I**	1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanoic acid	**3.22**		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoropentanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoropentanoic acid	**0.587**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorotetradecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorotridecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroundecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*130*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
M2-6:2 FTS	*135*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
M2-8:2 FTS	*143*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C2 PFTeDA	*99*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C3 HFPO-DA	*113*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C3 PFBS	*138*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C4 PFBA	*116*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C4 PFHpA	*118*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C5 PFPeA	*121*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C8 PFOA	*117*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C8 PFOS	*118*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:54*	*1*

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	115		31 - 174	04/20/23 10:11	05/05/23 00:54	1
d5-NEtFOSAA	107		29 - 195	04/20/23 10:11	05/05/23 00:54	1
d7-N-MeFOSE-M	14		10 - 178	04/20/23 10:11	05/05/23 00:54	1
d9-N-EtFOSE-M	8	*5-	10 - 177	04/20/23 10:11	05/05/23 00:54	1
13C3 PFHxS	124		28 - 188	04/20/23 10:11	05/05/23 00:54	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/05/23 00:54	1
13C6 PFDA	112		49 - 163	04/20/23 10:11	05/05/23 00:54	1
13C7 PFUnA	110		34 - 174	04/20/23 10:11	05/05/23 00:54	1
d3-NMePFOSA	0.3	*5-	10 - 155	04/20/23 10:11	05/05/23 00:54	1
d5-NEtPFOSA	0.4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:54	1
13C8 FOSA	49		10 - 168	04/20/23 10:11	05/05/23 00:54	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/05/23 00:54	1
13C9 PFNA	112		51 - 167	04/20/23 10:11	05/05/23 00:54	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.94	0.774	ng/L		05/10/23 08:01	05/12/23 06:57	1
11Cl-PF3OUdS	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.581	ng/L		05/10/23 08:01	05/12/23 06:57	1
9Cl-PF3ONS	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
DONA	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
HFPODA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSAA	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSE	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSAA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSA	ND	H	1.94	0.678	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSE	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorobutanesulfonic acid	**0.311**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorobutanoic acid	ND	H	1.94	0.968	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorodecanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorodecanoic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorododecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroheptanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroheptanoic acid	**0.516**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexadecanoic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexanesulfonic acid	**0.564**	**J H**	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexanoic acid	**0.517**	**J H**	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorononanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorononanoic acid	ND	H	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctadecanoic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanesulfonamide	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanesulfonic acid	**0.844**	**J I H**	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanoic acid	**1.91**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoropentanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoropentanoic acid	**0.369**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-02
Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorotridecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroundecanoic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
M2-6:2 FTS	*135*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
M2-8:2 FTS	*133*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C2 PFTeDA	*6*	**5-*	*10 - 179*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 HFPO-DA	*106*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 PFBS	*135*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C4 PFBA	*110*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C4 PFHpA	*102*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C5 PFPeA	*123*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 PFOA	*101*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 PFOS	*100*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d3-NMeFOSAA	*86*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d5-NEtFOSAA	*74*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d7-N-MeFOSE-M	*0.4*	**5-*	*10 - 178*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d9-N-EtFOSE-M	*0.3*	**5-*	*10 - 177*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 PFHxS	*113*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C5 PFHxA	*101*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C6 PFDA	*94*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C7 PFUnA	*67*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d3-NMePFOSA	*0.07*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d5-NEtPFOSA	*0.08*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 FOSA	*9*	**5-*	*10 - 168*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C2-PFDoDA	*27*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C9 PFNA	*106*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:57*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-07
Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.86	0.742	ng/L		04/20/23 10:11	05/09/23 19:04	1
11Cl-PF3OUdS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
4:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
6:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
8:2 Fluorotelomer sulfonic acid	ND		1.86	0.557	ng/L		04/20/23 10:11	05/09/23 19:04	1
9Cl-PF3ONS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
DONA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
HFPODA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSAA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSAA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSA	ND		1.86	0.650	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorobutanesulfonic acid	**0.367**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorobutanoic acid	**1.36**	**J**	1.86	0.928	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorodecanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorodecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorododecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroheptanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroheptanoic acid	**0.419**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexanesulfonic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexanoic acid	**0.520**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorononanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorononanoic acid	**0.249**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanesulfonamide	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanesulfonic acid	**1.44**	**J**	1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanoic acid	**1.15**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoropentanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoropentanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorotetradecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorotridecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroundecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*125*		*10 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
M2-6:2 FTS	*143*		*17 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C2 PFTeDA	*93*		*10 - 179*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C3 HFPO-DA	*98*		*17 - 185*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C3 PFBS	*165*		*16 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C4 PFHpA	*114*		*31 - 182*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C5 PFPeA	*142*		*38 - 187*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C8 PFOA	*116*		*48 - 162*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C8 PFOS	*121*		*51 - 159*	*04/20/23 10:11*	*05/09/23 19:04*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07
Lab Sample ID: 620-10579-3
Date Collected: 03/31/23 10:55
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	121		31 - 174	04/20/23 10:11	05/09/23 19:04	1
d5-NEtFOSAA	123		29 - 195	04/20/23 10:11	05/09/23 19:04	1
d7-N-MeFOSE-M	95		10 - 178	04/20/23 10:11	05/09/23 19:04	1
d9-N-EtFOSE-M	90		10 - 177	04/20/23 10:11	05/09/23 19:04	1
13C3 PFHxS	127		28 - 188	04/20/23 10:11	05/09/23 19:04	1
13C5 PFHxA	106		24 - 179	04/20/23 10:11	05/09/23 19:04	1
13C6 PFDA	120		49 - 163	04/20/23 10:11	05/09/23 19:04	1
13C7 PFUnA	118		34 - 174	04/20/23 10:11	05/09/23 19:04	1
d3-NMePFOSA	41		10 - 155	04/20/23 10:11	05/09/23 19:04	1
d5-NEtPFOSA	34		10 - 159	04/20/23 10:11	05/09/23 19:04	1
13C8 FOSA	115		10 - 168	04/20/23 10:11	05/09/23 19:04	1
13C2-PFDoDA	113		17 - 176	04/20/23 10:11	05/09/23 19:04	1
13C9 PFNA	124		51 - 167	04/20/23 10:11	05/09/23 19:04	1

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.81	0.722	ng/L		04/20/23 10:11	05/05/23 01:16	1
11Cl-PF3OUdS	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
4:2 Fluorotelomer sulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
6:2 Fluorotelomer sulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
8:2 Fluorotelomer sulfonic acid	ND		1.81	0.542	ng/L		04/20/23 10:11	05/05/23 01:16	1
9Cl-PF3ONS	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
DONA	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
HFPODA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSAA	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSE	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSAA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSA	ND		1.81	0.632	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSE	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorobutanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorobutanoic acid	ND		1.81	0.903	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorodecanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorodecanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorododecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroheptanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroheptanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexadecanoic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexanesulfonic acid	ND		1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexanoic acid	**0.197**	**J**	1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorononanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorononanoic acid	ND		1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctadecanoic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanesulfonamide	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanesulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanoic acid	**0.483**	**J**	1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoropentanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoropentanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorotetradecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorotridecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroundecanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*141*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
M2-6:2 FTS	*155*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
M2-8:2 FTS	*153*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C2 PFTeDA	*110*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C3 HFPO-DA	*124*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C3 PFBS	*144*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C4 PFHpA	*131*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C5 PFPeA	*130*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C8 PFOA	*124*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C8 PFOS	*120*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:16*	*1*

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	116		31 - 174	04/20/23 10:11	05/05/23 01:16	1
d5-NEtFOSAA	114		29 - 195	04/20/23 10:11	05/05/23 01:16	1
d7-N-MeFOSE-M	67		10 - 178	04/20/23 10:11	05/05/23 01:16	1
d9-N-EtFOSE-M	59		10 - 177	04/20/23 10:11	05/05/23 01:16	1
13C3 PFHxS	130		28 - 188	04/20/23 10:11	05/05/23 01:16	1
13C5 PFHxA	123		24 - 179	04/20/23 10:11	05/05/23 01:16	1
13C6 PFDA	121		49 - 163	04/20/23 10:11	05/05/23 01:16	1
13C7 PFUnA	123		34 - 174	04/20/23 10:11	05/05/23 01:16	1
d3-NMePFOSA	12		10 - 155	04/20/23 10:11	05/05/23 01:16	1
d5-NEtPFOSA	9	*5-	10 - 159	04/20/23 10:11	05/05/23 01:16	1
13C8 FOSA	103		10 - 168	04/20/23 10:11	05/05/23 01:16	1
13C2-PFDoDA	118		17 - 176	04/20/23 10:11	05/05/23 01:16	1
13C9 PFNA	114		51 - 167	04/20/23 10:11	05/05/23 01:16	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	2.00	0.799	ng/L		05/10/23 08:01	05/12/23 07:08	1
11Cl-PF3OUdS	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
4:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
6:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
8:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.599	ng/L		05/10/23 08:01	05/12/23 07:08	1
9Cl-PF3ONS	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
DONA	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
HFPODA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSAA	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSE	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSAA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSA	ND	H	2.00	0.699	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSE	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorobutanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorobutanoic acid	ND	H	2.00	0.998	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorodecanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorodecanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorododecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroheptanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroheptanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexadecanoic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexanesulfonic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexanoic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorononanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorononanoic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctadecanoic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanesulfonamide	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanesulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanoic acid	**0.308**	**J H**	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoropentanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoropentanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-08
Date Collected: 03/31/23 11:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-4
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorotridecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroundecanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*155*		*10 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
M2-6:2 FTS	*171*		*17 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
M2-8:2 FTS	*184*		*33 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C2 PFTeDA	*52*		*10 - 179*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 HFPO-DA	*140*		*17 - 185*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 PFBS	*170*		*16 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C4 PFBA	*110*		*42 - 165*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C4 PFHpA	*127*		*31 - 182*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C5 PFPeA	*155*		*38 - 187*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 PFOA	*127*		*48 - 162*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 PFOS	*133*		*51 - 159*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d3-NMeFOSAA	*130*		*31 - 174*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d5-NEtFOSAA	*130*		*29 - 195*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d7-N-MeFOSE-M	*19*		*10 - 178*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d9-N-EtFOSE-M	*17*		*10 - 177*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 PFHxS	*142*		*28 - 188*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C5 PFHxA	*125*		*24 - 179*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C6 PFDA	*135*		*49 - 163*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C7 PFUnA	*128*		*34 - 174*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d3-NMePFOSA	*0.4*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d5-NEtPFOSA	*0.2*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 FOSA	*101*		*10 - 168*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C2-PFDoDA	*111*		*17 - 176*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C9 PFNA	*135*		*51 - 167*	*05/10/23 08:01*	*05/12/23 07:08*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-09
Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.78	0.710	ng/L		04/20/23 10:11	05/05/23 01:28	1
11Cl-PF3OUdS	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
4:2 Fluorotelomer sulfonic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
6:2 Fluorotelomer sulfonic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
8:2 Fluorotelomer sulfonic acid	ND		1.78	0.533	ng/L		04/20/23 10:11	05/05/23 01:28	1
9Cl-PF3ONS	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
DONA	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
HFPODA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSAA	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSE	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSAA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSA	ND		1.78	0.622	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSE	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorobutanesulfonic acid	**0.905**	**J**	1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorobutanoic acid	ND		1.78	0.888	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorodecanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorodecanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorododecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroheptanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroheptanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexadecanoic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexanesulfonic acid	**0.411**	**J**	1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexanoic acid	**0.191**	**J**	1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorononanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorononanoic acid	ND		1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctadecanoic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanesulfonamide	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanesulfonic acid	**0.484**	**J I**	1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanoic acid	**0.701**	**J**	1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoropentanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoropentanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorotetradecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorotridecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroundecanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*135*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
M2-6:2 FTS	*142*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
M2-8:2 FTS	*168*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C2 PFTeDA	*129*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C3 HFPO-DA	*95*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C3 PFBS	*153*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C4 PFBA	*126*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C4 PFHpA	*125*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C8 PFOA	*124*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C8 PFOS	*124*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:28*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09
Lab Sample ID: 620-10579-5
Date Collected: 03/31/23 09:20
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	120		31 - 174	04/20/23 10:11	05/05/23 01:28	1
d5-NEtFOSAA	122		29 - 195	04/20/23 10:11	05/05/23 01:28	1
d7-N-MeFOSE-M	94		10 - 178	04/20/23 10:11	05/05/23 01:28	1
d9-N-EtFOSE-M	93		10 - 177	04/20/23 10:11	05/05/23 01:28	1
13C3 PFHxS	131		28 - 188	04/20/23 10:11	05/05/23 01:28	1
13C5 PFHxA	116		24 - 179	04/20/23 10:11	05/05/23 01:28	1
13C6 PFDA	122		49 - 163	04/20/23 10:11	05/05/23 01:28	1
13C7 PFUnA	124		34 - 174	04/20/23 10:11	05/05/23 01:28	1
d3-NMePFOSA	37		10 - 155	04/20/23 10:11	05/05/23 01:28	1
d5-NEtPFOSA	34		10 - 159	04/20/23 10:11	05/05/23 01:28	1
13C8 FOSA	118		10 - 168	04/20/23 10:11	05/05/23 01:28	1
13C2-PFDoDA	125		17 - 176	04/20/23 10:11	05/05/23 01:28	1
13C9 PFNA	115		51 - 167	04/20/23 10:11	05/05/23 01:28	1

Client Sample ID: 2023-PFB-01 Lab Sample ID: 620-10579-6

Date Collected: 03/31/23 18:30 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.97	0.787	ng/L		04/20/23 10:11	05/05/23 01:39	1
11Cl-PF3OUdS	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
4:2 Fluorotelomer sulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
6:2 Fluorotelomer sulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
8:2 Fluorotelomer sulfonic acid	ND		1.97	0.591	ng/L		04/20/23 10:11	05/05/23 01:39	1
9Cl-PF3ONS	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
DONA	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
HFPODA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSAA	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSE	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSAA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSA	ND		1.97	0.689	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSE	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorobutanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorobutanoic acid	ND		1.97	0.984	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorodecanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorodecanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorododecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroheptanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroheptanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexadecanoic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexanesulfonic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexanoic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorononanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorononanoic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctadecanoic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanesulfonamide	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanesulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoropentanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoropentanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorotetradecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorotridecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroundecanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*136*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
M2-6:2 FTS	*149*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
M2-8:2 FTS	*152*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C2 PFTeDA	*129*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C3 HFPO-DA	*116*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C3 PFBS	*131*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C4 PFHpA	*127*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C5 PFPeA	*127*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C8 PFOA	*125*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C8 PFOS	*127*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:39*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-PFB-01
Lab Sample ID: 620-10579-6
Date Collected: 03/31/23 18:30
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	116		31 - 174	04/20/23 10:11	05/05/23 01:39	1
d5-NEtFOSAA	119		29 - 195	04/20/23 10:11	05/05/23 01:39	1
d7-N-MeFOSE-M	93		10 - 178	04/20/23 10:11	05/05/23 01:39	1
d9-N-EtFOSE-M	95		10 - 177	04/20/23 10:11	05/05/23 01:39	1
13C3 PFHxS	129		28 - 188	04/20/23 10:11	05/05/23 01:39	1
13C5 PFHxA	129		24 - 179	04/20/23 10:11	05/05/23 01:39	1
13C6 PFDA	118		49 - 163	04/20/23 10:11	05/05/23 01:39	1
13C7 PFUnA	121		34 - 174	04/20/23 10:11	05/05/23 01:39	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/05/23 01:39	1
d5-NEtPFOSA	56		10 - 159	04/20/23 10:11	05/05/23 01:39	1
13C8 FOSA	117		10 - 168	04/20/23 10:11	05/05/23 01:39	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/05/23 01:39	1
13C9 PFNA	124		51 - 167	04/20/23 10:11	05/05/23 01:39	1

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	PFTDA	HFPODA	C3PFBS	PFBA	C4PFHA
Lab Sample ID	Client Sample ID	(10-200)	(17-200)	(33-200)	(10-179)	(17-185)	(16-200)	(42-165)	(31-182)
620-10579-1	2023-MW-01	114	137	153	106	90	154	117	104
620-10579-2	2023-MW-02	130	135	143	99	113	138	116	118
620-10579-2 - RE	2023-MW-02	145	135	133	6 *5-	106	135	110	102
620-10579-3	2023-MW-07	125	143	165	93	98	165	124	114
620-10579-4	2023-MW-08	141	155	153	110	124	144	124	131
620-10579-4 - RE	2023-MW-08	155	171	184	52	140	170	110	127
620-10579-5	2023-MW-09	135	142	168	129	95	153	126	125
620-10579-6	2023-PFB-01	136	149	152	129	116	131	121	127
LCS 410-366531/2-A	Lab Control Sample	125	133	142	118	110	118	100	117
LCS 410-374042/3-A	Lab Control Sample	155	162	168	115	125	140	110	125
LCSD 410-374042/4-A	Lab Control Sample Dup	147	168	162	113	135	137	122	126
MB 410-366531/1-A	Method Blank	113	118	132	101	94	102	96	110
MB 410-374042/1-A	Method Blank	145	160	165	111	107	129	97	124

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA	C8PFOA	C8PFOS	d3NMFOS	d5NEFOS	NMFM	NEFM	C3PFHS
Lab Sample ID	Client Sample ID	(38-187)	(48-162)	(51-159)	(31-174)	(29-195)	(10-178)	(10-177)	(28-188)
620-10579-1	2023-MW-01	132	106	110	114	117	75	74	115
620-10579-2	2023-MW-02	121	117	118	115	107	14	8 *5-	124
620-10579-2 - RE	2023-MW-02	123	101	100	86	74	0.4 *5-	0.3 *5-	113
620-10579-3	2023-MW-07	142	116	121	121	123	95	90	127
620-10579-4	2023-MW-08	130	124	120	116	114	67	59	130
620-10579-4 - RE	2023-MW-08	155	127	133	130	130	19	17	142
620-10579-5	2023-MW-09	132	124	124	120	122	94	93	131
620-10579-6	2023-PFB-01	127	125	127	116	119	93	95	129
LCS 410-366531/2-A	Lab Control Sample	113	116	113	113	115	87	85	120
LCS 410-374042/3-A	Lab Control Sample	132	127	134	127	125	91	88	134
LCSD 410-374042/4-A	Lab Control Sample Dup	131	125	130	124	120	90	84	132
MB 410-366531/1-A	Method Blank	103	105	102	95	99	81	80	106
MB 410-374042/1-A	Method Blank	124	118	126	120	118	86	81	128

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C5PHA	C6PFDA	13C7PUA	d3NMFSA	d5NPFSA	PFOSA	PFDoDA	C9PFNA
Lab Sample ID	Client Sample ID	(24-179)	(49-163)	(34-174)	(10-155)	(10-159)	(10-168)	(17-176)	(51-167)
620-10579-1	2023-MW-01	102	112	116	20	18	101	116	116
620-10579-2	2023-MW-02	109	112	110	0.3 *5-	0.4 *5-	49	106	112
620-10579-2 - RE	2023-MW-02	101	94	67	0.07 *5-	0.08 *5-	9 *5-	27	106
620-10579-3	2023-MW-07	106	120	118	41	34	115	113	124
620-10579-4	2023-MW-08	123	121	123	12	9 *5-	103	118	114
620-10579-4 - RE	2023-MW-08	125	135	128	0.4 *5-	0.2 *5-	101	111	135
620-10579-5	2023-MW-09	116	122	124	37	34	118	125	115
620-10579-6	2023-PFB-01	129	118	121	56	56	117	120	124
LCS 410-366531/2-A	Lab Control Sample	118	114	117	54	49	116	117	108
LCS 410-374042/3-A	Lab Control Sample	137	122	128	77	72	127	116	133
LCSD 410-374042/4-A	Lab Control Sample Dup	129	128	125	70	65	122	119	130
MB 410-366531/1-A	Method Blank	109	100	102	56	52	99	106	98
MB 410-374042/1-A	Method Blank	124	124	124	69	64	120	114	127

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		04/20/23 10:11	05/04/23 21:46	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		04/20/23 10:11	05/04/23 21:46	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
DONA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
HFPODA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSAA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSAA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSA	ND		2.00	0.700	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-8:2 FTS	*132*		*33 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 PFBS	*102*		*16 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFBA	*96*		*42 - 165*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFHpA	*110*		*31 - 182*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C5 PFPeA	*103*		*38 - 187*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C8 PFOA	*105*		*48 - 162*	*04/20/23 10:11*	*05/04/23 21:46*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		51 - 159	04/20/23 10:11	05/04/23 21:46	1
d3-NMeFOSAA	95		31 - 174	04/20/23 10:11	05/04/23 21:46	1
d5-NEtFOSAA	99		29 - 195	04/20/23 10:11	05/04/23 21:46	1
d7-N-MeFOSE-M	81		10 - 178	04/20/23 10:11	05/04/23 21:46	1
d9-N-EtFOSE-M	80		10 - 177	04/20/23 10:11	05/04/23 21:46	1
13C3 PFHxS	106		28 - 188	04/20/23 10:11	05/04/23 21:46	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/04/23 21:46	1
13C6 PFDA	100		49 - 163	04/20/23 10:11	05/04/23 21:46	1
13C7 PFUnA	102		34 - 174	04/20/23 10:11	05/04/23 21:46	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/04/23 21:46	1
d5-NEtPFOSA	52		10 - 159	04/20/23 10:11	05/04/23 21:46	1
13C8 FOSA	99		10 - 168	04/20/23 10:11	05/04/23 21:46	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/04/23 21:46	1
13C9 PFNA	98		51 - 167	04/20/23 10:11	05/04/23 21:46	1

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	25.64		ng/L		104	50 - 146
11Cl-PF3OUdS	23.8	22.26		ng/L		94	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	23.85		ng/L		100	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	23.74		ng/L		98	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.72		ng/L		93	55 - 138
9Cl-PF3ONS	23.8	21.21		ng/L		89	59 - 135
DONA	24.2	23.71		ng/L		98	55 - 143
HFPODA	25.6	24.19		ng/L		94	50 - 135
NEtFOSAA	25.6	24.04		ng/L		94	55 - 134
NEtFOSA	25.6	27.04		ng/L		106	61 - 134
NEtFOSE	25.6	25.95		ng/L		101	60 - 136
NMeFOSAA	25.6	25.46		ng/L		99	59 - 140
NMeFOSA	25.6	27.19		ng/L		106	64 - 143
NMeFOSE	25.6	26.14		ng/L		102	55 - 144
Perfluorobutanesulfonic acid	22.7	21.97		ng/L		97	53 - 138
Perfluorobutanoic acid	25.6	25.47		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	24.7	23.63		ng/L		96	55 - 137
Perfluorodecanoic acid	25.6	25.78		ng/L		101	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.45		ng/L		95	48 - 138
Perfluorododecanoic acid	25.6	24.96		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	24.4	25.00		ng/L		103	56 - 140
Perfluoroheptanoic acid	25.6	25.36		ng/L		99	59 - 145
Perfluorohexadecanoic acid	25.6	21.75		ng/L		85	41 - 158
Perfluorohexanesulfonic acid	23.3	22.33		ng/L		96	58 - 134
Perfluorohexanoic acid	25.6	22.43		ng/L		88	58 - 139
Perfluorononanesulfonic acid	24.6	23.55		ng/L		96	59 - 136
Perfluorononanoic acid	25.6	25.14		ng/L		98	61 - 139
Perfluorooctadecanoic acid	25.6	20.85		ng/L		81	29 - 172

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	25.6	24.56		ng/L		96	43 - 167
Perfluorooctanesulfonic acid	23.7	21.94		ng/L		93	45 - 150
Perfluorooctanoic acid	25.6	24.80		ng/L		97	51 - 145
Perfluoropentanesulfonic acid	24.0	24.25		ng/L		101	55 - 140
Perfluoropentanoic acid	25.6	24.96		ng/L		97	57 - 141
Perfluorotetradecanoic acid	25.6	24.34		ng/L		95	62 - 139
Perfluorotridecanoic acid	25.6	25.74		ng/L		101	58 - 146
Perfluoroundecanoic acid	25.6	26.31		ng/L		103	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*125*		*10 - 200*
M2-6:2 FTS	*133*		*17 - 200*
M2-8:2 FTS	*142*		*33 - 200*
13C2 PFTeDA	*118*		*10 - 179*
13C3 HFPO-DA	*110*		*17 - 185*
13C3 PFBS	*118*		*16 - 200*
13C4 PFBA	*100*		*42 - 165*
13C4 PFHpA	*117*		*31 - 182*
13C5 PFPeA	*113*		*38 - 187*
13C8 PFOA	*116*		*48 - 162*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*113*		*31 - 174*
d5-NEtFOSAA	*115*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*85*		*10 - 177*
13C3 PFHxS	*120*		*28 - 188*
13C5 PFHxA	*118*		*24 - 179*
13C6 PFDA	*114*		*49 - 163*
13C7 PFUnA	*117*		*34 - 174*
d3-NMePFOSA	*54*		*10 - 155*
d5-NEtPFOSA	*49*		*10 - 159*
13C8 FOSA	*116*		*10 - 168*
13C2-PFDoDA	*117*		*17 - 176*
13C9 PFNA	*108*		*51 - 167*

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		05/10/23 08:01	05/12/23 05:51	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		05/10/23 08:01	05/12/23 05:51	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
DONA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
HFPODA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSAA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSAA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSA	ND		2.00	0.700	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-6:2 FTS	*160*		*17 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2 PFTeDA	*111*		*10 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 HFPO-DA	*107*		*17 - 185*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFBS	*129*		*16 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFBA	*97*		*42 - 165*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFHpA	*124*		*31 - 182*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFPeA	*124*		*38 - 187*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOA	*118*		*48 - 162*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOS	*126*		*51 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMeFOSAA	*120*		*31 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtFOSAA	*118*		*29 - 195*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d7-N-MeFOSE-M	*86*		*10 - 178*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d9-N-EtFOSE-M	*81*		*10 - 177*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFHxS	*128*		*28 - 188*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFHxA	*124*		*24 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C6 PFDA	*124*		*49 - 163*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C7 PFUnA	*124*		*34 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	69		10 - 155	05/10/23 08:01	05/12/23 05:51	1
d5-NEtPFOSA	64		10 - 159	05/10/23 08:01	05/12/23 05:51	1
13C8 FOSA	120		10 - 168	05/10/23 08:01	05/12/23 05:51	1
13C2-PFDoDA	114		17 - 176	05/10/23 08:01	05/12/23 05:51	1
13C9 PFNA	127		51 - 167	05/10/23 08:01	05/12/23 05:51	1

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	13.75		ng/L		56	50 - 146
11Cl-PF3OUdS	23.8	15.47		ng/L		65	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	16.51		ng/L		69	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	17.47		ng/L		72	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	15.33		ng/L		63	55 - 138
9Cl-PF3ONS	23.8	16.13		ng/L		68	59 - 135
DONA	24.2	17.83		ng/L		74	55 - 143
HFPODA	25.6	19.60		ng/L		77	50 - 135
NEtFOSAA	25.6	17.15		ng/L		67	55 - 134
NEtFOSA	25.6	19.74		ng/L		77	61 - 134
NEtFOSE	25.6	17.97		ng/L		70	60 - 136
NMeFOSAA	25.6	16.82		ng/L		66	59 - 140
NMeFOSA	25.6	19.43		ng/L		76	64 - 143
NMeFOSE	25.6	18.67		ng/L		73	55 - 144
Perfluorobutanesulfonic acid	22.7	15.70		ng/L		69	53 - 138
Perfluorobutanoic acid	25.6	17.75		ng/L		69	59 - 136
Perfluorodecanesulfonic acid	24.7	16.51		ng/L		67	55 - 137
Perfluorodecanoic acid	25.6	20.02		ng/L		78	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	15.27		ng/L		62	48 - 138
Perfluorododecanoic acid	25.6	18.89		ng/L		74	59 - 143
Perfluoroheptanesulfonic acid	24.4	16.66		ng/L		68	56 - 140
Perfluoroheptanoic acid	25.6	18.98		ng/L		74	59 - 145
Perfluorohexadecanoic acid	25.6	16.57		ng/L		65	41 - 158
Perfluorohexanesulfonic acid	23.3	15.83		ng/L		68	58 - 134
Perfluorohexanoic acid	25.6	16.32		ng/L		64	58 - 139
Perfluorononanesulfonic acid	24.6	15.85		ng/L		64	59 - 136
Perfluorononanoic acid	25.6	18.41		ng/L		72	61 - 139
Perfluorooctadecanoic acid	25.6	16.51		ng/L		65	29 - 172
Perfluorooctanesulfonamide	25.6	16.86		ng/L		66	43 - 167
Perfluorooctanesulfonic acid	23.7	16.19		ng/L		68	45 - 150
Perfluorooctanoic acid	25.6	20.10		ng/L		79	51 - 145
Perfluoropentanesulfonic acid	24.0	16.12		ng/L		67	55 - 140
Perfluoropentanoic acid	25.6	17.11		ng/L		67	57 - 141
Perfluorotetradecanoic acid	25.6	17.88		ng/L		70	62 - 139
Perfluorotridecanoic acid	25.6	18.58		ng/L		73	58 - 146
Perfluoroundecanoic acid	25.6	18.81		ng/L		73	60 - 141

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	155		10 - 200
M2-6:2 FTS	162		17 - 200
M2-8:2 FTS	168		33 - 200
13C2 PFTeDA	115		10 - 179
13C3 HFPO-DA	125		17 - 185
13C3 PFBS	140		16 - 200
13C4 PFBA	110		42 - 165
13C4 PFHpA	125		31 - 182
13C5 PFPeA	132		38 - 187
13C8 PFOA	127		48 - 162
13C8 PFOS	134		51 - 159
d3-NMeFOSAA	127		31 - 174
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	91		10 - 178
d9-N-EtFOSE-M	88		10 - 177
13C3 PFHxS	134		28 - 188
13C5 PFHxA	137		24 - 179
13C6 PFDA	122		49 - 163
13C7 PFUnA	128		34 - 174
d3-NMePFOSA	77		10 - 155
d5-NEtPFOSA	72		10 - 159
13C8 FOSA	127		10 - 168
13C2-PFDoDA	116		17 - 176
13C9 PFNA	133		51 - 167

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS			24.7	14.31		ng/L		58	50 - 146	4	30
11Cl-PF3OUdS			23.8	16.60		ng/L		70	53 - 139	7	30
4:2 Fluorotelomer sulfonic acid			23.9	17.25		ng/L		72	55 - 139	4	30
6:2 Fluorotelomer sulfonic acid			24.3	16.77		ng/L		69	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	16.32		ng/L		67	55 - 138	6	30
9Cl-PF3ONS			23.8	16.72		ng/L		70	59 - 135	4	30
DONA			24.2	17.69		ng/L		73	55 - 143	1	30
HFPODA			25.6	18.61		ng/L		73	50 - 135	5	30
NEtFOSAA			25.6	18.00		ng/L		70	55 - 134	5	30
NEtFOSA			25.6	20.65		ng/L		81	61 - 134	5	30
NEtFOSE			25.6	18.85		ng/L		74	60 - 136	5	30
NMeFOSAA			25.6	18.46		ng/L		72	59 - 140	9	30
NMeFOSA			25.6	18.92		ng/L		74	64 - 143	3	30
NMeFOSE			25.6	17.97		ng/L		70	55 - 144	4	30
Perfluorobutanesulfonic acid			22.7	16.38		ng/L		72	53 - 138	4	30
Perfluorobutanoic acid			25.6	17.78		ng/L		69	59 - 136	0	30
Perfluorodecanesulfonic acid			24.7	16.60		ng/L		67	55 - 137	1	30
Perfluorodecanoic acid			25.6	19.60		ng/L		77	56 - 138	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	15.85		ng/L		64	48 - 138	4	30
Perfluorododecanoic acid			25.6	19.20		ng/L		75	59 - 143	2	30
Perfluoroheptanesulfonic acid			24.4	17.09		ng/L		70	56 - 140	3	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid			25.6	18.70		ng/L		73	59 - 145	1	30
Perfluorohexadecanoic acid			25.6	17.37		ng/L		68	41 - 158	5	30
Perfluorohexanesulfonic acid			23.3	16.34		ng/L		70	58 - 134	3	30
Perfluorohexanoic acid			25.6	17.67		ng/L		69	58 - 139	8	30
Perfluorononanesulfonic acid			24.6	17.23		ng/L		70	59 - 136	8	30
Perfluorononanoic acid			25.6	18.69		ng/L		73	61 - 139	2	30
Perfluorooctadecanoic acid			25.6	17.90		ng/L		70	29 - 172	8	30
Perfluorooctanesulfonamide			25.6	17.99		ng/L		70	43 - 167	7	30
Perfluorooctanesulfonic acid			23.7	16.90		ng/L		71	45 - 150	4	30
Perfluorooctanoic acid			25.6	18.79		ng/L		73	51 - 145	7	30
Perfluoropentanesulfonic acid			24.0	17.33		ng/L		72	55 - 140	7	30
Perfluoropentanoic acid			25.6	17.91		ng/L		70	57 - 141	5	30
Perfluorotetradecanoic acid			25.6	18.16		ng/L		71	62 - 139	2	30
Perfluorotridecanoic acid			25.6	17.88		ng/L		70	58 - 146	4	30
Perfluoroundecanoic acid			25.6	19.38		ng/L		76	60 - 141	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*147*		*10 - 200*
M2-6:2 FTS	*168*		*17 - 200*
M2-8:2 FTS	*162*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*135*		*17 - 185*
13C3 PFBS	*137*		*16 - 200*
13C4 PFBA	*122*		*42 - 165*
13C4 PFHpA	*126*		*31 - 182*
13C5 PFPeA	*131*		*38 - 187*
13C8 PFOA	*125*		*48 - 162*
13C8 PFOS	*130*		*51 - 159*
d3-NMeFOSAA	*124*		*31 - 174*
d5-NEtFOSAA	*120*		*29 - 195*
d7-N-MeFOSE-M	*90*		*10 - 178*
d9-N-EtFOSE-M	*84*		*10 - 177*
13C3 PFHxS	*132*		*28 - 188*
13C5 PFHxA	*129*		*24 - 179*
13C6 PFDA	*128*		*49 - 163*
13C7 PFUnA	*125*		*34 - 174*
d3-NMePFOSA	*70*		*10 - 155*
d5-NEtPFOSA	*65*		*10 - 159*
13C8 FOSA	*122*		*10 - 168*
13C2-PFDoDA	*119*		*17 - 176*
13C9 PFNA	*130*		*51 - 167*

LCMS

Prep Batch: 366531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	SPE	
620-10579-2	2023-MW-02	Total/NA	Water	SPE	
620-10579-3	2023-MW-07	Total/NA	Water	SPE	
620-10579-4	2023-MW-08	Total/NA	Water	SPE	
620-10579-5	2023-MW-09	Total/NA	Water	SPE	
620-10579-6	2023-PFB-01	Total/NA	Water	SPE	
MB 410-366531/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	SPE	

Analysis Batch: 372358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2	2023-MW-02	Total/NA	Water	537 IDA	366531
620-10579-4	2023-MW-08	Total/NA	Water	537 IDA	366531
620-10579-5	2023-MW-09	Total/NA	Water	537 IDA	366531
620-10579-6	2023-PFB-01	Total/NA	Water	537 IDA	366531
MB 410-366531/1-A	Method Blank	Total/NA	Water	537 IDA	366531
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	537 IDA	366531

Analysis Batch: 373753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	537 IDA	366531
620-10579-3	2023-MW-07	Total/NA	Water	537 IDA	366531

Prep Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2 - RE	2023-MW-02	Total/NA	Water	SPE	
620-10579-4 - RE	2023-MW-08	Total/NA	Water	SPE	
MB 410-374042/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Analysis Batch: 374796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2 - RE	2023-MW-02	Total/NA	Water	537 IDA	374042
620-10579-4 - RE	2023-MW-08	Total/NA	Water	537 IDA	374042
MB 410-374042/1-A	Method Blank	Total/NA	Water	537 IDA	374042
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	537 IDA	374042
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	374042

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01 Lab Sample ID: 620-10579-1
Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 18:53

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2
Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:54
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:57

Client Sample ID: 2023-MW-07 Lab Sample ID: 620-10579-3
Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 19:04

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4
Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:16
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 07:08

Client Sample ID: 2023-MW-09 Lab Sample ID: 620-10579-5
Date Collected: 03/31/23 09:20 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:28

Client Sample ID: 2023-PFB-01 Lab Sample ID: 620-10579-6
Date Collected: 03/31/23 18:30 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:39

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
SPE	PFAS by SPE	Lab SOP	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10579-1	2023-MW-01	Water	03/31/23 12:15	04/03/23 13:14
620-10579-2	2023-MW-02	Water	03/31/23 16:00	04/03/23 13:14
620-10579-3	2023-MW-07	Water	03/31/23 10:55	04/03/23 13:14
620-10579-4	2023-MW-08	Water	03/31/23 11:00	04/03/23 13:14
620-10579-5	2023-MW-09	Water	03/31/23 09:20	04/03/23 13:14
620-10579-6	2023-PFB-01	Water	03/31/23 18:30	04/03/23 13:14

10579

Chain of Custody Record

eurofins | Environment Testing

620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water			✓					✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/15/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-2

Login Number: 10579
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-2

Login Number: 10579
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

August 16, 2023
Nobis File No. S00001.02

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. 68HE0122D0001
USEPA Task Order No. 68HE0122F0044
Targeted Brownfields Assessment (TBA)
American Tissue Mill Site
Templeton, Massachusetts
Sample Delivery Group (SDG) No. 620105791
Eurofins New England, North Kingstown, RI

Tier 1 Stage 2A Organic and Inorganic Data Review:

Volatile Organic Compounds (VOCs by 8260C), Semivolatile Organic Compounds (SVOCs by 8270D and 8270D-SIM), Polychlorinated Biphenyls (PCBs by 8082), Volatile Petroleum Hydrocarbons (VPH by MassDEP-VPH), Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6020B/7470A), Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS by Method 537 [mod.])

5/Groundwater Samples: 2023-MW-01-20230331, 2023-MW-02-20230331, 2023-MW-07-20230331, 2023-MW-08-20230331, 2023-MW-09-20230331
1/Aqueous PFAS Blank: 2023-PFB-01-20230331
1/Aqueous Trip Blank: 2023-TB-02-20230331

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the American Tissue Mill Site located in Templeton, Massachusetts on March 31, 2023. The samples were analyzed for VOCs by EPA Method 8260C, SVOCs by EPA Method 8270D and 8270D-SIM, Polychlorinated Biphenyls by EPA Method 8082, and VPHs by MassDEP-VPH by Eurofins New England in North Kingstown, RI. The samples were analyzed for MCP-14 Metals by EPA Methods 6020B/7470A and PFAS by Method 537 (mod.) by Eurofins Lancaster in Lancaster, PA. Note that Eurofins Lancaster reported results for the PFAS analyses in SDG 620105792. Therefore, the PFAS data are not included in this data review.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (November 2020); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (November 2020); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 12263), dated October 2022, and the Quality Assurance Project Plan Addendum (QAPPA) (February 2023) for the American Tissue Mill Site, which appends the October 2022 Program QAPP.

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

The data were evaluated based on the following parameters:

*	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Preservation and Technical Holding Times
	•	Blanks
*	•	Surrogates (organic analyses only)
NA	•	Internal Standards
NA	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
	•	Laboratory Control Samples (LCS)
NA	•	Field Duplicates
NA	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
NA	•	Target Analyte Identification
	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize sub-surface soil for the presence of possible site-related contamination.
- Evaluate groundwater for the presence of possible site-related contamination.

Non-detect reporting limits (RLs) for hexachlorobenzene exceeded the project action limit (PAL) of 1 ug/L in all groundwater samples. Sample RLs ranged from 4.8 to 5.43 ug/L. Project objectives may not be met.

Results for benzidine, phenol, and pyridine were rejected (R) due to low LCS/LCSD recoveries. The data are not usable for meeting project objectives.

The remaining data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for LCS exceedances.

SVOCs:
Results for benzidine, phenol, and pyridine were rejected due to low LCS/LCSD recoveries. Results were qualified for LCS/LCSD exceedances and method blank contamination.

PCBs:
Qualification of the data was not required.

MassDEP-VPH:
Qualification of the data was not required.

MCP-14 Metals and Mercury:
Qualification of the data was not required.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Gary Glennon
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Denis McGrath (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
Antimony	ug/L	1 U	1 U	1 U	1.7	0.372 J
Arsenic	ug/L	2 U	2.34	2 U	0.733 J	1.41 J
Barium	ug/L	38.8	15.6	2.5	16.6	5.76
Beryllium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chromium	ug/L	2 U	2.31	2 U	0.673 J	2 U
Lead	ug/L	0.176 J	0.642	0.5 U	0.295 J	0.434 J
Mercury	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	ug/L	0.487 J	1.5	1 U	0.607 J	1 U
Selenium	ug/L	1 U	1 U	1 U	0.831 J	1 U
Silver	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Thallium	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	ug/L	4 U	1.88 J	4 U	5.26	4 U
Zinc	ug/L	210	10 U	10 U	10 U	5.37 J

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
Aroclor 1016	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1221	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1232	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1242	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1248	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1254	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1260	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1262	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U
Aroclor 1268	ug/L	0.4 U	0.417 U	0.417 U	0.455 U	0.417 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
1,2,4,5-Tetrachlorobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
1,2,4-Trichlorobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
1,2-Dichlorobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
1,3-Dichlorobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
1,4-Dichlorobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2,2'-Oxybis(1-chloropropane)	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2,4,5-Trichlorophenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2,4,6-Trichlorophenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2,4-Dichlorophenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2,4-Dimethylphenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2,4-Dinitrophenol	ug/L	9.62 U	10.9 U	9.62 U	10.9 U	10.4 U
2,4-Dinitrotoluene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2,6-Dinitrotoluene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2-Chloronaphthalene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2-Chlorophenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2-Methylnaphthalene	ug/L	0.0481 U	0.0582	0.0481 U	0.0543 U	0.0521 U
2-Methylphenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2-Nitroaniline	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
2-Nitrophenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
3 & 4 Methylphenol	ug/L	9.62 U	10.9 U	9.62 U	10.9 U	10.4 U
3,3'-Dichlorobenzidine	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
3-Nitroaniline	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
4,6-Dinitro-2-methylphenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
4-Bromophenyl-phenylether	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
4-Chloro-3-methylphenol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
4-Chloroaniline	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
4-Chlorophenyl-phenylether	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
4-Nitroaniline	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
4-Nitrophenol	ug/L	19.2 U	21.7 U	19.2 U	21.7 U	20.8 U
Acenaphthene	ug/L	0.0797	0.0877	0.0753	0.0839	0.0805
Acenaphthylene	ug/L	0.0691	0.0803	0.0672	0.0733	0.07
Acetophenone	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Aniline	ug/L	4.81 UJ	5.43 UJ	4.81 UJ	5.43 UJ	5.21 UJ
Anthracene	ug/L	0.0785	0.0877	0.0769 U	0.087 U	0.0833 U
Azobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Benzidine	ug/L	R	R	R	R	R
Benzo(a)anthracene	ug/L	0.0431 J	0.0672	0.0481 U	0.0543 U	0.0521 U
Benzo(a)pyrene	ug/L	0.0769 U	0.087 U	0.0769 U	0.087 U	0.0833 U
Benzo(b)fluoranthene	ug/L	0.0468 J	0.0543 U	0.0481 U	0.0543 U	0.0521 U
Benzo(g,h,i)perylene	ug/L	0.0769 U	0.087 U	0.0769 U	0.087 U	0.0833 U
Benzo(k)fluoranthene	ug/L	0.0769 U	0.087 U	0.0769 U	0.087 U	0.0833 U
Benzoic Acid	ug/L	38.5 U	43.5 U	38.5 U	43.5 U	10.4 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
Benzyl Alcohol	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Bis(2-chloroethoxy)methane	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Bis(2-chloroethyl)ether	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Bis(2-ethylhexyl)phthalate	ug/L	9.62 U	10.9 U	9.62 U	10.9 U	10.4 U
Butylbenzylphthalate	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Carbazole	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Chrysene	ug/L	0.077	0.0899	0.0769 U	0.087 U	0.0833 U
Dibenz(a,h)anthracene	ug/L	0.0481 U	0.0525 J	0.0481 U	0.0543 U	0.0521 U
Dibenzofuran	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Diethylphthalate	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Dimethylphthalate	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Di-N-Butylphthalate	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Di-N-Octyl Phthalate	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Fluoranthene	ug/L	0.0481 U	0.0543 U	0.0481 U	0.0543 U	0.0521 U
Fluorene	ug/L	0.076	0.0851	0.0703	0.0788	0.0753
Hexachlorobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Hexachlorobutadiene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Hexachlorocyclopentadiene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Hexachloroethane	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Indeno(1,2,3-cd)pyrene	ug/L	0.0769 U	0.087 U	0.0769 U	0.087 U	0.0833 U
Isophorone	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
Naphthalene	ug/L	0.0481 U	0.147 J+	0.0481 U	0.0543 U	0.0521 U
Naphthalene, 1-methyl-	ug/L	0.0481 U	0.0543 U	0.0481 U	0.0543 U	0.0521 U
Nitrobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
N-Nitrosodimethylamine (NDMA)	ug/L	4.81 UJ	5.43 UJ	4.81 UJ	5.43 UJ	5.21 UJ
N-Nitroso-di-n-propylamine (NDPA)	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
N-Nitrosodiphenylamine	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Pentachloronitrobenzene	ug/L	4.81 U	5.43 U	4.81 U	5.43 U	5.21 U
Pentachlorophenol	ug/L	9.62 U	10.9 U	9.62 U	10.9 U	10.4 U
Phenanthrene	ug/L	0.192 U	0.217 U	0.192 U	0.217 U	0.208 U
Phenol	ug/L	R	R	R	R	R
Pyrene	ug/L	0.192 U	0.217 U	0.192 U	0.217 U	0.208 U
Pyridine	ug/L	R	R	R	R	R

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
1,1,1,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	ug/L	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
1,3,5-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	ug/L	50 U	50 U	50 U	50 U	50 U
2,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	2 U	2 U	2 U	2 U	2 U
2-Chlorotoluene	ug/L	1 U	1 U	1 U	1 U	1 U
2-Hexanone	ug/L	2 U	2 U	2 U	2 U	2 U
4-Chlorotoluene	ug/L	1 U	1 U	1 U	1 U	1 U
4-Isopropyltoluene	ug/L	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	ug/L	2 U	2 U	2 U	2 U	2 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	1 U	1 U	1 U	1 U	1 U
Bromobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	1.81 J	1.57 J	1.22 J	2 U	2 U
Carbon disulfide	ug/L	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	ug/L	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
Chloroethane	ug/L	2 U	2 U	2 U	2 U	2 U
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	ug/L	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	ug/L	2 U	2 U	2 U	2 U	2 U
Diethyl ether	ug/L	1 U	1 U	1 U	1 U	1 U
Diisopropyl Ether	ug/L	1 U	1 U	1 U	1 U	1 U
Ethanol	ug/L	200 U	200 U	200 U	200 U	200 UJ
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/L	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	ug/L	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	ug/L	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	2 U	2 U	2 U	2 U	2 U
Naphthalene	ug/L	2 U	2 U	2 U	2 U	2 U
n-Butylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
o-Xylene	ug/L	1 U	1 U	1 U	1 U	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
sec-Butylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	1 U	1 U	1 U	1 U	1 U
tert-Amyl methyl ether	ug/L	1 U	1 U	1 U	1 U	1 U
tert-Butyl Alcohol	ug/L	10 U	10 U	10 U	10 U	10 U
Tert-Butyl Ethyl Ether	ug/L	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	2 U	2 U	2 U	2 U	2 U
Toluene	ug/L	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichlorobutene	ug/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	1 U	1 U	1 U	1 U	0.886 J
Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	ug/L	1 U	1 U	1 U	1 U	1 U
Xylene (total)	ug/L	3 U	3 U	3 U	3 U	3 U

DATA SUMMARY TABLE

Analysis		VPH in Groundwater				
Lab Sample ID		620-10579-1	620-10579-2	620-10579-3	620-10579-4	620-10579-5
Field Sample ID		2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	03/31/23	03/31/23	03/31/23	03/31/23	03/31/23
Benzene	ug/L	5 U	5 U	5 U	5 U	5 U
C5-C8 Aliphatics (adjusted)	ug/L	100 U	100 U	100 U	100 U	100 U
C5-C8 Aliphatics (unadjusted)	ug/L	100 U	100 U	100 U	100 U	100 U
C9-C10 Aromatics	ug/L	100 U	100 U	100 U	100 U	100 U
C9-C12 Aliphatics (adjusted)	ug/L	100 U	100 U	100 U	100 U	100 U
C9-C12 Aliphatics (unadjusted)	ug/L	100 U	100 U	100 U	100 U	100 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U
m,p-Xylene	ug/L	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	ug/L	5 U	5 U	5 U	5 U	5 U
Naphthalene	ug/L	5 U	5 U	5 U	5 U	5 U
o-Xylene	ug/L	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	15 U	15 U	15 U	15 U	15 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10579-7
Field Sample ID		2023-TB-02-20230331
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/31/23
1,1,1,2-Tetrachloroethane	ug/L	1 U
1,1,1-Trichloroethane	ug/L	1 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	1 U
1,1,2-Trichloroethane	ug/L	1 U
1,1-Dichloroethane	ug/L	1 U
1,1-Dichloroethene	ug/L	1 U
1,1-Dichloropropene	ug/L	1 U
1,2,3-Trichlorobenzene	ug/L	1 U
1,2,3-Trichloropropane	ug/L	1 U
1,2,4-Trichlorobenzene	ug/L	1 U
1,2,4-Trimethylbenzene	ug/L	1 U
1,2-Dibromo-3-chloropropane	ug/L	2 U
1,2-Dibromoethane	ug/L	0.5 U
1,2-Dichlorobenzene	ug/L	1 U
1,2-Dichloroethane	ug/L	1 U
1,2-Dichloropropane	ug/L	1 U
1,3,5-Trichlorobenzene	ug/L	1 U
1,3,5-Trimethylbenzene	ug/L	1 U
1,3-Dichlorobenzene	ug/L	1 U
1,3-Dichloropropane	ug/L	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10579-7
Field Sample ID		2023-TB-02-20230331
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/31/23
1,3-Dichloropropene	ug/L	0.5 U
1,4-Dichlorobenzene	ug/L	1 U
1,4-Dioxane	ug/L	50 U
2,2-Dichloropropane	ug/L	1 U
2-Butanone	ug/L	2 U
2-Chlorotoluene	ug/L	1 U
2-Hexanone	ug/L	2 U
4-Chlorotoluene	ug/L	1 U
4-Isopropyltoluene	ug/L	1 U
4-Methyl-2-pentanone	ug/L	2 U
Acetone	ug/L	10 U
Acrylonitrile	ug/L	0.5 U
Benzene	ug/L	1 U
Bromobenzene	ug/L	1 U
Bromochloromethane	ug/L	1 U
Bromodichloromethane	ug/L	0.5 U
Bromoform	ug/L	1 U
Bromomethane	ug/L	2 U
Carbon disulfide	ug/L	2 U
Carbon tetrachloride	ug/L	1 U
Chlorobenzene	ug/L	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10579-7
Field Sample ID		2023-TB-02-20230331
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/31/23
Chloroethane	ug/L	2 U
Chloroform	ug/L	1 U
Chloromethane	ug/L	2 U
cis-1,2-Dichloroethene	ug/L	1 U
cis-1,3-Dichloropropene	ug/L	0.5 U
Dibromochloromethane	ug/L	0.5 U
Dibromomethane	ug/L	1 U
Dichlorodifluoromethane	ug/L	2 U
Diethyl ether	ug/L	1 U
Diisopropyl Ether	ug/L	1 U
Ethanol	ug/L	200 U
Ethylbenzene	ug/L	1 U
Hexachlorobutadiene	ug/L	1 U
Isopropylbenzene	ug/L	1 U
m,p-Xylene	ug/L	1 U
Methyl tert-butyl ether	ug/L	1 U
Methylene chloride	ug/L	2 U
Naphthalene	ug/L	2 U
n-Butylbenzene	ug/L	1 U
n-Propylbenzene	ug/L	1 U
o-Xylene	ug/L	1 U

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		620-10579-7
Field Sample ID		2023-TB-02-20230331
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/31/23
sec-Butylbenzene	ug/L	1 U
Styrene	ug/L	1 U
tert-Amyl methyl ether	ug/L	1 U
tert-Butyl Alcohol	ug/L	10 U
Tert-Butyl Ethyl Ether	ug/L	1 U
tert-Butylbenzene	ug/L	1 U
Tetrachloroethene	ug/L	1 U
Tetrahydrofuran	ug/L	2 U
Toluene	ug/L	1 U
trans-1,2-Dichloroethene	ug/L	1 U
trans-1,3-Dichloropropene	ug/L	0.5 U
trans-1,4-Dichlorobutene	ug/L	5 U
Trichloroethene	ug/L	1 U
Trichlorofluoromethane	ug/L	1 U
Vinyl chloride	ug/L	1 U
Xylene (total)	ug/L	3 U

DATA SUMMARY TABLE

Analysis		VPH in Water Quality Control Matrix
Lab Sample ID		620-10579-7
Field Sample ID		2023-TB-02-20230331
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	03/31/23
Benzene	ug/L	5 U
C5-C8 Aliphatics (adjusted)	ug/L	100 U
C5-C8 Aliphatics (unadjusted)	ug/L	100 U
C9-C10 Aromatics	ug/L	100 U
C9-C12 Aliphatics (adjusted)	ug/L	100 U
C9-C12 Aliphatics (unadjusted)	ug/L	100 U
Ethylbenzene	ug/L	5 U
m,p-Xylene	ug/L	10 U
Methyl tert-butyl ether	ug/L	5 U
Naphthalene	ug/L	5 U
o-Xylene	ug/L	5 U
Toluene	ug/L	5 U
Xylene (total)	ug/L	15 U

Data Review Qualification Actions
American Tissue Mill
SDG 620105791

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Ethanol	2023-MW-09-20230331	LCS recovery	UJ	
SVOCs					
	Benzidine, phenol, pyridine	2023-MW-01-20230331, 2023-MW-02-20230331, 2023-MW-07-20230331, 2023-MW-08-20230331, 2023-MW-09-20230331	LCS/LCSD recovery / RPD	R	
	Aniline, N-nitrosodimethylamine	2023-MW-01-20230331, 2023-MW-02-20230331, 2023-MW-07-20230331, 2023-MW-08-20230331, 2023-MW-09-20230331	LCS or LCSD recovery / RPD	UJ	
	Naphthalene	2023-MW-02-20230331	Method blank	J+	
PCBs					
	Qualification of the data was not required.				
MassDEP-VPH					
	Qualification of the data was not required.				
MCP-14 Metals / Mercury					
	Qualification of the data was not required.				

Tier 1/Stage 2A Data Review Checklist

Project: American Tissue Mill, Templeton, Massachusetts
Targeted Brownfields Assessment (TBA)
Project #: S00001.02
Case#: NA
Date: 07/12/2023
Methods: Volatile Organic Compounds (VOCs) (8260C)
Semivolatile Organic Compounds (SVOCs) (8270D) and (8270D-SIM)
Polychlorinated Biphenyls (PCBs) (8082)
Volatile Petroleum Hydrocarbons (VPH) (MassDEP-VPH)
Massachusetts Contingency Plan (MCP) Metals (MCP-14 Metals by 6020B/7470A)
Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (537 mod.)

Laboratory: Eurofins New England Laboratory, North Kingstown, RI; Eurofins Lancaster Laboratory, Lancaster, PA (PFAS)
SDG: 620105731
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Five (5) groundwater samples were listed on the COC for SDG 620105791. One trip blank sample and one PFAS-free blank were also included on the COC. The samples were collected on 03/31/2023 and received at the Eurofins New England Laboratory on 04/03/2023 at 2.4 °C. Samples for MCP Metals and PFAS analyses were subsequently shipped to the Eurofins Lancaster Laboratory for analysis on 04/03/2023. Samples were received at Eurofins Lancaster Laboratory on 04/05/2023 at 2.0 °C.

Sample ID	Laboratory ID	Analyses
2023-MW-01-20230331	620-10579-1	VOCs, SVOCs, PCBs, MassDEP-VPH, MCP-14 Metals/Mercury, PFAS
2023-MW-02-20230331	620-10579-2	
2023-MW-07-20230331	620-10579-3	
2023-MW-08-20230331	620-10579-4	
2023-MW-09-20230331	620-10579-5	
2023-PFB-01-20230331	620-10579-6	PFAS
2023-TB-02-20230331	620-10579-7	VOCs, MassDEP-VPH

Results for the PFAS analyses performed at the Eurofins Lancaster Laboratory are reported in SDG 620105792; therefore, the PFAS data are not evaluated in this data review.

Note that the date of sample collection was appended to the sample IDs for this SDG in order to differentiate sample IDs from other collections at this site.

The data were evaluated using the site-specific Quality Assurance Project Plan Addendum (QAPPA) (dated February 2023) and the Program QAPP (dated October 2022). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (October 2022). Therefore, site data for this SDG were evaluated using both the QAPPA of February 2023 and the Program QAPP dated October 2022. The Massachusetts Compendium of Analytical Methods (CAM) and/or SW-

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846 Methods were used to perform the analyses. Therefore, site data were also evaluated using CAM quality control (QC) limits, where applicable.

The analyte lists reported by the laboratory were compared to the required analyte lists per Table 2 (aqueous) in the QAPPA (February 2023) for the site. All requested analytes were reported with the following notations:

VOCs: The laboratory reported results for all compounds specified on Table 2 of the QAPPA. Results for additional VOCs were also reported by the laboratory. No actions are required.

SVOCs: The laboratory reported results for all SVOCs specified on Table 2 of the QAPPA except for 1,1'-biphenyl. Based on the QAPPA (February 2023), 1,1'-biphenyl is not a compound of concern for the site. Results for several additional SVOCs were also reported by the laboratory. No actions are required.

The following SVOCs were reported by selected ion monitoring (SIM) mode:

1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene
Acenaphthylene	Anthracene	Benzo(a)anthracene
Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene
Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene
Naphthalene	Phenanthrene	Pyrene

The remaining SVOCs were reported by full scan mode.

PCBs: Results for all PCB Aroclors on Table 2 of the QAPPA were reported by the laboratory.

MassDEP-VPH: Results for all VPH parameters on Table 2 of the QAPPA were reported by the laboratory. No inconsistencies were noted.

MCP-14 Metals/Mercury: The laboratory did not report results for aluminum, calcium, cobalt, copper, iron, magnesium, manganese, potassium, or sodium, which are included on Table 2 of QAPPA. The laboratory reported results for all CAM target analytes, which do not include these analytes.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures are acceptable (≤ 6°), as specified in the Program QAPP (October 2022).

VOCs: Holding time criteria (analyzed within 14 days) were met.

SVOCs: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) were met.

PCBs: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) met.

MassDEP-VPH: Holding time criteria (analyzed within 14 days) met.

MCP-14 Metals/Mercury: Holding time criteria (analyzed within 28 days for mercury; within 180 days for all other analytes) were met.

3. **Calibration Issues**

Not assessed for S2AVM data review.

4. **Laboratory and Field Blanks**

VOCs: Hexachlorobutadiene was detected at < reporting limit (RL) in VOC laboratory method blank MB 620-21055/7 (0.2954 ug/L). Hexachlorobutadiene was not detected in the associated sample (2023-MW-09-20230331). No blank actions are required.

Hexachlorobutadiene and n-butylbenzene were detected at < RL in method blank MB 620-21130/7 (0.2868 ug/L and 0.6316 ug/L, respectively). Results for these compounds were non-detect in associated samples 2023-MW-01-20230331 (620-10579-1), 2023-MW-02-20230331 (620-10579-2), 2023-MW-07-20230331 (620-10579-3), 2023-MW-08-20230331 (620-10579-4), and 2023-TB-02-20230331 (620-10579-7). No blank actions are required.

Trip blank sample 2023-TB-02-20230331 (620-10579-7) is associated with the samples of this SDG. Results were non-detect for all VOCs. No actions are required.

SVOCs: Results for full scan SVOC method blank 620-1080/1-A were non-detect. No blank actions are required.

Naphthalene was detected at < RL in the SVOC-SIM method blank MB 620-21080/1-A. This blank is associated with the SIM results for all groundwater samples. Results for naphthalene were non-detect in the groundwater samples except for sample 2023-MW-02-20230331 (620-10579-2), where it was detected at > RL. Based on the NFGs (2020), the detected naphthalene result in sample 620-10579-2 is qualified as estimated with a potential high bias (J+) since it was detected above RL but < 10x blank level.

PCBs: Results for the PCB laboratory method blank were non-detect. No blank actions are required.

MassDEP-VPH: Results for the VPH laboratory method blank and the trip blank (2023-TB-01-20230330) were non-detect. No blank actions are required.

MCP-14 Metals/Mercury: Results for the metals and mercury laboratory method blanks are non-detect. No blank actions are required.

5. **Interference Check Sample (metals only)**

Not assessed for S2AVM data review.

6. **Surrogates**

The Program QAPP (October 2022) was used to evaluate site data for surrogate recovery. If no Program QAPP-specific recovery limits were available for a surrogate, the MCP CAM recovery limits were used.

VOCs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 70-130%. No action is required.

SVOC: Percent surrogate recoveries for the samples (full scan and SIM mode) were within the Program QAPP limits of 30-130% for base/neutral SVOCs and 15-110% for acid SVOCs. No actions are required.

PCBs: Percent surrogate recoveries for all samples were within the Program QAPP limits of 30-150% on both analytical columns. No actions are required.

MassDEP-VPH: Percent surrogate recoveries for the samples were within the Program QAPP limits of 70-130%. No actions are required.

MCP-14 Metals/Mercury: Not applicable for this analysis.
ethanol

7. Laboratory Control Samples

VOCs: Percent LCS/LCSD recovery limits in the Program QAPP are 70-130%. The MCP CAM recovery limits are 70-130% with expanded limits of 40-160% for compounds that are considered difficult to recover.

All percent LCS/LCSD recoveries met the Program QAPP recovery limits of 70-130% except for 2-butanone, dichlorodifluoromethane, ethanol, and 1,4-dioxane, where the recoveries were below 70-130% in the LCS and /or LCSD analyses of 620-21055/4 and /5. 2-Butanone, dichlorodifluoromethane, and 1,4-dioxane are considered potentially difficult to recover and therefore, the 40 -160% limits apply. Percent recoveries for these VOCs were within 40-160% and no actions are required for these compounds. Ethanol was not detected in associated sample 2023-MW-09-20230331 (620-10579-5). The non-detect result for ethanol was qualified as estimated (UJ) due to the low ethanol recovery in the LCS.

The recovery of dibromomethane (132%) exceeded the limits of 70-130% in the LCS of the LCS/LCSD pair 620-21130/4 and /5. This compound is not considered difficult to recover and therefore, the 70-130% limits apply. Professional judgement, based on the NFGs (2020) for the VOC MS/MSD analyses, was used to accept the non-detect dibromomethane results in associated samples 2023-MW-01-20230331 (620-10579-1), 2023-MW-02-20230331 (620-10579-2), 2023-MW-07-20230331 (620-10579-3), 2023-MW-08-20230331 (620-10579-4), and 2023-TB-02-20230331 (620-10579-7) unqualified since the potential bias is high. Recoveries for 2-butanone, dichlorodifluoromethane, and 1,4-dioxane met the expanded limits of 40-160% and no actions are required for these compounds.

All RPDs met the Program QAPP limits of ≤ 20%.

SVOCs: Full scan SVOC LCS/LCSD results met the Program QAPP limits of percent recoveries within 40-140% for base/neutral compounds, within 30-130% for acid compounds, within 15-140% for difficult to recovery compounds, and RPDs ≤ 20%, except for the compounds listed in the table below, for full scan SVOC LCS/LCSD pair 620-21080/4-A and /5-A.

LCS/LCSD 620-21080/4-A and /5-A

Compound	% Recovery		RPD	Limits	Action[1]
	LCS	LCSD		(%R / RPD)	
Aniline	ok	31	27	40-140 / 20	UJ
Benzidine	16	11	31	40-140 / 20	R
Benzoic Acid	ok	ok	50	40-140 / 20	A
2,4-Dinitrophenol	ok	ok	30	30-130 / 20	A
4-Chloroaniline	ok	ok	22	40-140 / 20	A

Hexachlorobutadiene	ok	ok	21	40-140 / 20	A
Hexachlorocyclopentadiene	ok	ok	29	40-140 / 20	A
N-Nitrosodimethylamine	28	ok	42	40-140 / 20	UJ
Pentachloronitrobenzene	ok	ok	22	40-140 / 20	A
Phenol	24	32	30	40-140 / 20	R
Pyridine	25	12	70	40-140 / 20	R
Associated Samples:	**620-10579-1, 620-10579-2, 620-10579-3, 620-10579-4, 620-10579-5**				

[1] - Professional judgement used to qualify non-detect results for aniline and N-nitrosodimethylamine as estimated (UJ) rather than rejected (R) since one of the LCS/LCSD recoveries for both compounds was acceptable.

Results for benzidine, phenol, and pyridine are non-detect in all associated samples. Based on the NFGs (2020), the non-detect results for these compounds are rejected (R) in samples 620-10579-1 through 620-10579-5 due to the low recoveries. Results are unusable for project objectives. Results for aniline and N-nitrosodimethylamine are also non-detect in the associated samples. Professional judgement was used to qualify the non-detect results for these compounds as estimated (UJ), rather than rejected (R) since one of the LCS/LCSD pair recoveries for these compounds were acceptable.

There were no detected results for 2,4-dinitrophenol, 4-chloroaniline, benzoic acid, hexachlorobutadiene, hexachlorocyclopentadiene, or pentachloronitrobezene in associated samples. Based on the NFGs (2020), the non-detect results are accepted unqualified.

Results for the SVOC-SIM LCS/LCSD pair 620-21080/2-A and 3-A met the Program QAPP limits and no actions are required for this LCS/LCSD pair.

PCBs: Percent recoveries of Aroclors 1016 and 1260 met the Program QAPP recovery limits of 40-140% and RPD limits of ≤ 20% in the LCS/LCSD pair associated with the samples of this SDG. No actions are required.

MassDEP-VPH: The percent recoveries in the VPH LCS/LCSD pair met the Program QAPP recovery limits of 70-130%. All RPDs met the Program QAPP RPD limit of ≤ 25%. No actions are required.

MCP-14 Metals/Mercury: Percent recoveries for the metals and mercury LCS analyses were within the limits of 80-120%. No actions are required.

8. Matrix Spikes

Based on the Region I EPA New England Environmental Data Review Supplement (Region I Supplement, 2020), MS/MSD qualifications are applied to all field samples with similar matrix, unless otherwise noted.

MS/MSD analyses were not indicated on the COC for this SDG; MS/MSD analyses were not performed. No actions are required.

9. Laboratory Duplicates (metals only)

MCP-14 Metals/Mercury: Laboratory duplicate analyses were not performed for this SDG. No action is required.

10. **Serial Dilution (metals only)**

    MCP-14 Metals/Mercury: A serial dilution analysis was not performed for this SDG. The Massachusetts CAM requires a serial dilution analysis on samples used for MS/MSD analyses where analytes are detected at > 50x RL. MS/MSD analyses were not performed for this SDG. No actions are required.

11. **Field Duplicate Precision**

    A field duplicate sample was not submitted with this SDG. No actions are required.

12. **Internal Standards**

    Not assessed for S2AVM data review.

13. **Dual Column Precision (PCBs only)**

    Laboratory data for PCB identification and quantitation is not a required deliverable for the MCP CAM method for PCB analysis by GC. Therefore, dual column precision criteria could not be confirmed. However, the MCP CAM method does require a case narrative notation if the RPD for dual column results is > 40% where PCBs were detected. PCBs were not detected in the groundwater samples of this SDG. No action is required.

14. **Performance Evaluation Samples**

    Performance Evaluation (PE) samples were not included in this SDG.

15. **Reporting Limits**

    RLs for non-detect results for VOCs, SVOCs, PCBs, MassDEP-VPH and metals/mercury analyses met the Project Action Levels (PALs) for the site except for the hexachlorobenzene, where the non-detect RLs exceeded the PAL of 1 ug/L in all samples. RLs for hexachlorobenzene were 5 ug/L. Project objectives may not be met.

16. **Other**

    EPA Region I Supplement (2020) criterion for percent solids content (> 30%) not applicable for groundwater samples.

    Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

10579

Chain of Custody Record

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620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
					Preservation Code:			A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water								✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
K. Mato	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/11/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8924.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10579-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/12/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	PRE_SCREEN_PFAS/PFAS_PreScn_W_P	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
2023-MW-01 (620-10579-1)	3/31/23	12:15 Eastern		Water			X	X	X	X	3	
2023-MW-02 (620-10579-2)	3/31/23	16:00 Eastern		Water			X	X	X	X	3	
2023-MW-07 (620-10579-3)	3/31/23	10:55 Eastern		Water			X	X	X	X	3	
2023-MW-08 (620-10579-4)	3/31/23	11:00 Eastern		Water			X	X	X	X	3	
2023-MW-09 (620-10579-5)	3/31/23	09:20 Eastern		Water			X	X	X	X	3	
2023-PFB-01 (620-10579-6)	3/31/23	18:30 Eastern		Water					X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/3/23 16:37	ENE	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/5/23 9:55	ENET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.0

Ver: 06/08/2021

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 5/11/2023 3:52:13 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10579-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

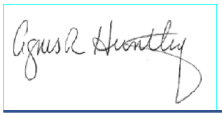
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10579-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10579-1 through 620-10579-5, 620-10579-7

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☑	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/11/2023

Job ID: 620-10579-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10579-1

Receipt
The samples were received on 4/3/2023 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

GC/MS VOA
Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Tert-amyl methyl ether.
(CCVIS 620-21055/3)

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, Ethanol, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: 1,2-Dichlorobenzene and Tert-amyl methyl ether.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for analytical batch 620-21130 recovered outside control limits for the following analytes: Dichlorodifluoromethane, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for batch 620-21130 recovered outside control limits but were greater than 10% for the following analyte: Dibromomethane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The associated sample is: (LCS 620-21130/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Pyridine. The affected target analytes recovered within acceptance limits in the LCS, therefore the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Hexachlorobutadiene and Pyridine. The individual percent recoveries are within acceptance limits.

Methods 8270D, 8270D SIM: The continuing calibration verification (CCV) associated with batch 620-21209 recovered above the upper control limit for 1-Methylnaphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 620-21209/6).

Methods 8270D, 8270D SIM: The laboratory control sample (LCS) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Job ID: 620-10579-1 (Continued)

Laboratory: Eurofins New England (Continued)

Methods 8270D, 8270D SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Benzo[a]anthracene, Benzo[a]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The individual percent recoveries are within acceptance criteria.

Methods 8270D, 8270D SIM: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 620-21036/1-A). These results have been reported and qualified.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21216/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Benzidine, Pyridine and Phenol. MCP allows for <10% of analytes to fall outside of control limits. The affected target analytes recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The laboratory control sample (LCS) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: N-Nitrosodimethylamine. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21347/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH2.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 620-21124 were outside control limits for one or more analytes, see QC Sample Results for detail. The %R fail is due to the way the whole baseline is integrated for samples, and is not just a sum of peaks as in QC samples. The associated laboratory control sample (LCS) recovery is within acceptance limits; therefore, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: (620-10573-H-2-C). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

Methods 8082, 8082A: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 620-21137 and analytical batch 620-21181 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-01 — Lab Sample ID: 620-10579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	1.81	J	2.00	0.627	ug/L	1		8260C	Total/NA
Acenaphthene	0.0797		0.0481	0.0374	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0691		0.0481	0.0373	ug/L	1		8270D	Total/NA
Anthracene	0.0785		0.0769	0.0769	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.0431	J	0.0481	0.0397	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0468	J	0.0481	0.0361	ug/L	1		8270D	Total/NA
Chrysene	0.0770		0.0769	0.0769	ug/L	1		8270D	Total/NA
Fluorene	0.0760		0.0481	0.0328	ug/L	1		8270D	Total/NA
Zinc	210		10.0	4.00	ug/L	1		6020B	Total Recoverable
Barium	38.8		2.00	0.746	ug/L	1		6020B	Total Recoverable
Nickel	0.487	J	1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.176	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-02 — Lab Sample ID: 620-10579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	1.57	J	2.00	0.627	ug/L	1		8260C	Total/NA
2-Methylnaphthalene	0.0582		0.0543	0.0511	ug/L	1		8270D	Total/NA
Acenaphthene	0.0877		0.0543	0.0423	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0803		0.0543	0.0422	ug/L	1		8270D	Total/NA
Anthracene	0.0877		0.0870	0.0870	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.0672		0.0543	0.0449	ug/L	1		8270D	Total/NA
Chrysene	0.0899		0.0870	0.0870	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.0525	J	0.0543	0.0372	ug/L	1		8270D	Total/NA
Fluorene	0.0851		0.0543	0.0371	ug/L	1		8270D	Total/NA
Naphthalene	0.147	B	0.0543	0.0504	ug/L	1		8270D	Total/NA
Arsenic	2.34		2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	15.6		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	2.31		2.00	0.334	ug/L	1		6020B	Total Recoverable
Nickel	1.50		1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.642		0.500	0.0710	ug/L	1		6020B	Total Recoverable
Vanadium	1.88	J	4.00	0.794	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-07 — Lab Sample ID: 620-10579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	1.22	J	2.00	0.627	ug/L	1		8260C	Total/NA
Acenaphthene	0.0753		0.0481	0.0374	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0672		0.0481	0.0373	ug/L	1		8270D	Total/NA
Fluorene	0.0703		0.0481	0.0328	ug/L	1		8270D	Total/NA
Barium	2.50		2.00	0.746	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-08 — Lab Sample ID: 620-10579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0839		0.0543	0.0423	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0733		0.0543	0.0422	ug/L	1		8270D	Total/NA
Fluorene	0.0788		0.0543	0.0371	ug/L	1		8270D	Total/NA
Antimony	1.70		1.00	0.200	ug/L	1		6020B	Total Recoverable
Arsenic	0.733	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	16.6		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	0.673	J	2.00	0.334	ug/L	1		6020B	Total Recoverable
Nickel	0.607	J	1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.295	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable
Selenium	0.831	J	1.00	0.278	ug/L	1		6020B	Total Recoverable
Vanadium	5.26		4.00	0.794	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-09 — Lab Sample ID: 620-10579-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.886	J	1.00	0.364	ug/L	1		8260C	Total/NA
Acenaphthene	0.0805		0.0521	0.0405	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0700		0.0521	0.0404	ug/L	1		8270D	Total/NA
Fluorene	0.0753		0.0521	0.0355	ug/L	1		8270D	Total/NA
Zinc	5.37	J	10.0	4.00	ug/L	1		6020B	Total Recoverable
Antimony	0.372	J	1.00	0.200	ug/L	1		6020B	Total Recoverable
Arsenic	1.41	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	5.76		2.00	0.746	ug/L	1		6020B	Total Recoverable
Lead	0.434	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-TB-02 — Lab Sample ID: 620-10579-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-01
Date Collected: 03/31/23 12:15
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-1
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 17:26	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 17:26	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 17:26	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 17:26	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 17:26	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 17:26	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 17:26	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 17:26	1
Bromomethane	**1.81**	**J**	2.00	0.627	ug/L			04/06/23 17:26	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 17:26	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 17:26	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 17:26	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 17:26	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 17:26	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 17:26	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 17:26	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 17:26	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 17:26	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 17:26	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 17:26	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 17:26	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 17:26	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 17:26	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 17:26	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 17:26	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 17:26	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 17:26	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 17:26	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 17:26	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 17:26	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 17:26	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 17:26	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 17:26	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 17:26	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 17:26	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 17:26	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 17:26	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 17:26	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 17:26	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 17:26	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 17:26	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 17:26	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 17:26	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 17:26	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 17:26	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 17:26	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 17:26	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 17:26	1

Client Sample ID: 2023-MW-01 **Lab Sample ID: 620-10579-1**
Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 17:26	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 17:26	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 17:26	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 17:26	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 17:26	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 17:26	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 17:26	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 17:26	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 17:26	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 17:26	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 17:26	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 17:26	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 17:26	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 17:26	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 17:26	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 17:26	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 17:26	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 17:26	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 17:26	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 17:26	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 17:26	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 17:26	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 17:26	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 17:26	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 17:26	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 17:26	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 17:26	1
Ethanol	ND		200	9.08	ug/L			04/06/23 17:26	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 17:26	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 17:26*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/06/23 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*		*04/06/23 17:26*	*1*
Dibromofluoromethane (Surr)	*129*		*70 - 130*		*04/06/23 17:26*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0481	0.0476	ug/L		04/05/23 09:47	04/10/23 17:44	1
2-Methylnaphthalene	ND		0.0481	0.0452	ug/L		04/05/23 09:47	04/10/23 17:44	1
Acenaphthene	**0.0797**		0.0481	0.0374	ug/L		04/05/23 09:47	04/10/23 17:44	1
Acenaphthylene	**0.0691**		0.0481	0.0373	ug/L		04/05/23 09:47	04/10/23 17:44	1
Anthracene	**0.0785**		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[a]anthracene	**0.0431**	**J**	0.0481	0.0397	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[a]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[b]fluoranthene	**0.0468**	**J**	0.0481	0.0361	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[g,h,i]perylene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[k]fluoranthene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Chrysene	**0.0770**		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1

Client Sample ID: 2023-MW-01 **Lab Sample ID: 620-10579-1**
Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0481	0.0329	ug/L		04/05/23 09:47	04/10/23 17:44	1
Fluoranthene	ND		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 17:44	1
Fluorene	**0.0760**		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 17:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Naphthalene	ND		0.0481	0.0446	ug/L		04/05/23 09:47	04/10/23 17:44	1
Phenanthrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 17:44	1
Pyrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:44*	*1*
Terphenyl-d14	*60*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:44*	*1*
Benzo(e)pyrene-d12	*50*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:44*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		4.81	0.824	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,2,4-Trichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,2-Dichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,3-Dichlorobenzene	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,4-Dichlorobenzene	ND		4.81	1.36	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4,5-Trichlorophenol	ND		4.81	1.03	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4,6-Trichlorophenol	ND		4.81	0.874	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dichlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dimethylphenol	ND		4.81	0.586	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dinitrophenol	ND	*1	9.62	5.20	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dinitrotoluene	ND		4.81	0.913	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,6-Dinitrotoluene	ND		4.81	0.732	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Chloronaphthalene	ND		4.81	0.946	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Chlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Methylphenol	ND		4.81	0.514	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Nitroaniline	ND		4.81	0.656	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Nitrophenol	ND		4.81	0.741	ug/L		04/05/23 09:47	04/13/23 11:24	1
3 & 4 Methylphenol	ND		9.62	0.631	ug/L		04/05/23 09:47	04/13/23 11:24	1
3,3'-Dichlorobenzidine	ND		4.81	1.37	ug/L		04/05/23 09:47	04/13/23 11:24	1
3-Nitroaniline	ND		4.81	0.851	ug/L		04/05/23 09:47	04/13/23 11:24	1
4,6-Dinitro-2-methylphenol	ND		4.81	3.43	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Bromophenyl phenyl ether	ND		4.81	0.795	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Chloro-3-methylphenol	ND		4.81	0.758	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Chloroaniline	ND	*1	4.81	1.99	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Chlorophenyl phenyl ether	ND		4.81	0.861	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Nitroaniline	ND		4.81	0.858	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Nitrophenol	ND		19.2	0.634	ug/L		04/05/23 09:47	04/13/23 11:24	1
Acetophenone	ND		4.81	0.701	ug/L		04/05/23 09:47	04/13/23 11:24	1
Aniline	ND	*- *1	4.81	1.35	ug/L		04/05/23 09:47	04/13/23 11:24	1
Azobenzene/Diphenyldiazene	ND		4.81	0.716	ug/L		04/05/23 09:47	04/13/23 11:24	1
Benzidine	ND	*- *1	19.2	1.85	ug/L		04/05/23 09:47	04/13/23 11:24	1
Benzoic acid	ND	*1	38.5	38.5	ug/L		04/05/23 09:47	04/13/23 11:24	1
Benzyl alcohol	ND		4.81	0.564	ug/L		04/05/23 09:47	04/13/23 11:24	1
Bis(2-chloroethoxy)methane	ND		4.81	0.621	ug/L		04/05/23 09:47	04/13/23 11:24	1
Bis(2-chloroethyl)ether	ND		4.81	0.666	ug/L		04/05/23 09:47	04/13/23 11:24	1

Client Sample ID: 2023-MW-01 Lab Sample ID: 620-10579-1

Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		4.81	0.941	ug/L		04/05/23 09:47	04/13/23 11:24	1
Bis(2-ethylhexyl) phthalate	ND		9.62	5.65	ug/L		04/05/23 09:47	04/13/23 11:24	1
Butyl benzyl phthalate	ND		4.81	0.831	ug/L		04/05/23 09:47	04/13/23 11:24	1
Carbazole	ND		4.81	0.878	ug/L		04/05/23 09:47	04/13/23 11:24	1
Dibenzofuran	ND		4.81	0.754	ug/L		04/05/23 09:47	04/13/23 11:24	1
Diethyl phthalate	ND		4.81	0.842	ug/L		04/05/23 09:47	04/13/23 11:24	1
Dimethyl phthalate	ND		4.81	0.737	ug/L		04/05/23 09:47	04/13/23 11:24	1
Di-n-butyl phthalate	ND		4.81	0.883	ug/L		04/05/23 09:47	04/13/23 11:24	1
Di-n-octyl phthalate	ND		4.81	0.988	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachlorobenzene	ND		4.81	0.725	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachlorobutadiene	ND	*1	4.81	1.10	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachlorocyclopentadiene	ND	*1	4.81	0.951	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachloroethane	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 11:24	1
Isophorone	ND		4.81	0.488	ug/L		04/05/23 09:47	04/13/23 11:24	1
Nitrobenzene	ND		4.81	0.691	ug/L		04/05/23 09:47	04/13/23 11:24	1
N-Nitrosodimethylamine	ND	*- *1	4.81	0.537	ug/L		04/05/23 09:47	04/13/23 11:24	1
N-Nitrosodi-n-propylamine	ND		4.81	0.760	ug/L		04/05/23 09:47	04/13/23 11:24	1
N-Nitrosodiphenylamine	ND		4.81	0.897	ug/L		04/05/23 09:47	04/13/23 11:24	1
Pentachloronitrobenzene	ND	*1	4.81	0.591	ug/L		04/05/23 09:47	04/13/23 11:24	1
Pentachlorophenol	ND		9.62	2.97	ug/L		04/05/23 09:47	04/13/23 11:24	1
Phenol	ND	*- *1	4.81	0.611	ug/L		04/05/23 09:47	04/13/23 11:24	1
Pyridine	ND	*- *1	4.81	1.29	ug/L		04/05/23 09:47	04/13/23 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
2-Fluorophenol (Surr)	*42*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
Phenol-d5 (Surr)	*27*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
Terphenyl-d14	*58*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:24*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 20:53	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 20:53	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 20:53	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 20:53	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 20:53	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 20:53	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*87*		*70 - 130*		*04/06/23 20:53*	*1*
2,5-Dibromotoluene (pid)	*87*		*70 - 130*		*04/06/23 20:53*	*1*

Client Sample ID: 2023-MW-01
Date Collected: 03/31/23 12:15
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-1
Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/07/23 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*34*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*
Tetrachloro-m-xylene	*33*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**210**		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:27	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:27	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:27	1
Barium	**38.8**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:27	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:27	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:27	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:27	1
Nickel	**0.487**	**J**	1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:27	1
Lead	**0.176**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:27	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:27	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:27	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:27	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 13:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-02

Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 17:52	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 17:52	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 17:52	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 17:52	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 17:52	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 17:52	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 17:52	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 17:52	1
Bromomethane	**1.57**	**J**	2.00	0.627	ug/L			04/06/23 17:52	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 17:52	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 17:52	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 17:52	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 17:52	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 17:52	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 17:52	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 17:52	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 17:52	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 17:52	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 17:52	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 17:52	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 17:52	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 17:52	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 17:52	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 17:52	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 17:52	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 17:52	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 17:52	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 17:52	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 17:52	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 17:52	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 17:52	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 17:52	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 17:52	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 17:52	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 17:52	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 17:52	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 17:52	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 17:52	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 17:52	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 17:52	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 17:52	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 17:52	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 17:52	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 17:52	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 17:52	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 17:52	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 17:52	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 17:52	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 17:52	1

Client Sample ID: 2023-MW-02 **Lab Sample ID: 620-10579-2**
Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 17:52	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 17:52	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 17:52	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 17:52	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 17:52	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 17:52	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 17:52	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 17:52	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 17:52	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 17:52	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 17:52	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 17:52	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 17:52	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 17:52	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 17:52	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 17:52	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 17:52	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 17:52	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 17:52	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 17:52	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 17:52	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 17:52	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 17:52	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 17:52	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 17:52	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 17:52	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 17:52	1
Ethanol	ND		200	9.08	ug/L			04/06/23 17:52	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 17:52	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 17:52*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/06/23 17:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*		*04/06/23 17:52*	*1*
Dibromofluoromethane (Surr)	*130*		*70 - 130*		*04/06/23 17:52*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0543	0.0538	ug/L		04/05/23 09:47	04/10/23 18:14	1
2-Methylnaphthalene	**0.0582**		0.0543	0.0511	ug/L		04/05/23 09:47	04/10/23 18:14	1
Acenaphthene	**0.0877**		0.0543	0.0423	ug/L		04/05/23 09:47	04/10/23 18:14	1
Acenaphthylene	**0.0803**		0.0543	0.0422	ug/L		04/05/23 09:47	04/10/23 18:14	1
Anthracene	**0.0877**		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[a]anthracene	**0.0672**		0.0543	0.0449	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[a]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[b]fluoranthene	ND		0.0543	0.0408	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[g,h,i]perylene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[k]fluoranthene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Chrysene	**0.0899**		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1

Client: Nobis Engineering, Inc.
Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02
Lab Sample ID: 620-10579-2
Date Collected: 03/31/23 16:00
Matrix: Water
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**0.0525**	**J**	0.0543	0.0372	ug/L		04/05/23 09:47	04/10/23 18:14	1
Fluoranthene	ND		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 18:14	1
Fluorene	**0.0851**		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 18:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Naphthalene	**0.147**	**B**	0.0543	0.0504	ug/L		04/05/23 09:47	04/10/23 18:14	1
Phenanthrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 18:14	1
Pyrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:14*	*1*
Terphenyl-d14	*52*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:14*	*1*
Benzo(e)pyrene-d12	*62*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.43	0.932	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,2,4-Trichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,2-Dichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,3-Dichlorobenzene	ND		5.43	1.38	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,4-Dichlorobenzene	ND		5.43	1.53	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4,5-Trichlorophenol	ND		5.43	1.17	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4,6-Trichlorophenol	ND		5.43	0.988	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dichlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dimethylphenol	ND		5.43	0.662	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dinitrophenol	ND	*1	10.9	5.88	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dinitrotoluene	ND		5.43	1.03	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,6-Dinitrotoluene	ND		5.43	0.827	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Chloronaphthalene	ND		5.43	1.07	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Chlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Methylphenol	ND		5.43	0.582	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Nitroaniline	ND		5.43	0.741	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Nitrophenol	ND		5.43	0.838	ug/L		04/05/23 09:47	04/13/23 11:54	1
3 & 4 Methylphenol	ND		10.9	0.713	ug/L		04/05/23 09:47	04/13/23 11:54	1
3,3'-Dichlorobenzidine	ND		5.43	1.55	ug/L		04/05/23 09:47	04/13/23 11:54	1
3-Nitroaniline	ND		5.43	0.962	ug/L		04/05/23 09:47	04/13/23 11:54	1
4,6-Dinitro-2-methylphenol	ND		5.43	3.87	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Bromophenyl phenyl ether	ND		5.43	0.899	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Chloro-3-methylphenol	ND		5.43	0.857	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Chloroaniline	ND	*1	5.43	2.24	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Chlorophenyl phenyl ether	ND		5.43	0.973	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Nitroaniline	ND		5.43	0.970	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Nitrophenol	ND		21.7	0.716	ug/L		04/05/23 09:47	04/13/23 11:54	1
Acetophenone	ND		5.43	0.792	ug/L		04/05/23 09:47	04/13/23 11:54	1
Aniline	ND	*- *1	5.43	1.52	ug/L		04/05/23 09:47	04/13/23 11:54	1
Azobenzene/Diphenyldiazene	ND		5.43	0.810	ug/L		04/05/23 09:47	04/13/23 11:54	1
Benzidine	ND	*- *1	21.7	2.09	ug/L		04/05/23 09:47	04/13/23 11:54	1
Benzoic acid	ND	*1	43.5	43.5	ug/L		04/05/23 09:47	04/13/23 11:54	1
Benzyl alcohol	ND		5.43	0.638	ug/L		04/05/23 09:47	04/13/23 11:54	1
Bis(2-chloroethoxy)methane	ND		5.43	0.702	ug/L		04/05/23 09:47	04/13/23 11:54	1
Bis(2-chloroethyl)ether	ND		5.43	0.753	ug/L		04/05/23 09:47	04/13/23 11:54	1

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.43	1.06	ug/L		04/05/23 09:47	04/13/23 11:54	1
Bis(2-ethylhexyl) phthalate	ND		10.9	6.39	ug/L		04/05/23 09:47	04/13/23 11:54	1
Butyl benzyl phthalate	ND		5.43	0.939	ug/L		04/05/23 09:47	04/13/23 11:54	1
Carbazole	ND		5.43	0.992	ug/L		04/05/23 09:47	04/13/23 11:54	1
Dibenzofuran	ND		5.43	0.852	ug/L		04/05/23 09:47	04/13/23 11:54	1
Diethyl phthalate	ND		5.43	0.952	ug/L		04/05/23 09:47	04/13/23 11:54	1
Dimethyl phthalate	ND		5.43	0.833	ug/L		04/05/23 09:47	04/13/23 11:54	1
Di-n-butyl phthalate	ND		5.43	0.998	ug/L		04/05/23 09:47	04/13/23 11:54	1
Di-n-octyl phthalate	ND		5.43	1.12	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachlorobenzene	ND		5.43	0.820	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachlorobutadiene	ND	*1	5.43	1.24	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachlorocyclopentadiene	ND	*1	5.43	1.08	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachloroethane	ND		5.43	1.39	ug/L		04/05/23 09:47	04/13/23 11:54	1
Isophorone	ND		5.43	0.552	ug/L		04/05/23 09:47	04/13/23 11:54	1
Nitrobenzene	ND		5.43	0.782	ug/L		04/05/23 09:47	04/13/23 11:54	1
N-Nitrosodimethylamine	ND	*- *1	5.43	0.607	ug/L		04/05/23 09:47	04/13/23 11:54	1
N-Nitrosodi-n-propylamine	ND		5.43	0.859	ug/L		04/05/23 09:47	04/13/23 11:54	1
N-Nitrosodiphenylamine	ND		5.43	1.01	ug/L		04/05/23 09:47	04/13/23 11:54	1
Pentachloronitrobenzene	ND	*1	5.43	0.668	ug/L		04/05/23 09:47	04/13/23 11:54	1
Pentachlorophenol	ND		10.9	3.36	ug/L		04/05/23 09:47	04/13/23 11:54	1
Phenol	ND	*- *1	5.43	0.690	ug/L		04/05/23 09:47	04/13/23 11:54	1
Pyridine	ND	*- *1	5.43	1.46	ug/L		04/05/23 09:47	04/13/23 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
2-Fluorophenol (Surr)	*32*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
Nitrobenzene-d5 (Surr)	*45*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
Phenol-d5 (Surr)	*21*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
Terphenyl-d14	*63*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:54*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 21:28	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 21:28	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 21:28	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 21:28	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 21:28	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 21:28	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*		*04/06/23 21:28*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 21:28*	*1*

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:55	04/07/23 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*
Tetrachloro-m-xylene	*59*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:25	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:25	1
Arsenic	**2.34**		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:25	1
Barium	**15.6**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:25	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:25	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:25	1
Chromium	**2.31**		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:25	1
Nickel	**1.50**		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:25	1
Lead	**0.642**		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:25	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:25	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:25	1
Vanadium	**1.88**	**J**	4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:25	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 13:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-07
Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 18:18	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 18:18	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 18:18	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 18:18	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 18:18	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 18:18	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 18:18	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 18:18	1
Bromomethane	**1.22**	**J**	2.00	0.627	ug/L			04/06/23 18:18	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 18:18	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 18:18	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 18:18	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 18:18	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 18:18	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 18:18	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 18:18	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 18:18	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 18:18	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 18:18	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 18:18	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 18:18	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 18:18	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 18:18	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 18:18	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 18:18	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 18:18	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 18:18	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 18:18	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 18:18	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 18:18	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 18:18	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 18:18	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 18:18	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 18:18	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 18:18	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 18:18	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 18:18	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 18:18	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 18:18	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 18:18	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 18:18	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 18:18	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 18:18	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 18:18	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 18:18	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 18:18	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 18:18	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 18:18	1

Client Sample ID: 2023-MW-07 **Lab Sample ID: 620-10579-3**
Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 18:18	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 18:18	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 18:18	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 18:18	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 18:18	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 18:18	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 18:18	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 18:18	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 18:18	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 18:18	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 18:18	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 18:18	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 18:18	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 18:18	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 18:18	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 18:18	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 18:18	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 18:18	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 18:18	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 18:18	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 18:18	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 18:18	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 18:18	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 18:18	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 18:18	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 18:18	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 18:18	1
Ethanol	ND		200	9.08	ug/L			04/06/23 18:18	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 18:18	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 18:18*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/06/23 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*		*04/06/23 18:18*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*04/06/23 18:18*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0481	0.0476	ug/L		04/05/23 09:47	04/10/23 18:44	1
2-Methylnaphthalene	ND		0.0481	0.0452	ug/L		04/05/23 09:47	04/10/23 18:44	1
Acenaphthene	**0.0753**		0.0481	0.0374	ug/L		04/05/23 09:47	04/10/23 18:44	1
Acenaphthylene	**0.0672**		0.0481	0.0373	ug/L		04/05/23 09:47	04/10/23 18:44	1
Anthracene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[a]anthracene	ND		0.0481	0.0397	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[a]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[b]fluoranthene	ND		0.0481	0.0361	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[g,h,i]perylene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[k]fluoranthene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Chrysene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1

Client Sample ID: 2023-MW-07 Lab Sample ID: 620-10579-3

Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0481	0.0329	ug/L		04/05/23 09:47	04/10/23 18:44	1
Fluoranthene	ND		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 18:44	1
Fluorene	**0.0703**		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 18:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Naphthalene	ND		0.0481	0.0446	ug/L		04/05/23 09:47	04/10/23 18:44	1
Phenanthrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 18:44	1
Pyrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:44*	*1*
Terphenyl-d14	*57*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:44*	*1*
Benzo(e)pyrene-d12	*55*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:44*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		4.81	0.824	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,2,4-Trichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,2-Dichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,3-Dichlorobenzene	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,4-Dichlorobenzene	ND		4.81	1.36	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4,5-Trichlorophenol	ND		4.81	1.03	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4,6-Trichlorophenol	ND		4.81	0.874	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dichlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dimethylphenol	ND		4.81	0.586	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dinitrophenol	ND	*1	9.62	5.20	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dinitrotoluene	ND		4.81	0.913	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,6-Dinitrotoluene	ND		4.81	0.732	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Chloronaphthalene	ND		4.81	0.946	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Chlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Methylphenol	ND		4.81	0.514	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Nitroaniline	ND		4.81	0.656	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Nitrophenol	ND		4.81	0.741	ug/L		04/05/23 09:47	04/13/23 12:23	1
3 & 4 Methylphenol	ND		9.62	0.631	ug/L		04/05/23 09:47	04/13/23 12:23	1
3,3'-Dichlorobenzidine	ND		4.81	1.37	ug/L		04/05/23 09:47	04/13/23 12:23	1
3-Nitroaniline	ND		4.81	0.851	ug/L		04/05/23 09:47	04/13/23 12:23	1
4,6-Dinitro-2-methylphenol	ND		4.81	3.43	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Bromophenyl phenyl ether	ND		4.81	0.795	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Chloro-3-methylphenol	ND		4.81	0.758	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Chloroaniline	ND	*1	4.81	1.99	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Chlorophenyl phenyl ether	ND		4.81	0.861	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Nitroaniline	ND		4.81	0.858	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Nitrophenol	ND		19.2	0.634	ug/L		04/05/23 09:47	04/13/23 12:23	1
Acetophenone	ND		4.81	0.701	ug/L		04/05/23 09:47	04/13/23 12:23	1
Aniline	ND	*- *1	4.81	1.35	ug/L		04/05/23 09:47	04/13/23 12:23	1
Azobenzene/Diphenyldiazene	ND		4.81	0.716	ug/L		04/05/23 09:47	04/13/23 12:23	1
Benzidine	ND	*- *1	19.2	1.85	ug/L		04/05/23 09:47	04/13/23 12:23	1
Benzoic acid	ND	*1	38.5	38.5	ug/L		04/05/23 09:47	04/13/23 12:23	1
Benzyl alcohol	ND		4.81	0.564	ug/L		04/05/23 09:47	04/13/23 12:23	1
Bis(2-chloroethoxy)methane	ND		4.81	0.621	ug/L		04/05/23 09:47	04/13/23 12:23	1
Bis(2-chloroethyl)ether	ND		4.81	0.666	ug/L		04/05/23 09:47	04/13/23 12:23	1

Client Sample ID: 2023-MW-07 **Lab Sample ID: 620-10579-3**
Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		4.81	0.941	ug/L		04/05/23 09:47	04/13/23 12:23	1
Bis(2-ethylhexyl) phthalate	ND		9.62	5.65	ug/L		04/05/23 09:47	04/13/23 12:23	1
Butyl benzyl phthalate	ND		4.81	0.831	ug/L		04/05/23 09:47	04/13/23 12:23	1
Carbazole	ND		4.81	0.878	ug/L		04/05/23 09:47	04/13/23 12:23	1
Dibenzofuran	ND		4.81	0.754	ug/L		04/05/23 09:47	04/13/23 12:23	1
Diethyl phthalate	ND		4.81	0.842	ug/L		04/05/23 09:47	04/13/23 12:23	1
Dimethyl phthalate	ND		4.81	0.737	ug/L		04/05/23 09:47	04/13/23 12:23	1
Di-n-butyl phthalate	ND		4.81	0.883	ug/L		04/05/23 09:47	04/13/23 12:23	1
Di-n-octyl phthalate	ND		4.81	0.988	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachlorobenzene	ND		4.81	0.725	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachlorobutadiene	ND	*1	4.81	1.10	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachlorocyclopentadiene	ND	*1	4.81	0.951	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachloroethane	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 12:23	1
Isophorone	ND		4.81	0.488	ug/L		04/05/23 09:47	04/13/23 12:23	1
Nitrobenzene	ND		4.81	0.691	ug/L		04/05/23 09:47	04/13/23 12:23	1
N-Nitrosodimethylamine	ND	*- *1	4.81	0.537	ug/L		04/05/23 09:47	04/13/23 12:23	1
N-Nitrosodi-n-propylamine	ND		4.81	0.760	ug/L		04/05/23 09:47	04/13/23 12:23	1
N-Nitrosodiphenylamine	ND		4.81	0.897	ug/L		04/05/23 09:47	04/13/23 12:23	1
Pentachloronitrobenzene	ND	*1	4.81	0.591	ug/L		04/05/23 09:47	04/13/23 12:23	1
Pentachlorophenol	ND		9.62	2.97	ug/L		04/05/23 09:47	04/13/23 12:23	1
Phenol	ND	*- *1	4.81	0.611	ug/L		04/05/23 09:47	04/13/23 12:23	1
Pyridine	ND	*- *1	4.81	1.29	ug/L		04/05/23 09:47	04/13/23 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
2-Fluorophenol (Surr)	*43*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
Phenol-d5 (Surr)	*28*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
Terphenyl-d14	*60*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:23*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:03	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:03	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 22:03	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:03	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:03	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 22:03	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*		*04/06/23 22:03*	*1*
2,5-Dibromotoluene (pid)	*87*		*70 - 130*		*04/06/23 22:03*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-07

Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3

Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:55	04/07/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:11	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:11	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:11	1
Barium	**2.50**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:11	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:11	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:11	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:11	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:11	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:11	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:11	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:11	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:11	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 13:02	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-08

Date Collected: 03/31/23 11:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-4

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 18:44	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 18:44	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 18:44	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 18:44	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 18:44	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 18:44	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 18:44	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 18:44	1
Bromomethane	ND		2.00	0.627	ug/L			04/06/23 18:44	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 18:44	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 18:44	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 18:44	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 18:44	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 18:44	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 18:44	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 18:44	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 18:44	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 18:44	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 18:44	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 18:44	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 18:44	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 18:44	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 18:44	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 18:44	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 18:44	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 18:44	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 18:44	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 18:44	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 18:44	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 18:44	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 18:44	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 18:44	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 18:44	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 18:44	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 18:44	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 18:44	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 18:44	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 18:44	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 18:44	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 18:44	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 18:44	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 18:44	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 18:44	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 18:44	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 18:44	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 18:44	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 18:44	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 18:44	1

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 18:44	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 18:44	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 18:44	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 18:44	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 18:44	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 18:44	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 18:44	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 18:44	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 18:44	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 18:44	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 18:44	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 18:44	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 18:44	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 18:44	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 18:44	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 18:44	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 18:44	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 18:44	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 18:44	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 18:44	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 18:44	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 18:44	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 18:44	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 18:44	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 18:44	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 18:44	1
Ethanol	ND		200	9.08	ug/L			04/06/23 18:44	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 18:44	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 18:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/06/23 18:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/06/23 18:44*	*1*
Dibromofluoromethane (Surr)	*124*		*70 - 130*		*04/06/23 18:44*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0543	0.0538	ug/L		04/05/23 09:47	04/10/23 19:13	1
2-Methylnaphthalene	ND		0.0543	0.0511	ug/L		04/05/23 09:47	04/10/23 19:13	1
Acenaphthene	**0.0839**		0.0543	0.0423	ug/L		04/05/23 09:47	04/10/23 19:13	1
Acenaphthylene	**0.0733**		0.0543	0.0422	ug/L		04/05/23 09:47	04/10/23 19:13	1
Anthracene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[a]anthracene	ND		0.0543	0.0449	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[a]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[b]fluoranthene	ND		0.0543	0.0408	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[g,h,i]perylene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[k]fluoranthene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Chrysene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1

Client: Nobis Engineering, Inc.
Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-08
Lab Sample ID: 620-10579-4
Date Collected: 03/31/23 11:00
Matrix: Water
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0543	0.0372	ug/L		04/05/23 09:47	04/10/23 19:13	1
Fluoranthene	ND		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 19:13	1
Fluorene	**0.0788**		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 19:13	1
Indeno[1,2,3-cd]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Naphthalene	ND		0.0543	0.0504	ug/L		04/05/23 09:47	04/10/23 19:13	1
Phenanthrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 19:13	1
Pyrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:13*	*1*
Terphenyl-d14	*50*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:13*	*1*
Benzo(e)pyrene-d12	*47*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:13*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.43	0.932	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,2,4-Trichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,2-Dichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,3-Dichlorobenzene	ND		5.43	1.38	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,4-Dichlorobenzene	ND		5.43	1.53	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4,5-Trichlorophenol	ND		5.43	1.17	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4,6-Trichlorophenol	ND		5.43	0.988	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dichlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dimethylphenol	ND		5.43	0.662	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dinitrophenol	ND	*1	10.9	5.88	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dinitrotoluene	ND		5.43	1.03	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,6-Dinitrotoluene	ND		5.43	0.827	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Chloronaphthalene	ND		5.43	1.07	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Chlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Methylphenol	ND		5.43	0.582	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Nitroaniline	ND		5.43	0.741	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Nitrophenol	ND		5.43	0.838	ug/L		04/05/23 09:47	04/13/23 12:53	1
3 & 4 Methylphenol	ND		10.9	0.713	ug/L		04/05/23 09:47	04/13/23 12:53	1
3,3'-Dichlorobenzidine	ND		5.43	1.55	ug/L		04/05/23 09:47	04/13/23 12:53	1
3-Nitroaniline	ND		5.43	0.962	ug/L		04/05/23 09:47	04/13/23 12:53	1
4,6-Dinitro-2-methylphenol	ND		5.43	3.87	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Bromophenyl phenyl ether	ND		5.43	0.899	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Chloro-3-methylphenol	ND		5.43	0.857	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Chloroaniline	ND	*1	5.43	2.24	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Chlorophenyl phenyl ether	ND		5.43	0.973	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Nitroaniline	ND		5.43	0.970	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Nitrophenol	ND		21.7	0.716	ug/L		04/05/23 09:47	04/13/23 12:53	1
Acetophenone	ND		5.43	0.792	ug/L		04/05/23 09:47	04/13/23 12:53	1
Aniline	ND	*- *1	5.43	1.52	ug/L		04/05/23 09:47	04/13/23 12:53	1
Azobenzene/Diphenyldiazene	ND		5.43	0.810	ug/L		04/05/23 09:47	04/13/23 12:53	1
Benzidine	ND	*- *1	21.7	2.09	ug/L		04/05/23 09:47	04/13/23 12:53	1
Benzoic acid	ND	*1	43.5	43.5	ug/L		04/05/23 09:47	04/13/23 12:53	1
Benzyl alcohol	ND		5.43	0.638	ug/L		04/05/23 09:47	04/13/23 12:53	1
Bis(2-chloroethoxy)methane	ND		5.43	0.702	ug/L		04/05/23 09:47	04/13/23 12:53	1
Bis(2-chloroethyl)ether	ND		5.43	0.753	ug/L		04/05/23 09:47	04/13/23 12:53	1

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.43	1.06	ug/L		04/05/23 09:47	04/13/23 12:53	1
Bis(2-ethylhexyl) phthalate	ND		10.9	6.39	ug/L		04/05/23 09:47	04/13/23 12:53	1
Butyl benzyl phthalate	ND		5.43	0.939	ug/L		04/05/23 09:47	04/13/23 12:53	1
Carbazole	ND		5.43	0.992	ug/L		04/05/23 09:47	04/13/23 12:53	1
Dibenzofuran	ND		5.43	0.852	ug/L		04/05/23 09:47	04/13/23 12:53	1
Diethyl phthalate	ND		5.43	0.952	ug/L		04/05/23 09:47	04/13/23 12:53	1
Dimethyl phthalate	ND		5.43	0.833	ug/L		04/05/23 09:47	04/13/23 12:53	1
Di-n-butyl phthalate	ND		5.43	0.998	ug/L		04/05/23 09:47	04/13/23 12:53	1
Di-n-octyl phthalate	ND		5.43	1.12	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachlorobenzene	ND		5.43	0.820	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachlorobutadiene	ND	*1	5.43	1.24	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachlorocyclopentadiene	ND	*1	5.43	1.08	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachloroethane	ND		5.43	1.39	ug/L		04/05/23 09:47	04/13/23 12:53	1
Isophorone	ND		5.43	0.552	ug/L		04/05/23 09:47	04/13/23 12:53	1
Nitrobenzene	ND		5.43	0.782	ug/L		04/05/23 09:47	04/13/23 12:53	1
N-Nitrosodimethylamine	ND	*- *1	5.43	0.607	ug/L		04/05/23 09:47	04/13/23 12:53	1
N-Nitrosodi-n-propylamine	ND		5.43	0.859	ug/L		04/05/23 09:47	04/13/23 12:53	1
N-Nitrosodiphenylamine	ND		5.43	1.01	ug/L		04/05/23 09:47	04/13/23 12:53	1
Pentachloronitrobenzene	ND	*1	5.43	0.668	ug/L		04/05/23 09:47	04/13/23 12:53	1
Pentachlorophenol	ND		10.9	3.36	ug/L		04/05/23 09:47	04/13/23 12:53	1
Phenol	ND	*- *1	5.43	0.690	ug/L		04/05/23 09:47	04/13/23 12:53	1
Pyridine	ND	*- *1	5.43	1.46	ug/L		04/05/23 09:47	04/13/23 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
2-Fluorophenol (Surr)	*37*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
Phenol-d5 (Surr)	*25*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
Terphenyl-d14	*56*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:53*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:38	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:38	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 22:38	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:38	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:38	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 22:38	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 22:38*	*1*
2,5-Dibromotoluene (pid)	*90*		*70 - 130*		*04/06/23 22:38*	*1*

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.455	0.0636	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1221	ND		0.455	0.169	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1232	ND		0.455	0.109	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1242	ND		0.455	0.0864	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1248	ND		0.455	0.186	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1254	ND		0.455	0.166	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1262	ND		0.455	0.182	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1260	ND		0.455	0.0864	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1268	ND		0.455	0.0955	ug/L		04/06/23 11:56	04/07/23 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*
Tetrachloro-m-xylene	*52*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:07	1
Antimony	**1.70**		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:07	1
Arsenic	**0.733**	**J**	2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:07	1
Barium	**16.6**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:07	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:07	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:07	1
Chromium	**0.673**	**J**	2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:07	1
Nickel	**0.607**	**J**	1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:07	1
Lead	**0.295**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:07	1
Selenium	**0.831**	**J**	1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:07	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:07	1
Vanadium	**5.26**		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:07	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 05:58	04/07/23 14:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-09
Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 23:03	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 23:03	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 23:03	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 23:03	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 23:03	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 23:03	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 23:03	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 23:03	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 23:03	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/04/23 23:03	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 23:03	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 23:03	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 23:03	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 23:03	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 23:03	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 23:03	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 23:03	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 23:03	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 23:03	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 23:03	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 23:03	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 23:03	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 23:03	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 23:03	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 23:03	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 23:03	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 23:03	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 23:03	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/04/23 23:03	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 23:03	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 23:03	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 23:03	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 23:03	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 23:03	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 23:03	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 23:03	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 23:03	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 23:03	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 23:03	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 23:03	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 23:03	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 23:03	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 23:03	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 23:03	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 23:03	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 23:03	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 23:03	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 23:03	1

Client Sample ID: 2023-MW-09 **Lab Sample ID: 620-10579-5**
Date Collected: 03/31/23 09:20 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 23:03	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 23:03	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 23:03	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 23:03	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 23:03	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 23:03	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 23:03	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 23:03	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 23:03	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 23:03	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 23:03	1
Trichloroethene	**0.886**	**J**	1.00	0.364	ug/L			04/04/23 23:03	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 23:03	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 23:03	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 23:03	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 23:03	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 23:03	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 23:03	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 23:03	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 23:03	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 23:03	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 23:03	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 23:03	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 23:03	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 23:03	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/04/23 23:03	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 23:03	1
Ethanol	ND	*-	200	9.08	ug/L			04/04/23 23:03	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 23:03	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/04/23 23:03*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 23:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 23:03*	*1*
Dibromofluoromethane (Surr)	*128*		*70 - 130*		*04/04/23 23:03*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0521	0.0516	ug/L		04/05/23 09:47	04/10/23 19:42	1
2-Methylnaphthalene	ND		0.0521	0.0490	ug/L		04/05/23 09:47	04/10/23 19:42	1
Acenaphthene	**0.0805**		0.0521	0.0405	ug/L		04/05/23 09:47	04/10/23 19:42	1
Acenaphthylene	**0.0700**		0.0521	0.0404	ug/L		04/05/23 09:47	04/10/23 19:42	1
Anthracene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[a]anthracene	ND		0.0521	0.0430	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[a]pyrene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[b]fluoranthene	ND		0.0521	0.0391	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[g,h,i]perylene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[k]fluoranthene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Chrysene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-09

Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0521	0.0356	ug/L		04/05/23 09:47	04/10/23 19:42	1
Fluoranthene	ND		0.0521	0.0355	ug/L		04/05/23 09:47	04/10/23 19:42	1
Fluorene	**0.0753**		0.0521	0.0355	ug/L		04/05/23 09:47	04/10/23 19:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Naphthalene	ND		0.0521	0.0483	ug/L		04/05/23 09:47	04/10/23 19:42	1
Phenanthrene	ND		0.208	0.208	ug/L		04/05/23 09:47	04/10/23 19:42	1
Pyrene	ND		0.208	0.208	ug/L		04/05/23 09:47	04/10/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:42*	*1*
Terphenyl-d14	*58*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:42*	*1*
Benzo(e)pyrene-d12	*49*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:42*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.21	0.893	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,2,4-Trichlorobenzene	ND		5.21	1.28	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,2-Dichlorobenzene	ND		5.21	1.28	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,3-Dichlorobenzene	ND		5.21	1.33	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,4-Dichlorobenzene	ND		5.21	1.47	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4,5-Trichlorophenol	ND		5.21	1.12	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4,6-Trichlorophenol	ND		5.21	0.947	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dichlorophenol	ND		5.21	0.735	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dimethylphenol	ND		5.21	0.634	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dinitrophenol	ND	*1	10.4	5.64	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dinitrotoluene	ND		5.21	0.990	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,6-Dinitrotoluene	ND		5.21	0.793	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Chloronaphthalene	ND		5.21	1.03	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Chlorophenol	ND		5.21	0.735	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Methylphenol	ND		5.21	0.557	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Nitroaniline	ND		5.21	0.710	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Nitrophenol	ND		5.21	0.803	ug/L		04/05/23 09:47	04/13/23 13:23	1
3 & 4 Methylphenol	ND		10.4	0.683	ug/L		04/05/23 09:47	04/13/23 13:23	1
3,3'-Dichlorobenzidine	ND		5.21	1.48	ug/L		04/05/23 09:47	04/13/23 13:23	1
3-Nitroaniline	ND		5.21	0.922	ug/L		04/05/23 09:47	04/13/23 13:23	1
4,6-Dinitro-2-methylphenol	ND		5.21	3.71	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Bromophenyl phenyl ether	ND		5.21	0.861	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Chloro-3-methylphenol	ND		5.21	0.821	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Chloroaniline	ND	*1	5.21	2.15	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Chlorophenyl phenyl ether	ND		5.21	0.932	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Nitroaniline	ND		5.21	0.929	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Nitrophenol	ND		20.8	0.686	ug/L		04/05/23 09:47	04/13/23 13:23	1
Acetophenone	ND		5.21	0.759	ug/L		04/05/23 09:47	04/13/23 13:23	1
Aniline	ND	*- *1	5.21	1.46	ug/L		04/05/23 09:47	04/13/23 13:23	1
Azobenzene/Diphenyldiazene	ND		5.21	0.776	ug/L		04/05/23 09:47	04/13/23 13:23	1
Benzidine	ND	*- *1	20.8	2.01	ug/L		04/05/23 09:47	04/13/23 13:23	1
Benzoic acid	ND	*1	10.4	5.80	ug/L		04/05/23 09:47	04/13/23 13:23	1
Benzyl alcohol	ND		5.21	0.611	ug/L		04/05/23 09:47	04/13/23 13:23	1
Bis(2-chloroethoxy)methane	ND		5.21	0.673	ug/L		04/05/23 09:47	04/13/23 13:23	1
Bis(2-chloroethyl)ether	ND		5.21	0.722	ug/L		04/05/23 09:47	04/13/23 13:23	1

Client Sample ID: 2023-MW-09 Lab Sample ID: 620-10579-5

Date Collected: 03/31/23 09:20 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.21	1.02	ug/L		04/05/23 09:47	04/13/23 13:23	1
Bis(2-ethylhexyl) phthalate	ND		10.4	6.13	ug/L		04/05/23 09:47	04/13/23 13:23	1
Butyl benzyl phthalate	ND		5.21	0.900	ug/L		04/05/23 09:47	04/13/23 13:23	1
Carbazole	ND		5.21	0.951	ug/L		04/05/23 09:47	04/13/23 13:23	1
Dibenzofuran	ND		5.21	0.817	ug/L		04/05/23 09:47	04/13/23 13:23	1
Diethyl phthalate	ND		5.21	0.913	ug/L		04/05/23 09:47	04/13/23 13:23	1
Dimethyl phthalate	ND		5.21	0.798	ug/L		04/05/23 09:47	04/13/23 13:23	1
Di-n-butyl phthalate	ND		5.21	0.956	ug/L		04/05/23 09:47	04/13/23 13:23	1
Di-n-octyl phthalate	ND		5.21	1.07	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachlorobenzene	ND		5.21	0.785	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachlorobutadiene	ND	*1	5.21	1.19	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachlorocyclopentadiene	ND	*1	5.21	1.03	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachloroethane	ND		5.21	1.33	ug/L		04/05/23 09:47	04/13/23 13:23	1
Isophorone	ND		5.21	0.529	ug/L		04/05/23 09:47	04/13/23 13:23	1
Nitrobenzene	ND		5.21	0.749	ug/L		04/05/23 09:47	04/13/23 13:23	1
N-Nitrosodimethylamine	ND	*1 *-	5.21	0.581	ug/L		04/05/23 09:47	04/13/23 13:23	1
N-Nitrosodi-n-propylamine	ND		5.21	0.823	ug/L		04/05/23 09:47	04/13/23 13:23	1
N-Nitrosodiphenylamine	ND		5.21	0.972	ug/L		04/05/23 09:47	04/13/23 13:23	1
Pentachloronitrobenzene	ND		5.21	0.641	ug/L		04/05/23 09:47	04/13/23 13:23	1
Pentachlorophenol	ND		10.4	3.22	ug/L		04/05/23 09:47	04/13/23 13:23	1
Phenol	ND	*- *1	5.21	0.661	ug/L		04/05/23 09:47	04/13/23 13:23	1
Pyridine	ND	*- *1	5.21	1.40	ug/L		04/05/23 09:47	04/13/23 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
2-Fluorophenol (Surr)	*45*		*15 - 110*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
Phenol-d5 (Surr)	*29*		*15 - 110*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*15 - 110*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
Terphenyl-d14	*65*		*30 - 130*	*04/05/23 09:47*	*04/13/23 13:23*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 23:13	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 23:13	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 23:13	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 23:13	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 23:13	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 23:13	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*		*04/06/23 23:13*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 23:13*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-09

Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5

Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:56	04/07/23 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**5.37**	**J**	10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:09	1
Antimony	**0.372**	**J**	1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:09	1
Arsenic	**1.41**	**J**	2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:09	1
Barium	**5.76**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:09	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:09	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:09	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:09	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:09	1
Lead	**0.434**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:09	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:09	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:09	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:09	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 12:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-TB-02
Date Collected: 03/31/23 07:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-7
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 14:22	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 14:22	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 14:22	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 14:22	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 14:22	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 14:22	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 14:22	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 14:22	1
Bromomethane	ND		2.00	0.627	ug/L			04/06/23 14:22	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 14:22	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 14:22	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 14:22	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 14:22	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 14:22	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 14:22	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 14:22	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 14:22	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 14:22	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 14:22	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 14:22	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 14:22	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 14:22	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 14:22	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 14:22	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 14:22	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 14:22	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 14:22	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 14:22	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 14:22	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 14:22	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 14:22	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 14:22	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 14:22	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 14:22	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 14:22	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 14:22	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 14:22	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 14:22	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 14:22	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 14:22	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 14:22	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 14:22	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 14:22	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 14:22	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 14:22	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 14:22	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 14:22	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 14:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-TB-02
Date Collected: 03/31/23 07:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-7
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 14:22	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 14:22	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 14:22	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 14:22	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 14:22	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 14:22	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 14:22	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 14:22	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 14:22	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 14:22	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 14:22	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 14:22	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 14:22	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 14:22	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 14:22	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 14:22	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 14:22	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 14:22	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 14:22	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 14:22	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 14:22	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 14:22	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 14:22	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 14:22	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 14:22	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 14:22	1
Ethanol	ND		200	9.08	ug/L			04/06/23 14:22	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 14:22	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/06/23 14:22*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/06/23 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/06/23 14:22*	*1*
Dibromofluoromethane (Surr)	*127*		*70 - 130*		*04/06/23 14:22*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:37	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:37	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 15:37	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:37	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:37	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 15:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-TB-02
Date Collected: 03/31/23 07:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-7
Matrix: Water

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*84*		*70 - 130*		*04/06/23 15:37*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 15:37*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10579-1	2023-MW-01	90	94	128	129
620-10579-2	2023-MW-02	90	95	130	130
620-10579-3	2023-MW-07	90	95	130	121
620-10579-4	2023-MW-08	90	95	129	124
620-10579-5	2023-MW-09	90	95	129	128
620-10579-7	2023-TB-02	91	94	129	127
LCS 620-21055/4	Lab Control Sample	96	96	125	120
LCS 620-21130/4	Lab Control Sample	97	95	123	119
LCSD 620-21055/5	Lab Control Sample Dup	97	95	125	120
LCSD 620-21130/5	Lab Control Sample Dup	96	94	119	117
MB 620-21055/7	Method Blank	92	95	129	128
MB 620-21130/7	Method Blank	92	94	128	125

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	TPHL	BePd12
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-10579-1	2023-MW-01	75	60	50
620-10579-2	2023-MW-02	51	52	62
620-10579-3	2023-MW-07	69	57	55
620-10579-4	2023-MW-08	56	50	47
620-10579-5	2023-MW-09	70	58	49
LCS 620-21080/2-A	Lab Control Sample	70	67	80
LCSD 620-21080/3-A	Lab Control Sample Dup	72	62	79
MB 620-21080/1-A	Method Blank	80	65	81

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14
BePd12 = Benzo(e)pyrene-d12

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10579-1	2023-MW-01	66	42	65	27	74	58
620-10579-2	2023-MW-02	48	32	45	21	71	63
620-10579-3	2023-MW-07	68	43	70	28	74	60
620-10579-4	2023-MW-08	54	37	55	25	65	56
620-10579-5	2023-MW-09	70	45	70	29	73	65
LCS 620-21080/4-A	Lab Control Sample	52	35	54	22	70	77

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
LCSD 620-21080/5-A	Lab Control Sample Dup	63	46	63	31	79	69
MB 620-21080/1-A	Method Blank	67	55	69	36	75	68

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		25DBTf1	25DBTp1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10579-1	2023-MW-01	87	87
620-10579-2	2023-MW-02	85	86
620-10579-3	2023-MW-07	86	87
620-10579-4	2023-MW-08	88	90
620-10579-5	2023-MW-09	85	86
620-10579-7	2023-TB-02	84	86
LCS 620-21124/3	Lab Control Sample	86	88
LCSD 620-21124/4	Lab Control Sample Dup	88	89
MB 620-21124/6	Method Blank	88	88

Surrogate Legend

25DBTf = 2,5-Dibromotoluene (fid)
25DBTp = 2,5-Dibromotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10579-1	2023-MW-01	34	33	60	60
620-10579-2	2023-MW-02	63	59	70	63
620-10579-3	2023-MW-07	63	60	79	65
620-10579-4	2023-MW-08	54	52	78	60
620-10579-5	2023-MW-09	60	58	75	58
LCS 620-21137/2-A	Lab Control Sample	54	52	84	67
LCSD 620-21137/3-A	Lab Control Sample Dup	58	56	95	75
MB 620-21137/1-A	Method Blank	92	92	99	81

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 13:46	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 13:46	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 13:46	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 13:46	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 13:46	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 13:46	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 13:46	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 13:46	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 13:46	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 13:46	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 13:46	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 13:46	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 13:46	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 13:46	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 13:46	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 13:46	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 13:46	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 13:46	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 13:46	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 13:46	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 13:46	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 13:46	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 13:46	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 13:46	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 13:46	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 13:46	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 13:46	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 13:46	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 13:46	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 13:46	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 13:46	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 13:46	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 13:46	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 13:46	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 13:46	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 13:46	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 13:46	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 13:46	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 13:46	1
Hexachlorobutadiene	0.2954	J	1.00	0.236	ug/L			04/04/23 13:46	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 13:46	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 13:46	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 13:46	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 13:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 13:46	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 13:46	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 13:46	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 13:46	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 13:46	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 13:46	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 13:46	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 13:46	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 13:46	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 13:46	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 13:46	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 13:46	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 13:46	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 13:46	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 13:46	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 13:46	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 13:46	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 13:46	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 13:46	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 13:46	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 13:46	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 13:46	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 13:46	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 13:46	1
Ethanol	ND		200	9.08	ug/L			04/04/23 13:46	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/04/23 13:46*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 13:46*	*1*
Dibromofluoromethane (Surr)	*128*		*70 - 130*		*04/04/23 13:46*	*1*

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.82		ug/L		94	70 - 130
Acetone	20.0	16.28		ug/L		81	70 - 130
Acrylonitrile	20.0	17.49		ug/L		87	70 - 130
Benzene	20.0	19.86		ug/L		99	70 - 130
Bromobenzene	20.0	19.22		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	23.80		ug/L		119	70 - 130
Bromodichloromethane	20.0	22.21		ug/L		111	70 - 130
Bromoform	20.0	22.19		ug/L		111	70 - 130
Bromomethane	20.0	25.77		ug/L		129	70 - 130
2-Butanone (MEK)	20.0	13.01	*-	ug/L		65	70 - 130
n-Butylbenzene	20.0	21.15		ug/L		106	70 - 130
sec-Butylbenzene	20.0	21.18		ug/L		106	70 - 130
tert-Butylbenzene	20.0	19.21		ug/L		96	70 - 130
Carbon disulfide	20.0	19.74		ug/L		99	70 - 130
Carbon tetrachloride	20.0	20.47		ug/L		102	70 - 130
Chlorobenzene	20.0	22.08		ug/L		110	70 - 130
Chloroethane	20.0	17.58		ug/L		88	70 - 130
Chloroform	20.0	20.49		ug/L		102	70 - 130
Chloromethane	20.0	19.69		ug/L		98	70 - 130
2-Chlorotoluene	20.0	21.06		ug/L		105	70 - 130
4-Chlorotoluene	20.0	21.03		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	21.43		ug/L		107	70 - 130
Dibromochloromethane	20.0	22.01		ug/L		110	70 - 130
1,2-Dibromoethane (EDB)	20.0	20.14		ug/L		101	70 - 130
Dibromomethane	20.0	24.55		ug/L		123	70 - 130
1,2-Dichlorobenzene	20.0	23.81		ug/L		119	70 - 130
1,3-Dichlorobenzene	20.0	19.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	21.85		ug/L		109	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.59	*-	ug/L		63	70 - 130
1,1-Dichloroethane	20.0	18.20		ug/L		91	70 - 130
1,2-Dichloroethane	20.0	23.32		ug/L		117	70 - 130
1,1-Dichloroethene	20.0	18.02		ug/L		90	70 - 130
cis-1,2-Dichloroethene	20.0	21.80		ug/L		109	70 - 130
trans-1,2-Dichloroethene	20.0	19.35		ug/L		97	70 - 130
1,2-Dichloropropane	20.0	21.69		ug/L		108	70 - 130
1,3-Dichloropropane	20.0	19.01		ug/L		95	70 - 130
2,2-Dichloropropane	20.0	17.94		ug/L		90	70 - 130
1,1-Dichloropropene	20.0	17.55		ug/L		88	70 - 130
cis-1,3-Dichloropropene	20.0	19.57		ug/L		98	70 - 130
trans-1,3-Dichloropropene	20.0	20.59		ug/L		103	70 - 130
Ethylbenzene	20.0	21.90		ug/L		109	70 - 130
Hexachlorobutadiene	20.0	19.79		ug/L		99	70 - 130
2-Hexanone (MBK)	20.0	16.55		ug/L		83	70 - 130
Isopropylbenzene	20.0	19.59		ug/L		98	70 - 130
4-Isopropyltoluene	20.0	21.47		ug/L		107	70 - 130
Methyl tert-butyl ether	20.0	16.76		ug/L		84	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.14		ug/L		96	70 - 130
Methylene Chloride	20.0	18.32		ug/L		92	70 - 130
Naphthalene	20.0	17.58		ug/L		88	70 - 130
N-Propylbenzene	20.0	20.08		ug/L		100	70 - 130
Styrene	20.0	19.99		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	20.0	21.89		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.40		ug/L		112	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	20.0	18.11		ug/L		91	70 - 130
Toluene	20.0	19.13		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	20.0	18.64		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	20.0	18.05		ug/L		90	70 - 130
1,3,5-Trichlorobenzene	20.0	20.68		ug/L		103	70 - 130
1,1,1-Trichloroethane	20.0	18.92		ug/L		95	70 - 130
1,1,2-Trichloroethane	20.0	21.21		ug/L		106	70 - 130
Trichloroethene	20.0	17.83		ug/L		89	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	21.08		ug/L		105	70 - 130
1,2,3-Trichloropropane	20.0	19.67		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	20.0	21.82		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	20.0	21.64		ug/L		108	70 - 130
Vinyl chloride	20.0	18.38		ug/L		92	70 - 130
m,p-Xylene	40.0	47.21		ug/L		118	70 - 130
o-Xylene	20.0	22.60		ug/L		113	70 - 130
Tetrahydrofuran	20.0	16.39		ug/L		82	70 - 130
Ethyl ether	20.0	19.77		ug/L		99	70 - 130
Tert-amyl methyl ether	20.0	15.79		ug/L		79	70 - 130
Ethyl tert-butyl ether	20.0	17.64		ug/L		88	70 - 130
di-Isopropyl ether	20.0	19.04		ug/L		95	70 - 130
tert-Butanol	200	162.1		ug/L		81	70 - 130
1,4-Dioxane	200	117.6	*-	ug/L		59	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.23		ug/L		101	70 - 130
Ethanol	400	274.5	*-	ug/L		69	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.37		ug/L		92	70 - 130	2	20
Acetone	20.0	15.64		ug/L		78	70 - 130	4	20
Acrylonitrile	20.0	17.62		ug/L		88	70 - 130	1	20
Benzene	20.0	19.57		ug/L		98	70 - 130	1	20
Bromobenzene	20.0	19.44		ug/L		97	70 - 130	1	20
Bromochloromethane	20.0	21.50		ug/L		108	70 - 130	10	20
Bromodichloromethane	20.0	21.62		ug/L		108	70 - 130	3	20
Bromoform	20.0	22.61		ug/L		113	70 - 130	2	20
Bromomethane	20.0	25.19		ug/L		126	70 - 130	2	20
2-Butanone (MEK)	20.0	12.56	*-	ug/L		63	70 - 130	3	20
n-Butylbenzene	20.0	21.32		ug/L		107	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	20.95		ug/L		105	70 - 130	1	20
tert-Butylbenzene	20.0	19.08		ug/L		95	70 - 130	1	20
Carbon disulfide	20.0	19.06		ug/L		95	70 - 130	4	20
Carbon tetrachloride	20.0	20.39		ug/L		102	70 - 130	0	20
Chlorobenzene	20.0	22.14		ug/L		111	70 - 130	0	20
Chloroethane	20.0	18.44		ug/L		92	70 - 130	5	20
Chloroform	20.0	20.37		ug/L		102	70 - 130	1	20
Chloromethane	20.0	19.46		ug/L		97	70 - 130	1	20
2-Chlorotoluene	20.0	21.28		ug/L		106	70 - 130	1	20
4-Chlorotoluene	20.0	21.05		ug/L		105	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	20.0	22.17		ug/L		111	70 - 130	3	20
Dibromochloromethane	20.0	21.81		ug/L		109	70 - 130	1	20
1,2-Dibromoethane (EDB)	20.0	20.17		ug/L		101	70 - 130	0	20
Dibromomethane	20.0	25.20		ug/L		126	70 - 130	3	20
1,2-Dichlorobenzene	20.0	23.92		ug/L		120	70 - 130	0	20
1,3-Dichlorobenzene	20.0	19.98		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	20.0	21.79		ug/L		109	70 - 130	0	20
Dichlorodifluoromethane (Freon 12)	20.0	12.44	*-	ug/L		62	70 - 130	1	20
1,1-Dichloroethane	20.0	18.04		ug/L		90	70 - 130	1	20
1,2-Dichloroethane	20.0	23.31		ug/L		117	70 - 130	0	20
1,1-Dichloroethene	20.0	17.89		ug/L		89	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	19.98		ug/L		100	70 - 130	9	20
trans-1,2-Dichloroethene	20.0	20.44		ug/L		102	70 - 130	5	20
1,2-Dichloropropane	20.0	21.61		ug/L		108	70 - 130	0	20
1,3-Dichloropropane	20.0	19.16		ug/L		96	70 - 130	1	20
2,2-Dichloropropane	20.0	17.83		ug/L		89	70 - 130	1	20
1,1-Dichloropropene	20.0	17.60		ug/L		88	70 - 130	0	20
cis-1,3-Dichloropropene	20.0	19.65		ug/L		98	70 - 130	0	20
trans-1,3-Dichloropropene	20.0	20.76		ug/L		104	70 - 130	1	20
Ethylbenzene	20.0	22.08		ug/L		110	70 - 130	1	20
Hexachlorobutadiene	20.0	19.95		ug/L		100	70 - 130	1	20
2-Hexanone (MBK)	20.0	16.30		ug/L		82	70 - 130	2	20
Isopropylbenzene	20.0	19.63		ug/L		98	70 - 130	0	20
4-Isopropyltoluene	20.0	21.65		ug/L		108	70 - 130	1	20
Methyl tert-butyl ether	20.0	16.71		ug/L		84	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	20.0	19.41		ug/L		97	70 - 130	1	20
Methylene Chloride	20.0	19.45		ug/L		97	70 - 130	6	20
Naphthalene	20.0	17.61		ug/L		88	70 - 130	0	20
N-Propylbenzene	20.0	20.07		ug/L		100	70 - 130	0	20
Styrene	20.0	20.26		ug/L		101	70 - 130	1	20
1,1,1,2-Tetrachloroethane	20.0	22.05		ug/L		110	70 - 130	1	20
1,1,2,2-Tetrachloroethane	20.0	22.63		ug/L		113	70 - 130	1	20
Tetrachloroethene	20.0	17.85		ug/L		89	70 - 130	1	20
Toluene	20.0	19.01		ug/L		95	70 - 130	1	20
1,2,3-Trichlorobenzene	20.0	18.85		ug/L		94	70 - 130	1	20
1,2,4-Trichlorobenzene	20.0	18.28		ug/L		91	70 - 130	1	20
1,3,5-Trichlorobenzene	20.0	21.07		ug/L		105	70 - 130	2	20
1,1,1-Trichloroethane	20.0	18.84		ug/L		94	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			20.0	20.99		ug/L		105	70 - 130	1	20
Trichloroethene			20.0	17.36		ug/L		87	70 - 130	3	20
Trichlorofluoromethane (Freon 11)			20.0	20.83		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane			20.0	19.94		ug/L		100	70 - 130	1	20
1,2,4-Trimethylbenzene			20.0	21.99		ug/L		110	70 - 130	1	20
1,3,5-Trimethylbenzene			20.0	21.63		ug/L		108	70 - 130	0	20
Vinyl chloride			20.0	18.49		ug/L		92	70 - 130	1	20
m,p-Xylene			40.0	47.69		ug/L		119	70 - 130	1	20
o-Xylene			20.0	22.86		ug/L		114	70 - 130	1	20
Tetrahydrofuran			20.0	19.27		ug/L		96	70 - 130	16	20
Ethyl ether			20.0	19.81		ug/L		99	70 - 130	0	20
Tert-amyl methyl ether			20.0	15.57		ug/L		78	70 - 130	1	20
Ethyl tert-butyl ether			20.0	17.63		ug/L		88	70 - 130	0	20
di-Isopropyl ether			20.0	19.11		ug/L		96	70 - 130	0	20
tert-Butanol			200	157.3		ug/L		79	70 - 130	3	20
1,4-Dioxane			200	111.3	*-	ug/L		56	70 - 130	5	20
trans-1,4-Dichloro-2-butene			20.0	20.78		ug/L		104	70 - 130	3	20
Ethanol			400	328.7		ug/L		82	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: MB 620-21130/7
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 13:30	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 13:30	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 13:30	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 13:30	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 13:30	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 13:30	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 13:30	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 13:30	1
Bromomethane	ND		2.00	0.627	ug/L			04/06/23 13:30	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/06/23 13:30	1
n-Butylbenzene	0.6316	J	1.00	0.450	ug/L			04/06/23 13:30	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 13:30	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 13:30	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 13:30	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 13:30	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 13:30	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 13:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21130/7
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.00	0.297	ug/L			04/06/23 13:30	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 13:30	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 13:30	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 13:30	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 13:30	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 13:30	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 13:30	1
Dibromomethane	ND		1.00	0.364	ug/L			04/06/23 13:30	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 13:30	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 13:30	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 13:30	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/06/23 13:30	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 13:30	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 13:30	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 13:30	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 13:30	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 13:30	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 13:30	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 13:30	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 13:30	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 13:30	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 13:30	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 13:30	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 13:30	1
Hexachlorobutadiene	0.2868	J	1.00	0.236	ug/L			04/06/23 13:30	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 13:30	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 13:30	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 13:30	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 13:30	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 13:30	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 13:30	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 13:30	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 13:30	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 13:30	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 13:30	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 13:30	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 13:30	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 13:30	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 13:30	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 13:30	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 13:30	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 13:30	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 13:30	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 13:30	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 13:30	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 13:30	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 13:30	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 13:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21130/7
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 13:30	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 13:30	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 13:30	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 13:30	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 13:30	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 13:30	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 13:30	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 13:30	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/06/23 13:30	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 13:30	1
Ethanol	ND		200	9.08	ug/L			04/06/23 13:30	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 13:30	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/06/23 13:30*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/06/23 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*		*04/06/23 13:30*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*04/06/23 13:30*	*1*

Lab Sample ID: LCS 620-21130/4
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.75		ug/L		94	70 - 130
Acetone	20.0	16.75		ug/L		84	70 - 130
Acrylonitrile	20.0	17.70		ug/L		89	70 - 130
Benzene	20.0	19.62		ug/L		98	70 - 130
Bromobenzene	20.0	19.62		ug/L		98	70 - 130
Bromochloromethane	20.0	23.96		ug/L		120	70 - 130
Bromodichloromethane	20.0	21.57		ug/L		108	70 - 130
Bromoform	20.0	22.23		ug/L		111	70 - 130
Bromomethane	20.0	25.64		ug/L		128	70 - 130
2-Butanone (MEK)	20.0	11.99	*-	ug/L		60	70 - 130
n-Butylbenzene	20.0	22.16		ug/L		111	70 - 130
sec-Butylbenzene	20.0	21.75		ug/L		109	70 - 130
tert-Butylbenzene	20.0	19.48		ug/L		97	70 - 130
Carbon disulfide	20.0	19.93		ug/L		100	70 - 130
Carbon tetrachloride	20.0	20.44		ug/L		102	70 - 130
Chlorobenzene	20.0	22.33		ug/L		112	70 - 130
Chloroethane	20.0	18.43		ug/L		92	70 - 130
Chloroform	20.0	20.81		ug/L		104	70 - 130
Chloromethane	20.0	19.73		ug/L		99	70 - 130
2-Chlorotoluene	20.0	21.30		ug/L		107	70 - 130
4-Chlorotoluene	20.0	21.38		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	22.60		ug/L		113	70 - 130
Dibromochloromethane	20.0	21.84		ug/L		109	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21130/4
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	20.06		ug/L		100	70 - 130
Dibromomethane	20.0	26.35	*+	ug/L		132	70 - 130
1,2-Dichlorobenzene	20.0	24.36		ug/L		122	70 - 130
1,3-Dichlorobenzene	20.0	20.28		ug/L		101	70 - 130
1,4-Dichlorobenzene	20.0	22.37		ug/L		112	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.24	*-	ug/L		61	70 - 130
1,1-Dichloroethane	20.0	19.01		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	23.45		ug/L		117	70 - 130
1,1-Dichloroethene	20.0	17.77		ug/L		89	70 - 130
cis-1,2-Dichloroethene	20.0	17.85		ug/L		89	70 - 130
trans-1,2-Dichloroethene	20.0	18.37		ug/L		92	70 - 130
1,2-Dichloropropane	20.0	22.32		ug/L		112	70 - 130
1,3-Dichloropropane	20.0	19.28		ug/L		96	70 - 130
2,2-Dichloropropane	20.0	18.11		ug/L		91	70 - 130
1,1-Dichloropropene	20.0	17.76		ug/L		89	70 - 130
cis-1,3-Dichloropropene	20.0	19.85		ug/L		99	70 - 130
trans-1,3-Dichloropropene	20.0	20.66		ug/L		103	70 - 130
Ethylbenzene	20.0	22.42		ug/L		112	70 - 130
Hexachlorobutadiene	20.0	20.13		ug/L		101	70 - 130
2-Hexanone (MBK)	20.0	16.82		ug/L		84	70 - 130
Isopropylbenzene	20.0	20.01		ug/L		100	70 - 130
4-Isopropyltoluene	20.0	22.13		ug/L		111	70 - 130
Methyl tert-butyl ether	20.0	16.96		ug/L		85	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.48		ug/L		97	70 - 130
Methylene Chloride	20.0	18.86		ug/L		94	70 - 130
Naphthalene	20.0	18.30		ug/L		92	70 - 130
N-Propylbenzene	20.0	20.67		ug/L		103	70 - 130
Styrene	20.0	20.84		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	20.0	22.04		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	20.0	23.15		ug/L		116	70 - 130
Tetrachloroethene	20.0	17.71		ug/L		89	70 - 130
Toluene	20.0	19.20		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	20.0	19.18		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	20.0	18.55		ug/L		93	70 - 130
1,3,5-Trichlorobenzene	20.0	21.40		ug/L		107	70 - 130
1,1,1-Trichloroethane	20.0	18.82		ug/L		94	70 - 130
1,1,2-Trichloroethane	20.0	21.30		ug/L		106	70 - 130
Trichloroethene	20.0	18.34		ug/L		92	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	20.96		ug/L		105	70 - 130
1,2,3-Trichloropropane	20.0	20.02		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	20.0	22.51		ug/L		113	70 - 130
1,3,5-Trimethylbenzene	20.0	21.95		ug/L		110	70 - 130
Vinyl chloride	20.0	18.69		ug/L		93	70 - 130
m,p-Xylene	40.0	47.95		ug/L		120	70 - 130
o-Xylene	20.0	23.08		ug/L		115	70 - 130
Tetrahydrofuran	20.0	15.87		ug/L		79	70 - 130
Ethyl ether	20.0	19.95		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21130/4
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	20.0	16.17		ug/L		81	70 - 130
Ethyl tert-butyl ether	20.0	17.89		ug/L		89	70 - 130
di-Isopropyl ether	20.0	19.30		ug/L		96	70 - 130
tert-Butanol	200	185.1		ug/L		93	70 - 130
1,4-Dioxane	200	127.2	*-	ug/L		64	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.51		ug/L		103	70 - 130
Ethanol	400	369.2		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*
Dibromofluoromethane (Surr)	*119*		*70 - 130*

Lab Sample ID: LCSD 620-21130/5
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.36		ug/L		92	70 - 130	2	20
Acetone	20.0	15.21		ug/L		76	70 - 130	10	20
Acrylonitrile	20.0	16.97		ug/L		85	70 - 130	4	20
Benzene	20.0	19.57		ug/L		98	70 - 130	0	20
Bromobenzene	20.0	19.81		ug/L		99	70 - 130	1	20
Bromochloromethane	20.0	21.31		ug/L		107	70 - 130	12	20
Bromodichloromethane	20.0	21.68		ug/L		108	70 - 130	0	20
Bromoform	20.0	22.79		ug/L		114	70 - 130	2	20
Bromomethane	20.0	25.60		ug/L		128	70 - 130	0	20
2-Butanone (MEK)	20.0	11.54	*-	ug/L		58	70 - 130	4	20
n-Butylbenzene	20.0	22.04		ug/L		110	70 - 130	1	20
sec-Butylbenzene	20.0	21.79		ug/L		109	70 - 130	0	20
tert-Butylbenzene	20.0	19.33		ug/L		97	70 - 130	1	20
Carbon disulfide	20.0	19.09		ug/L		95	70 - 130	4	20
Carbon tetrachloride	20.0	20.19		ug/L		101	70 - 130	1	20
Chlorobenzene	20.0	22.64		ug/L		113	70 - 130	1	20
Chloroethane	20.0	18.01		ug/L		90	70 - 130	2	20
Chloroform	20.0	20.19		ug/L		101	70 - 130	3	20
Chloromethane	20.0	19.60		ug/L		98	70 - 130	1	20
2-Chlorotoluene	20.0	21.40		ug/L		107	70 - 130	0	20
4-Chlorotoluene	20.0	21.72		ug/L		109	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	20.0	23.01		ug/L		115	70 - 130	2	20
Dibromochloromethane	20.0	22.13		ug/L		111	70 - 130	1	20
1,2-Dibromoethane (EDB)	20.0	20.22		ug/L		101	70 - 130	1	20
Dibromomethane	20.0	25.65		ug/L		128	70 - 130	3	20
1,2-Dichlorobenzene	20.0	24.65		ug/L		123	70 - 130	1	20
1,3-Dichlorobenzene	20.0	20.37		ug/L		102	70 - 130	0	20
1,4-Dichlorobenzene	20.0	22.75		ug/L		114	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21130/5
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	20.0	12.07	*-	ug/L		60	70 - 130	1	20
1,1-Dichloroethane	20.0	19.07		ug/L		95	70 - 130	0	20
1,2-Dichloroethane	20.0	22.50		ug/L		112	70 - 130	4	20
1,1-Dichloroethene	20.0	17.62		ug/L		88	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	18.95		ug/L		95	70 - 130	6	20
trans-1,2-Dichloroethene	20.0	20.12		ug/L		101	70 - 130	9	20
1,2-Dichloropropane	20.0	22.32		ug/L		112	70 - 130	0	20
1,3-Dichloropropane	20.0	19.31		ug/L		97	70 - 130	0	20
2,2-Dichloropropane	20.0	17.79		ug/L		89	70 - 130	2	20
1,1-Dichloropropene	20.0	17.78		ug/L		89	70 - 130	0	20
cis-1,3-Dichloropropene	20.0	20.08		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	20.0	20.87		ug/L		104	70 - 130	1	20
Ethylbenzene	20.0	22.69		ug/L		113	70 - 130	1	20
Hexachlorobutadiene	20.0	20.60		ug/L		103	70 - 130	2	20
2-Hexanone (MBK)	20.0	17.47		ug/L		87	70 - 130	4	20
Isopropylbenzene	20.0	20.21		ug/L		101	70 - 130	1	20
4-Isopropyltoluene	20.0	22.51		ug/L		113	70 - 130	2	20
Methyl tert-butyl ether	20.0	17.06		ug/L		85	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	20.14		ug/L		101	70 - 130	3	20
Methylene Chloride	20.0	18.19		ug/L		91	70 - 130	4	20
Naphthalene	20.0	18.91		ug/L		95	70 - 130	3	20
N-Propylbenzene	20.0	20.76		ug/L		104	70 - 130	0	20
Styrene	20.0	20.84		ug/L		104	70 - 130	0	20
1,1,1,2-Tetrachloroethane	20.0	22.03		ug/L		110	70 - 130	0	20
1,1,2,2-Tetrachloroethane	20.0	23.54		ug/L		118	70 - 130	2	20
Tetrachloroethene	20.0	17.59		ug/L		88	70 - 130	1	20
Toluene	20.0	19.17		ug/L		96	70 - 130	0	20
1,2,3-Trichlorobenzene	20.0	19.54		ug/L		98	70 - 130	2	20
1,2,4-Trichlorobenzene	20.0	18.80		ug/L		94	70 - 130	1	20
1,3,5-Trichlorobenzene	20.0	21.61		ug/L		108	70 - 130	1	20
1,1,1-Trichloroethane	20.0	18.88		ug/L		94	70 - 130	0	20
1,1,2-Trichloroethane	20.0	21.39		ug/L		107	70 - 130	0	20
Trichloroethene	20.0	18.44		ug/L		92	70 - 130	1	20
Trichlorofluoromethane (Freon 11)	20.0	20.74		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane	20.0	20.64		ug/L		103	70 - 130	3	20
1,2,4-Trimethylbenzene	20.0	22.55		ug/L		113	70 - 130	0	20
1,3,5-Trimethylbenzene	20.0	22.09		ug/L		110	70 - 130	1	20
Vinyl chloride	20.0	18.32		ug/L		92	70 - 130	2	20
m,p-Xylene	40.0	48.57		ug/L		121	70 - 130	1	20
o-Xylene	20.0	23.24		ug/L		116	70 - 130	1	20
Tetrahydrofuran	20.0	14.77		ug/L		74	70 - 130	7	20
Ethyl ether	20.0	20.04		ug/L		100	70 - 130	0	20
Tert-amyl methyl ether	20.0	15.88		ug/L		79	70 - 130	2	20
Ethyl tert-butyl ether	20.0	18.07		ug/L		90	70 - 130	1	20
di-Isopropyl ether	20.0	19.30		ug/L		97	70 - 130	0	20
tert-Butanol	200	172.1		ug/L		86	70 - 130	7	20
1,4-Dioxane	200	116.9	*-	ug/L		58	70 - 130	8	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21130/5
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			20.0	21.15		ug/L		106	70 - 130	3	20
Ethanol			400	328.8		ug/L		82	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*
Dibromofluoromethane (Surr)	*117*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/05/23 09:47	04/07/23 14:52	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/05/23 09:47	04/07/23 14:52	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/05/23 09:47	04/07/23 14:52	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/05/23 09:47	04/07/23 14:52	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/05/23 09:47	04/07/23 14:52	1
Acetophenone	ND		5.00	0.729	ug/L		04/05/23 09:47	04/07/23 14:52	1
Aniline	ND		5.00	1.40	ug/L		04/05/23 09:47	04/07/23 14:52	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzidine	ND		20.0	1.93	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzoic acid	ND		40.0	40.0	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/05/23 09:47	04/07/23 14:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/05/23 09:47	04/07/23 14:52	1
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/05/23 09:47	04/07/23 14:52	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/05/23 09:47	04/07/23 14:52	1
Carbazole	ND		5.00	0.913	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/05/23 09:47	04/07/23 14:52	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/05/23 09:47	04/07/23 14:52	1
Isophorone	ND		5.00	0.508	ug/L		04/05/23 09:47	04/07/23 14:52	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/05/23 09:47	04/07/23 14:52	1
Phenol	ND		5.00	0.635	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pyridine	ND		5.00	1.34	ug/L		04/05/23 09:47	04/07/23 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2-Fluorophenol (Surr)	*55*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Phenol-d5 (Surr)	*36*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Terphenyl-d14	*68*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	16.05		ug/L		40	40 - 140
1,2,4-Trichlorobenzene	40.0	19.46		ug/L		49	40 - 140
1,2-Dichlorobenzene	40.0	19.98		ug/L		50	40 - 140
1,3-Dichlorobenzene	40.0	19.10		ug/L		48	40 - 140
1,4-Dichlorobenzene	40.0	19.07		ug/L		48	40 - 140
2,4,5-Trichlorophenol	40.0	24.71		ug/L		62	30 - 130
2,4,6-Trichlorophenol	40.0	24.14		ug/L		60	30 - 130
2,4-Dichlorophenol	40.0	22.11		ug/L		55	30 - 130
2,4-Dimethylphenol	40.0	19.76		ug/L		49	30 - 130
2,4-Dinitrophenol	40.0	29.51		ug/L		74	30 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	40.0	29.82		ug/L		75	40 - 140
2,6-Dinitrotoluene	40.0	27.30		ug/L		68	40 - 140
2-Chloronaphthalene	40.0	21.64		ug/L		54	40 - 140
2-Chlorophenol	40.0	22.06		ug/L		55	30 - 130
2-Methylphenol	40.0	18.88		ug/L		47	30 - 130
2-Nitroaniline	40.0	26.85		ug/L		67	40 - 140
2-Nitrophenol	40.0	22.63		ug/L		57	30 - 130
3 & 4 Methylphenol	40.0	18.05		ug/L		45	30 - 130
3,3'-Dichlorobenzidine	40.0	41.03		ug/L		103	40 - 140
3-Nitroaniline	40.0	25.28		ug/L		63	40 - 140
4,6-Dinitro-2-methylphenol	40.0	33.96		ug/L		85	30 - 130
4-Bromophenyl phenyl ether	40.0	26.56		ug/L		66	40 - 140
4-Chloro-3-methylphenol	40.0	23.42		ug/L		59	30 - 130
4-Chloroaniline	40.0	18.16		ug/L		45	40 - 140
4-Chlorophenyl phenyl ether	40.0	24.22		ug/L		61	40 - 140
4-Nitroaniline	40.0	35.09		ug/L		88	40 - 140
4-Nitrophenol	40.0	14.59	J	ug/L		36	30 - 130
Acetophenone	40.0	24.21		ug/L		61	40 - 140
Aniline	40.0	16.11		ug/L		40	40 - 140
Azobenzene/Diphenyldiazene	40.0	24.59		ug/L		61	40 - 140
Benzidine	40.0	6.263	J *-	ug/L		16	40 - 140
Benzoic acid	40.0	16.92		ug/L		42	30 - 130
Benzyl alcohol	40.0	18.98		ug/L		47	40 - 140
Bis(2-chloroethoxy)methane	40.0	20.28		ug/L		51	40 - 140
Bis(2-chloroethyl)ether	40.0	21.18		ug/L		53	40 - 140
bis (2-chloroisopropyl) ether	40.0	19.16		ug/L		48	40 - 140
Bis(2-ethylhexyl) phthalate	40.0	37.61		ug/L		94	40 - 140
Butyl benzyl phthalate	40.0	37.21		ug/L		93	40 - 140
Carbazole	40.0	32.62		ug/L		82	40 - 140
Dibenzofuran	40.0	23.23		ug/L		58	40 - 140
Diethyl phthalate	40.0	30.13		ug/L		75	40 - 140
Dimethyl phthalate	40.0	26.66		ug/L		67	40 - 140
Di-n-butyl phthalate	40.0	35.34		ug/L		88	40 - 140
Di-n-octyl phthalate	40.0	36.15		ug/L		90	40 - 140
Hexachlorobenzene	40.0	27.20		ug/L		68	40 - 140
Hexachlorobutadiene	40.0	17.05		ug/L		43	40 - 140
Hexachlorocyclopentadiene	40.0	16.78		ug/L		42	40 - 140
Hexachloroethane	40.0	19.23		ug/L		48	40 - 140
Isophorone	40.0	17.39		ug/L		43	40 - 140
Nitrobenzene	40.0	21.92		ug/L		55	40 - 140
N-Nitrosodimethylamine	40.0	11.21	*-	ug/L		28	40 - 140
N-Nitrosodi-n-propylamine	40.0	24.34		ug/L		61	40 - 140
N-Nitrosodiphenylamine	40.0	28.69		ug/L		72	40 - 140
Pentachloronitrobenzene	40.0	22.63		ug/L		57	40 - 140
Pentachlorophenol	40.0	26.52		ug/L		66	30 - 130
Phenol	40.0	9.606	*-	ug/L		24	40 - 140
Pyridine	40.0	10.19	*-	ug/L		25	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	52		30 - 130
2-Fluorophenol (Surr)	35		15 - 110
Nitrobenzene-d5 (Surr)	54		30 - 130
Phenol-d5 (Surr)	22		15 - 110
2,4,6-Tribromophenol (Surr)	70		15 - 110
Terphenyl-d14	77		30 - 130

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			40.0	19.39		ug/L		48	40 - 140	19	20
1,2,4-Trichlorobenzene			40.0	23.08		ug/L		58	40 - 140	17	20
1,2-Dichlorobenzene			40.0	21.76		ug/L		54	40 - 140	9	20
1,3-Dichlorobenzene			40.0	20.84		ug/L		52	40 - 140	9	20
1,4-Dichlorobenzene			40.0	20.96		ug/L		52	40 - 140	9	20
2,4,5-Trichlorophenol			40.0	29.52		ug/L		74	30 - 130	18	20
2,4,6-Trichlorophenol			40.0	28.08		ug/L		70	30 - 130	15	20
2,4-Dichlorophenol			40.0	25.20		ug/L		63	30 - 130	13	20
2,4-Dimethylphenol			40.0	24.21		ug/L		61	30 - 130	20	20
2,4-Dinitrophenol			40.0	39.89	*1	ug/L		100	30 - 130	30	20
2,4-Dinitrotoluene			40.0	31.21		ug/L		78	40 - 140	5	20
2,6-Dinitrotoluene			40.0	30.27		ug/L		76	40 - 140	10	20
2-Chloronaphthalene			40.0	26.01		ug/L		65	40 - 140	18	20
2-Chlorophenol			40.0	23.53		ug/L		59	30 - 130	6	20
2-Methylphenol			40.0	22.06		ug/L		55	30 - 130	16	20
2-Nitroaniline			40.0	30.19		ug/L		75	40 - 140	12	20
2-Nitrophenol			40.0	25.74		ug/L		64	30 - 130	13	20
3 & 4 Methylphenol			40.0	21.74		ug/L		54	30 - 130	19	20
3,3'-Dichlorobenzidine			40.0	41.58		ug/L		104	40 - 140	1	20
3-Nitroaniline			40.0	27.37		ug/L		68	40 - 140	8	20
4,6-Dinitro-2-methylphenol			40.0	41.21		ug/L		103	30 - 130	19	20
4-Bromophenyl phenyl ether			40.0	29.73		ug/L		74	40 - 140	11	20
4-Chloro-3-methylphenol			40.0	28.10		ug/L		70	30 - 130	18	20
4-Chloroaniline			40.0	22.72	*1	ug/L		57	40 - 140	22	20
4-Chlorophenyl phenyl ether			40.0	28.31		ug/L		71	40 - 140	16	20
4-Nitroaniline			40.0	35.00		ug/L		88	40 - 140	0	20
4-Nitrophenol			40.0	17.74	J	ug/L		44	30 - 130	19	20
Acetophenone			40.0	26.07		ug/L		65	40 - 140	7	20
Aniline			40.0	12.29	*- *1	ug/L		31	40 - 140	27	20
Azobenzene/Diphenyldiazene			40.0	29.30		ug/L		73	40 - 140	17	20
Benzidine			40.0	4.568	J *- *1	ug/L		11	40 - 140	31	20
Benzoic acid			40.0	28.35	*1	ug/L		71	30 - 130	50	20
Benzyl alcohol			40.0	20.96		ug/L		52	40 - 140	10	20
Bis(2-chloroethoxy)methane			40.0	23.23		ug/L		58	40 - 140	14	20
Bis(2-chloroethyl)ether			40.0	22.69		ug/L		57	40 - 140	7	20
bis (2-chloroisopropyl) ether			40.0	21.07		ug/L		53	40 - 140	9	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			40.0	35.61		ug/L		89	40 - 140	5	20
Butyl benzyl phthalate			40.0	36.28		ug/L		91	40 - 140	3	20
Carbazole			40.0	33.36		ug/L		83	40 - 140	2	20
Dibenzofuran			40.0	27.18		ug/L		68	40 - 140	16	20
Diethyl phthalate			40.0	31.50		ug/L		79	40 - 140	4	20
Dimethyl phthalate			40.0	29.58		ug/L		74	40 - 140	10	20
Di-n-butyl phthalate			40.0	34.73		ug/L		87	40 - 140	2	20
Di-n-octyl phthalate			40.0	34.56		ug/L		86	40 - 140	4	20
Hexachlorobenzene			40.0	29.73		ug/L		74	40 - 140	9	20
Hexachlorobutadiene			40.0	20.95	*1	ug/L		52	40 - 140	21	20
Hexachlorocyclopentadiene			40.0	22.46	*1	ug/L		56	40 - 140	29	20
Hexachloroethane			40.0	21.15		ug/L		53	40 - 140	9	20
Isophorone			40.0	20.40		ug/L		51	40 - 140	16	20
Nitrobenzene			40.0	25.35		ug/L		63	40 - 140	14	20
N-Nitrosodimethylamine			40.0	17.23	*1	ug/L		43	40 - 140	42	20
N-Nitrosodi-n-propylamine			40.0	26.23		ug/L		66	40 - 140	7	20
N-Nitrosodiphenylamine			40.0	29.94		ug/L		75	40 - 140	4	20
Pentachloronitrobenzene			40.0	28.18	*1	ug/L		70	40 - 140	22	20
Pentachlorophenol			40.0	30.84		ug/L		77	30 - 130	15	20
Phenol			40.0	12.95	*- *1	ug/L		32	40 - 140	30	20
Pyridine			40.0	4.932	J *- *1	ug/L		12	40 - 140	70	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*30 - 130*
2-Fluorophenol (Surr)	*46*		*15 - 110*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*
Phenol-d5 (Surr)	*31*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*69*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/05/23 09:47	04/05/23 15:12	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/05/23 09:47	04/05/23 15:12	1
Anthracene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]anthracene	ND		0.0500	0.0413	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[g,h,i]perylene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[k]fluoranthene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Chrysene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Dibenz(a,h)anthracene	ND		0.0500	0.0342	ug/L		04/05/23 09:47	04/05/23 15:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Fluorene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Naphthalene	0.04711	J	0.0500	0.0464	ug/L		04/05/23 09:47	04/05/23 15:12	1
Phenanthrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1
Pyrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Terphenyl-d14	*65*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Benzo(e)pyrene-d12	*81*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*

Lab Sample ID: LCS 620-21080/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	4.00	3.040		ug/L		76	40 - 140
2-Methylnaphthalene	4.00	2.880		ug/L		72	40 - 140
Acenaphthene	4.00	3.004		ug/L		75	40 - 140
Acenaphthylene	4.00	2.912		ug/L		73	40 - 140
Anthracene	4.00	3.135		ug/L		78	40 - 140
Benzo[a]anthracene	4.00	1.807		ug/L		45	40 - 140
Benzo[a]pyrene	4.00	2.620		ug/L		66	40 - 140
Benzo[b]fluoranthene	4.00	1.621		ug/L		41	40 - 140
Benzo[g,h,i]perylene	4.00	2.174		ug/L		54	40 - 140
Benzo[k]fluoranthene	4.00	2.704		ug/L		68	40 - 140
Chrysene	4.00	3.197		ug/L		80	40 - 140
Dibenz(a,h)anthracene	4.00	1.755		ug/L		44	40 - 140
Fluoranthene	4.00	3.117		ug/L		78	40 - 140
Fluorene	4.00	2.810		ug/L		70	40 - 140
Indeno[1,2,3-cd]pyrene	4.00	1.619		ug/L		40	40 - 140
Naphthalene	4.00	2.707		ug/L		68	40 - 140
Phenanthrene	4.00	3.167		ug/L		79	40 - 140
Pyrene	4.00	3.331		ug/L		83	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*
Terphenyl-d14	*67*		*30 - 130*
Benzo(e)pyrene-d12	*80*		*30 - 130*

Lab Sample ID: LCSD 620-21080/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	4.00	3.070		ug/L		77	40 - 140	1	20
2-Methylnaphthalene	4.00	3.063		ug/L		77	40 - 140	6	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 620-21080/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			4.00	3.071		ug/L		77	40 - 140	2	20
Acenaphthylene			4.00	2.829		ug/L		71	40 - 140	3	20
Anthracene			4.00	2.783		ug/L		70	40 - 140	12	20
Benzo[a]anthracene			4.00	1.784		ug/L		45	40 - 140	1	20
Benzo[a]pyrene			4.00	2.395		ug/L		60	40 - 140	9	20
Benzo[b]fluoranthene			4.00	1.734		ug/L		43	40 - 140	7	20
Benzo[g,h,i]perylene			4.00	1.967		ug/L		49	40 - 140	10	20
Benzo[k]fluoranthene			4.00	2.588		ug/L		65	40 - 140	4	20
Chrysene			4.00	2.974		ug/L		74	40 - 140	7	20
Dibenz(a,h)anthracene			4.00	1.636		ug/L		41	40 - 140	7	20
Fluoranthene			4.00	2.808		ug/L		70	40 - 140	10	20
Fluorene			4.00	2.519		ug/L		63	40 - 140	11	20
Indeno[1,2,3-cd]pyrene			4.00	1.699		ug/L		42	40 - 140	5	20
Naphthalene			4.00	2.705		ug/L		68	40 - 140	0	20
Phenanthrene			4.00	2.859		ug/L		71	40 - 140	10	20
Pyrene			4.00	3.034		ug/L		76	40 - 140	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*
Terphenyl-d14	*62*		*30 - 130*
Benzo(e)pyrene-d12	*79*		*30 - 130*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 620-21124/6
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 13:44	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 13:44	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 620-21124/3
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C10 Aromatics	20.0	ND		ug/L		115	70 - 130
C5-C8 Aliphatics (unadjusted)	60.0	ND		ug/L		100	70 - 130
C9-C12 Aliphatics (unadjusted)	60.0	ND		ug/L		81	70 - 130
Benzene	20.0	20.29		ug/L		101	70 - 130
Ethylbenzene	20.0	21.87		ug/L		109	70 - 130
Methyl tert-butyl ether	20.0	18.80		ug/L		94	70 - 130
Naphthalene	20.0	21.58		ug/L		108	70 - 130
Toluene	20.0	20.18		ug/L		101	70 - 130
m,p-Xylene	40.0	41.83		ug/L		105	70 - 130
o-Xylene	20.0	22.10		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*

Lab Sample ID: LCSD 620-21124/4
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics	20.0	ND		ug/L		115	70 - 130	0	25
C5-C8 Aliphatics (unadjusted)	60.0	ND		ug/L		99	70 - 130	1	25
C9-C12 Aliphatics (unadjusted)	60.0	ND		ug/L		78	70 - 130	3	25
Benzene	20.0	20.24		ug/L		101	70 - 130	0	25
Ethylbenzene	20.0	21.59		ug/L		108	70 - 130	1	25
Methyl tert-butyl ether	20.0	19.23		ug/L		96	70 - 130	2	25
Naphthalene	20.0	21.94		ug/L		110	70 - 130	2	25
Toluene	20.0	19.95		ug/L		100	70 - 130	1	25
m,p-Xylene	40.0	41.12		ug/L		103	70 - 130	2	25
o-Xylene	20.0	21.92		ug/L		110	70 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*
2,5-Dibromotoluene (pid)	*89*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-21137/1-A
Matrix: Water
Analysis Batch: 21225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/10/23 11:51	1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-21137/1-A
Matrix: Water
Analysis Batch: 21225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/10/23 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*

Lab Sample ID: LCS 620-21137/2-A
Matrix: Water
Analysis Batch: 21181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	2.710		ug/L		68	40 - 140
PCB-1016	4.00	2.285		ug/L		57	40 - 140
PCB-1260	4.00	2.703		ug/L		68	40 - 140
PCB-1260	4.00	2.560		ug/L		64	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*30 - 150*
Tetrachloro-m-xylene	*52*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Lab Sample ID: LCSD 620-21137/3-A
Matrix: Water
Analysis Batch: 21181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	4.00	2.599		ug/L		65	40 - 140	4	20
PCB-1016	4.00	2.381		ug/L		60	40 - 140	4	20
PCB-1260	4.00	3.171		ug/L		79	40 - 140	16	20
PCB-1260	4.00	2.907		ug/L		73	40 - 140	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*58*		*30 - 150*
Tetrachloro-m-xylene	*56*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-362080/1-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 07:45	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 07:45	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 07:45	1
Barium	ND		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 07:45	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 07:45	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 07:45	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 07:45	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 07:45	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 07:45	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 07:45	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 07:45	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 07:45	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 07:45	1

Lab Sample ID: LCS 410-362080/2-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	523.9		ug/L		105	80 - 120
Antimony	100	103.8		ug/L		104	80 - 120
Arsenic	500	526.4		ug/L		105	80 - 120
Barium	500	529.7		ug/L		106	80 - 120
Beryllium	50.0	49.60		ug/L		99	80 - 120
Cadmium	50.0	52.78		ug/L		106	80 - 120
Chromium	500	533.0		ug/L		107	80 - 120
Nickel	500	524.9		ug/L		105	80 - 120
Lead	50.0	53.20		ug/L		106	80 - 120
Selenium	100	104.9		ug/L		105	80 - 120
Thallium	100	105.6		ug/L		106	80 - 120
Vanadium	500	530.4		ug/L		106	80 - 120
Silver	50.0	53.49		ug/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-361893/1-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 05:58	04/07/23 13:43	1

Lab Sample ID: LCS 410-361893/2-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.9279		ug/L		93	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-361915/1-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 12:44	1

Lab Sample ID: LCS 410-361915/2-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.024		ug/L		102	80 - 120

GC/MS VOA

Analysis Batch: 21055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-5	2023-MW-09	Total/NA	Water	8260C	
MB 620-21055/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21055/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21055/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 21130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8260C	
620-10579-2	2023-MW-02	Total/NA	Water	8260C	
620-10579-3	2023-MW-07	Total/NA	Water	8260C	
620-10579-4	2023-MW-08	Total/NA	Water	8260C	
620-10579-7	2023-TB-02	Total/NA	Water	8260C	
MB 620-21130/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21130/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21130/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Analysis Batch: 21071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080

Prep Batch: 21080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	3510C	
620-10579-2	2023-MW-02	Total/NA	Water	3510C	
620-10579-3	2023-MW-07	Total/NA	Water	3510C	
620-10579-4	2023-MW-08	Total/NA	Water	3510C	
620-10579-5	2023-MW-09	Total/NA	Water	3510C	
MB 620-21080/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 21159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080

Analysis Batch: 21209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8270D	21080
620-10579-2	2023-MW-02	Total/NA	Water	8270D	21080
620-10579-3	2023-MW-07	Total/NA	Water	8270D	21080
620-10579-4	2023-MW-08	Total/NA	Water	8270D	21080
620-10579-5	2023-MW-09	Total/NA	Water	8270D	21080

GC/MS Semi VOA

Analysis Batch: 21347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8270D	21080
620-10579-2	2023-MW-02	Total/NA	Water	8270D	21080
620-10579-3	2023-MW-07	Total/NA	Water	8270D	21080
620-10579-4	2023-MW-08	Total/NA	Water	8270D	21080
620-10579-5	2023-MW-09	Total/NA	Water	8270D	21080

GC VOA

Analysis Batch: 21124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	MAVPH2.1	
620-10579-2	2023-MW-02	Total/NA	Water	MAVPH2.1	
620-10579-3	2023-MW-07	Total/NA	Water	MAVPH2.1	
620-10579-4	2023-MW-08	Total/NA	Water	MAVPH2.1	
620-10579-5	2023-MW-09	Total/NA	Water	MAVPH2.1	
620-10579-7	2023-TB-02	Total/NA	Water	MAVPH2.1	
MB 620-21124/6	Method Blank	Total/NA	Water	MAVPH2.1	
LCS 620-21124/3	Lab Control Sample	Total/NA	Water	MAVPH2.1	
LCSD 620-21124/4	Lab Control Sample Dup	Total/NA	Water	MAVPH2.1	

GC Semi VOA

Prep Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	3510C	
620-10579-2	2023-MW-02	Total/NA	Water	3510C	
620-10579-3	2023-MW-07	Total/NA	Water	3510C	
620-10579-4	2023-MW-08	Total/NA	Water	3510C	
620-10579-5	2023-MW-09	Total/NA	Water	3510C	
MB 620-21137/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 21181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8082	21137
620-10579-2	2023-MW-02	Total/NA	Water	8082	21137
620-10579-3	2023-MW-07	Total/NA	Water	8082	21137
620-10579-4	2023-MW-08	Total/NA	Water	8082	21137
620-10579-5	2023-MW-09	Total/NA	Water	8082	21137
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	8082	21137
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	8082	21137

Analysis Batch: 21225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21137/1-A	Method Blank	Total/NA	Water	8082	21137

Metals

Prep Batch: 361893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-4	2023-MW-08	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 361893 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-361893/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-361893/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 361915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	7470A	
620-10579-2	2023-MW-02	Total/NA	Water	7470A	
620-10579-3	2023-MW-07	Total/NA	Water	7470A	
620-10579-5	2023-MW-09	Total/NA	Water	7470A	
MB 410-361915/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-361915/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 362080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total Recoverable	Water	3005A	
620-10579-2	2023-MW-02	Total Recoverable	Water	3005A	
620-10579-3	2023-MW-07	Total Recoverable	Water	3005A	
620-10579-4	2023-MW-08	Total Recoverable	Water	3005A	
620-10579-5	2023-MW-09	Total Recoverable	Water	3005A	
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 362171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	7470A	361915
620-10579-2	2023-MW-02	Total/NA	Water	7470A	361915
620-10579-3	2023-MW-07	Total/NA	Water	7470A	361915
620-10579-4	2023-MW-08	Total/NA	Water	7470A	361893
620-10579-5	2023-MW-09	Total/NA	Water	7470A	361915
MB 410-361893/1-A	Method Blank	Total/NA	Water	7470A	361893
MB 410-361915/1-A	Method Blank	Total/NA	Water	7470A	361915
LCS 410-361893/2-A	Lab Control Sample	Total/NA	Water	7470A	361893
LCS 410-361915/2-A	Lab Control Sample	Total/NA	Water	7470A	361915

Analysis Batch: 363601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total Recoverable	Water	6020B	362080
620-10579-2	2023-MW-02	Total Recoverable	Water	6020B	362080
620-10579-3	2023-MW-07	Total Recoverable	Water	6020B	362080
620-10579-4	2023-MW-08	Total Recoverable	Water	6020B	362080
620-10579-5	2023-MW-09	Total Recoverable	Water	6020B	362080
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	6020B	362080
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	6020B	362080

Client Sample ID: 2023-MW-01 Lab Sample ID: 620-10579-1

Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 17:26
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 11:24
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 17:44
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 20:53
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:42
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:27
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 13:00

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 17:52
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 11:54
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 18:14
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 21:28
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:59
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:25
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 13:08

Client Sample ID: 2023-MW-07 Lab Sample ID: 620-10579-3

Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 18:18
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 12:23
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 18:44
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 22:03
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 23:16

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-07

Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:11
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 13:02

Client Sample ID: 2023-MW-08

Date Collected: 03/31/23 11:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 18:44
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 12:53
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 19:13
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 22:38
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:56
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 23:33
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:07
Total/NA	Prep	7470A			361893	UAMX	ELLE	04/07/23 05:58
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 14:38

Client Sample ID: 2023-MW-09

Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21055	CLR	EET NE	04/04/23 23:03
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 13:23
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 19:42
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 23:13
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:56
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 23:51
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:09
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 12:58

Lab Chronicle

Client: Nobis Engineering, Inc.
Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-TB-02
Lab Sample ID: 620-10579-7
Date Collected: 03/31/23 07:00
Matrix: Water
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 14:22
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 15:37

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3510C	Water	PCB-1016
8082	3510C	Water	PCB-1221
8082	3510C	Water	PCB-1232
8082	3510C	Water	PCB-1242
8082	3510C	Water	PCB-1248
8082	3510C	Water	PCB-1254
8082	3510C	Water	PCB-1260
8082	3510C	Water	PCB-1262
8082	3510C	Water	PCB-1268
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,1-Dichloropropene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,3-Trichloropropane
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane (EDB)
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,3-Dichloropropane
8260C		Water	1,3-Dichloropropene, Total
8260C		Water	1,4-Dichlorobenzene
8260C		Water	1,4-Dioxane
8260C		Water	2,2-Dichloropropane
8260C		Water	2-Butanone (MEK)
8260C		Water	2-Chlorotoluene
8260C		Water	2-Hexanone (MBK)
8260C		Water	4-Chlorotoluene
8260C		Water	4-Isopropyltoluene
8260C		Water	4-Methyl-2-pentanone (MIBK)
8260C		Water	Acetone
8260C		Water	Acrylonitrile
8260C		Water	Benzene
8260C		Water	Bromobenzene
8260C		Water	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Dibromochloromethane
8260C		Water	Dibromomethane
8260C		Water	Dichlorodifluoromethane (Freon 12)
8260C		Water	di-Isopropyl ether
8260C		Water	Ethanol
8260C		Water	Ethyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Ethylbenzene
8260C		Water	Hexachlorobutadiene
8260C		Water	Isopropylbenzene
8260C		Water	m,p-Xylene
8260C		Water	Methyl tert-butyl ether
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	n-Butylbenzene
8260C		Water	N-Propylbenzene
8260C		Water	o-Xylene
8260C		Water	sec-Butylbenzene
8260C		Water	Styrene
8260C		Water	Tert-amyl methyl ether
8260C		Water	tert-Butanol
8260C		Water	tert-Butylbenzene
8260C		Water	Tetrachloroethene
8260C		Water	Tetrahydrofuran
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	trans-1,4-Dichloro-2-butene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane (Freon 11)
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270D	3510C	Water	1,2,4-Trichlorobenzene
8270D	3510C	Water	1,2-Dichlorobenzene
8270D	3510C	Water	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	1,4-Dichlorobenzene
8270D	3510C	Water	1-Methylnaphthalene
8270D	3510C	Water	2,4,5-Trichlorophenol
8270D	3510C	Water	2,4,6-Trichlorophenol
8270D	3510C	Water	2,4-Dichlorophenol
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2,4-Dinitrotoluene
8270D	3510C	Water	2,6-Dinitrotoluene
8270D	3510C	Water	2-Chloronaphthalene
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	2-Methylnaphthalene
8270D	3510C	Water	2-Methylphenol
8270D	3510C	Water	2-Nitroaniline
8270D	3510C	Water	2-Nitrophenol
8270D	3510C	Water	3 & 4 Methylphenol
8270D	3510C	Water	3,3'-Dichlorobenzidine
8270D	3510C	Water	3-Nitroaniline
8270D	3510C	Water	4,6-Dinitro-2-methylphenol
8270D	3510C	Water	4-Bromophenyl phenyl ether
8270D	3510C	Water	4-Chloro-3-methylphenol
8270D	3510C	Water	4-Chloroaniline
8270D	3510C	Water	4-Chlorophenyl phenyl ether
8270D	3510C	Water	4-Nitroaniline
8270D	3510C	Water	4-Nitrophenol
8270D	3510C	Water	Acenaphthene
8270D	3510C	Water	Acenaphthylene
8270D	3510C	Water	Acetophenone
8270D	3510C	Water	Aniline
8270D	3510C	Water	Anthracene
8270D	3510C	Water	Azobenzene/Diphenyldiazene
8270D	3510C	Water	Benzidine
8270D	3510C	Water	Benzo[a]anthracene
8270D	3510C	Water	Benzo[a]pyrene
8270D	3510C	Water	Benzo[b]fluoranthene
8270D	3510C	Water	Benzo[g,h,i]perylene
8270D	3510C	Water	Benzo[k]fluoranthene
8270D	3510C	Water	Benzoic acid
8270D	3510C	Water	Benzyl alcohol
8270D	3510C	Water	bis (2-chloroisopropyl) ether
8270D	3510C	Water	Bis(2-chloroethoxy)methane
8270D	3510C	Water	Bis(2-chloroethyl)ether
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D	3510C	Water	Butyl benzyl phthalate
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Chrysene
8270D	3510C	Water	Dibenz(a,h)anthracene

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	Dibenzofuran
8270D	3510C	Water	Diethyl phthalate
8270D	3510C	Water	Dimethyl phthalate
8270D	3510C	Water	Di-n-butyl phthalate
8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Fluorene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isophorone
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodimethylamine
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosodiphenylamine
8270D	3510C	Water	Pentachloronitrobenzene
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol
8270D	3510C	Water	Pyrene
8270D	3510C	Water	Pyridine
MAVPH2.1		Water	Benzene
MAVPH2.1		Water	C5-C8 Aliphatics (adjusted)
MAVPH2.1		Water	C5-C8 Aliphatics (unadjusted)
MAVPH2.1		Water	C9-C10 Aromatics
MAVPH2.1		Water	C9-C12 Aliphatics (adjusted)
MAVPH2.1		Water	C9-C12 Aliphatics (unadjusted)
MAVPH2.1		Water	Ethylbenzene
MAVPH2.1		Water	m,p-Xylene
MAVPH2.1		Water	Methyl tert-butyl ether
MAVPH2.1		Water	Naphthalene
MAVPH2.1		Water	o-Xylene
MAVPH2.1		Water	Toluene
MAVPH2.1		Water	Xylenes, Total

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	04-17-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	04-17-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	04-17-23
Iowa	State	361	04-12-23
Kansas	NELAP	E-10151	04-17-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	04-17-23
Louisiana (All)	NELAP	02055	04-17-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	04-24-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	04-17-23
New Jersey	NELAP	PA011	04-17-23
New York	NELAP	10670	04-17-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	04-23-23
North Dakota	State	R-205	04-17-23
Oklahoma	NELAP	R-205	04-24-23
Oregon	NELAP	PA200001	04-12-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	04-17-23
Rhode Island	State	LAO00338	04-17-23
South Carolina	State	89002	04-23-23
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	04-17-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	04-17-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MAVPH2.1	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET NE
5030C	Purge and Trap	SW846	EET NE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10579-1	2023-MW-01	Water	03/31/23 12:15	04/03/23 13:14
620-10579-2	2023-MW-02	Water	03/31/23 16:00	04/03/23 13:14
620-10579-3	2023-MW-07	Water	03/31/23 10:55	04/03/23 13:14
620-10579-4	2023-MW-08	Water	03/31/23 11:00	04/03/23 13:14
620-10579-5	2023-MW-09	Water	03/31/23 09:20	04/03/23 13:14
620-10579-7	2023-TB-02	Water	03/31/23 07:00	04/03/23 13:14

10579

Chain of Custody Record

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620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
					Preservation Code:			A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water								✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
K. Mato	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/11/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8924.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10579-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/12/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	PRE_SCREEN_PFAS/PFAS_PreScn_W_P	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
2023-MW-01 (620-10579-1)	3/31/23	12:15 Eastern		Water			X	X	X	X	3	
2023-MW-02 (620-10579-2)	3/31/23	16:00 Eastern		Water			X	X	X	X	3	
2023-MW-07 (620-10579-3)	3/31/23	10:55 Eastern		Water			X	X	X	X	3	
2023-MW-08 (620-10579-4)	3/31/23	11:00 Eastern		Water			X	X	X	X	3	
2023-MW-09 (620-10579-5)	3/31/23	09:20 Eastern		Water			X	X	X	X	3	
2023-PFB-01 (620-10579-6)	3/31/23	18:30 Eastern		Water					X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/3/23 16:37	ENE	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/5/23 9:55	ENET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-1

Login Number: 10579
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-1

Login Number: 10579
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

APPENDIX D

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 5/15/2023 3:18:29 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10573-2

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

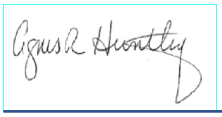
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10573-2

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/15/2023

Job ID: 620-10573-2

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10573-2

Comments
No additional comments.

Receipt
The samples were received on 3/31/2023 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

LCMS
Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-03 (620-10573-1) is outside of the QC limits for the initial injection and within QC limits for the re-injection. However, the recovery for the labeled isotope(s) in the re-injection sample is outside the QC acceptance limits. The values here are from the initial injection of the sample.

Method 537 (modified): The recovery for the labeled isotope(s) d3-NMePFOSA and d5-NEtPFOSA in the following sample: 2023-MW-05 (620-10573-4) and 2023-FD-01 (620-10573-5) are outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) were again outside the QC acceptance limits.

Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-05 (620-10573-4) is outside of the QC limits for the initial injection. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the sample injection standard in the re-extracted sample(s) was within the QC acceptance limits. The data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.467	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.79	J	1.91	0.957	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.852	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.374	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	1.09	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.222	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.41	J	1.91	0.479	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.60	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.834	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RA	0.294	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RA	1.83	J	1.91	0.957	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RA	0.768	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RA	1.20	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid - RA	0.193	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RA	1.29	J	1.91	0.479	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RA	1.47	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RA	0.829	J	1.91	0.287	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.318	J	1.99	0.299	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.19	J	1.99	0.996	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	1.45	J	1.99	0.299	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.635	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.610	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.565	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	16.8		1.99	0.498	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	10.5		1.99	0.299	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.04	J	1.86	0.928	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.231	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.666	J I	1.86	0.464	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.24	J	1.86	0.278	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.480	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	2.03		1.93	0.963	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.731	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.326	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.530	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.286	J I	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.743	J	1.93	0.481	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.89	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.646	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.439	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RE	1.76	J H	1.87	0.935	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-05 (Continued)

Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid - RE	0.542	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.202	J H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	0.553	J H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid - RE	0.198	J I H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonamide - RE	0.644	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	0.834	J H	1.87	0.467	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.64	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.542	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-FD-01

Lab Sample ID: 620-10573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.501	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.86	J	1.91	0.953	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.946	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.242	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	1.19	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.42	J	1.91	0.477	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.76	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.852	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.625	J I H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RE	1.68	J H	1.98	0.988	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RE	0.803	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.247	J H	1.98	0.198	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	1.08	J H	1.98	0.198	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	1.23	J H	1.98	0.494	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.47	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.733	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.766	ng/L		04/20/23 10:11	05/04/23 23:15	1
11Cl-PF3OUdS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.574	ng/L		04/20/23 10:11	05/04/23 23:15	1
9Cl-PF3ONS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
DONA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
HFPODA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSAA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSAA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSA	ND		1.91	0.670	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorobutanesulfonic acid	**0.467**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorobutanoic acid	**1.79**	**J**	1.91	0.957	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorodecanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorodecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorododecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroheptanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroheptanoic acid	**0.852**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexanesulfonic acid	**0.374**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexanoic acid	**1.09**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorononanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorononanoic acid	**0.222**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanesulfonamide	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanesulfonic acid	**1.41**	**J**	1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanoic acid	**1.60**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoropentanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoropentanoic acid	**0.834**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorotetradecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorotridecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroundecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*140*		*10 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
M2-6:2 FTS	*142*		*17 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
M2-8:2 FTS	*154*		*33 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C2 PFTeDA	*77*		*10 - 179*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C3 HFPO-DA	*85*		*17 - 185*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C3 PFBS	*143*		*16 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C4 PFBA	*122*		*42 - 165*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C4 PFHpA	*123*		*31 - 182*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C5 PFPeA	*127*		*38 - 187*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C8 PFOA	*118*		*48 - 162*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C8 PFOS	*117*		*51 - 159*	*04/20/23 10:11*	*05/04/23 23:15*	*1*

Client Sample ID: 2023-MW-03 **Lab Sample ID: 620-10573-1**
Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	112		31 - 174	04/20/23 10:11	05/04/23 23:15	1
d5-NEtFOSAA	110		29 - 195	04/20/23 10:11	05/04/23 23:15	1
d7-N-MeFOSE-M	59		10 - 178	04/20/23 10:11	05/04/23 23:15	1
d9-N-EtFOSE-M	52		10 - 177	04/20/23 10:11	05/04/23 23:15	1
13C3 PFHxS	122		28 - 188	04/20/23 10:11	05/04/23 23:15	1
13C5 PFHxA	114		24 - 179	04/20/23 10:11	05/04/23 23:15	1
13C6 PFDA	118		49 - 163	04/20/23 10:11	05/04/23 23:15	1
13C7 PFUnA	114		34 - 174	04/20/23 10:11	05/04/23 23:15	1
d3-NMePFOSA	12		10 - 155	04/20/23 10:11	05/04/23 23:15	1
d5-NEtPFOSA	10		10 - 159	04/20/23 10:11	05/04/23 23:15	1
13C8 FOSA	98		10 - 168	04/20/23 10:11	05/04/23 23:15	1
13C2-PFDoDA	95		17 - 176	04/20/23 10:11	05/04/23 23:15	1
13C9 PFNA	113		51 - 167	04/20/23 10:11	05/04/23 23:15	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.766	ng/L		04/20/23 10:11	05/09/23 18:08	1
11Cl-PF3OUdS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.574	ng/L		04/20/23 10:11	05/09/23 18:08	1
9Cl-PF3ONS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
DONA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
HFPODA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSAA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSAA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSA	ND		1.91	0.670	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorobutanesulfonic acid	**0.294**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorobutanoic acid	**1.83**	**J**	1.91	0.957	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorodecanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorodecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorododecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroheptanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroheptanoic acid	**0.768**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexanesulfonic acid	ND		1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexanoic acid	**1.20**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorononanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorononanoic acid	**0.193**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanesulfonamide	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanesulfonic acid	**1.29**	**J**	1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanoic acid	**1.47**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoropentanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoropentanoic acid	**0.829**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorotridecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroundecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*129*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
M2-6:2 FTS	*149*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
M2-8:2 FTS	*157*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C2 PFTeDA	*73*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 HFPO-DA	*118*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 PFBS	*151*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C4 PFHpA	*108*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C5 PFPeA	*133*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 PFOA	*108*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 PFOS	*115*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d3-NMeFOSAA	*113*		*31 - 174*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d5-NEtFOSAA	*114*		*29 - 195*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d7-N-MeFOSE-M	*56*		*10 - 178*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d9-N-EtFOSE-M	*52*		*10 - 177*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 PFHxS	*119*		*28 - 188*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C5 PFHxA	*104*		*24 - 179*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C6 PFDA	*116*		*49 - 163*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C7 PFUnA	*116*		*34 - 174*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d3-NMePFOSA	*10*		*10 - 155*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d5-NEtPFOSA	*8*	*5-	*10 - 159*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 FOSA	*100*		*10 - 168*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C2-PFDoDA	*95*		*17 - 176*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C9 PFNA	*115*		*51 - 167*	*04/20/23 10:11*	*05/09/23 18:08*	*1*

Client Sample ID: 2023-MW-04 **Lab Sample ID: 620-10573-2**
Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.99	0.796	ng/L		04/20/23 10:11	05/09/23 18:20	1
11Cl-PF3OUdS	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
4:2 Fluorotelomer sulfonic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
6:2 Fluorotelomer sulfonic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
8:2 Fluorotelomer sulfonic acid	ND		1.99	0.597	ng/L		04/20/23 10:11	05/09/23 18:20	1
9Cl-PF3ONS	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
DONA	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
HFPODA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSAA	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSAA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSA	ND		1.99	0.697	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorobutanesulfonic acid	**0.318**	**J**	1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorobutanoic acid	**1.19**	**J**	1.99	0.996	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorodecanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorodecanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorododecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroheptanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroheptanoic acid	**1.45**	**J**	1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexadecanoic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexanesulfonic acid	**0.635**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexanoic acid	**0.610**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorononanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorononanoic acid	**0.565**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctadecanoic acid	ND	F1	1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanesulfonamide	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanesulfonic acid	**16.8**		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanoic acid	**10.5**		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoropentanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoropentanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorotetradecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorotridecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroundecanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*122*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
M2-6:2 FTS	*144*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C2 PFTeDA	*75*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C3 HFPO-DA	*119*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C3 PFBS	*157*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C4 PFHpA	*106*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C5 PFPeA	*133*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C8 PFOA	*107*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C8 PFOS	*116*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:20*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04
Lab Sample ID: 620-10573-2
Date Collected: 03/30/23 14:20
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	119		31 - 174	04/20/23 10:11	05/09/23 18:20	1
d5-NEtFOSAA	130		29 - 195	04/20/23 10:11	05/09/23 18:20	1
d7-N-MeFOSE-M	75		10 - 178	04/20/23 10:11	05/09/23 18:20	1
d9-N-EtFOSE-M	66		10 - 177	04/20/23 10:11	05/09/23 18:20	1
13C3 PFHxS	122		28 - 188	04/20/23 10:11	05/09/23 18:20	1
13C5 PFHxA	98		24 - 179	04/20/23 10:11	05/09/23 18:20	1
13C6 PFDA	121		49 - 163	04/20/23 10:11	05/09/23 18:20	1
13C7 PFUnA	124		34 - 174	04/20/23 10:11	05/09/23 18:20	1
d3-NMePFOSA	15		10 - 155	04/20/23 10:11	05/09/23 18:20	1
d5-NEtPFOSA	12		10 - 159	04/20/23 10:11	05/09/23 18:20	1
13C8 FOSA	104		10 - 168	04/20/23 10:11	05/09/23 18:20	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/09/23 18:20	1
13C9 PFNA	119		51 - 167	04/20/23 10:11	05/09/23 18:20	1

Client Sample ID: 2023-MW-06 **Lab Sample ID: 620-10573-3**
Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.86	0.743	ng/L		04/20/23 10:11	05/05/23 00:10	1
11Cl-PF3OUdS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
4:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
6:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
8:2 Fluorotelomer sulfonic acid	ND		1.86	0.557	ng/L		04/20/23 10:11	05/05/23 00:10	1
9Cl-PF3ONS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
DONA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
HFPODA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSAA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSAA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSA	ND		1.86	0.650	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorobutanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorobutanoic acid	**1.04**	**J**	1.86	0.928	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorodecanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorodecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorododecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroheptanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroheptanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexanesulfonic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexanoic acid	**0.231**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorononanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorononanoic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanesulfonamide	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanesulfonic acid	**0.666**	**J I**	1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanoic acid	**1.24**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoropentanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoropentanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorotetradecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorotridecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroundecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*126*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
M2-6:2 FTS	*138*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
M2-8:2 FTS	*159*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C2 PFTeDA	*121*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C3 HFPO-DA	*102*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C3 PFBS	*135*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C4 PFBA	*67*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C4 PFHpA	*119*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C5 PFPeA	*125*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C8 PFOA	*116*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C8 PFOS	*119*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:10*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06
Lab Sample ID: 620-10573-3
Date Collected: 03/30/23 12:10
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	114		31 - 174	04/20/23 10:11	05/05/23 00:10	1
d5-NEtFOSAA	118		29 - 195	04/20/23 10:11	05/05/23 00:10	1
d7-N-MeFOSE-M	87		10 - 178	04/20/23 10:11	05/05/23 00:10	1
d9-N-EtFOSE-M	79		10 - 177	04/20/23 10:11	05/05/23 00:10	1
13C3 PFHxS	123		28 - 188	04/20/23 10:11	05/05/23 00:10	1
13C5 PFHxA	116		24 - 179	04/20/23 10:11	05/05/23 00:10	1
13C6 PFDA	116		49 - 163	04/20/23 10:11	05/05/23 00:10	1
13C7 PFUnA	121		34 - 174	04/20/23 10:11	05/05/23 00:10	1
d3-NMePFOSA	37		10 - 155	04/20/23 10:11	05/05/23 00:10	1
d5-NEtPFOSA	32		10 - 159	04/20/23 10:11	05/05/23 00:10	1
13C8 FOSA	110		10 - 168	04/20/23 10:11	05/05/23 00:10	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/05/23 00:10	1
13C9 PFNA	115		51 - 167	04/20/23 10:11	05/05/23 00:10	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.93	0.770	ng/L		04/20/23 10:11	05/05/23 00:21	1
11Cl-PF3OUdS	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
4:2 Fluorotelomer sulfonic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
6:2 Fluorotelomer sulfonic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
8:2 Fluorotelomer sulfonic acid	ND		1.93	0.578	ng/L		04/20/23 10:11	05/05/23 00:21	1
9Cl-PF3ONS	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
DONA	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
HFPODA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSAA	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSAA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSA	ND		1.93	0.674	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorobutanesulfonic acid	**0.480**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorobutanoic acid	**2.03**		1.93	0.963	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorodecanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorodecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorododecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroheptanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroheptanoic acid	**0.731**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexadecanoic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexanesulfonic acid	**0.326**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexanoic acid	**0.530**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorononanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorononanoic acid	**0.286**	**J I**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctadecanoic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanesulfonamide	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanesulfonic acid	**0.743**	**J**	1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanoic acid	**1.89**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoropentanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoropentanoic acid	**0.646**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorotetradecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorotridecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroundecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*123*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
M2-6:2 FTS	*159*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
M2-8:2 FTS	*154*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C2 PFTeDA	*54*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C3 PFBS	*159*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C4 PFBA	*115*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C4 PFHpA	*107*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C8 PFOA	*111*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C8 PFOS	*110*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:21*	*1*

Client Sample ID: 2023-MW-05 Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	94		31 - 174	04/20/23 10:11	05/05/23 00:21	1
d5-NEtFOSAA	93		29 - 195	04/20/23 10:11	05/05/23 00:21	1
d7-N-MeFOSE-M	32		10 - 178	04/20/23 10:11	05/05/23 00:21	1
d9-N-EtFOSE-M	29		10 - 177	04/20/23 10:11	05/05/23 00:21	1
13C3 PFHxS	124		28 - 188	04/20/23 10:11	05/05/23 00:21	1
13C5 PFHxA	98		24 - 179	04/20/23 10:11	05/05/23 00:21	1
13C6 PFDA	106		49 - 163	04/20/23 10:11	05/05/23 00:21	1
13C7 PFUnA	107		34 - 174	04/20/23 10:11	05/05/23 00:21	1
d3-NMePFOSA	5	*5-	10 - 155	04/20/23 10:11	05/05/23 00:21	1
d5-NEtPFOSA	4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:21	1
13C8 FOSA	74		10 - 168	04/20/23 10:11	05/05/23 00:21	1
13C2-PFDoDA	90		17 - 176	04/20/23 10:11	05/05/23 00:21	1
13C9 PFNA	105		51 - 167	04/20/23 10:11	05/05/23 00:21	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.87	0.748	ng/L		05/10/23 08:01	05/12/23 06:35	1
11Cl-PF3OUdS	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.561	ng/L		05/10/23 08:01	05/12/23 06:35	1
9Cl-PF3ONS	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
DONA	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
HFPODA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSAA	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSE	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSAA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSA	ND	H	1.87	0.654	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSE	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorobutanesulfonic acid	**0.439**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorobutanoic acid	**1.76**	**J H**	1.87	0.935	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorodecanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorodecanoic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorododecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroheptanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroheptanoic acid	**0.542**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexadecanoic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexanesulfonic acid	**0.202**	**J H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexanoic acid	**0.553**	**J H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorononanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorononanoic acid	**0.198**	**J I H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctadecanoic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanesulfonamide	**0.644**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanesulfonic acid	**0.834**	**J H**	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanoic acid	**1.64**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoropentanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoropentanoic acid	**0.542**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05
Lab Sample ID: 620-10573-4
Date Collected: 03/30/23 15:05
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorotridecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroundecanoic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*131*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
M2-6:2 FTS	*168*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
M2-8:2 FTS	*174*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C2 PFTeDA	*72*		*10 - 179*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 HFPO-DA	*99*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 PFBS	*197*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C4 PFBA	*129*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C4 PFHpA	*107*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C5 PFPeA	*167*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 PFOA	*109*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 PFOS	*115*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d3-NMeFOSAA	*105*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d5-NEtFOSAA	*102*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d7-N-MeFOSE-M	*12*		*10 - 178*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d9-N-EtFOSE-M	*13*		*10 - 177*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 PFHxS	*126*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C5 PFHxA	*99*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C6 PFDA	*117*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C7 PFUnA	*119*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d3-NMePFOSA	*0.2*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d5-NEtPFOSA	*0.2*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 FOSA	*36*		*10 - 168*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C2-PFDoDA	*102*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C9 PFNA	*120*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:35*	*1*

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10573-5**
Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.762	ng/L		04/20/23 10:11	05/05/23 00:32	1
11Cl-PF3OUdS	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.572	ng/L		04/20/23 10:11	05/05/23 00:32	1
9Cl-PF3ONS	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
DONA	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
HFPODA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSAA	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSE	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSAA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSA	ND		1.91	0.667	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSE	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorobutanesulfonic acid	**0.501**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorobutanoic acid	**1.86**	**J**	1.91	0.953	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorodecanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorodecanoic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorododecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroheptanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroheptanoic acid	**0.946**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexadecanoic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexanesulfonic acid	**0.242**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexanoic acid	**1.19**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorononanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorononanoic acid	ND		1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctadecanoic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanesulfonamide	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanesulfonic acid	**1.42**	**J**	1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanoic acid	**1.76**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoropentanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoropentanoic acid	**0.852**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorotetradecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorotridecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroundecanoic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*135*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
M2-6:2 FTS	*146*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
M2-8:2 FTS	*145*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C2 PFTeDA	*97*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C3 HFPO-DA	*99*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C3 PFBS	*154*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C4 PFHpA	*112*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C5 PFPeA	*128*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C8 PFOA	*111*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C8 PFOS	*116*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:32*	*1*

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10573-5**
Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	112		31 - 174	04/20/23 10:11	05/05/23 00:32	1
d5-NEtFOSAA	109		29 - 195	04/20/23 10:11	05/05/23 00:32	1
d7-N-MeFOSE-M	13		10 - 178	04/20/23 10:11	05/05/23 00:32	1
d9-N-EtFOSE-M	10		10 - 177	04/20/23 10:11	05/05/23 00:32	1
13C3 PFHxS	127		28 - 188	04/20/23 10:11	05/05/23 00:32	1
13C5 PFHxA	104		24 - 179	04/20/23 10:11	05/05/23 00:32	1
13C6 PFDA	113		49 - 163	04/20/23 10:11	05/05/23 00:32	1
13C7 PFUnA	111		34 - 174	04/20/23 10:11	05/05/23 00:32	1
d3-NMePFOSA	0.2	*5-	10 - 155	04/20/23 10:11	05/05/23 00:32	1
d5-NEtPFOSA	0.4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:32	1
13C8 FOSA	56		10 - 168	04/20/23 10:11	05/05/23 00:32	1
13C2-PFDoDA	100		17 - 176	04/20/23 10:11	05/05/23 00:32	1
13C9 PFNA	113		51 - 167	04/20/23 10:11	05/05/23 00:32	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.98	0.790	ng/L		05/10/23 08:01	05/12/23 06:46	1
11Cl-PF3OUdS	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.593	ng/L		05/10/23 08:01	05/12/23 06:46	1
9Cl-PF3ONS	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
DONA	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
HFPODA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSAA	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSE	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSAA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSA	ND	H	1.98	0.691	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSE	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorobutanesulfonic acid	**0.625**	**J I H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorobutanoic acid	**1.68**	**J H**	1.98	0.988	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorodecanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorodecanoic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorododecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroheptanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroheptanoic acid	**0.803**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexadecanoic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexanesulfonic acid	**0.247**	**J H**	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexanoic acid	**1.08**	**J H**	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorononanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorononanoic acid	ND	H	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctadecanoic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanesulfonamide	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanesulfonic acid	**1.23**	**J H**	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanoic acid	**1.47**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoropentanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoropentanoic acid	**0.733**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorotridecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroundecanoic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*170*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
M2-6:2 FTS	*175*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
M2-8:2 FTS	*195*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C2 PFTeDA	*98*		*10 - 179*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 HFPO-DA	*152*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 PFBS	*184*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C4 PFBA	*140*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C4 PFHpA	*125*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C5 PFPeA	*157*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 PFOA	*128*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 PFOS	*138*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d3-NMeFOSAA	*128*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d5-NEtFOSAA	*133*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d7-N-MeFOSE-M	*38*		*10 - 178*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d9-N-EtFOSE-M	*35*		*10 - 177*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 PFHxS	*144*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C5 PFHxA	*123*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C6 PFDA	*140*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C7 PFUnA	*135*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d3-NMePFOSA	*0.4*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d5-NEtPFOSA	*0.4*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 FOSA	*96*		*10 - 168*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C2-PFDoDA	*125*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C9 PFNA	*139*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:46*	*1*

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	PFTDA	HFPODA	C3PFBS	PFBA	C4PFHA
Lab Sample ID	Client Sample ID	(10-200)	(17-200)	(33-200)	(10-179)	(17-185)	(16-200)	(42-165)	(31-182)
620-10573-1	2023-MW-03	140	142	154	77	85	143	122	123
620-10573-1 - RA	2023-MW-03	129	149	157	73	118	151	121	108
620-10573-2	2023-MW-04	122	144	165	75	119	157	124	106
620-10573-2 MS	2023-MW-04	118	143	159	113	91	155	121	100
620-10573-2 MSD	2023-MW-04	126	137	163	122	91	155	124	112
620-10573-3	2023-MW-06	126	138	159	121	102	135	67	119
620-10573-4	2023-MW-05	123	159	154	54	94	159	115	107
620-10573-4 - RE	2023-MW-05	131	168	174	72	99	197	129	107
620-10573-5	2023-FD-01	135	146	145	97	99	154	121	112
620-10573-5 - RE	2023-FD-01	170	175	195	98	152	184	140	125
LCS 410-366531/2-A	Lab Control Sample	125	133	142	118	110	118	100	117
LCS 410-374042/3-A	Lab Control Sample	155	162	168	115	125	140	110	125
LCSD 410-374042/4-A	Lab Control Sample Dup	147	168	162	113	135	137	122	126
MB 410-366531/1-A	Method Blank	113	118	132	101	94	102	96	110
MB 410-374042/1-A	Method Blank	145	160	165	111	107	129	97	124

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA	C8PFOA	C8PFOS	d3NMFOS	d5NEFOS	NMFM	NEFM	C3PFHS
Lab Sample ID	Client Sample ID	(38-187)	(48-162)	(51-159)	(31-174)	(29-195)	(10-178)	(10-177)	(28-188)
620-10573-1	2023-MW-03	127	118	117	112	110	59	52	122
620-10573-1 - RA	2023-MW-03	133	108	115	113	114	56	52	119
620-10573-2	2023-MW-04	133	107	116	119	130	75	66	122
620-10573-2 MS	2023-MW-04	128	101	115	116	124	87	82	117
620-10573-2 MSD	2023-MW-04	126	113	120	119	125	87	78	126
620-10573-3	2023-MW-06	125	116	119	114	118	87	79	123
620-10573-4	2023-MW-05	132	111	110	94	93	32	29	124
620-10573-4 - RE	2023-MW-05	167	109	115	105	102	12	13	126
620-10573-5	2023-FD-01	128	111	116	112	109	13	10	127
620-10573-5 - RE	2023-FD-01	157	128	138	128	133	38	35	144
LCS 410-366531/2-A	Lab Control Sample	113	116	113	113	115	87	85	120
LCS 410-374042/3-A	Lab Control Sample	132	127	134	127	125	91	88	134
LCSD 410-374042/4-A	Lab Control Sample Dup	131	125	130	124	120	90	84	132
MB 410-366531/1-A	Method Blank	103	105	102	95	99	81	80	106
MB 410-374042/1-A	Method Blank	124	118	126	120	118	86	81	128

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C5PHA	C6PFDA	13C7PUA	d3NMFSA	d5NPFSA	PFOSA	PFDoDA	C9PFNA
Lab Sample ID	Client Sample ID	(24-179)	(49-163)	(34-174)	(10-155)	(10-159)	(10-168)	(17-176)	(51-167)
620-10573-1	2023-MW-03	114	118	114	12	10	98	95	113
620-10573-1 - RA	2023-MW-03	104	116	116	10	8 *5-	100	95	115
620-10573-2	2023-MW-04	98	121	124	15	12	104	120	119
620-10573-2 MS	2023-MW-04	97	116	120	25	20	110	118	117
620-10573-2 MSD	2023-MW-04	106	119	124	24	19	115	124	119
620-10573-3	2023-MW-06	116	116	121	37	32	110	120	115
620-10573-4	2023-MW-05	98	106	107	5 *5-	4 *5-	74	90	105
620-10573-4 - RE	2023-MW-05	99	117	119	0.2 *5-	0.2 *5-	36	102	120
620-10573-5	2023-FD-01	104	113	111	0.2 *5-	0.4 *5-	56	100	113
620-10573-5 - RE	2023-FD-01	123	140	135	0.4 *5-	0.4 *5-	96	125	139
LCS 410-366531/2-A	Lab Control Sample	118	114	117	54	49	116	117	108
LCS 410-374042/3-A	Lab Control Sample	137	122	128	77	72	127	116	133
LCSD 410-374042/4-A	Lab Control Sample Dup	129	128	125	70	65	122	119	130

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C5PHA (24-179)	C6PFDA (49-163)	13C7PUA (34-174)	d3NMFSA (10-155)	d5NPFSA (10-159)	PFOSA (10-168)	PFDoDA (17-176)	C9PFNA (51-167)
MB 410-366531/1-A	Method Blank	109	100	102	56	52	99	106	98
MB 410-374042/1-A	Method Blank	124	124	124	69	64	120	114	127

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		04/20/23 10:11	05/04/23 21:46	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		04/20/23 10:11	05/04/23 21:46	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
DONA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
HFPODA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSAA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSAA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSA	ND		2.00	0.700	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-8:2 FTS	*132*		*33 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 PFBS	*102*		*16 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFBA	*96*		*42 - 165*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFHpA	*110*		*31 - 182*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C5 PFPeA	*103*		*38 - 187*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C8 PFOA	*105*		*48 - 162*	*04/20/23 10:11*	*05/04/23 21:46*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		51 - 159	04/20/23 10:11	05/04/23 21:46	1
d3-NMeFOSAA	95		31 - 174	04/20/23 10:11	05/04/23 21:46	1
d5-NEtFOSAA	99		29 - 195	04/20/23 10:11	05/04/23 21:46	1
d7-N-MeFOSE-M	81		10 - 178	04/20/23 10:11	05/04/23 21:46	1
d9-N-EtFOSE-M	80		10 - 177	04/20/23 10:11	05/04/23 21:46	1
13C3 PFHxS	106		28 - 188	04/20/23 10:11	05/04/23 21:46	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/04/23 21:46	1
13C6 PFDA	100		49 - 163	04/20/23 10:11	05/04/23 21:46	1
13C7 PFUnA	102		34 - 174	04/20/23 10:11	05/04/23 21:46	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/04/23 21:46	1
d5-NEtPFOSA	52		10 - 159	04/20/23 10:11	05/04/23 21:46	1
13C8 FOSA	99		10 - 168	04/20/23 10:11	05/04/23 21:46	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/04/23 21:46	1
13C9 PFNA	98		51 - 167	04/20/23 10:11	05/04/23 21:46	1

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	25.64		ng/L		104	50 - 146
11Cl-PF3OUdS	23.8	22.26		ng/L		94	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	23.85		ng/L		100	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	23.74		ng/L		98	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.72		ng/L		93	55 - 138
9Cl-PF3ONS	23.8	21.21		ng/L		89	59 - 135
DONA	24.2	23.71		ng/L		98	55 - 143
HFPODA	25.6	24.19		ng/L		94	50 - 135
NEtFOSAA	25.6	24.04		ng/L		94	55 - 134
NEtFOSA	25.6	27.04		ng/L		106	61 - 134
NEtFOSE	25.6	25.95		ng/L		101	60 - 136
NMeFOSAA	25.6	25.46		ng/L		99	59 - 140
NMeFOSA	25.6	27.19		ng/L		106	64 - 143
NMeFOSE	25.6	26.14		ng/L		102	55 - 144
Perfluorobutanesulfonic acid	22.7	21.97		ng/L		97	53 - 138
Perfluorobutanoic acid	25.6	25.47		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	24.7	23.63		ng/L		96	55 - 137
Perfluorodecanoic acid	25.6	25.78		ng/L		101	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.45		ng/L		95	48 - 138
Perfluorododecanoic acid	25.6	24.96		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	24.4	25.00		ng/L		103	56 - 140
Perfluoroheptanoic acid	25.6	25.36		ng/L		99	59 - 145
Perfluorohexadecanoic acid	25.6	21.75		ng/L		85	41 - 158
Perfluorohexanesulfonic acid	23.3	22.33		ng/L		96	58 - 134
Perfluorohexanoic acid	25.6	22.43		ng/L		88	58 - 139
Perfluorononanesulfonic acid	24.6	23.55		ng/L		96	59 - 136
Perfluorononanoic acid	25.6	25.14		ng/L		98	61 - 139
Perfluorooctadecanoic acid	25.6	20.85		ng/L		81	29 - 172

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	25.6	24.56		ng/L		96	43 - 167
Perfluorooctanesulfonic acid	23.7	21.94		ng/L		93	45 - 150
Perfluorooctanoic acid	25.6	24.80		ng/L		97	51 - 145
Perfluoropentanesulfonic acid	24.0	24.25		ng/L		101	55 - 140
Perfluoropentanoic acid	25.6	24.96		ng/L		97	57 - 141
Perfluorotetradecanoic acid	25.6	24.34		ng/L		95	62 - 139
Perfluorotridecanoic acid	25.6	25.74		ng/L		101	58 - 146
Perfluoroundecanoic acid	25.6	26.31		ng/L		103	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*125*		*10 - 200*
M2-6:2 FTS	*133*		*17 - 200*
M2-8:2 FTS	*142*		*33 - 200*
13C2 PFTeDA	*118*		*10 - 179*
13C3 HFPO-DA	*110*		*17 - 185*
13C3 PFBS	*118*		*16 - 200*
13C4 PFBA	*100*		*42 - 165*
13C4 PFHpA	*117*		*31 - 182*
13C5 PFPeA	*113*		*38 - 187*
13C8 PFOA	*116*		*48 - 162*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*113*		*31 - 174*
d5-NEtFOSAA	*115*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*85*		*10 - 177*
13C3 PFHxS	*120*		*28 - 188*
13C5 PFHxA	*118*		*24 - 179*
13C6 PFDA	*114*		*49 - 163*
13C7 PFUnA	*117*		*34 - 174*
d3-NMePFOSA	*54*		*10 - 155*
d5-NEtPFOSA	*49*		*10 - 159*
13C8 FOSA	*116*		*10 - 168*
13C2-PFDoDA	*117*		*17 - 176*
13C9 PFNA	*108*		*51 - 167*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	ND		22.9	19.99		ng/L		87	50 - 146
11Cl-PF3OUdS	ND		22.1	23.15		ng/L		105	53 - 139
4:2 Fluorotelomer sulfonic acid	ND		22.2	20.99		ng/L		94	55 - 139
6:2 Fluorotelomer sulfonic acid	ND		22.5	20.92		ng/L		93	28 - 173
8:2 Fluorotelomer sulfonic acid	ND		22.8	20.99		ng/L		92	55 - 138
9Cl-PF3ONS	ND		22.1	22.83		ng/L		103	59 - 135
DONA	ND		22.5	25.80		ng/L		115	55 - 143
HFPODA	ND		23.8	30.91		ng/L		130	50 - 135
NEtFOSAA	ND		23.8	22.92		ng/L		96	55 - 134

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSA	ND		23.8	25.76		ng/L		108	61 - 134
NEtFOSE	ND		23.8	24.30		ng/L		102	60 - 136
NMeFOSAA	ND		23.8	22.63		ng/L		95	59 - 140
NMeFOSA	ND		23.8	25.70		ng/L		108	64 - 143
NMeFOSE	ND		23.8	23.77		ng/L		100	55 - 144
Perfluorobutanesulfonic acid	0.318	J	21.0	19.22		ng/L		90	53 - 138
Perfluorobutanoic acid	1.19	J	23.8	24.80		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	ND		22.9	23.65		ng/L		103	55 - 137
Perfluorodecanoic acid	ND		23.8	25.88		ng/L		109	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	ND		23.0	22.57		ng/L		98	48 - 138
Perfluorododecanoic acid	ND		23.8	23.21		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	ND		22.6	23.47		ng/L		104	56 - 140
Perfluoroheptanoic acid	1.45	J	23.8	24.35		ng/L		96	59 - 145
Perfluorohexadecanoic acid	ND		23.8	18.35		ng/L		77	41 - 158
Perfluorohexanesulfonic acid	0.635	J	21.7	22.21		ng/L		99	58 - 134
Perfluorohexanoic acid	0.610	J	23.8	25.68		ng/L		105	58 - 139
Perfluorononanesulfonic acid	ND		22.8	23.31		ng/L		102	59 - 136
Perfluorononanoic acid	0.565	J	23.8	23.60		ng/L		97	61 - 139
Perfluorooctadecanoic acid	ND	F1	23.8	6.748	F1	ng/L		28	29 - 172
Perfluorooctanesulfonamide	ND		23.8	23.59		ng/L		99	43 - 167
Perfluorooctanesulfonic acid	16.8		22.0	40.53		ng/L		108	45 - 150
Perfluorooctanoic acid	10.5		23.8	39.29		ng/L		121	51 - 145
Perfluoropentanesulfonic acid	ND		22.3	23.24		ng/L		104	55 - 140
Perfluoropentanoic acid	ND		23.8	22.76		ng/L		96	57 - 141
Perfluorotetradecanoic acid	ND		23.8	23.22		ng/L		98	62 - 139
Perfluorotridecanoic acid	ND		23.8	23.15		ng/L		97	58 - 146
Perfluoroundecanoic acid	ND		23.8	24.78		ng/L		104	60 - 141

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*118*		*10 - 200*
M2-6:2 FTS	*143*		*17 - 200*
M2-8:2 FTS	*159*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*91*		*17 - 185*
13C3 PFBS	*155*		*16 - 200*
13C4 PFBA	*121*		*42 - 165*
13C4 PFHpA	*100*		*31 - 182*
13C5 PFPeA	*128*		*38 - 187*
13C8 PFOA	*101*		*48 - 162*
13C8 PFOS	*115*		*51 - 159*
d3-NMeFOSAA	*116*		*31 - 174*
d5-NEtFOSAA	*124*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*82*		*10 - 177*
13C3 PFHxS	*117*		*28 - 188*
13C5 PFHxA	*97*		*24 - 179*
13C6 PFDA	*116*		*49 - 163*
13C7 PFUnA	*120*		*34 - 174*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d3-NMePFOSA	25		10 - 155
d5-NEtPFOSA	20		10 - 159
13C8 FOSA	110		10 - 168
13C2-PFDoDA	118		17 - 176
13C9 PFNA	117		51 - 167

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 372358

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS	ND		24.2	23.84		ng/L		99	50 - 146	0	30
11Cl-PF3OUdS	ND		23.3	23.56		ng/L		101	53 - 139	9	30
4:2 Fluorotelomer sulfonic acid	ND		23.4	22.14		ng/L		94	55 - 139	2	30
6:2 Fluorotelomer sulfonic acid	ND		23.8	23.21		ng/L		98	28 - 173	1	30
8:2 Fluorotelomer sulfonic acid	ND		24.0	21.72		ng/L		90	55 - 138	1	30
9Cl-PF3ONS	ND		23.3	22.10		ng/L		95	59 - 135	9	30
DONA	ND		23.7	25.02		ng/L		106	55 - 143	3	30
HFPODA	ND		25.1	30.49		ng/L		122	50 - 135	14	30
NEtFOSAA	ND		25.1	23.02		ng/L		92	55 - 134	3	30
NEtFOSA	ND		25.1	27.09		ng/L		108	61 - 134	10	30
NEtFOSE	ND		25.1	25.26		ng/L		101	60 - 136	2	30
NMeFOSAA	ND		25.1	25.52		ng/L		102	59 - 140	7	30
NMeFOSA	ND		25.1	24.76		ng/L		99	64 - 143	8	30
NMeFOSE	ND		25.1	23.80		ng/L		95	55 - 144	5	30
Perfluorobutanesulfonic acid	ND		22.2	24.33		ng/L		110	53 - 138	0	30
Perfluorobutanoic acid	1.16	J	25.1	25.66		ng/L		98	59 - 136	4	30
Perfluorodecanesulfonic acid	ND		24.2	24.29		ng/L		100	55 - 137	9	30
Perfluorodecanoic acid	ND		25.1	26.17		ng/L		104	56 - 138	8	30
Perfluorododecanesulfonic acid (PFDoS)	ND		24.3	23.48		ng/L		97	48 - 138	7	30
Perfluorododecanoic acid	ND		25.1	25.48		ng/L		102	59 - 143	6	30
Perfluoroheptanesulfonic acid	ND		23.9	23.88		ng/L		100	56 - 140	8	30
Perfluoroheptanoic acid	2.32		25.1	27.12		ng/L		99	59 - 145	4	30
Perfluorohexadecanoic acid	ND		25.1	17.55		ng/L		70	41 - 158	9	30
Perfluorohexanesulfonic acid	0.880	J	22.9	22.98		ng/L		97	58 - 134	3	30
Perfluorohexanoic acid	0.632	J	25.1	24.88		ng/L		97	58 - 139	6	30
Perfluorononanesulfonic acid	ND		24.1	23.89		ng/L		99	59 - 136	9	30
Perfluorononanoic acid	0.531	J	25.1	25.09		ng/L		98	61 - 139	2	30
Perfluorooctadecanoic acid	ND		25.1	3.974		ng/L		16	29 - 172	89	30
Perfluorooctanesulfonamide	ND		25.1	25.25		ng/L		101	43 - 167	7	30
Perfluorooctanesulfonic acid	16.1		23.2	39.18		ng/L		99	45 - 150	2	30
Perfluorooctanoic acid	9.78		25.1	35.78		ng/L		104	51 - 145	8	30
Perfluoropentanesulfonic acid	ND		23.5	24.26		ng/L		103	55 - 140	6	30
Perfluoropentanoic acid	0.655	J	25.1	24.75		ng/L		96	57 - 141	6	30
Perfluorotetradecanoic acid	ND		25.1	23.85		ng/L		95	62 - 139	6	30
Perfluorotridecanoic acid	ND		25.1	24.36		ng/L		97	58 - 146	0	30
Perfluoroundecanoic acid	ND		25.1	26.40		ng/L		105	60 - 141	9	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	126		10 - 200
M2-6:2 FTS	137		17 - 200
M2-8:2 FTS	163		33 - 200
13C2 PFTeDA	122		10 - 179
13C3 HFPO-DA	91		17 - 185
13C3 PFBS	155		16 - 200
13C4 PFBA	124		42 - 165
13C4 PFHpA	112		31 - 182
13C5 PFPeA	126		38 - 187
13C8 PFOA	113		48 - 162
13C8 PFOS	120		51 - 159
d3-NMeFOSAA	119		31 - 174
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	87		10 - 178
d9-N-EtFOSE-M	78		10 - 177
13C3 PFHxS	126		28 - 188
13C5 PFHxA	106		24 - 179
13C6 PFDA	119		49 - 163
13C7 PFUnA	124		34 - 174
d3-NMePFOSA	24		10 - 155
d5-NEtPFOSA	19		10 - 159
13C8 FOSA	115		10 - 168
13C2-PFDoDA	124		17 - 176
13C9 PFNA	119		51 - 167

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		05/10/23 08:01	05/12/23 05:51	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		05/10/23 08:01	05/12/23 05:51	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
DONA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
HFPODA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSAA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSAA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSA	ND		2.00	0.700	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-6:2 FTS	*160*		*17 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2 PFTeDA	*111*		*10 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 HFPO-DA	*107*		*17 - 185*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFBS	*129*		*16 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFBA	*97*		*42 - 165*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFHpA	*124*		*31 - 182*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFPeA	*124*		*38 - 187*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOA	*118*		*48 - 162*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOS	*126*		*51 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMeFOSAA	*120*		*31 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtFOSAA	*118*		*29 - 195*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d7-N-MeFOSE-M	*86*		*10 - 178*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d9-N-EtFOSE-M	*81*		*10 - 177*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFHxS	*128*		*28 - 188*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFHxA	*124*		*24 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C6 PFDA	*124*		*49 - 163*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C7 PFUnA	*124*		*34 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMePFOSA	*69*		*10 - 155*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtPFOSA	*64*		*10 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 FOSA	*120*		*10 - 168*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2-PFDoDA	*114*		*17 - 176*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C9 PFNA	*127*		*51 - 167*	*05/10/23 08:01*	*05/12/23 05:51*	*1*

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	13.75		ng/L		56	50 - 146
11Cl-PF3OUdS	23.8	15.47		ng/L		65	53 - 139

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4:2 Fluorotelomer sulfonic acid	23.9	16.51		ng/L		69	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	17.47		ng/L		72	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	15.33		ng/L		63	55 - 138
9Cl-PF3ONS	23.8	16.13		ng/L		68	59 - 135
DONA	24.2	17.83		ng/L		74	55 - 143
HFPODA	25.6	19.60		ng/L		77	50 - 135
NEtFOSAA	25.6	17.15		ng/L		67	55 - 134
NEtFOSA	25.6	19.74		ng/L		77	61 - 134
NEtFOSE	25.6	17.97		ng/L		70	60 - 136
NMeFOSAA	25.6	16.82		ng/L		66	59 - 140
NMeFOSA	25.6	19.43		ng/L		76	64 - 143
NMeFOSE	25.6	18.67		ng/L		73	55 - 144
Perfluorobutanesulfonic acid	22.7	15.70		ng/L		69	53 - 138
Perfluorobutanoic acid	25.6	17.75		ng/L		69	59 - 136
Perfluorodecanesulfonic acid	24.7	16.51		ng/L		67	55 - 137
Perfluorodecanoic acid	25.6	20.02		ng/L		78	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	15.27		ng/L		62	48 - 138
Perfluorododecanoic acid	25.6	18.89		ng/L		74	59 - 143
Perfluoroheptanesulfonic acid	24.4	16.66		ng/L		68	56 - 140
Perfluoroheptanoic acid	25.6	18.98		ng/L		74	59 - 145
Perfluorohexadecanoic acid	25.6	16.57		ng/L		65	41 - 158
Perfluorohexanesulfonic acid	23.3	15.83		ng/L		68	58 - 134
Perfluorohexanoic acid	25.6	16.32		ng/L		64	58 - 139
Perfluorononanesulfonic acid	24.6	15.85		ng/L		64	59 - 136
Perfluorononanoic acid	25.6	18.41		ng/L		72	61 - 139
Perfluorooctadecanoic acid	25.6	16.51		ng/L		65	29 - 172
Perfluorooctanesulfonamide	25.6	16.86		ng/L		66	43 - 167
Perfluorooctanesulfonic acid	23.7	16.19		ng/L		68	45 - 150
Perfluorooctanoic acid	25.6	20.10		ng/L		79	51 - 145
Perfluoropentanesulfonic acid	24.0	16.12		ng/L		67	55 - 140
Perfluoropentanoic acid	25.6	17.11		ng/L		67	57 - 141
Perfluorotetradecanoic acid	25.6	17.88		ng/L		70	62 - 139
Perfluorotridecanoic acid	25.6	18.58		ng/L		73	58 - 146
Perfluoroundecanoic acid	25.6	18.81		ng/L		73	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*155*		*10 - 200*
M2-6:2 FTS	*162*		*17 - 200*
M2-8:2 FTS	*168*		*33 - 200*
13C2 PFTeDA	*115*		*10 - 179*
13C3 HFPO-DA	*125*		*17 - 185*
13C3 PFBS	*140*		*16 - 200*
13C4 PFBA	*110*		*42 - 165*
13C4 PFHpA	*125*		*31 - 182*
13C5 PFPeA	*132*		*38 - 187*
13C8 PFOA	*127*		*48 - 162*
13C8 PFOS	*134*		*51 - 159*
d3-NMeFOSAA	*127*		*31 - 174*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	91		10 - 178
d9-N-EtFOSE-M	88		10 - 177
13C3 PFHxS	134		28 - 188
13C5 PFHxA	137		24 - 179
13C6 PFDA	122		49 - 163
13C7 PFUnA	128		34 - 174
d3-NMePFOSA	77		10 - 155
d5-NEtPFOSA	72		10 - 159
13C8 FOSA	127		10 - 168
13C2-PFDoDA	116		17 - 176
13C9 PFNA	133		51 - 167

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS			24.7	14.31		ng/L		58	50 - 146	4	30
11Cl-PF3OUdS			23.8	16.60		ng/L		70	53 - 139	7	30
4:2 Fluorotelomer sulfonic acid			23.9	17.25		ng/L		72	55 - 139	4	30
6:2 Fluorotelomer sulfonic acid			24.3	16.77		ng/L		69	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	16.32		ng/L		67	55 - 138	6	30
9Cl-PF3ONS			23.8	16.72		ng/L		70	59 - 135	4	30
DONA			24.2	17.69		ng/L		73	55 - 143	1	30
HFPODA			25.6	18.61		ng/L		73	50 - 135	5	30
NEtFOSAA			25.6	18.00		ng/L		70	55 - 134	5	30
NEtFOSA			25.6	20.65		ng/L		81	61 - 134	5	30
NEtFOSE			25.6	18.85		ng/L		74	60 - 136	5	30
NMeFOSAA			25.6	18.46		ng/L		72	59 - 140	9	30
NMeFOSA			25.6	18.92		ng/L		74	64 - 143	3	30
NMeFOSE			25.6	17.97		ng/L		70	55 - 144	4	30
Perfluorobutanesulfonic acid			22.7	16.38		ng/L		72	53 - 138	4	30
Perfluorobutanoic acid			25.6	17.78		ng/L		69	59 - 136	0	30
Perfluorodecanesulfonic acid			24.7	16.60		ng/L		67	55 - 137	1	30
Perfluorodecanoic acid			25.6	19.60		ng/L		77	56 - 138	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	15.85		ng/L		64	48 - 138	4	30
Perfluorododecanoic acid			25.6	19.20		ng/L		75	59 - 143	2	30
Perfluoroheptanesulfonic acid			24.4	17.09		ng/L		70	56 - 140	3	30
Perfluoroheptanoic acid			25.6	18.70		ng/L		73	59 - 145	1	30
Perfluorohexadecanoic acid			25.6	17.37		ng/L		68	41 - 158	5	30
Perfluorohexanesulfonic acid			23.3	16.34		ng/L		70	58 - 134	3	30
Perfluorohexanoic acid			25.6	17.67		ng/L		69	58 - 139	8	30
Perfluorononanesulfonic acid			24.6	17.23		ng/L		70	59 - 136	8	30
Perfluorononanoic acid			25.6	18.69		ng/L		73	61 - 139	2	30
Perfluorooctadecanoic acid			25.6	17.90		ng/L		70	29 - 172	8	30
Perfluorooctanesulfonamide			25.6	17.99		ng/L		70	43 - 167	7	30
Perfluorooctanesulfonic acid			23.7	16.90		ng/L		71	45 - 150	4	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.6	18.79		ng/L		73	51 - 145	7	30
Perfluoropentanesulfonic acid			24.0	17.33		ng/L		72	55 - 140	7	30
Perfluoropentanoic acid			25.6	17.91		ng/L		70	57 - 141	5	30
Perfluorotetradecanoic acid			25.6	18.16		ng/L		71	62 - 139	2	30
Perfluorotridecanoic acid			25.6	17.88		ng/L		70	58 - 146	4	30
Perfluoroundecanoic acid			25.6	19.38		ng/L		76	60 - 141	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*147*		*10 - 200*
M2-6:2 FTS	*168*		*17 - 200*
M2-8:2 FTS	*162*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*135*		*17 - 185*
13C3 PFBS	*137*		*16 - 200*
13C4 PFBA	*122*		*42 - 165*
13C4 PFHpA	*126*		*31 - 182*
13C5 PFPeA	*131*		*38 - 187*
13C8 PFOA	*125*		*48 - 162*
13C8 PFOS	*130*		*51 - 159*
d3-NMeFOSAA	*124*		*31 - 174*
d5-NEtFOSAA	*120*		*29 - 195*
d7-N-MeFOSE-M	*90*		*10 - 178*
d9-N-EtFOSE-M	*84*		*10 - 177*
13C3 PFHxS	*132*		*28 - 188*
13C5 PFHxA	*129*		*24 - 179*
13C6 PFDA	*128*		*49 - 163*
13C7 PFUnA	*125*		*34 - 174*
d3-NMePFOSA	*70*		*10 - 155*
d5-NEtPFOSA	*65*		*10 - 159*
13C8 FOSA	*122*		*10 - 168*
13C2-PFDoDA	*119*		*17 - 176*
13C9 PFNA	*130*		*51 - 167*

LCMS

Prep Batch: 366531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	SPE	
620-10573-1 - RA	2023-MW-03	Total/NA	Water	SPE	
620-10573-2	2023-MW-04	Total/NA	Water	SPE	
620-10573-3	2023-MW-06	Total/NA	Water	SPE	
620-10573-4	2023-MW-05	Total/NA	Water	SPE	
620-10573-5	2023-FD-01	Total/NA	Water	SPE	
MB 410-366531/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	SPE	
620-10573-2 MS	2023-MW-04	Total/NA	Water	SPE	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	SPE	

Analysis Batch: 372358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	537 IDA	366531
620-10573-3	2023-MW-06	Total/NA	Water	537 IDA	366531
620-10573-4	2023-MW-05	Total/NA	Water	537 IDA	366531
620-10573-5	2023-FD-01	Total/NA	Water	537 IDA	366531
MB 410-366531/1-A	Method Blank	Total/NA	Water	537 IDA	366531
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	537 IDA	366531
620-10573-2 MSD	2023-MW-04	Total/NA	Water	537 IDA	366531

Analysis Batch: 373753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1 - RA	2023-MW-03	Total/NA	Water	537 IDA	366531
620-10573-2	2023-MW-04	Total/NA	Water	537 IDA	366531
620-10573-2 MS	2023-MW-04	Total/NA	Water	537 IDA	366531

Prep Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-4 - RE	2023-MW-05	Total/NA	Water	SPE	
620-10573-5 - RE	2023-FD-01	Total/NA	Water	SPE	
MB 410-374042/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Analysis Batch: 374796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-4 - RE	2023-MW-05	Total/NA	Water	537 IDA	374042
620-10573-5 - RE	2023-FD-01	Total/NA	Water	537 IDA	374042
MB 410-374042/1-A	Method Blank	Total/NA	Water	537 IDA	374042
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	537 IDA	374042
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	374042

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Date Collected: 03/30/23 11:25 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/04/23 23:15
Total/NA	Prep	SPE	RA		366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA	RA	1	373753	UUV6	ELLE	05/09/23 18:08

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 18:20

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Date Collected: 03/30/23 12:10 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:10

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:21
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:35

Client Sample ID: 2023-FD-01 — Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:32
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:46

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
SPE	PFAS by SPE	Lab SOP	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10573-1	2023-MW-03	Water	03/30/23 11:25	03/31/23 15:05
620-10573-2	2023-MW-04	Water	03/30/23 14:20	03/31/23 15:05
620-10573-3	2023-MW-06	Water	03/30/23 12:10	03/31/23 15:05
620-10573-4	2023-MW-05	Water	03/30/23 15:05	03/31/23 15:05
620-10573-5	2023-FD-01	Water	03/30/23 08:00	03/31/23 15:05

10573

620-10573 Chain of Custody

Chain of Custody Record

Boston #215

eurofins | Environment Testing

Sampler: L Mato. S Stone	Lab PM:	Carrier Tracking No(s).	COC No: 620-9105-1141 1
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 3
Company: Nobis Engineering Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested			
City: Lowell	TAT Requested (days): STD			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone:	PO #: S00001.002			
Email: bfortier@nobis-group.com ldmcgrath@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs SW846 8260	SVOCs SW846 8270	VPH SW846 8082	PCBs 8082	Metals 6020/7471A	PFAS EPA method 537.1	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X							X	
01	2023-MW-03	3/30/23	1125	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-04	↓	1420	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-06	↓	1210	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-05	↓	1505	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-FD-01	↓	800	↓	Water			✓	✓	✓	✓	✓	✓		
06	Trip Blank 2023-TB-01	↓	700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I II, III, IV, Other (specify)

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com 2023-MW-04 is MS/MSD EQuis EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
L Mato	3/30/23 724		Basement Fridge	3/30/23 724	
[signature]	3/30/23 3:07		[signature]	3/31/23 1505	EtA
[signature]	4/3/23 1314	EtA	[signature]	4/3/23 1314	EWG

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2 G W 2 2.8 HG

Ver: 06/08/2021

5/15/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-2

Login Number: 10573
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-2

Login Number: 10573
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 3/23/2023 11:32:46 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10117-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

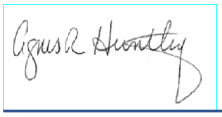
See page two for job notes and contact information.

Eurofins New England

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10117-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10117-1 through 620-10117-46

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/23/2023

Job ID: 620-10117-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10117-1

Receipt
The samples were received on 3/3/2023 4:09 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
Method 8260C: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 620-20198 and 620-20327 and analytical batch 620-20328 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 620-20198 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: tert-Butanol. (CCVIS 620-20361/3)

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20396 exhibited % difference of > 20% for the following analytes: Tert-butyl ethyl ether, Isopropyl ether, 2-Methyl-2-propanol, Naphthalene, Tetrahydrofuran, Hexachlorobutadiene, 1,2,3-Trichlorobenzene, Tert-amyl methyl ether, 1,2,4-Trichlorobenzene, o-Xylene, cis-1,3-Dichloropropene, Methyl tert-butyl ether, 1,1-Dichloropropene, 4-Isopropyltoluene, and 1,2-Dibromo-3-Chloropropane; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20408 and analytical batch 620-20396 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20432 and analytical batch 620-20433 recovered outside control limits for the following analyte: Bromomethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20433 exhibited % difference of > 20% for the following analytes: tert-Butanol, Tert-butyl ethyl ether, and Naphthalene; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: Internal standard (ISTD) response for the following samples were outside control limits: 2023-SB-08-0810' (620-10117-11), 2023-SB-08-1012' (620-10117-12), 2023-SB-07-0406' (620-10117-21) and 2023-MW-05-0406' (620-10117-30). The samples were re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following samples: 2023-SB-08-0810' (620-10117-11), 2023-SB-08-1012' (620-10117-12) and 2023-SB-07-0406' (620-10117-21). The samples show evidence of matrix interference.

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: 2023-MW-05-0406' (620-10117-30). The sample shows evidence of matrix interference.

Method 8260C: Surrogate recovery for the following sample was outside the upper control limit: 2023-SB-08-1012' (620-10117-12). This

Job ID: 620-10117-1 (Continued)

Laboratory: Eurofins New England (Continued)

sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: Surrogate recovery for the following samples were outside the upper control limit: 2023-SB-08-1012' (620-10117-12) and 2023-SB-07-0406' (620-10117-21). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: 1,1,2-Trichloroethane.
(CCVIS 620-20473/3)

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-20472 and analytical batch 620-20473 recovered outside control limits for the following analytes: Chloroethane and Bromomethane, which has been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2023-SB-05-0002' (620-10117-41). The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20275 and 620-20472 and analytical batch 620-20473 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: 2023-SB-05-0002' (620-10117-41). The sample shows evidence of matrix interference.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 620-20518 recovered outside control limits but were greater than 10% for the following analytes: 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, and Dichlorodifluoromethane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The associated samples are: (LCS 620-20516/1-A) and (LCSD 620-20516/2-A).

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: Tert-butyl ethyl ether, Isopropyl ether, Methyl tert-butyl ether, 2-Methyl-2-propanol, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, and 1,4-Dichlorobenzene.
(CCVIS 620-20518/3)

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2023-SB-12-1012' (620-10117-18). The samples were re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following samples: 2023-SB-12-1012' (620-10117-18), 2023-SB-12-1012' (620-10117-18[MS]) and 2023-SB-12-1012' (620-10117-18[MSD]). The samples show evidence of matrix interference.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20275 and 620-20472 and analytical batch 620-20473 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20503/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long

Job ID: 620-10117-1 (Continued)

Laboratory: Eurofins New England (Continued)

as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 4,6-Dinitro-2-methylphenol, Benzidine, Benzoic acid and Pentachloronitrobenzene.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 2023-MW-06-0810' (620-10117-5). These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20475 and analytical batch 620-20495 were outside control limits, bias low for: Benzidine & Hexachlorocyclopentadiene. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The laboratory control sample duplicate(LCSD) for preparation batch 620-20475 and analytical batch 620-20495 recovered outside control limits for the following analyte: Benzoic acid. Benzoic acid has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The analyte recovered within acceptance limits in the LCS. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20546 and analytical batch 620-20556 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20556/7) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 4,6-Dinitro-2-methylphenol, Benzoic acid and Di-n-butyl phthalate.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 620-20556 was outside the method criteria for the following analyte: Benzoic Acid. This analyte recovered below acceptance criteria due to breakdown in the standard, however it recovered within range in the LCS and LCSD; therefore, demonstrating the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the problematic compound Benzidine in preparation batch 620-20520 and analytical batch 620-20556 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20590 recovered above the upper control limit for Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 620-20590/3).

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20626 recovered above the upper control limit for Aniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 620-20626/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-660655 and analytical batch 480-660658 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The method blank for preparation batch 480-660799 and analytical batch 480-660808 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The method blank for preparation batch 480-660942 and analytical batch 480-660951 contained Naphthalene above the

Job ID: 620-10117-1 (Continued)

Laboratory: Eurofins New England (Continued)

method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Methods 8082, 8082A: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following CCVs were outside acceptance limits (high biased) on the primary column: (CCV 620-20438/60). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

Method 8082: The matrix spike duplicate (MSD) precision for preparation batch 620-20414 and analytical batch 620-20434 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8082: The following samples required a dilution due to the nature of the sample matrix: 2023-SB-07-0406' (620-10117-21), 2023-FD-06 (620-10117-31), 2023-SB-06-0002' (620-10117-33) and 2023-SB-06-0204' (620-10117-34). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: 2023-SB-12-0002' (620-10117-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: 2023-MW-05-0002' (620-10117-25). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-SB-08-0204' (620-10117-8) and 2023-SB-06-1012' (620-10117-38). Elevated reporting limits (RLs) are provided.

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-06-0002' (620-10117-1), 2023-MW-06-0204' (620-10117-2), 2023-MW-06-0406' (620-10117-3), 2023-MW-06-0608' (620-10117-4), 2023-MW-06-0810' (620-10117-5), 2023-SB-08-0002' (620-10117-7), 2023-SB-08-0608' (620-10117-10), 2023-SB-08-0810' (620-10117-11), 2023-SB-12-0002' (620-10117-13), 2023-SB-12-0204' (620-10117-14), 2023-SB-12-0810' (620-10117-17), 2023-SB-12-1012' (620-10117-18), 2023-SB-07-0002' (620-10117-19), 2023-SB-07-0204' (620-10117-20), 2023-SB-07-0608' (620-10117-22), 2023-SB-07-0810' (620-10117-23), 2023-MW-05-0002' (620-10117-25), 2023-MW-05-0204' (620-10117-26), 2023-MW-05-0608' (620-10117-27), 2023-MW-05-0810' (620-10117-28), 2023-MW-05-0406' (620-10117-30), 2023-FD-06 (620-10117-31), 2023-FD-07 (620-10117-32), 2023-SB-06-0204' (620-10117-34), 2023-SB-06-0406' (620-10117-35), 2023-SB-06-0608' (620-10117-36), 2023-SB-06-0810' (620-10117-37), 2023-SB-05-0406' (620-10117-43), 2023-SB-05-0608' (620-10117-44), 2023-SB-05-0810' (620-10117-45) and 2023-SB-05-1012' (620-10117-46). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method 537 (modified): The recovery for the labeled isotope: M2-8:2 FTS in the following sample: 2023-SB-05-0002' (620-10117-41) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0002' — Lab Sample ID: 620-10117-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.0798	J	0.182	0.0463	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0459	J B	0.0646	0.0439	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.253		0.0218	0.0170	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.07	J	3.25	1.52	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.542	0.163	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.256	J	0.542	0.108	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.63		1.63	0.379	mg/Kg	1	☼	6010D	Total/NA
Lead	2.64		1.63	0.650	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.76		1.08	0.282	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.04		1.08	0.466	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.90		2.17	0.867	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0204' — Lab Sample ID: 620-10117-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.35		3.07	1.43	mg/Kg	1	☼	6010D	Total/NA
Barium	12.3		0.512	0.154	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.230	J	0.512	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.20		1.54	0.358	mg/Kg	1	☼	6010D	Total/NA
Lead	2.74		1.54	0.614	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.57		1.02	0.266	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.25		1.02	0.440	mg/Kg	1	☼	6010D	Total/NA
Zinc	6.55		2.05	0.819	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0406' — Lab Sample ID: 620-10117-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.47	J	2.80	1.31	mg/Kg	1	☼	6010D	Total/NA
Barium	11.9		0.466	0.140	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.206	J	0.466	0.0932	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.95		1.40	0.326	mg/Kg	1	☼	6010D	Total/NA
Lead	2.16		1.40	0.559	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.32		0.932	0.242	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.39		0.932	0.401	mg/Kg	1	☼	6010D	Total/NA
Zinc	5.24		1.86	0.746	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0608' — Lab Sample ID: 620-10117-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.33		2.47	1.15	mg/Kg	1	☼	6010D	Total/NA
Barium	18.2		0.412	0.124	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.288	J	0.412	0.0824	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.75		1.24	0.288	mg/Kg	1	☼	6010D	Total/NA
Lead	2.43		1.24	0.494	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.824	0.214	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.14		0.824	0.354	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.2		1.65	0.659	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-0810' — Lab Sample ID: 620-10117-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.58		2.71	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	44.5		0.451	0.135	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-06-0810' (Continued) Lab Sample ID: 620-10117-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.585		0.451	0.0903	mg/Kg	1	☼	6010D	Total/NA
Chromium	11.4		1.35	0.316	mg/Kg	1	☼	6010D	Total/NA
Lead	4.75		1.35	0.542	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.39		0.903	0.235	mg/Kg	1	☼	6010D	Total/NA
Vanadium	19.6		0.903	0.388	mg/Kg	1	☼	6010D	Total/NA
Zinc	24.2		1.81	0.722	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-06-1012' Lab Sample ID: 620-10117-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.72	J	3.49	1.63	mg/Kg	1	☼	6010D	Total/NA
Barium	17.7		0.582	0.175	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.312	J	0.582	0.116	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.69		1.75	0.408	mg/Kg	1	☼	6010D	Total/NA
Lead	2.11		1.75	0.699	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.43		1.16	0.303	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.44		1.16	0.501	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.76		2.33	0.932	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0002' Lab Sample ID: 620-10117-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.102		0.0724	0.0407	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.104		0.0724	0.0518	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.114		0.0724	0.0600	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.0902		0.0724	0.0565	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.0936		0.0724	0.0563	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.170		0.0724	0.0409	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.240		0.0724	0.0424	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.0830		0.0724	0.0614	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.125		0.0724	0.0410	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.236		0.0724	0.0399	mg/Kg	1	☼	8270D	Total/NA
Antimony	5.26		4.72	1.60	mg/Kg	1	☼	6010D	Total/NA
Arsenic	15.2		2.83	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	193		4.72	1.41	mg/Kg	10	☼	6010D	Total/NA
Beryllium	0.904		0.472	0.0943	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.132	J	0.472	0.0943	mg/Kg	1	☼	6010D	Total/NA
Chromium	15.7		1.41	0.330	mg/Kg	1	☼	6010D	Total/NA
Lead	36.7		1.41	0.566	mg/Kg	1	☼	6010D	Total/NA
Nickel	36.5		0.943	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	33.2		0.943	0.406	mg/Kg	1	☼	6010D	Total/NA
Zinc	149		1.89	0.755	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.57		2.52	1.18	mg/Kg	1	☼	6010D	Total/NA
Barium	17.0		0.420	0.126	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.250	J	0.420	0.0841	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.87		1.26	0.294	mg/Kg	1	☼	6010D	Total/NA
Lead	2.56		1.26	0.505	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.40		0.841	0.219	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-08-0204' (Continued) — Lab Sample ID: 620-10117-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	9.21		0.841	0.362	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.8	^5-	1.68	0.673	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0406' — Lab Sample ID: 620-10117-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0161	J B	0.0441	0.00989	mg/Kg	1	☼	8260C	Total/NA
Arsenic	2.03	J	2.79	1.30	mg/Kg	1	☼	6010D	Total/NA
Barium	12.7		0.464	0.139	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.202	J	0.464	0.0928	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.87		1.39	0.325	mg/Kg	1	☼	6010D	Total/NA
Lead	1.67		1.39	0.557	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.54		0.928	0.241	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.25		0.928	0.399	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.63		1.86	0.743	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0608' — Lab Sample ID: 620-10117-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.29		2.67	1.25	mg/Kg	1	☼	6010D	Total/NA
Barium	42.7		0.445	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.731		0.445	0.0890	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.3		1.34	0.312	mg/Kg	1	☼	6010D	Total/NA
Lead	4.75		1.34	0.534	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.74		0.890	0.231	mg/Kg	1	☼	6010D	Total/NA
Vanadium	23.0		0.890	0.383	mg/Kg	1	☼	6010D	Total/NA
Zinc	24.2		1.78	0.712	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-0810' — Lab Sample ID: 620-10117-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00353	J B *3	0.0102	0.00273	mg/Kg	1	☼	8260C	Total/NA
Arsenic	5.85		2.89	1.35	mg/Kg	1	☼	6010D	Total/NA
Barium	31.0		0.482	0.145	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.425	J	0.482	0.0963	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.87		1.45	0.337	mg/Kg	1	☼	6010D	Total/NA
Lead	4.39		1.45	0.578	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.74		0.963	0.250	mg/Kg	1	☼	6010D	Total/NA
Vanadium	11.1		0.963	0.414	mg/Kg	1	☼	6010D	Total/NA
Zinc	16.0		1.93	0.771	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-08-1012' — Lab Sample ID: 620-10117-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0276		0.0232	0.0180	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.04		2.96	1.38	mg/Kg	1	☼	6010D	Total/NA
Barium	22.6		0.493	0.148	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.332	J	0.493	0.0987	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.0		1.48	0.345	mg/Kg	1	☼	6010D	Total/NA
Lead	2.33		1.48	0.592	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.10		0.987	0.257	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.79		0.987	0.424	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.4		1.97	0.790	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'

Lab Sample ID: 620-10117-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.139	J	0.160	0.105	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.130	J	0.160	0.0925	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.276		0.160	0.0899	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.579	*3	0.160	0.114	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.93	*3	0.160	0.133	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.01	*3	0.160	0.125	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.31	*3	0.160	0.124	mg/Kg	1	☼	8270D	Total/NA
Benzoic acid	2.67	*- *1	0.791	0.544	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	60.2		4.00	1.02	mg/Kg	10	☼	8270D	Total/NA
Butyl benzyl phthalate	6.11	J	7.91	0.793	mg/Kg	10	☼	8270D	Total/NA
Chrysene	0.585		0.160	0.0904	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.300	*3	0.160	0.122	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	27.1		7.91	0.846	mg/Kg	10	☼	8270D	Total/NA
Fluoranthene	1.57		0.160	0.0937	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.858	*3	0.160	0.136	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.20		0.160	0.0906	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.47		0.160	0.0882	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	11.5		0.293	0.150	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	4.20		0.293	0.125	mg/Kg	1		MA VPH SUM	Total/NA
Ethylbenzene	0.0346	J	0.0585	0.0117	mg/Kg	1	☼	MAVPH	Total/NA
m,p-Xylene	0.0605	J	0.117	0.0117	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	11.5		0.293	0.150	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	1.57		0.293	0.0410	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	5.87		0.293	0.125	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	362		11.9	9.27	mg/Kg	500	☼	8082	Total/NA
Arsenic	4.67		3.11	1.45	mg/Kg	1	☼	6010D	Total/NA
Barium	66.5		0.519	0.156	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.547		0.519	0.104	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.80		1.56	0.363	mg/Kg	1	☼	6010D	Total/NA
Lead	26.9		1.56	0.623	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.04		1.04	0.270	mg/Kg	1	☼	6010D	Total/NA
Vanadium	15.4		1.04	0.446	mg/Kg	1	☼	6010D	Total/NA
Zinc	161		2.08	0.830	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0512	J	0.0700	0.0233	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-12-0204'

Lab Sample ID: 620-10117-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0905		0.0229	0.0178	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.40	J	2.41	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	12.0		0.401	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.363	J	0.401	0.0802	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.44		1.20	0.281	mg/Kg	1	☼	6010D	Total/NA
Lead	2.99		1.20	0.481	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.96		0.802	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.10		0.802	0.345	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.8		1.60	0.642	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-0406'

Lab Sample ID: 620-10117-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.172		0.0223	0.0174	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client Sample ID: 2023-SB-12-0406' (Continued)
Lab Sample ID: 620-10117-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.59	J	2.93	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	10.0		0.488	0.146	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.248	J	0.488	0.0976	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.85		1.46	0.342	mg/Kg	1	☼	6010D	Total/NA
Lead	1.93		1.46	0.586	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.976	0.254	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.90		0.976	0.420	mg/Kg	1	☼	6010D	Total/NA
Zinc	28.3		1.95	0.781	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-0608'
Lab Sample ID: 620-10117-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0316	J B	0.0446	0.0304	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	2.02	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	12.8		0.400	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.209	J	0.400	0.0801	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.76		1.20	0.280	mg/Kg	1	☼	6010D	Total/NA
Lead	2.05		1.20	0.481	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.15		0.801	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.76		0.801	0.344	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.2		1.60	0.641	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-0810'
Lab Sample ID: 620-10117-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.90		3.59	1.67	mg/Kg	1	☼	6010D	Total/NA
Barium	80.1	F1	0.598	0.179	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.17		0.598	0.120	mg/Kg	1	☼	6010D	Total/NA
Chromium	21.4		1.79	0.418	mg/Kg	1	☼	6010D	Total/NA
Lead	7.35	F1	1.79	0.717	mg/Kg	1	☼	6010D	Total/NA
Nickel	10.9		1.20	0.311	mg/Kg	1	☼	6010D	Total/NA
Vanadium	34.9		1.20	0.514	mg/Kg	1	☼	6010D	Total/NA
Zinc	47.7		2.39	0.956	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-12-1012'
Lab Sample ID: 620-10117-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0583	J B	0.0804	0.0546	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0274		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.17	F2	2.58	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	17.6	F1	0.431	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.348	J	0.431	0.0861	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.59		1.29	0.301	mg/Kg	1	☼	6010D	Total/NA
Lead	2.85	F1	1.29	0.517	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.47		0.861	0.224	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.07	F1	0.861	0.370	mg/Kg	1	☼	6010D	Total/NA
Zinc	28.0		1.72	0.689	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0002'
Lab Sample ID: 620-10117-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzidine	0.303	J	0.702	0.104	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	7.11		0.889	0.226	mg/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-07-0002' (Continued) Lab Sample ID: 620-10117-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl benzyl phthalate	0.159	J	0.351	0.0352	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	2.84		0.109	0.0848	mg/Kg	5	☼	8082	Total/NA
Arsenic	4.20		3.26	1.52	mg/Kg	1	☼	6010D	Total/NA
Barium	33.1		0.543	0.163	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.332	J	0.543	0.109	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.47		1.63	0.380	mg/Kg	1	☼	6010D	Total/NA
Lead	6.36		1.63	0.651	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.22		1.09	0.282	mg/Kg	1	☼	6010D	Total/NA
Vanadium	14.0		1.09	0.467	mg/Kg	1	☼	6010D	Total/NA
Zinc	23.2		2.17	0.868	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0204' Lab Sample ID: 620-10117-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.0585	J	0.0750	0.0434	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0753		0.0750	0.0421	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0652	J	0.0750	0.0536	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0758		0.0750	0.0621	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.0748	J	0.0750	0.0583	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.135	J	0.188	0.0478	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.438		0.371	0.0372	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0790		0.0750	0.0424	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.167		0.0750	0.0439	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.159		0.0750	0.0425	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.154		0.0750	0.0414	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	1.05		0.0231	0.0180	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.03	J	3.35	1.57	mg/Kg	1	☼	6010D	Total/NA
Barium	26.3		0.559	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.238	J	0.559	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.92		1.68	0.391	mg/Kg	1	☼	6010D	Total/NA
Lead	3.02		1.68	0.671	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.83		1.12	0.291	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.74		1.12	0.481	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.66		2.24	0.894	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0218	J B *3	0.0444	0.00995	mg/Kg	1	☼	8260C	Total/NA
Acetone - RA	0.0196	J *3 B	0.0450	0.0101	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RA	0.00260	J *3 B	0.00901	0.00241	mg/Kg	1	☼	8260C	Total/NA
Bis(2-ethylhexyl) phthalate	11.3		1.84	0.469	mg/Kg	10	☼	8270D	Total/NA
Butyl benzyl phthalate	2.73		0.364	0.0365	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.356	J	0.364	0.0389	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0349	J B	0.0457	0.0311	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	16.2		0.468	0.364	mg/Kg	20	☼	8082	Total/NA
Arsenic	2.89	J	3.29	1.54	mg/Kg	1	☼	6010D	Total/NA
Barium	31.4		0.549	0.165	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.290	J	0.549	0.110	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.44		1.65	0.384	mg/Kg	1	☼	6010D	Total/NA
Lead	4.51		1.65	0.659	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.47		1.10	0.285	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-07-0406' (Continued)
Lab Sample ID: 620-10117-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	9.11		1.10	0.472	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.4		2.20	0.878	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0608'
Lab Sample ID: 620-10117-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.321		0.184	0.0469	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.285	J	0.364	0.0365	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	1.11		0.0460	0.0358	mg/Kg	2	☼	8082	Total/NA
Arsenic	1.86	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	30.1		0.401	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.265	J	0.401	0.0802	mg/Kg	1	☼	6010D	Total/NA
Chromium	11.4		1.20	0.281	mg/Kg	1	☼	6010D	Total/NA
Lead	3.25		1.20	0.481	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.43		0.802	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.57		0.802	0.345	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.2		1.60	0.641	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-0810'
Lab Sample ID: 620-10117-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0253		0.0237	0.0184	mg/Kg	1	☼	8082	Total/NA
Barium	20.6		0.559	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.222	J	0.559	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.58		1.68	0.391	mg/Kg	1	☼	6010D	Total/NA
Lead	2.22		1.68	0.670	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.63		1.12	0.290	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.87		1.12	0.480	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.1		2.23	0.894	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-07-1012'
Lab Sample ID: 620-10117-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0595		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Barium	19.4		0.484	0.145	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.215	J	0.484	0.0968	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.33		1.45	0.339	mg/Kg	1	☼	6010D	Total/NA
Lead	2.25		1.45	0.581	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.86		0.968	0.252	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.34		0.968	0.416	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.55		1.94	0.774	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-0002'
Lab Sample ID: 620-10117-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	0.833		0.367	0.0965	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0819		0.0741	0.0417	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.104		0.0741	0.0530	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.119		0.0741	0.0615	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.111		0.0741	0.0579	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.102		0.0741	0.0577	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	10.7		0.742	0.189	mg/Kg	4	☼	8270D	Total/NA
Butyl benzyl phthalate	1.05		0.367	0.0368	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-05-0002' (Continued) Lab Sample ID: 620-10117-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.131		0.0741	0.0419	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	2.06		0.367	0.0392	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.237		0.0741	0.0435	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.0954		0.0741	0.0629	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.114		0.0741	0.0420	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.219		0.0741	0.0409	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.190	J	0.302	0.155	mg/Kg	1		MA VPH SUM	Total/NA
Toluene	0.0292	J	0.0604	0.0121	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	0.219	J	0.302	0.155	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	26.3		1.17	0.909	mg/Kg	50	☼	8082	Total/NA
PCB-1260	3.59		1.17	0.251	mg/Kg	50	☼	8082	Total/NA
Antimony	8.25		5.18	1.76	mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.48		3.11	1.45	mg/Kg	1	☼	6010D	Total/NA
Barium	3780		5.18	1.55	mg/Kg	10	☼	6010D	Total/NA
Beryllium	0.642		0.518	0.104	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.08		0.518	0.104	mg/Kg	1	☼	6010D	Total/NA
Chromium	27.1		1.55	0.363	mg/Kg	1	☼	6010D	Total/NA
Lead	676		1.55	0.622	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.71		1.04	0.269	mg/Kg	1	☼	6010D	Total/NA
Vanadium	14.0		1.04	0.446	mg/Kg	1	☼	6010D	Total/NA
Zinc	1970		20.7	8.29	mg/Kg	10	☼	6010D	Total/NA
Mercury	0.0307	J	0.0680	0.0227	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-05-0204' Lab Sample ID: 620-10117-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.123		0.0763	0.0429	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.125		0.0763	0.0546	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.145		0.0763	0.0633	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.133		0.0763	0.0596	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.165		0.0763	0.0594	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.972		0.191	0.0486	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.219		0.0763	0.0431	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	3.19		0.378	0.0404	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.342		0.0763	0.0447	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.112		0.0763	0.0648	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.249		0.0763	0.0433	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.387		0.0763	0.0421	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.142	J	0.263	0.135	mg/Kg	1		MA VPH SUM	Total/NA
C5-C8 Aliphatics (unadjusted)	0.142	J	0.263	0.135	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	1.08		0.0446	0.0347	mg/Kg	2	☼	8082	Total/NA
Antimony	3.08	J	4.77	1.62	mg/Kg	1	☼	6010D	Total/NA
Arsenic	6.18		2.86	1.34	mg/Kg	1	☼	6010D	Total/NA
Barium	531		4.77	1.43	mg/Kg	10	☼	6010D	Total/NA
Beryllium	0.621		0.477	0.0954	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.216	J	0.477	0.0954	mg/Kg	1	☼	6010D	Total/NA
Chromium	10.3		1.43	0.334	mg/Kg	1	☼	6010D	Total/NA
Lead	76.1		1.43	0.572	mg/Kg	1	☼	6010D	Total/NA
Nickel	10.3		0.954	0.248	mg/Kg	1	☼	6010D	Total/NA
Vanadium	11.9		0.954	0.410	mg/Kg	1	☼	6010D	Total/NA
Zinc	302	^5-	1.91	0.763	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-05-0204' (Continued)
Lab Sample ID: 620-10117-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.0264	J	0.0687	0.0229	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-05-0608'
Lab Sample ID: 620-10117-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0338		0.0221	0.0172	mg/Kg	1	☼	8082	Total/NA
Barium	13.5		0.533	0.160	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.216	J	0.533	0.107	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.38		1.60	0.373	mg/Kg	1	☼	6010D	Total/NA
Lead	3.86		1.60	0.640	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.76		1.07	0.277	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.65		1.07	0.459	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.78		2.13	0.853	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-0810'
Lab Sample ID: 620-10117-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	22.1		0.429	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.208	J	0.429	0.0858	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.10		1.29	0.300	mg/Kg	1	☼	6010D	Total/NA
Lead	2.54		1.29	0.515	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.94		0.858	0.223	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.26		0.858	0.369	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.8		1.72	0.686	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-1012'
Lab Sample ID: 620-10117-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.00841	J	0.00867	0.00304	mg/Kg	1	☼	8260C	Total/NA
Barium	9.86		0.546	0.164	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.155	J	0.546	0.109	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.38		1.64	0.382	mg/Kg	1	☼	6010D	Total/NA
Lead	2.12		1.64	0.655	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.02		1.09	0.284	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.16		1.09	0.470	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.25		2.18	0.874	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-05-0406'
Lab Sample ID: 620-10117-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0193	J B	0.0506	0.0113	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.0712		0.0246	0.0192	mg/Kg	1	☼	8082	Total/NA
Barium	15.5		0.559	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.378	J	0.559	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.99		1.68	0.391	mg/Kg	1	☼	6010D	Total/NA
Lead	5.35		1.68	0.671	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.60		1.12	0.291	mg/Kg	1	☼	6010D	Total/NA
Vanadium	3.83		1.12	0.481	mg/Kg	1	☼	6010D	Total/NA
Zinc	5.43		2.24	0.894	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-06 — Lab Sample ID: 620-10117-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	0.524		0.368	0.253	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	4.31		0.744	0.189	mg/Kg	4	☼	8270D	Total/NA
Butyl benzyl phthalate	2.25		0.368	0.0369	mg/Kg	1	☼	8270D	Total/NA
C9-C12 Aliphatics (adjusted)	0.357		0.331	0.142	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	0.0980	B	0.0661	0.0450	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.149	J	0.331	0.0463	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.506		0.331	0.142	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	14.5		0.455	0.354	mg/Kg	20	☼	8082	Total/NA
Arsenic	2.06	J	2.98	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	26.7		0.497	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.256	J	0.497	0.0994	mg/Kg	1	☼	6010D	Total/NA
Chromium	10.6		1.49	0.348	mg/Kg	1	☼	6010D	Total/NA
Lead	5.21		1.49	0.596	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.08		0.994	0.258	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.49		0.994	0.427	mg/Kg	1	☼	6010D	Total/NA
Zinc	18.4		1.99	0.795	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-07 — Lab Sample ID: 620-10117-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.225		0.0232	0.0181	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.66	J	2.45	1.15	mg/Kg	1	☼	6010D	Total/NA
Barium	20.6		0.409	0.123	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.280	J	0.409	0.0818	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.28		1.23	0.286	mg/Kg	1	☼	6010D	Total/NA
Lead	2.90		1.23	0.491	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.93		0.818	0.213	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.14		0.818	0.352	mg/Kg	1	☼	6010D	Total/NA
Zinc	64.0		1.64	0.654	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0002' — Lab Sample ID: 620-10117-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	5.78		0.380	0.0966	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.967		0.750	0.0752	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.587	J	0.750	0.0802	mg/Kg	1	☼	8270D	Total/NA
C9-C10 Aromatics	0.0587	J	0.297	0.0416	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.176	J	0.297	0.127	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	23.5		1.14	0.886	mg/Kg	50	☼	8082	Total/NA
Arsenic	1.78	J	3.44	1.60	mg/Kg	1	☼	6010D	Total/NA
Barium	130		0.573	0.172	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.177	J	0.573	0.115	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.35		1.72	0.401	mg/Kg	1	☼	6010D	Total/NA
Lead	13.4		1.72	0.687	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.16		1.15	0.298	mg/Kg	1	☼	6010D	Total/NA
Vanadium	3.76		1.15	0.493	mg/Kg	1	☼	6010D	Total/NA
Zinc	85.7		2.29	0.917	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0204' — Lab Sample ID: 620-10117-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	11.6		1.96	0.499	mg/Kg	10	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-06-0204' (Continued) — Lab Sample ID: 620-10117-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl benzyl phthalate	1.99		0.387	0.0388	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.717		0.387	0.0414	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	34.8		1.17	0.912	mg/Kg	50	☼	8082	Total/NA
Arsenic	1.90	J	3.29	1.54	mg/Kg	1	☼	6010D	Total/NA
Barium	225		0.548	0.165	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.255	J	0.548	0.110	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.27		1.65	0.384	mg/Kg	1	☼	6010D	Total/NA
Lead	27.8		1.65	0.658	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.94		1.10	0.285	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.47		1.10	0.472	mg/Kg	1	☼	6010D	Total/NA
Zinc	125		2.19	0.878	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0406' — Lab Sample ID: 620-10117-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.115		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.60	J	2.36	1.10	mg/Kg	1	☼	6010D	Total/NA
Barium	23.5		0.393	0.118	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.325	J	0.393	0.0787	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.63		1.18	0.275	mg/Kg	1	☼	6010D	Total/NA
Lead	2.90		1.18	0.472	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.33		0.787	0.205	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.2		0.787	0.338	mg/Kg	1	☼	6010D	Total/NA
Zinc	58.8		1.57	0.629	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0608' — Lab Sample ID: 620-10117-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0373	J B	0.0519	0.0353	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.296		0.0225	0.0175	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.80	J	2.81	1.31	mg/Kg	1	☼	6010D	Total/NA
Barium	24.6		0.468	0.140	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.253	J	0.468	0.0935	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.12		1.40	0.327	mg/Kg	1	☼	6010D	Total/NA
Lead	2.87		1.40	0.561	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.85		0.935	0.243	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.94		0.935	0.402	mg/Kg	1	☼	6010D	Total/NA
Zinc	61.5		1.87	0.748	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-06-0810' — Lab Sample ID: 620-10117-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.422	J	0.670	0.223	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	2.29	J	3.19	1.49	mg/Kg	1	☼	6010D	Total/NA
Barium	21.9		0.532	0.160	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.285	J	0.532	0.106	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.90		1.60	0.373	mg/Kg	1	☼	6010D	Total/NA
Lead	3.46		1.60	0.639	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.16		1.06	0.277	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.08		1.06	0.458	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.6		2.13	0.852	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-1012'

Lab Sample ID: 620-10117-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0202	J	0.0218	0.0170	mg/Kg	1	☼	8082	Total/NA
Perfluorohexanoic acid	0.491	J	0.662	0.221	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	1.99	J	2.58	1.20	mg/Kg	1	☼	6010D	Total/NA
Barium	18.2		0.430	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.229	J	0.430	0.0860	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.14		1.29	0.301	mg/Kg	1	☼	6010D	Total/NA
Lead	2.69		1.29	0.516	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.33		0.860	0.224	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.56		0.860	0.370	mg/Kg	1	☼	6010D	Total/NA
Zinc	38.9	^5-	1.72	0.688	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank -05

Lab Sample ID: 620-10117-39

No Detections.

Client Sample ID: Trip Blank -06

Lab Sample ID: 620-10117-40

No Detections.

Client Sample ID: 2023-SB-05-0002'

Lab Sample ID: 620-10117-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0579	J	0.0738	0.0484	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0468	J	0.0738	0.0427	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.122		0.0738	0.0415	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.157		0.0738	0.0527	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.185		0.0738	0.0611	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.152		0.0738	0.0576	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.159		0.0738	0.0574	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.418		0.185	0.0470	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.184		0.0738	0.0417	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0575	J	0.0738	0.0563	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	3.07		0.365	0.0390	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.263		0.0738	0.0432	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.135		0.0738	0.0626	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.124		0.0738	0.0418	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.299		0.0738	0.0407	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.217	J	0.256	0.131	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	0.418		0.256	0.110	mg/Kg	1		MA VPH SUM	Total/NA
C5-C8 Aliphatics (unadjusted)	0.217	J	0.256	0.131	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.180	J	0.256	0.0358	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.598		0.256	0.110	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	1.99		0.110	0.0858	mg/Kg	5	☼	8082	Total/NA
Arsenic	2.32	J	3.10	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	57.0		0.516	0.155	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.267	J	0.516	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.50		1.55	0.361	mg/Kg	1	☼	6010D	Total/NA
Lead	26.8		1.55	0.619	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.30		1.03	0.268	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.90		1.03	0.444	mg/Kg	1	☼	6010D	Total/NA
Zinc	81.0		2.06	0.825	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0411	J	0.0633	0.0211	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204' — Lab Sample ID: 620-10117-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.0778	J	0.101	0.0590	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0678	J	0.101	0.0555	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0572	J B	0.0759	0.0516	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	3.22	J	4.43	2.07	mg/Kg	1	☼	6010D	Total/NA
Barium	45.7		0.738	0.221	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.691	J	0.738	0.148	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.85		2.21	0.517	mg/Kg	1	☼	6010D	Total/NA
Lead	23.3		2.21	0.886	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.20		1.48	0.384	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.5		1.48	0.635	mg/Kg	1	☼	6010D	Total/NA
Zinc	140		2.95	1.18	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0464	J	0.0850	0.0283	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-05-0406' — Lab Sample ID: 620-10117-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	1.35	F1	0.389	0.267	mg/Kg	1	☼	8270D	Total/NA
Pentachlorophenol	0.327	J B	0.389	0.159	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0380	J B	0.0526	0.0357	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0557		0.0232	0.0180	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.43	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	26.3	F2	0.399	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.285	J	0.399	0.0799	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.42		1.20	0.280	mg/Kg	1	☼	6010D	Total/NA
Lead	4.16		1.20	0.479	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.81		0.799	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.68		0.799	0.343	mg/Kg	1	☼	6010D	Total/NA
Zinc	44.1		1.60	0.639	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-05-0608' — Lab Sample ID: 620-10117-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0179	J B	0.0540	0.0121	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.00665	J B	0.0108	0.00289	mg/Kg	1	☼	8260C	Total/NA
Barium	27.4		0.509	0.153	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.243	J	0.509	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.65		1.53	0.356	mg/Kg	1	☼	6010D	Total/NA
Lead	2.90		1.53	0.611	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.58		1.02	0.265	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.57		1.02	0.438	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.2		2.04	0.815	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-05-0810' — Lab Sample ID: 620-10117-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.54	J	2.38	1.11	mg/Kg	1	☼	6010D	Total/NA
Barium	33.6		0.396	0.119	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.276	J	0.396	0.0793	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.74		1.19	0.277	mg/Kg	1	☼	6010D	Total/NA
Lead	2.77		1.19	0.476	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.37		0.793	0.206	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.82		0.793	0.341	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-05-0810' (Continued)
Lab Sample ID: 620-10117-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	17.1		1.59	0.634	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-05-1012'
Lab Sample ID: 620-10117-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.111	J	0.198	0.0503	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0354		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.85	J	2.76	1.29	mg/Kg	1	☼	6010D	Total/NA
Barium	19.4		0.460	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.235	J	0.460	0.0920	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.84		1.38	0.322	mg/Kg	1	☼	6010D	Total/NA
Lead	2.97		1.38	0.552	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.84		0.920	0.239	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.78		0.920	0.395	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.0		1.84	0.736	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0002'
Date Collected: 03/02/23 14:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-1
Matrix: Solid
Percent Solids: 90.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00527	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Acetone	ND		0.0527	0.0118	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Acrylonitrile	ND		0.00527	0.00316	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Benzene	ND		0.00527	0.00352	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromobenzene	ND		0.00527	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromochloromethane	ND		0.00527	0.00299	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromodichloromethane	ND		0.00527	0.00387	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromoform	ND		0.00527	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Bromomethane	ND		0.0105	0.00657	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2-Butanone (MEK)	ND		0.0105	0.00420	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
n-Butylbenzene	ND		0.0105	0.00565	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
sec-Butylbenzene	ND		0.00527	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
tert-Butylbenzene	ND		0.00527	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Carbon disulfide	ND		0.0105	0.00370	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Carbon tetrachloride	ND		0.00527	0.00332	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chlorobenzene	ND		0.00527	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chloroethane	ND		0.0105	0.00387	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chloroform	ND		0.00527	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Chloromethane	ND		0.0105	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2-Chlorotoluene	ND		0.00527	0.00420	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
4-Chlorotoluene	ND		0.00527	0.00458	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00447	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Dibromochloromethane	ND		0.00527	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dibromoethane (EDB)	ND		0.00527	0.00379	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Dibromomethane	ND		0.00527	0.00310	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dichlorobenzene	ND		0.00527	0.00489	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3-Dichlorobenzene	ND		0.00527	0.00423	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,4-Dichlorobenzene	ND		0.00527	0.00500	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00283	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1-Dichloroethane	ND		0.00527	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dichloroethane	ND		0.00527	0.00355	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1-Dichloroethene	ND		0.00527	0.00323	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
cis-1,2-Dichloroethene	ND		0.00527	0.00305	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
trans-1,2-Dichloroethene	ND		0.00527	0.00328	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2-Dichloropropane	ND		0.00527	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3-Dichloropropane	ND		0.00527	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2,2-Dichloropropane	ND		0.00527	0.00364	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1-Dichloropropene	ND		0.00527	0.00359	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
cis-1,3-Dichloropropene	ND		0.00527	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
trans-1,3-Dichloropropene	ND		0.00527	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethylbenzene	ND		0.00527	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Hexachlorobutadiene	ND		0.0105	0.00530	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
2-Hexanone (MBK)	ND		0.0105	0.00310	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Isopropylbenzene	ND		0.00527	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
4-Isopropyltoluene	ND		0.00527	0.00518	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Methyl tert-butyl ether	ND		0.00527	0.00304	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Methylene Chloride	ND		0.0105	0.00283	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Naphthalene	ND		0.00527	0.00477	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00527	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Styrene	ND		0.00527	0.00408	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,1,2-Tetrachloroethane	ND		0.00527	0.00395	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,2,2-Tetrachloroethane	ND		0.00527	0.00483	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Tetrachloroethene	ND		0.00527	0.00293	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Toluene	ND		0.00527	0.00334	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,3-Trichlorobenzene	ND		0.00527	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,4-Trichlorobenzene	ND		0.00527	0.00486	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3,5-Trichlorobenzene	ND		0.00527	0.00501	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,1-Trichloroethane	ND		0.00527	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,1,2-Trichloroethane	ND		0.00527	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Trichloroethene	ND		0.00527	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Trichlorofluoromethane (Freon 11)	ND		0.00527	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,3-Trichloropropane	ND		0.00527	0.00468	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,2,4-Trimethylbenzene	ND		0.00527	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3,5-Trimethylbenzene	ND		0.00527	0.00448	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Vinyl chloride	ND		0.00527	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
m,p-Xylene	ND		0.00527	0.00720	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
o-Xylene	ND		0.00527	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Tetrahydrofuran	ND		0.0105	0.00267	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethyl ether	ND		0.00527	0.00277	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Tert-amyl methyl ether	ND		0.00527	0.00417	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethyl tert-butyl ether	ND		0.00527	0.00347	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
di-Isopropyl ether	ND		0.00527	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
tert-Butanol	ND		0.105	0.0283	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,4-Dioxane	ND		0.105	0.0328	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Ethanol	ND		1.05	0.0654	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
1,3-Dichloropropene, Total	ND		0.00527	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1
Xylenes, Total	ND		0.0158	0.00527	mg/Kg	☼	03/07/23 09:52	03/07/23 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:48*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.359	0.0639	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,2,4-Trichlorobenzene	ND		0.359	0.0823	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,2-Dichlorobenzene	ND		0.359	0.0693	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,3-Dichlorobenzene	ND		0.359	0.0870	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1,4-Dichlorobenzene	ND		0.359	0.0846	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
1-Methylnaphthalene	ND		0.0727	0.0610	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4,5-Trichlorophenol	ND		0.359	0.0412	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4,6-Trichlorophenol	ND		0.182	0.0444	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4-Dichlorophenol	ND		0.182	0.0724	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4-Dimethylphenol	ND		0.359	0.0527	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,4-Dinitrophenol	ND		0.359	0.0945	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.182	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2,6-Dinitrotoluene	ND		0.182	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Chloronaphthalene	ND		0.359	0.0831	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Chlorophenol	ND		0.182	0.0744	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Methylnaphthalene	ND		0.0727	0.0537	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Methylphenol	ND		0.359	0.0525	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Nitroaniline	ND		0.359	0.0342	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
2-Nitrophenol	ND		0.182	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
3 & 4 Methylphenol	ND		0.359	0.0681	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
3,3'-Dichlorobenzidine	ND		0.359	0.0594	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
3-Nitroaniline	ND		0.359	0.0321	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4,6-Dinitro-2-methylphenol	ND		0.359	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Bromophenyl phenyl ether	ND		0.359	0.0406	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Chloro-3-methylphenol	ND		0.359	0.0704	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Chloroaniline	ND		0.182	0.0276	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Chlorophenyl phenyl ether	ND		0.359	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Nitroaniline	ND		0.182	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
4-Nitrophenol	ND		0.359	0.125	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Acenaphthene	ND		0.0727	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Acenaphthylene	ND		0.0727	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Acetophenone	ND		0.182	0.0443	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Aniline	ND		0.359	0.0276	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Anthracene	ND		0.0727	0.0420	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Azobenzene/Diphenyldiazene	ND		0.359	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzidine	ND		0.719	0.106	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[a]anthracene	ND		0.0727	0.0408	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[a]pyrene	ND		0.0727	0.0520	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[b]fluoranthene	ND		0.0727	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[g,h,i]perylene	ND		0.0727	0.0568	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzo[k]fluoranthene	ND		0.0727	0.0565	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzoic acid	ND	*- *1	0.359	0.247	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Benzyl alcohol	ND		0.359	0.0651	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Bis(2-chloroethoxy)methane	ND		0.359	0.0625	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Bis(2-chloroethyl)ether	ND		0.182	0.0595	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
bis (2-chloroisopropyl) ether	ND		0.182	0.0809	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Bis(2-ethylhexyl) phthalate	**0.0798**	**J**	0.182	0.0463	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Butyl benzyl phthalate	ND		0.359	0.0361	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Carbazole	ND		0.182	0.0476	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Chrysene	ND		0.0727	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Dibenz(a,h)anthracene	ND		0.0727	0.0554	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Dibenzofuran	ND		0.182	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Diethyl phthalate	ND		0.359	0.0394	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Dimethyl phthalate	ND		0.359	0.0468	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Di-n-butyl phthalate	ND		0.359	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Di-n-octyl phthalate	ND		0.359	0.0594	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Fluoranthene	ND		0.0727	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Fluorene	ND		0.0727	0.0663	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Hexachlorobenzene	ND		0.182	0.0504	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Hexachlorobutadiene	ND		0.182	0.0907	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.182	0.0695	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Hexachloroethane	ND		0.182	0.0715	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0727	0.0617	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Isophorone	ND		0.182	0.0498	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Naphthalene	ND		0.0727	0.0697	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Nitrobenzene	ND		0.182	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
N-Nitrosodimethylamine	ND		0.182	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
N-Nitrosodi-n-propylamine	ND		0.182	0.0724	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
N-Nitrosodiphenylamine	ND		0.359	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pentachloronitrobenzene	ND		0.359	0.0568	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pentachlorophenol	ND		0.359	0.147	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Phenanthrene	ND		0.0727	0.0412	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Phenol	ND		0.359	0.0741	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pyrene	ND		0.0727	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1
Pyridine	ND		0.359	0.0851	mg/Kg	☼	03/13/23 11:00	03/14/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:59*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:59*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.323	0.165	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.323	0.138	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Ethylbenzene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Methyl tert-butyl ether	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
m,p-Xylene	ND		0.129	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Naphthalene	**0.0459**	**J B**	0.0646	0.0439	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
o-Xylene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
Toluene	ND		0.0646	0.0129	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
C5-C8 Aliphatics (unadjusted)	ND		0.323	0.165	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
C9-C10 Aromatics	ND		0.323	0.0452	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1
C9-C12 Aliphatics (unadjusted)	ND		0.323	0.138	mg/Kg	☼	03/07/23 07:22	03/07/23 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/07/23 07:22*	*03/07/23 15:54*	*1*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/07/23 07:22*	*03/07/23 15:54*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1254	**0.253**		0.0218	0.0170	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	03/09/23 15:26	03/11/23 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*
DCB Decachlorobiphenyl (Surr)	*113*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:53*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoroheptanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorononanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorodecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorotridecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorotetradecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorobutanesulfonic acid	ND		2.17	0.434	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorohexanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
10:2 FTS	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoropentanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoroheptanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorononanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorodecanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctanesulfonamide	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorohexadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorooctadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorobutanoic acid	ND		2.17	0.867	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoropentanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NMeFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NMeFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NEtFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
NEtFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
HFPODA	ND		2.17	1.08	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
DONA	ND		3.25	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
11Cl-PF3OUdS	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluorododecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
Perfluoroundecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.650	ug/Kg	☼	03/07/23 22:53	03/15/23 22:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*80*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C5 PFHxA	*76*		*10 - 174*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C4 PFHpA	*84*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C8 PFOA	*95*		*26 - 159*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C9 PFNA	*95*		*26 - 165*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C6 PFDA	*95*		*26 - 161*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C7 PFUnA	*97*		*12 - 173*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C2-PFDoDA	*95*		*11 - 166*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C2 PFTeDA	*114*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C3 PFBS	*113*		*27 - 179*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C8 PFOS	*112*		*41 - 154*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d3-NMeFOSAA	*20*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d5-NEtFOSAA	*25*		*10 - 193*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C8 FOSA	*74*		*14 - 163*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C4 PFBA	*73*		*28 - 153*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d7-N-MeFOSE-M	*79*		*10 - 179*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d3-NMePFOSA	*62*		*10 - 175*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
d5-NEtPFOSA	*67*		*10 - 180*	*03/07/23 22:53*	*03/15/23 22:57*	*1*
13C3 HFPO-DA	*67*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.42	1.84	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Arsenic	**2.07**	**J**	3.25	1.52	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Barium	**13.0**		0.542	0.163	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Beryllium	**0.256**	**J**	0.542	0.108	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Cadmium	ND		0.542	0.108	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Chromium	**3.63**		1.63	0.379	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Lead	**2.64**		1.63	0.650	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Nickel	**1.76**		1.08	0.282	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Selenium	ND		5.42	1.63	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Silver	ND	^3+	1.08	0.434	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Thallium	ND		3.25	1.41	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Vanadium	**6.04**		1.08	0.466	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1
Zinc	**8.90**		2.17	0.867	mg/Kg	☼	03/07/23 19:52	03/09/23 07:18	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0663	0.0221	mg/Kg	☼	03/08/23 00:50	03/09/23 09:13	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0002' **Lab Sample ID: 620-10117-1**
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.6		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	90.4		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0204'
Date Collected: 03/02/23 14:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-2
Matrix: Solid
Percent Solids: 91.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00565	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Acetone	ND		0.0565	0.0127	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Acrylonitrile	ND		0.00565	0.00339	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Benzene	ND		0.00565	0.00377	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromobenzene	ND		0.00565	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromochloromethane	ND		0.00565	0.00321	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromodichloromethane	ND		0.00565	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromoform	ND		0.00565	0.00432	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Bromomethane	ND		0.0113	0.00704	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2-Butanone (MEK)	ND		0.0113	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
n-Butylbenzene	ND		0.0113	0.00606	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
sec-Butylbenzene	ND		0.00565	0.00455	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
tert-Butylbenzene	ND		0.00565	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Carbon disulfide	ND		0.0113	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Carbon tetrachloride	ND		0.00565	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chlorobenzene	ND		0.00565	0.00413	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chloroethane	ND		0.0113	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chloroform	ND		0.00565	0.00380	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Chloromethane	ND		0.0113	0.00434	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2-Chlorotoluene	ND		0.00565	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
4-Chlorotoluene	ND		0.00565	0.00490	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dibromo-3-Chloropropane	ND		0.0113	0.00479	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Dibromochloromethane	ND		0.00565	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dibromoethane (EDB)	ND		0.00565	0.00406	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Dibromomethane	ND		0.00565	0.00332	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dichlorobenzene	ND		0.00565	0.00524	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3-Dichlorobenzene	ND		0.00565	0.00453	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,4-Dichlorobenzene	ND		0.00565	0.00535	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Dichlorodifluoromethane (Freon 12)	ND		0.0113	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1-Dichloroethane	ND		0.00565	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dichloroethane	ND		0.00565	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1-Dichloroethene	ND		0.00565	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
cis-1,2-Dichloroethene	ND		0.00565	0.00326	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
trans-1,2-Dichloroethene	ND		0.00565	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2-Dichloropropane	ND		0.00565	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3-Dichloropropane	ND		0.00565	0.00432	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2,2-Dichloropropane	ND		0.00565	0.00390	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1-Dichloropropene	ND		0.00565	0.00384	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
cis-1,3-Dichloropropene	ND		0.00565	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
trans-1,3-Dichloropropene	ND		0.00565	0.00429	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethylbenzene	ND		0.00565	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Hexachlorobutadiene	ND		0.0113	0.00568	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
2-Hexanone (MBK)	ND		0.0113	0.00332	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Isopropylbenzene	ND		0.00565	0.00427	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
4-Isopropyltoluene	ND		0.00565	0.00555	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Methyl tert-butyl ether	ND		0.00565	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
4-Methyl-2-pentanone (MIBK)	ND		0.0113	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Methylene Chloride	ND		0.0113	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Naphthalene	ND		0.00565	0.00511	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1

Client Sample ID: 2023-MW-06-0204' **Lab Sample ID: 620-10117-2**
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00565	0.00478	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Styrene	ND		0.00565	0.00437	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,1,2-Tetrachloroethane	ND		0.00565	0.00424	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,2,2-Tetrachloroethane	ND		0.00565	0.00517	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Tetrachloroethene	ND		0.00565	0.00314	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Toluene	ND		0.00565	0.00358	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,3-Trichlorobenzene	ND		0.00565	0.00477	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,4-Trichlorobenzene	ND		0.00565	0.00521	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3,5-Trichlorobenzene	ND		0.00565	0.00537	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,1-Trichloroethane	ND		0.00565	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,1,2-Trichloroethane	ND		0.00565	0.00426	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Trichloroethene	ND		0.00565	0.00380	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Trichlorofluoromethane (Freon 11)	ND		0.00565	0.00432	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,3-Trichloropropane	ND		0.00565	0.00502	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,2,4-Trimethylbenzene	ND		0.00565	0.00478	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3,5-Trimethylbenzene	ND		0.00565	0.00480	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Vinyl chloride	ND		0.00565	0.00345	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
m,p-Xylene	ND		0.00565	0.00772	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
o-Xylene	ND		0.00565	0.00412	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Tetrahydrofuran	ND		0.0113	0.00286	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethyl ether	ND		0.00565	0.00297	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Tert-amyl methyl ether	ND		0.00565	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethyl tert-butyl ether	ND		0.00565	0.00372	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
di-Isopropyl ether	ND		0.00565	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
tert-Butanol	ND		0.113	0.0303	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,4-Dioxane	ND		0.113	0.0351	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
trans-1,4-Dichloro-2-butene	ND		0.0282	0.00417	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Ethanol	ND		1.13	0.0700	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
1,3-Dichloropropene, Total	ND		0.00565	0.00429	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1
Xylenes, Total	ND		0.0169	0.00565	mg/Kg	☼	03/07/23 09:52	03/07/23 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 22:13*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.353	0.0628	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,2,4-Trichlorobenzene	ND		0.353	0.0809	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,2-Dichlorobenzene	ND		0.353	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,3-Dichlorobenzene	ND		0.353	0.0855	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1,4-Dichlorobenzene	ND		0.353	0.0831	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
1-Methylnaphthalene	ND		0.0714	0.0599	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4,5-Trichlorophenol	ND		0.353	0.0404	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4,6-Trichlorophenol	ND		0.179	0.0437	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4-Dichlorophenol	ND		0.179	0.0711	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4-Dimethylphenol	ND		0.353	0.0518	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,4-Dinitrophenol	ND		0.353	0.0929	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0204'
Date Collected: 03/02/23 14:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-2
Matrix: Solid
Percent Solids: 91.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2,6-Dinitrotoluene	ND		0.179	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Chloronaphthalene	ND		0.353	0.0816	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Chlorophenol	ND		0.179	0.0731	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Methylnaphthalene	ND		0.0714	0.0527	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Methylphenol	ND		0.353	0.0516	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Nitroaniline	ND		0.353	0.0336	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
2-Nitrophenol	ND		0.179	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
3 & 4 Methylphenol	ND		0.353	0.0669	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
3,3'-Dichlorobenzidine	ND		0.353	0.0583	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
3-Nitroaniline	ND		0.353	0.0316	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4,6-Dinitro-2-methylphenol	ND		0.353	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Bromophenyl phenyl ether	ND		0.353	0.0399	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Chloro-3-methylphenol	ND		0.353	0.0691	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Chlorophenyl phenyl ether	ND		0.353	0.0378	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Nitroaniline	ND		0.179	0.0564	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
4-Nitrophenol	ND		0.353	0.123	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Acenaphthene	ND		0.0714	0.0569	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Acenaphthylene	ND		0.0714	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Acetophenone	ND		0.179	0.0435	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Aniline	ND		0.353	0.0271	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Anthracene	ND		0.0714	0.0413	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Azobenzene/Diphenyldiazene	ND		0.353	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzidine	ND		0.706	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[a]anthracene	ND		0.0714	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[a]pyrene	ND		0.0714	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[b]fluoranthene	ND		0.0714	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[g,h,i]perylene	ND		0.0714	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzo[k]fluoranthene	ND		0.0714	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzoic acid	ND	*- *1	0.353	0.243	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Benzyl alcohol	ND		0.353	0.0640	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Bis(2-chloroethoxy)methane	ND		0.353	0.0614	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Bis(2-chloroethyl)ether	ND		0.179	0.0584	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0795	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Bis(2-ethylhexyl) phthalate	ND		0.179	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Butyl benzyl phthalate	ND		0.353	0.0354	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Carbazole	ND		0.179	0.0468	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Chrysene	ND		0.0714	0.0403	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Dibenz(a,h)anthracene	ND		0.0714	0.0545	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Dibenzofuran	ND		0.179	0.0618	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Diethyl phthalate	ND		0.353	0.0387	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Dimethyl phthalate	ND		0.353	0.0460	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Di-n-butyl phthalate	ND		0.353	0.0378	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Di-n-octyl phthalate	ND		0.353	0.0583	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Fluoranthene	ND		0.0714	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Fluorene	ND		0.0714	0.0652	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Hexachlorobenzene	ND		0.179	0.0495	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Hexachlorobutadiene	ND		0.179	0.0891	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2

Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0683	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Hexachloroethane	ND		0.179	0.0702	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0714	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Isophorone	ND		0.179	0.0489	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Naphthalene	ND		0.0714	0.0685	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Nitrobenzene	ND		0.179	0.0825	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
N-Nitrosodimethylamine	ND		0.179	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0711	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
N-Nitrosodiphenylamine	ND		0.353	0.0450	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pentachloronitrobenzene	ND		0.353	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pentachlorophenol	ND		0.353	0.144	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Phenanthrene	ND		0.0714	0.0404	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Phenol	ND		0.353	0.0728	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pyrene	ND		0.0714	0.0394	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1
Pyridine	ND		0.353	0.0836	mg/Kg	☼	03/13/23 11:00	03/14/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
2-Fluorophenol (Surr)	*98*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:27*	*1*
Terphenyl-d14	*82*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:27*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.270	0.138	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.270	0.115	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Ethylbenzene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Methyl tert-butyl ether	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
m,p-Xylene	ND		0.108	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Naphthalene	ND		0.0540	0.0367	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
o-Xylene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
Toluene	ND		0.0540	0.0108	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.270	0.138	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
C9-C10 Aromatics	ND		0.270	0.0378	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.270	0.115	mg/Kg	☼	03/07/23 07:22	03/07/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/07/23 07:22*	*03/07/23 16:34*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 16:34*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0217	0.0157	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1221	ND		0.0217	0.00642	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1232	ND		0.0217	0.00602	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1

Client Sample ID: 2023-MW-06-0204' **Lab Sample ID: 620-10117-2**
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0217	0.00343	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1248	ND		0.0217	0.00679	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1254	ND		0.0217	0.0169	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1262	ND		0.0217	0.00506	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1260	ND		0.0217	0.00467	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1
PCB-1268	ND		0.0217	0.00463	mg/Kg	☼	03/09/23 15:26	03/11/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*
Tetrachloro-m-xylene	*103*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:11*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoroheptanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorononanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorodecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorotridecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorotetradecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorobutanesulfonic acid	ND		2.11	0.421	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorohexanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NEtFOSAA	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NMeFOSAA	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
10:2 FTS	ND		2.11	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoropentanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoroheptanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorononanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorodecanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctanesulfonamide	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorohexadecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorooctadecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorobutanoic acid	ND		2.11	0.842	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoropentanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NMeFOSE	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NMeFOSA	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NEtFOSE	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
NEtFOSA	ND		2.11	0.527	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
HFPODA	ND		2.11	1.05	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
DONA	ND		3.16	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
9Cl-PF3ONS	ND		2.11	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
11Cl-PF3OUdS	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluorododecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.11	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
Perfluoroundecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1

Client Sample ID: 2023-MW-06-0204' **Lab Sample ID: 620-10117-2**
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.11	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.16	0.632	ug/Kg	☼	03/07/23 22:53	03/15/23 23:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
M2-8:2 FTS	*80*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
M2-6:2 FTS	*95*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C5 PFHxA	*88*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C4 PFHpA	*92*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C8 PFOA	*94*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C9 PFNA	*97*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C6 PFDA	*95*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C7 PFUnA	*102*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C2-PFDoDA	*90*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C3 PFBS	*111*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C3 PFHxS	*92*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d3-NMeFOSAA	*20*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C8 FOSA	*100*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C5 PFPeA	*83*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d7-N-MeFOSE-M	*106*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d3-NMePFOSA	*78*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d9-N-EtFOSE-M	*109*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:19*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:19*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.12	1.74	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Arsenic	**4.35**		3.07	1.43	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Barium	**12.3**		0.512	0.154	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Beryllium	**0.230**	**J**	0.512	0.102	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Cadmium	ND		0.512	0.102	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Chromium	**3.20**		1.54	0.358	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Lead	**2.74**		1.54	0.614	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Nickel	**1.57**		1.02	0.266	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Selenium	ND		5.12	1.54	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Silver	ND	^3+	1.02	0.409	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Thallium	ND		3.07	1.33	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Vanadium	**5.25**		1.02	0.440	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1
Zinc	**6.55**		2.05	0.819	mg/Kg	☼	03/07/23 19:52	03/09/23 07:21	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0657	0.0219	mg/Kg	☼	03/08/23 00:50	03/09/23 09:16	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0204'
Date Collected: 03/02/23 14:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-2
Matrix: Solid
Percent Solids: 91.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.7		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	91.3		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0406'
Date Collected: 03/02/23 14:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-3
Matrix: Solid
Percent Solids: 94.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Acetone	ND		0.0500	0.0112	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Benzene	ND		0.00500	0.00334	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromoform	ND		0.00500	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Bromomethane	ND		0.0100	0.00623	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chloroethane	ND		0.0100	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chloroform	ND		0.00500	0.00336	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Chloromethane	ND		0.0100	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Naphthalene	ND		0.00500	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Styrene	ND		0.00500	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Toluene	ND		0.00500	0.00317	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
o-Xylene	ND		0.00500	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
tert-Butanol	ND		0.100	0.0268	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Ethanol	ND		1.00	0.0620	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg	☼	03/08/23 10:32	03/08/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:55*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.350	0.0623	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,2,4-Trichlorobenzene	ND		0.350	0.0803	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,2-Dichlorobenzene	ND		0.350	0.0675	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,3-Dichlorobenzene	ND		0.350	0.0848	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1,4-Dichlorobenzene	ND		0.350	0.0825	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
1-Methylnaphthalene	ND		0.0708	0.0595	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4,5-Trichlorophenol	ND		0.350	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4,6-Trichlorophenol	ND		0.177	0.0433	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4-Dichlorophenol	ND		0.177	0.0706	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4-Dimethylphenol	ND		0.350	0.0514	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,4-Dinitrophenol	ND		0.350	0.0922	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0406'
Date Collected: 03/02/23 14:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-3
Matrix: Solid
Percent Solids: 94.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2,6-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Chloronaphthalene	ND		0.350	0.0810	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Chlorophenol	ND		0.177	0.0725	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Methylnaphthalene	ND		0.0708	0.0523	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Methylphenol	ND		0.350	0.0512	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Nitroaniline	ND		0.350	0.0333	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
2-Nitrophenol	ND		0.177	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
3 & 4 Methylphenol	ND		0.350	0.0664	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
3,3'-Dichlorobenzidine	ND		0.350	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
3-Nitroaniline	ND		0.350	0.0313	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4,6-Dinitro-2-methylphenol	ND		0.350	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Bromophenyl phenyl ether	ND		0.350	0.0396	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Chloro-3-methylphenol	ND		0.350	0.0686	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Chloroaniline	ND		0.177	0.0269	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Chlorophenyl phenyl ether	ND		0.350	0.0375	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Nitroaniline	ND		0.177	0.0559	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
4-Nitrophenol	ND		0.350	0.122	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Acenaphthene	ND		0.0708	0.0565	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Acenaphthylene	ND		0.0708	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Acetophenone	ND		0.177	0.0432	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Aniline	ND		0.350	0.0269	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Anthracene	ND		0.0708	0.0410	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Azobenzene/Diphenyldiazene	ND		0.350	0.0598	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzidine	ND		0.701	0.104	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[a]anthracene	ND		0.0708	0.0398	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[a]pyrene	ND		0.0708	0.0506	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[b]fluoranthene	ND		0.0708	0.0587	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[g,h,i]perylene	ND		0.0708	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzo[k]fluoranthene	ND		0.0708	0.0551	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzoic acid	ND	*- *1	0.350	0.241	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Benzyl alcohol	ND		0.350	0.0635	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Bis(2-chloroethoxy)methane	ND		0.350	0.0609	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Bis(2-chloroethyl)ether	ND		0.177	0.0580	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
bis (2-chloroisopropyl) ether	ND		0.177	0.0789	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Bis(2-ethylhexyl) phthalate	ND		0.177	0.0451	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Butyl benzyl phthalate	ND		0.350	0.0351	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Carbazole	ND		0.177	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Chrysene	ND		0.0708	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Dibenz(a,h)anthracene	ND		0.0708	0.0540	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Dibenzofuran	ND		0.177	0.0614	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Diethyl phthalate	ND		0.350	0.0384	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Dimethyl phthalate	ND		0.350	0.0457	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Di-n-butyl phthalate	ND		0.350	0.0375	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Di-n-octyl phthalate	ND		0.350	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Fluoranthene	ND		0.0708	0.0415	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Fluorene	ND		0.0708	0.0647	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Hexachlorobenzene	ND		0.177	0.0492	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Hexachlorobutadiene	ND		0.177	0.0884	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.177	0.0677	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Hexachloroethane	ND		0.177	0.0696	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0708	0.0601	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Isophorone	ND		0.177	0.0485	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Naphthalene	ND		0.0708	0.0679	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Nitrobenzene	ND		0.177	0.0819	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
N-Nitrosodimethylamine	ND		0.177	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
N-Nitrosodi-n-propylamine	ND		0.177	0.0706	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
N-Nitrosodiphenylamine	ND		0.350	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pentachloronitrobenzene	ND		0.350	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pentachlorophenol	ND		0.350	0.143	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Phenanthrene	ND		0.0708	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Phenol	ND		0.350	0.0722	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pyrene	ND		0.0708	0.0391	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1
Pyridine	ND		0.350	0.0829	mg/Kg	☼	03/13/23 11:00	03/14/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/13/23 11:00*	*03/14/23 18:30*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/13/23 11:00*	*03/14/23 18:30*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.283	0.145	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.283	0.121	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Ethylbenzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Methyl tert-butyl ether	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Naphthalene	ND		0.0565	0.0384	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
o-Xylene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
Toluene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
C5-C8 Aliphatics (unadjusted)	ND		0.283	0.145	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
C9-C10 Aromatics	ND		0.283	0.0396	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1
C9-C12 Aliphatics (unadjusted)	ND		0.283	0.121	mg/Kg	☼	03/07/23 07:22	03/07/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:13*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:13*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1221	ND		0.0208	0.00615	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1232	ND		0.0208	0.00577	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1254	ND		0.0208	0.0162	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1262	ND		0.0208	0.00485	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1260	ND		0.0208	0.00448	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/09/23 15:26	03/11/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*114*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoroheptanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorononanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorodecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorotridecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorotetradecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorobutanesulfonic acid	ND		2.04	0.409	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorohexanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NEtFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NMeFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
10:2 FTS	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoropentanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoroheptanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorononanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorodecanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctanesulfonamide	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorohexadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorooctadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorobutanoic acid	ND		2.04	0.818	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoropentanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NMeFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NMeFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NEtFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
NEtFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
HFPODA	ND		2.04	1.02	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
DONA	ND		3.07	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
9Cl-PF3ONS	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
11Cl-PF3OUdS	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluorododecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
4:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
Perfluoroundecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1

Client Sample ID: 2023-MW-06-0406' **Lab Sample ID: 620-10117-3**
Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1
8:2 Fluorotelomer sulfonic acid	ND		3.07	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
M2-8:2 FTS	*92*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
M2-6:2 FTS	*108*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C5 PFHxA	*100*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C8 PFOA	*111*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C9 PFNA	*110*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C7 PFUnA	*121*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C2-PFDoDA	*112*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d3-NMeFOSAA	*44*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d5-NEtFOSAA	*54*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C8 FOSA	*76*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C5 PFPeA	*86*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d7-N-MeFOSE-M	*77*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d3-NMePFOSA	*65*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d9-N-EtFOSE-M	*86*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
d5-NEtPFOSA	*67*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:31*	*1*
13C3 HFPO-DA	*82*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:31*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.66	1.59	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Arsenic	**2.47**	**J**	2.80	1.31	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Barium	**11.9**		0.466	0.140	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Beryllium	**0.206**	**J**	0.466	0.0932	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Cadmium	ND		0.466	0.0932	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Chromium	**2.95**		1.40	0.326	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Lead	**2.16**		1.40	0.559	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Nickel	**1.32**		0.932	0.242	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Selenium	ND		4.66	1.40	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Silver	ND	^3+	0.932	0.373	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Thallium	ND		2.80	1.21	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Vanadium	**4.39**		0.932	0.401	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1
Zinc	**5.24**		1.86	0.746	mg/Kg	☼	03/07/23 19:52	03/09/23 06:27	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0617	0.0206	mg/Kg	☼	03/08/23 00:46	03/09/23 08:08	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0406'
Date Collected: 03/02/23 14:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-3
Matrix: Solid
Percent Solids: 94.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.9		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	94.1		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0608'
Date Collected: 03/02/23 14:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-4
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00532	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Acetone	ND		0.0532	0.0119	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Acrylonitrile	ND		0.00532	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Benzene	ND		0.00532	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromobenzene	ND		0.00532	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromochloromethane	ND		0.00532	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromodichloromethane	ND		0.00532	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromoform	ND		0.00532	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Bromomethane	ND		0.0106	0.00663	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2-Butanone (MEK)	ND		0.0106	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
n-Butylbenzene	ND		0.0106	0.00570	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
sec-Butylbenzene	ND		0.00532	0.00429	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
tert-Butylbenzene	ND		0.00532	0.00419	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Carbon disulfide	ND		0.0106	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Carbon tetrachloride	ND		0.00532	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chlorobenzene	ND		0.00532	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chloroethane	ND		0.0106	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chloroform	ND		0.00532	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Chloromethane	ND		0.0106	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2-Chlorotoluene	ND		0.00532	0.00423	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
4-Chlorotoluene	ND		0.00532	0.00462	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Dibromochloromethane	ND		0.00532	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dibromoethane (EDB)	ND		0.00532	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Dibromomethane	ND		0.00532	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dichlorobenzene	ND		0.00532	0.00494	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3-Dichlorobenzene	ND		0.00532	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,4-Dichlorobenzene	ND		0.00532	0.00504	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Dichlorodifluoromethane (Freon 12)	ND		0.0106	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1-Dichloroethane	ND		0.00532	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dichloroethane	ND		0.00532	0.00358	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1-Dichloroethene	ND		0.00532	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
cis-1,2-Dichloroethene	ND		0.00532	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
trans-1,2-Dichloroethene	ND		0.00532	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2-Dichloropropane	ND		0.00532	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3-Dichloropropane	ND		0.00532	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2,2-Dichloropropane	ND		0.00532	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1-Dichloropropene	ND		0.00532	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
cis-1,3-Dichloropropene	ND		0.00532	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
trans-1,3-Dichloropropene	ND		0.00532	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethylbenzene	ND		0.00532	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Hexachlorobutadiene	ND		0.0106	0.00535	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
2-Hexanone (MBK)	ND		0.0106	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Isopropylbenzene	ND		0.00532	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
4-Isopropyltoluene	ND		0.00532	0.00522	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Methyl tert-butyl ether	ND		0.00532	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Methylene Chloride	ND		0.0106	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Naphthalene	ND		0.00532	0.00481	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00532	0.00450	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Styrene	ND		0.00532	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,1,2-Tetrachloroethane	ND		0.00532	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,2,2-Tetrachloroethane	ND		0.00532	0.00487	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Tetrachloroethene	ND		0.00532	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Toluene	ND		0.00532	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,3-Trichlorobenzene	ND		0.00532	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,4-Trichlorobenzene	ND		0.00532	0.00490	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3,5-Trichlorobenzene	ND		0.00532	0.00505	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,1-Trichloroethane	ND		0.00532	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,1,2-Trichloroethane	ND		0.00532	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Trichloroethene	ND		0.00532	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Trichlorofluoromethane (Freon 11)	ND		0.00532	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,3-Trichloropropane	ND		0.00532	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,2,4-Trimethylbenzene	ND		0.00532	0.00450	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3,5-Trimethylbenzene	ND		0.00532	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Vinyl chloride	ND		0.00532	0.00324	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
m,p-Xylene	ND		0.00532	0.00727	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
o-Xylene	ND		0.00532	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Tetrahydrofuran	ND		0.0106	0.00269	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethyl ether	ND		0.00532	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Tert-amyl methyl ether	ND		0.00532	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethyl tert-butyl ether	ND		0.00532	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
di-Isopropyl ether	ND		0.00532	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
tert-Butanol	ND		0.106	0.0285	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,4-Dioxane	ND		0.106	0.0331	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
trans-1,4-Dichloro-2-butene	ND		0.0266	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Ethanol	ND		1.06	0.0660	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
1,3-Dichloropropene, Total	ND		0.00532	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1
Xylenes, Total	ND		0.0160	0.00532	mg/Kg	☼	03/08/23 10:32	03/08/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:20*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0647	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,2,4-Trichlorobenzene	ND		0.364	0.0833	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,2-Dichlorobenzene	ND		0.364	0.0701	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,3-Dichlorobenzene	ND		0.364	0.0881	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
1-Methylnaphthalene	ND		0.0735	0.0617	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4-Dichlorophenol	ND		0.184	0.0733	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,4-Dinitrophenol	ND		0.364	0.0957	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0608'
Date Collected: 03/02/23 14:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-4
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Chloronaphthalene	ND		0.364	0.0841	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Chlorophenol	ND		0.184	0.0753	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Methylnaphthalene	ND		0.0735	0.0544	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Methylphenol	ND		0.364	0.0531	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Nitroaniline	ND		0.364	0.0346	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
3 & 4 Methylphenol	ND		0.364	0.0689	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
3-Nitroaniline	ND		0.364	0.0325	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Bromophenyl phenyl ether	ND		0.364	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Chloro-3-methylphenol	ND		0.364	0.0712	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0389	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Nitroaniline	ND		0.184	0.0581	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Acenaphthene	ND		0.0735	0.0587	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Acenaphthylene	ND		0.0735	0.0483	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Anthracene	ND		0.0735	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzidine	ND		0.728	0.108	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[a]anthracene	ND		0.0735	0.0413	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[a]pyrene	ND		0.0735	0.0526	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[b]fluoranthene	ND		0.0735	0.0610	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[g,h,i]perylene	ND		0.0735	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzo[k]fluoranthene	ND		0.0735	0.0572	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzoic acid	ND	*- *1	0.364	0.250	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Benzyl alcohol	ND		0.364	0.0659	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Bis(2-chloroethyl)ether	ND		0.184	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0819	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Bis(2-ethylhexyl) phthalate	ND		0.184	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Butyl benzyl phthalate	ND		0.364	0.0365	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Chrysene	ND		0.0735	0.0416	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Dibenz(a,h)anthracene	ND		0.0735	0.0561	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Dibenzofuran	ND		0.184	0.0637	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Dimethyl phthalate	ND		0.364	0.0474	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Di-n-butyl phthalate	ND		0.364	0.0389	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Fluoranthene	ND		0.0735	0.0431	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Fluorene	ND		0.0735	0.0671	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Hexachlorobenzene	ND		0.184	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Hexachlorobutadiene	ND		0.184	0.0918	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.184	0.0703	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Hexachloroethane	ND		0.184	0.0723	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0735	0.0624	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Naphthalene	ND		0.0735	0.0706	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Nitrobenzene	ND		0.184	0.0850	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0733	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
N-Nitrosodiphenylamine	ND		0.364	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pentachloronitrobenzene	ND		0.364	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Phenanthrene	ND		0.0735	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pyrene	ND		0.0735	0.0406	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1
Pyridine	ND		0.364	0.0861	mg/Kg	☼	03/13/23 11:00	03/14/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
2-Fluorophenol (Surr)	*105*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
Phenol-d5 (Surr)	*91*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/13/23 11:00*	*03/14/23 19:56*	*1*
Terphenyl-d14	*84*		*30 - 130*	*03/13/23 11:00*	*03/14/23 19:56*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.114	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Ethylbenzene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Methyl tert-butyl ether	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Naphthalene	ND		0.0531	0.0361	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
o-Xylene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
Toluene	ND		0.0531	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
C9-C10 Aromatics	ND		0.265	0.0372	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.114	mg/Kg	☼	03/07/23 07:22	03/07/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:52*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 17:52*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0214	0.0154	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1221	ND		0.0214	0.00631	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1232	ND		0.0214	0.00591	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0214	0.00337	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1248	ND		0.0214	0.00667	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1254	ND		0.0214	0.0166	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1262	ND		0.0214	0.00497	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1260	ND		0.0214	0.00459	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1
PCB-1268	ND		0.0214	0.00455	mg/Kg	☼	03/09/23 15:26	03/11/23 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*	*03/09/23 15:26*	*03/11/23 02:49*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoroheptanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorononanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorodecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorotridecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorotetradecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorobutanesulfonic acid	ND		2.04	0.409	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorohexanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NEtFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NMeFOSAA	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
10:2 FTS	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoropentanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoroheptanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorononanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorodecanesulfonic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctanesulfonamide	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorohexadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorooctadecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorobutanoic acid	ND		2.04	0.818	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoropentanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NMeFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NMeFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NEtFOSE	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
NEtFOSA	ND		2.04	0.511	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
HFPODA	ND		2.04	1.02	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
DONA	ND		3.07	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
9Cl-PF3ONS	ND		2.04	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
11Cl-PF3OUdS	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluorododecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
4:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
Perfluoroundecanoic acid	ND		0.613	0.204	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1

Client Sample ID: 2023-MW-06-0608' **Lab Sample ID: 620-10117-4**
Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.04	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1
8:2 Fluorotelomer sulfonic acid	ND		3.07	0.613	ug/Kg	☼	03/07/23 22:53	03/15/23 23:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
M2-8:2 FTS	*104*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
M2-6:2 FTS	*102*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C5 PFHxA	*108*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C4 PFHpA	*111*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C8 PFOA	*109*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C6 PFDA	*110*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C2 PFTeDA	*128*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C8 PFOS	*115*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d3-NMeFOSAA	*69*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d5-NEtFOSAA	*73*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d3-NMePFOSA	*112*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d9-N-EtFOSE-M	*123*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
d5-NEtPFOSA	*114*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:42*	*1*
13C3 HFPO-DA	*95*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:42*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.12	1.40	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Arsenic	**3.33**		2.47	1.15	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Barium	**18.2**		0.412	0.124	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Beryllium	**0.288**	**J**	0.412	0.0824	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Cadmium	ND		0.412	0.0824	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Chromium	**5.75**		1.24	0.288	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Lead	**2.43**		1.24	0.494	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Nickel	**2.49**		0.824	0.214	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Selenium	ND		4.12	1.24	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Silver	ND	^3+	0.824	0.330	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Thallium	ND		2.47	1.07	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Vanadium	**9.14**		0.824	0.354	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1
Zinc	**11.2**		1.65	0.659	mg/Kg	☼	03/07/23 19:52	03/09/23 07:12	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0621	0.0207	mg/Kg	☼	03/08/23 00:50	03/09/23 09:27	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0608'
Date Collected: 03/02/23 14:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-4
Matrix: Solid
Percent Solids: 90.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	90.6		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0810'
Date Collected: 03/02/23 14:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-5
Matrix: Solid
Percent Solids: 79.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00552	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Acetone	ND		0.0552	0.0124	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Acrylonitrile	ND		0.00552	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Benzene	ND		0.00552	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromobenzene	ND		0.00552	0.00368	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromochloromethane	ND		0.00552	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromodichloromethane	ND		0.00552	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromoform	ND		0.00552	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Bromomethane	ND		0.0110	0.00688	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2-Butanone (MEK)	ND		0.0110	0.00440	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
n-Butylbenzene	ND		0.0110	0.00592	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
sec-Butylbenzene	ND		0.00552	0.00445	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
tert-Butylbenzene	ND		0.00552	0.00435	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Carbon disulfide	ND		0.0110	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Carbon tetrachloride	ND		0.00552	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chlorobenzene	ND		0.00552	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chloroethane	ND		0.0110	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chloroform	ND		0.00552	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Chloromethane	ND		0.0110	0.00424	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2-Chlorotoluene	ND		0.00552	0.00440	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
4-Chlorotoluene	ND		0.00552	0.00479	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0110	0.00468	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Dibromochloromethane	ND		0.00552	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dibromoethane (EDB)	ND		0.00552	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Dibromomethane	ND		0.00552	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dichlorobenzene	ND		0.00552	0.00512	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3-Dichlorobenzene	ND		0.00552	0.00443	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,4-Dichlorobenzene	ND		0.00552	0.00524	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.0110	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1-Dichloroethane	ND		0.00552	0.00374	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dichloroethane	ND		0.00552	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1-Dichloroethene	ND		0.00552	0.00338	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
cis-1,2-Dichloroethene	ND		0.00552	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
trans-1,2-Dichloroethene	ND		0.00552	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2-Dichloropropane	ND		0.00552	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3-Dichloropropane	ND		0.00552	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2,2-Dichloropropane	ND		0.00552	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1-Dichloropropene	ND		0.00552	0.00376	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
cis-1,3-Dichloropropene	ND		0.00552	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
trans-1,3-Dichloropropene	ND		0.00552	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethylbenzene	ND		0.00552	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Hexachlorobutadiene	ND		0.0110	0.00556	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
2-Hexanone (MBK)	ND		0.0110	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Isopropylbenzene	ND		0.00552	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
4-Isopropyltoluene	ND		0.00552	0.00542	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Methyl tert-butyl ether	ND		0.00552	0.00318	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Methylene Chloride	ND		0.0110	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Naphthalene	ND		0.00552	0.00499	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0810'
Date Collected: 03/02/23 14:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-5
Matrix: Solid
Percent Solids: 79.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00552	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Styrene	ND		0.00552	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,1,2-Tetrachloroethane	ND		0.00552	0.00414	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,2,2-Tetrachloroethane	ND		0.00552	0.00506	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Tetrachloroethene	ND		0.00552	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Toluene	ND		0.00552	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,3-Trichlorobenzene	ND		0.00552	0.00466	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,4-Trichlorobenzene	ND		0.00552	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3,5-Trichlorobenzene	ND		0.00552	0.00525	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,1-Trichloroethane	ND		0.00552	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,1,2-Trichloroethane	ND		0.00552	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Trichloroethene	ND		0.00552	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00552	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,3-Trichloropropane	ND		0.00552	0.00490	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,2,4-Trimethylbenzene	ND		0.00552	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3,5-Trimethylbenzene	ND		0.00552	0.00469	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Vinyl chloride	ND		0.00552	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
m,p-Xylene	ND		0.00552	0.00754	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
o-Xylene	ND		0.00552	0.00403	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Tetrahydrofuran	ND		0.0110	0.00279	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethyl ether	ND		0.00552	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Tert-amyl methyl ether	ND		0.00552	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethyl tert-butyl ether	ND		0.00552	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
di-Isopropyl ether	ND		0.00552	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
tert-Butanol	ND		0.110	0.0296	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,4-Dioxane	ND		0.110	0.0343	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
trans-1,4-Dichloro-2-butene	ND		0.0276	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Ethanol	ND		1.10	0.0685	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
1,3-Dichloropropene, Total	ND		0.00552	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1
Xylenes, Total	ND		0.0166	0.00552	mg/Kg	☼	03/08/23 10:32	03/08/23 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 17:45*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.417	0.0741	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,2,4-Trichlorobenzene	ND		0.417	0.0954	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,2-Dichlorobenzene	ND		0.417	0.0803	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,3-Dichlorobenzene	ND		0.417	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1,4-Dichlorobenzene	ND		0.417	0.0981	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
1-Methylnaphthalene	ND		0.0842	0.0707	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4,5-Trichlorophenol	ND		0.417	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4,6-Trichlorophenol	ND		0.211	0.0515	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4-Dichlorophenol	ND		0.211	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4-Dimethylphenol	ND		0.417	0.0611	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,4-Dinitrophenol	ND		0.417	0.110	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-0810'
Date Collected: 03/02/23 14:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-5
Matrix: Solid
Percent Solids: 79.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.211	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2,6-Dinitrotoluene	ND		0.211	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Chloronaphthalene	ND		0.417	0.0963	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Chlorophenol	ND		0.211	0.0862	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Methylnaphthalene	ND		0.0842	0.0622	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Methylphenol	ND		0.417	0.0608	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Nitroaniline	ND		0.417	0.0396	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
2-Nitrophenol	ND		0.211	0.0749	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
3 & 4 Methylphenol	ND		0.417	0.0789	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
3,3'-Dichlorobenzidine	ND		0.417	0.0688	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
3-Nitroaniline	ND		0.417	0.0372	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4,6-Dinitro-2-methylphenol	ND		0.417	0.0749	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Bromophenyl phenyl ether	ND		0.417	0.0471	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Chloro-3-methylphenol	ND		0.417	0.0816	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Chloroaniline	ND		0.211	0.0319	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Chlorophenyl phenyl ether	ND		0.417	0.0446	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Nitroaniline	ND		0.211	0.0665	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
4-Nitrophenol	ND		0.417	0.145	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Acenaphthene	ND		0.0842	0.0672	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Acenaphthylene	ND		0.0842	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Acetophenone	ND		0.211	0.0514	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Aniline	ND		0.417	0.0319	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Anthracene	ND		0.0842	0.0487	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Azobenzene/Diphenyldiazene	ND		0.417	0.0711	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzidine	ND		0.833	0.123	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[a]anthracene	ND		0.0842	0.0473	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[a]pyrene	ND		0.0842	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[b]fluoranthene	ND		0.0842	0.0698	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[g,h,i]perylene	ND		0.0842	0.0658	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzo[k]fluoranthene	ND		0.0842	0.0655	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzoic acid	ND	*- *1	0.417	0.287	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Benzyl alcohol	ND		0.417	0.0755	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Bis(2-chloroethoxy)methane	ND		0.417	0.0725	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Bis(2-chloroethyl)ether	ND		0.211	0.0689	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
bis (2-chloroisopropyl) ether	ND		0.211	0.0938	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Bis(2-ethylhexyl) phthalate	ND		0.211	0.0537	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Butyl benzyl phthalate	ND		0.417	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Carbazole	ND		0.211	0.0552	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Chrysene	ND		0.0842	0.0476	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Dibenz(a,h)anthracene	ND		0.0842	0.0643	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Dibenzofuran	ND		0.211	0.0730	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Diethyl phthalate	ND		0.417	0.0457	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Dimethyl phthalate	ND		0.417	0.0543	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Di-n-butyl phthalate	ND		0.417	0.0446	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Di-n-octyl phthalate	ND		0.417	0.0688	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Fluoranthene	ND		0.0842	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Fluorene	ND		0.0842	0.0769	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Hexachlorobenzene	ND		0.211	0.0585	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Hexachlorobutadiene	ND		0.211	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.211	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Hexachloroethane	ND		0.211	0.0828	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0842	0.0715	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Isophorone	ND		0.211	0.0577	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Naphthalene	ND		0.0842	0.0808	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Nitrobenzene	ND		0.211	0.0973	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
N-Nitrosodimethylamine	ND		0.211	0.0553	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
N-Nitrosodi-n-propylamine	ND		0.211	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
N-Nitrosodiphenylamine	ND		0.417	0.0531	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pentachloronitrobenzene	ND		0.417	0.0658	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pentachlorophenol	ND		0.417	0.170	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Phenanthrene	ND		0.0842	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Phenol	ND		0.417	0.0858	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pyrene	ND		0.0842	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1
Pyridine	ND		0.417	0.0986	mg/Kg	☼	03/13/23 11:00	03/14/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
2-Fluorophenol (Surr)	*115*	*S1+*	*15 - 110*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
Nitrobenzene-d5 (Surr)	*96*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
Phenol-d5 (Surr)	*101*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:24*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:24*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.281	0.144	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.281	0.120	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Ethylbenzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Methyl tert-butyl ether	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
m,p-Xylene	ND		0.112	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Naphthalene	ND		0.0562	0.0382	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
o-Xylene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
Toluene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
C5-C8 Aliphatics (unadjusted)	ND		0.281	0.144	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
C9-C10 Aromatics	ND		0.281	0.0394	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1
C9-C12 Aliphatics (unadjusted)	ND		0.281	0.120	mg/Kg	☼	03/07/23 07:22	03/07/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 18:32*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 18:32*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0252	0.0181	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1221	ND		0.0252	0.00744	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1232	ND		0.0252	0.00697	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0252	0.00398	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1248	ND		0.0252	0.00786	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1254	ND		0.0252	0.0196	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1262	ND		0.0252	0.00586	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1260	ND		0.0252	0.00541	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1
PCB-1268	ND		0.0252	0.00536	mg/Kg	☼	03/09/23 15:26	03/11/23 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:08*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoroheptanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorononanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorodecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorotridecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorotetradecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorobutanesulfonic acid	ND		2.50	0.501	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorohexanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NEtFOSAA	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NMeFOSAA	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
10:2 FTS	ND		2.50	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoropentanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoroheptanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorononanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorodecanesulfonic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctanesulfonamide	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorohexadecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorooctadecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorobutanoic acid	ND		2.50	1.00	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoropentanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NMeFOSE	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NMeFOSA	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NEtFOSE	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
NEtFOSA	ND		2.50	0.626	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
HFPODA	ND		2.50	1.25	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
DONA	ND		3.75	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
9Cl-PF3ONS	ND		2.50	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
11Cl-PF3OUdS	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluorododecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
4:2 Fluorotelomer sulfonic acid	ND		2.50	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
Perfluoroundecanoic acid	ND		0.751	0.250	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.50	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1
8:2 Fluorotelomer sulfonic acid	ND		3.75	0.751	ug/Kg	☼	03/07/23 22:53	03/15/23 23:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
M2-8:2 FTS	*97*		*15 - 200*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C4 PFHpA	*111*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C3 PFBS	*124*		*27 - 179*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C8 PFOS	*116*		*41 - 154*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d3-NMeFOSAA	*41*		*10 - 178*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d5-NEtFOSAA	*42*		*10 - 193*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C4 PFBA	*114*		*28 - 153*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C5 PFPeA	*106*		*24 - 161*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d7-N-MeFOSE-M	*115*		*10 - 179*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d3-NMePFOSA	*113*		*10 - 175*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d9-N-EtFOSE-M	*120*		*10 - 185*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
d5-NEtPFOSA	*114*		*10 - 180*	*03/07/23 22:53*	*03/15/23 23:53*	*1*
13C3 HFPO-DA	*93*		*10 - 169*	*03/07/23 22:53*	*03/15/23 23:53*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.51	1.54	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Arsenic	**5.58**		2.71	1.26	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Barium	**44.5**		0.451	0.135	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Beryllium	**0.585**		0.451	0.0903	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Cadmium	ND		0.451	0.0903	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Chromium	**11.4**		1.35	0.316	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Lead	**4.75**		1.35	0.542	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Nickel	**5.39**		0.903	0.235	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Selenium	ND		4.51	1.35	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Silver	ND	^3+	0.903	0.361	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Thallium	ND		27.1	11.7	mg/Kg	☼	03/07/23 19:52	03/10/23 07:35	10
Vanadium	**19.6**		0.903	0.388	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1
Zinc	**24.2**		1.81	0.722	mg/Kg	☼	03/07/23 19:52	03/09/23 07:05	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0722	0.0241	mg/Kg	☼	03/07/23 20:58	03/08/23 12:21	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0810' **Lab Sample ID: 620-10117-5**
Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.9		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	79.1		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-1012'
Date Collected: 03/02/23 14:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-6
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Acetone	ND		0.0509	0.0114	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Acrylonitrile	ND		0.00509	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Benzene	ND		0.00509	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromobenzene	ND		0.00509	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromochloromethane	ND		0.00509	0.00289	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromodichloromethane	ND		0.00509	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromoform	ND		0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Bromomethane	ND		0.0102	0.00634	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2-Butanone (MEK)	ND		0.0102	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
n-Butylbenzene	ND		0.0102	0.00545	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
sec-Butylbenzene	ND		0.00509	0.00410	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
tert-Butylbenzene	ND		0.00509	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Carbon disulfide	ND		0.0102	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Carbon tetrachloride	ND		0.00509	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chlorobenzene	ND		0.00509	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chloroethane	ND		0.0102	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chloroform	ND		0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Chloromethane	ND		0.0102	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2-Chlorotoluene	ND		0.00509	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
4-Chlorotoluene	ND		0.00509	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dibromo-3-Chloropropane	ND		0.0102	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Dibromochloromethane	ND		0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dibromoethane (EDB)	ND		0.00509	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Dibromomethane	ND		0.00509	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dichlorobenzene	ND		0.00509	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3-Dichlorobenzene	ND		0.00509	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,4-Dichlorobenzene	ND		0.00509	0.00482	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Dichlorodifluoromethane (Freon 12)	ND		0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1-Dichloroethane	ND		0.00509	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dichloroethane	ND		0.00509	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1-Dichloroethene	ND		0.00509	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
cis-1,2-Dichloroethene	ND		0.00509	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
trans-1,2-Dichloroethene	ND		0.00509	0.00316	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2-Dichloropropane	ND		0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3-Dichloropropane	ND		0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2,2-Dichloropropane	ND		0.00509	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1-Dichloropropene	ND		0.00509	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
cis-1,3-Dichloropropene	ND		0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
trans-1,3-Dichloropropene	ND		0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethylbenzene	ND		0.00509	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Hexachlorobutadiene	ND		0.0102	0.00512	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
2-Hexanone (MBK)	ND		0.0102	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Isopropylbenzene	ND		0.00509	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
4-Isopropyltoluene	ND		0.00509	0.00499	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Methyl tert-butyl ether	ND		0.00509	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
4-Methyl-2-pentanone (MIBK)	ND		0.0102	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Methylene Chloride	ND		0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Naphthalene	ND		0.00509	0.00460	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1

Client Sample ID: 2023-MW-06-1012'
Lab Sample ID: 620-10117-6
Date Collected: 03/02/23 14:40
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 80.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00509	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Styrene	ND		0.00509	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,1,2-Tetrachloroethane	ND		0.00509	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,2,2-Tetrachloroethane	ND		0.00509	0.00466	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Tetrachloroethene	ND		0.00509	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Toluene	ND		0.00509	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,3-Trichlorobenzene	ND		0.00509	0.00429	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,4-Trichlorobenzene	ND		0.00509	0.00469	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3,5-Trichlorobenzene	ND		0.00509	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,1-Trichloroethane	ND		0.00509	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,1,2-Trichloroethane	ND		0.00509	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Trichloroethene	ND		0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Trichlorofluoromethane (Freon 11)	ND		0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,3-Trichloropropane	ND		0.00509	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,2,4-Trimethylbenzene	ND		0.00509	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3,5-Trimethylbenzene	ND		0.00509	0.00432	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Vinyl chloride	ND		0.00509	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
m,p-Xylene	ND		0.00509	0.00695	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
o-Xylene	ND		0.00509	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Tetrahydrofuran	ND		0.0102	0.00257	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethyl ether	ND		0.00509	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Tert-amyl methyl ether	ND		0.00509	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethyl tert-butyl ether	ND		0.00509	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
di-Isopropyl ether	ND		0.00509	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
tert-Butanol	ND		0.102	0.0273	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,4-Dioxane	ND		0.102	0.0316	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
trans-1,4-Dichloro-2-butene	ND		0.0254	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Ethanol	ND		1.02	0.0631	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
1,3-Dichloropropene, Total	ND		0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1
Xylenes, Total	ND		0.0153	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/08/23 10:32*	*03/08/23 18:12*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.401	0.0713	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,2,4-Trichlorobenzene	ND		0.401	0.0918	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,2-Dichlorobenzene	ND		0.401	0.0772	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,3-Dichlorobenzene	ND		0.401	0.0970	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1,4-Dichlorobenzene	ND		0.401	0.0943	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
1-Methylnaphthalene	ND		0.0810	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4,5-Trichlorophenol	ND		0.401	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4,6-Trichlorophenol	ND		0.203	0.0495	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4-Dichlorophenol	ND		0.203	0.0807	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4-Dimethylphenol	ND		0.401	0.0588	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,4-Dinitrophenol	ND		0.401	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-1012'
Date Collected: 03/02/23 14:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-6
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.203	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2,6-Dinitrotoluene	ND		0.203	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Chloronaphthalene	ND		0.401	0.0926	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Chlorophenol	ND		0.203	0.0829	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Methylnaphthalene	ND		0.0810	0.0598	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Methylphenol	ND		0.401	0.0585	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Nitroaniline	ND		0.401	0.0381	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
2-Nitrophenol	ND		0.203	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
3 & 4 Methylphenol	ND		0.401	0.0759	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
3,3'-Dichlorobenzidine	ND		0.401	0.0662	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
3-Nitroaniline	ND		0.401	0.0358	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4,6-Dinitro-2-methylphenol	ND		0.401	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Bromophenyl phenyl ether	ND		0.401	0.0453	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Chloro-3-methylphenol	ND		0.401	0.0784	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Chloroaniline	ND		0.203	0.0307	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Chlorophenyl phenyl ether	ND		0.401	0.0429	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Nitroaniline	ND		0.203	0.0640	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
4-Nitrophenol	ND		0.401	0.140	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Acenaphthene	ND		0.0810	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Acenaphthylene	ND		0.0810	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Acetophenone	ND		0.203	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Aniline	ND		0.401	0.0307	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Anthracene	ND		0.0810	0.0469	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Azobenzene/Diphenyldiazene	ND		0.401	0.0683	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzidine	ND		0.801	0.119	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[a]anthracene	ND		0.0810	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[a]pyrene	ND		0.0810	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[b]fluoranthene	ND		0.0810	0.0671	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[g,h,i]perylene	ND		0.0810	0.0632	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzo[k]fluoranthene	ND		0.0810	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzoic acid	ND	*- *1	0.401	0.276	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Benzyl alcohol	ND		0.401	0.0726	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Bis(2-chloroethoxy)methane	ND		0.401	0.0697	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Bis(2-chloroethyl)ether	ND		0.203	0.0663	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
bis (2-chloroisopropyl) ether	ND		0.203	0.0902	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Bis(2-ethylhexyl) phthalate	ND		0.203	0.0516	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Butyl benzyl phthalate	ND		0.401	0.0402	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Carbazole	ND		0.203	0.0530	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Chrysene	ND		0.0810	0.0458	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Dibenz(a,h)anthracene	ND		0.0810	0.0618	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Dibenzofuran	ND		0.203	0.0702	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Diethyl phthalate	ND		0.401	0.0439	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Dimethyl phthalate	ND		0.401	0.0522	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Di-n-butyl phthalate	ND		0.401	0.0429	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Di-n-octyl phthalate	ND		0.401	0.0662	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Fluoranthene	ND		0.0810	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Fluorene	ND		0.0810	0.0739	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Hexachlorobenzene	ND		0.203	0.0562	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Hexachlorobutadiene	ND		0.203	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1

Client Sample ID: 2023-MW-06-1012' **Lab Sample ID: 620-10117-6**
Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.203	0.0774	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Hexachloroethane	ND		0.203	0.0796	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Indeno[1,2,3-cd]pyrene	ND		0.0810	0.0687	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Isophorone	ND		0.203	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Naphthalene	ND		0.0810	0.0777	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Nitrobenzene	ND		0.203	0.0936	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
N-Nitrosodimethylamine	ND		0.203	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
N-Nitrosodi-n-propylamine	ND		0.203	0.0807	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
N-Nitrosodiphenylamine	ND		0.401	0.0511	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pentachloronitrobenzene	ND		0.401	0.0632	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pentachlorophenol	ND		0.401	0.164	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Phenanthrene	ND		0.0810	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Phenol	ND		0.401	0.0825	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pyrene	ND		0.0810	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1
Pyridine	ND		0.401	0.0948	mg/Kg	☼	03/13/23 11:00	03/14/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/13/23 11:00*	*03/14/23 20:52*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/13/23 11:00*	*03/14/23 20:52*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.266	0.136	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.266	0.114	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Ethylbenzene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Methyl tert-butyl ether	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Naphthalene	ND		0.0532	0.0362	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
o-Xylene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
Toluene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
C5-C8 Aliphatics (unadjusted)	ND		0.266	0.136	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
C9-C10 Aromatics	ND		0.266	0.0372	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1
C9-C12 Aliphatics (unadjusted)	ND		0.266	0.114	mg/Kg	☼	03/07/23 07:22	03/07/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:11*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:11*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0239	0.0172	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1221	ND		0.0239	0.00707	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1232	ND		0.0239	0.00663	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1

Client Sample ID: 2023-MW-06-1012' **Lab Sample ID: 620-10117-6**
Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0239	0.00378	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1248	ND		0.0239	0.00748	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1254	ND		0.0239	0.0186	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1262	ND		0.0239	0.00558	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1260	ND		0.0239	0.00515	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1
PCB-1268	ND		0.0239	0.00510	mg/Kg	☼	03/09/23 15:26	03/11/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*
Tetrachloro-m-xylene	*93*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:26*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoroheptanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorononanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorodecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorotridecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorotetradecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorobutanesulfonic acid	ND		2.31	0.462	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorohexanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NEtFOSAA	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NMeFOSAA	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
10:2 FTS	ND		2.31	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoropentanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoroheptanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorononanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorodecanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctanesulfonamide	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorohexadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorooctadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorobutanoic acid	ND		2.31	0.923	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoropentanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NMeFOSE	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NMeFOSA	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NEtFOSE	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
NEtFOSA	ND		2.31	0.577	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
HFPODA	ND		2.31	1.15	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
DONA	ND		3.46	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
9Cl-PF3ONS	ND		2.31	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
11Cl-PF3OUdS	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluorododecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
4:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
Perfluoroundecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1

Client Sample ID: 2023-MW-06-1012' **Lab Sample ID: 620-10117-6**
Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.692	ug/Kg	☼	03/07/23 22:53	03/16/23 00:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
M2-8:2 FTS	*87*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
M2-6:2 FTS	*105*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C5 PFHxA	*103*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C9 PFNA	*106*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C6 PFDA	*100*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C2-PFDoDA	*100*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C2 PFTeDA	*124*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d3-NMeFOSAA	*59*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d5-NEtFOSAA	*74*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C4 PFBA	*103*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C5 PFPeA	*97*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d7-N-MeFOSE-M	*104*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
d5-NEtPFOSA	*90*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:04*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:04*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.82	1.98	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Arsenic	**2.72**	**J**	3.49	1.63	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Barium	**17.7**		0.582	0.175	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Beryllium	**0.312**	**J**	0.582	0.116	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Cadmium	ND		0.582	0.116	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Chromium	**6.69**		1.75	0.408	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Lead	**2.11**		1.75	0.699	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Nickel	**2.43**		1.16	0.303	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Selenium	ND		5.82	1.75	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Silver	ND	^3+	1.16	0.466	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Thallium	ND		3.49	1.51	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Vanadium	**7.44**		1.16	0.501	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1
Zinc	**9.76**		2.33	0.932	mg/Kg	☼	03/07/23 19:52	03/09/23 06:20	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0736	0.0245	mg/Kg	☼	03/08/23 00:46	03/09/23 07:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-06-1012'
Date Collected: 03/02/23 14:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-6
Matrix: Solid
Percent Solids: 80.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.8		0.1	0.1	%			03/06/23 09:58	1
Percent Solids (EPA Moisture)	80.2		0.1	0.1	%			03/06/23 09:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0002'
Date Collected: 03/02/23 15:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-7
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00546	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Acetone	ND		0.0546	0.0122	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Acrylonitrile	ND		0.00546	0.00328	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Benzene	ND		0.00546	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromobenzene	ND		0.00546	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromochloromethane	ND		0.00546	0.00310	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromodichloromethane	ND		0.00546	0.00401	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromoform	ND		0.00546	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Bromomethane	ND	*+	0.0109	0.00680	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2-Butanone (MEK)	ND		0.0109	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
n-Butylbenzene	ND		0.0109	0.00585	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
sec-Butylbenzene	ND		0.00546	0.00440	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
tert-Butylbenzene	ND		0.00546	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Carbon disulfide	ND		0.0109	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Carbon tetrachloride	ND		0.00546	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chlorobenzene	ND		0.00546	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chloroethane	ND		0.0109	0.00401	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chloroform	ND		0.00546	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Chloromethane	ND		0.0109	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2-Chlorotoluene	ND		0.00546	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
4-Chlorotoluene	ND		0.00546	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dibromo-3-Chloropropane	ND		0.0109	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Dibromochloromethane	ND		0.00546	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dibromoethane (EDB)	ND		0.00546	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Dibromomethane	ND		0.00546	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dichlorobenzene	ND		0.00546	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3-Dichlorobenzene	ND		0.00546	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,4-Dichlorobenzene	ND		0.00546	0.00518	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Dichlorodifluoromethane (Freon 12)	ND		0.0109	0.00293	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1-Dichloroethane	ND		0.00546	0.00370	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dichloroethane	ND		0.00546	0.00368	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1-Dichloroethene	ND		0.00546	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
cis-1,2-Dichloroethene	ND		0.00546	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
trans-1,2-Dichloroethene	ND		0.00546	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2-Dichloropropane	ND		0.00546	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3-Dichloropropane	ND		0.00546	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2,2-Dichloropropane	ND		0.00546	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1-Dichloropropene	ND		0.00546	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
cis-1,3-Dichloropropene	ND		0.00546	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
trans-1,3-Dichloropropene	ND		0.00546	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethylbenzene	ND		0.00546	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Hexachlorobutadiene	ND		0.0109	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
2-Hexanone (MBK)	ND		0.0109	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Isopropylbenzene	ND		0.00546	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
4-Isopropyltoluene	ND		0.00546	0.00536	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Methyl tert-butyl ether	ND		0.00546	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		0.0109	0.00353	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Methylene Chloride	ND		0.0109	0.00293	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Naphthalene	ND		0.00546	0.00494	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1

Client Sample ID: 2023-SB-08-0002' **Lab Sample ID: 620-10117-7**
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00546	0.00462	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Styrene	ND		0.00546	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,1,2-Tetrachloroethane	ND		0.00546	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,2,2-Tetrachloroethane	ND		0.00546	0.00500	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Tetrachloroethene	ND		0.00546	0.00304	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Toluene	ND		0.00546	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,3-Trichlorobenzene	ND		0.00546	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,4-Trichlorobenzene	ND		0.00546	0.00504	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3,5-Trichlorobenzene	ND		0.00546	0.00519	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,1-Trichloroethane	ND		0.00546	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,1,2-Trichloroethane	ND		0.00546	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Trichloroethene	ND		0.00546	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Trichlorofluoromethane (Freon 11)	ND		0.00546	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,3-Trichloropropane	ND		0.00546	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,2,4-Trimethylbenzene	ND		0.00546	0.00462	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3,5-Trimethylbenzene	ND		0.00546	0.00464	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Vinyl chloride	ND		0.00546	0.00333	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
m,p-Xylene	ND		0.00546	0.00746	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
o-Xylene	ND		0.00546	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Tetrahydrofuran	ND		0.0109	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethyl ether	ND		0.00546	0.00287	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Tert-amyl methyl ether	ND		0.00546	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethyl tert-butyl ether	ND		0.00546	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
di-Isopropyl ether	ND		0.00546	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
tert-Butanol	ND		0.109	0.0293	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,4-Dioxane	ND		0.109	0.0340	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
trans-1,4-Dichloro-2-butene	ND		0.0273	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Ethanol	ND		1.09	0.0677	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
1,3-Dichloropropene, Total	ND		0.00546	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1
Xylenes, Total	ND		0.0164	0.00546	mg/Kg	☼	03/10/23 09:34	03/10/23 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:31*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.358	0.0637	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,2,4-Trichlorobenzene	ND		0.358	0.0820	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,2-Dichlorobenzene	ND		0.358	0.0690	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,3-Dichlorobenzene	ND		0.358	0.0867	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1,4-Dichlorobenzene	ND		0.358	0.0843	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
1-Methylnaphthalene	ND		0.0724	0.0608	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4,5-Trichlorophenol	ND		0.358	0.0410	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4,6-Trichlorophenol	ND		0.181	0.0443	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4-Dichlorophenol	ND		0.181	0.0722	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4-Dimethylphenol	ND		0.358	0.0525	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,4-Dinitrophenol	ND		0.358	0.0942	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0002'
Date Collected: 03/02/23 15:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-7
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2,6-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Chloronaphthalene	ND		0.358	0.0828	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Chlorophenol	ND		0.181	0.0741	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Methylnaphthalene	ND		0.0724	0.0535	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Methylphenol	ND		0.358	0.0523	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Nitroaniline	ND		0.358	0.0341	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
2-Nitrophenol	ND		0.181	0.0644	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
3 & 4 Methylphenol	ND		0.358	0.0678	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
3,3'-Dichlorobenzidine	ND		0.358	0.0591	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
3-Nitroaniline	ND		0.358	0.0320	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4,6-Dinitro-2-methylphenol	ND		0.358	0.0644	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Bromophenyl phenyl ether	ND		0.358	0.0405	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Chloro-3-methylphenol	ND		0.358	0.0701	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Chloroaniline	ND		0.181	0.0275	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Chlorophenyl phenyl ether	ND		0.358	0.0383	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Nitroaniline	ND		0.181	0.0572	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
4-Nitrophenol	ND		0.358	0.125	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Acenaphthene	ND		0.0724	0.0577	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Acenaphthylene	ND		0.0724	0.0475	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Acetophenone	ND		0.181	0.0442	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Aniline	ND		0.358	0.0275	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Anthracene	ND		0.0724	0.0419	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Azobenzene/Diphenyldiazene	ND		0.358	0.0611	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzidine	ND		0.716	0.106	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[a]anthracene	**0.102**		0.0724	0.0407	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[a]pyrene	**0.104**		0.0724	0.0518	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[b]fluoranthene	**0.114**		0.0724	0.0600	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[g,h,i]perylene	**0.0902**		0.0724	0.0565	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzo[k]fluoranthene	**0.0936**		0.0724	0.0563	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzoic acid	ND	*- *1	0.358	0.246	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Benzyl alcohol	ND		0.358	0.0649	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Bis(2-chloroethoxy)methane	ND		0.358	0.0623	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Bis(2-chloroethyl)ether	ND		0.181	0.0593	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
bis (2-chloroisopropyl) ether	ND		0.181	0.0806	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Bis(2-ethylhexyl) phthalate	ND		0.181	0.0461	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Butyl benzyl phthalate	ND		0.358	0.0359	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Carbazole	ND		0.181	0.0474	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Chrysene	**0.170**		0.0724	0.0409	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Dibenz(a,h)anthracene	ND		0.0724	0.0552	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Dibenzofuran	ND		0.181	0.0627	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Diethyl phthalate	ND		0.358	0.0393	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Dimethyl phthalate	ND		0.358	0.0467	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Di-n-butyl phthalate	ND		0.358	0.0383	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Di-n-octyl phthalate	ND		0.358	0.0591	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Fluoranthene	**0.240**		0.0724	0.0424	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Fluorene	ND		0.0724	0.0661	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Hexachlorobenzene	ND		0.181	0.0502	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Hexachlorobutadiene	ND		0.181	0.0904	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1

Client Sample ID: 2023-SB-08-0002' **Lab Sample ID: 620-10117-7**
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.181	0.0692	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Hexachloroethane	ND		0.181	0.0712	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Indeno[1,2,3-cd]pyrene	**0.0830**		0.0724	0.0614	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Isophorone	ND		0.181	0.0496	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Naphthalene	ND		0.0724	0.0695	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Nitrobenzene	ND		0.181	0.0837	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
N-Nitrosodimethylamine	ND		0.181	0.0475	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
N-Nitrosodi-n-propylamine	ND		0.181	0.0722	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
N-Nitrosodiphenylamine	ND		0.358	0.0457	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pentachloronitrobenzene	ND		0.358	0.0565	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pentachlorophenol	ND		0.358	0.147	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Phenanthrene	**0.125**		0.0724	0.0410	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Phenol	ND		0.358	0.0738	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pyrene	**0.236**		0.0724	0.0399	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1
Pyridine	ND		0.358	0.0848	mg/Kg	☼	03/13/23 11:00	03/16/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
Phenol-d5 (Surr)	*57*		*15 - 110*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*03/13/23 11:00*	*03/16/23 01:18*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/13/23 11:00*	*03/16/23 01:18*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.263	0.135	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.263	0.113	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Ethylbenzene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Methyl tert-butyl ether	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Naphthalene	ND		0.0526	0.0358	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
o-Xylene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
Toluene	ND		0.0526	0.0105	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
C5-C8 Aliphatics (unadjusted)	ND		0.263	0.135	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
C9-C10 Aromatics	ND		0.263	0.0368	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1
C9-C12 Aliphatics (unadjusted)	ND		0.263	0.113	mg/Kg	☼	03/07/23 07:22	03/07/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:51*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/07/23 07:22*	*03/07/23 19:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0207	0.0149	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1221	ND		0.0207	0.00613	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1232	ND		0.0207	0.00575	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1

Client Sample ID: 2023-SB-08-0002'
Date Collected: 03/02/23 15:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-7
Matrix: Solid
Percent Solids: 91.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0207	0.00328	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1248	ND		0.0207	0.00648	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1254	ND		0.0207	0.0161	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1262	ND		0.0207	0.00483	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1260	ND		0.0207	0.00446	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1
PCB-1268	ND		0.0207	0.00442	mg/Kg	☼	03/09/23 15:26	03/11/23 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/09/23 15:26*	*03/11/23 03:45*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoroheptanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorononanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorodecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorotridecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorotetradecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorobutanesulfonic acid	ND		2.17	0.433	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorohexanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
10:2 FTS	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoropentanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoroheptanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorononanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorodecanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctanesulfonamide	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorohexadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorooctadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorobutanoic acid	ND		2.17	0.867	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoropentanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NMeFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NMeFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NEtFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
NEtFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
HFPODA	ND		2.17	1.08	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
DONA	ND		3.25	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
11Cl-PF3OUdS	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluorododecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
Perfluoroundecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1

Client Sample ID: 2023-SB-08-0002' **Lab Sample ID: 620-10117-7**
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.650	ug/Kg	☼	03/07/23 22:53	03/16/23 00:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*80*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
M2-6:2 FTS	*98*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C5 PFHxA	*94*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C4 PFHpA	*99*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C3 PFBS	*116*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C3 PFHxS	*113*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C8 PFOS	*120*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d3-NMeFOSAA	*36*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d5-NEtFOSAA	*47*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C8 FOSA	*90*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C4 PFBA	*88*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C5 PFPeA	*81*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d9-N-EtFOSE-M	*98*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
d5-NEtPFOSA	*90*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:15*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:15*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**5.26**		4.72	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Arsenic	**15.2**		2.83	1.32	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Barium	**193**		4.72	1.41	mg/Kg	☼	03/07/23 13:12	03/10/23 09:14	10
Beryllium	**0.904**		0.472	0.0943	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Cadmium	**0.132**	**J**	0.472	0.0943	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Chromium	**15.7**		1.41	0.330	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Lead	**36.7**		1.41	0.566	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Nickel	**36.5**		0.943	0.245	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Selenium	ND		4.72	1.41	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Silver	ND	^3+	0.943	0.377	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Thallium	ND		2.83	1.23	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Vanadium	**33.2**		0.943	0.406	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1
Zinc	**149**		1.89	0.755	mg/Kg	☼	03/07/23 13:12	03/09/23 10:07	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0635	0.0212	mg/Kg	☼	03/07/23 13:21	03/08/23 11:55	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0002'
Date Collected: 03/02/23 15:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-7
Matrix: Solid
Percent Solids: 91.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	91.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0204'
Date Collected: 03/02/23 15:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-8
Matrix: Solid
Percent Solids: 96.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00523	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Acetone	ND		0.0523	0.0117	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Acrylonitrile	ND		0.00523	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Benzene	ND		0.00523	0.00349	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromobenzene	ND		0.00523	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromochloromethane	ND		0.00523	0.00297	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromodichloromethane	ND		0.00523	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromoform	ND		0.00523	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Bromomethane	ND		0.0105	0.00651	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2-Butanone (MEK)	ND		0.0105	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
n-Butylbenzene	ND		0.0105	0.00560	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
sec-Butylbenzene	ND		0.00523	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
tert-Butylbenzene	ND		0.00523	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Carbon disulfide	ND		0.0105	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Carbon tetrachloride	ND		0.00523	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chlorobenzene	ND		0.00523	0.00383	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chloroethane	ND		0.0105	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chloroform	ND		0.00523	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Chloromethane	ND		0.0105	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2-Chlorotoluene	ND		0.00523	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
4-Chlorotoluene	ND		0.00523	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00443	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Dibromochloromethane	ND		0.00523	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dibromoethane (EDB)	ND		0.00523	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Dibromomethane	ND		0.00523	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dichlorobenzene	ND		0.00523	0.00485	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3-Dichlorobenzene	ND		0.00523	0.00419	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,4-Dichlorobenzene	ND		0.00523	0.00495	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1-Dichloroethane	ND		0.00523	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dichloroethane	ND		0.00523	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1-Dichloroethene	ND		0.00523	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
cis-1,2-Dichloroethene	ND		0.00523	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
trans-1,2-Dichloroethene	ND		0.00523	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2-Dichloropropane	ND		0.00523	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3-Dichloropropane	ND		0.00523	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2,2-Dichloropropane	ND		0.00523	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1-Dichloropropene	ND		0.00523	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
cis-1,3-Dichloropropene	ND		0.00523	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
trans-1,3-Dichloropropene	ND		0.00523	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethylbenzene	ND		0.00523	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Hexachlorobutadiene	ND		0.0105	0.00526	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
2-Hexanone (MBK)	ND		0.0105	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Isopropylbenzene	ND		0.00523	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
4-Isopropyltoluene	ND		0.00523	0.00513	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Methyl tert-butyl ether	ND		0.00523	0.00301	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00338	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Methylene Chloride	ND		0.0105	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Naphthalene	ND		0.00523	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00523	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Styrene	ND		0.00523	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,1,2-Tetrachloroethane	ND		0.00523	0.00392	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,2,2-Tetrachloroethane	ND		0.00523	0.00479	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Tetrachloroethene	ND		0.00523	0.00291	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Toluene	ND		0.00523	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,3-Trichlorobenzene	ND		0.00523	0.00441	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,4-Trichlorobenzene	ND		0.00523	0.00482	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3,5-Trichlorobenzene	ND		0.00523	0.00496	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,1-Trichloroethane	ND		0.00523	0.00356	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,1,2-Trichloroethane	ND		0.00523	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Trichloroethene	ND		0.00523	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Trichlorofluoromethane (Freon 11)	ND		0.00523	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,3-Trichloropropane	ND		0.00523	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,2,4-Trimethylbenzene	ND		0.00523	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3,5-Trimethylbenzene	ND		0.00523	0.00444	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Vinyl chloride	ND		0.00523	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
m,p-Xylene	ND		0.00523	0.00714	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
o-Xylene	ND		0.00523	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Tetrahydrofuran	ND		0.0105	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethyl ether	ND		0.00523	0.00275	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Tert-amyl methyl ether	ND		0.00523	0.00413	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethyl tert-butyl ether	ND		0.00523	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
di-Isopropyl ether	ND		0.00523	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
tert-Butanol	ND		0.105	0.0280	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,4-Dioxane	ND		0.105	0.0325	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00386	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Ethanol	ND		1.05	0.0648	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
1,3-Dichloropropene, Total	ND		0.00523	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1
Xylenes, Total	ND		0.0157	0.00523	mg/Kg	☼	03/08/23 10:32	03/08/23 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:03*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.337	0.0600	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,2,4-Trichlorobenzene	ND		0.337	0.0773	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,2-Dichlorobenzene	ND		0.337	0.0650	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,3-Dichlorobenzene	ND		0.337	0.0816	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1,4-Dichlorobenzene	ND		0.337	0.0794	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
1-Methylnaphthalene	ND		0.0682	0.0572	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4,5-Trichlorophenol	ND		0.337	0.0386	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4,6-Trichlorophenol	ND		0.171	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4-Dichlorophenol	ND		0.171	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4-Dimethylphenol	ND		0.337	0.0495	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,4-Dinitrophenol	ND		0.337	0.0887	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.171	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2,6-Dinitrotoluene	ND		0.171	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Chloronaphthalene	ND		0.337	0.0780	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Chlorophenol	ND		0.171	0.0698	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Methylnaphthalene	ND		0.0682	0.0504	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Methylphenol	ND		0.337	0.0493	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Nitroaniline	ND		0.337	0.0321	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
2-Nitrophenol	ND		0.171	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
3 & 4 Methylphenol	ND		0.337	0.0639	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
3,3'-Dichlorobenzidine	ND		0.337	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
3-Nitroaniline	ND		0.337	0.0301	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4,6-Dinitro-2-methylphenol	ND		0.337	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Bromophenyl phenyl ether	ND		0.337	0.0381	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Chloro-3-methylphenol	ND		0.337	0.0660	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Chloroaniline	ND		0.171	0.0259	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Chlorophenyl phenyl ether	ND		0.337	0.0361	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Nitroaniline	ND		0.171	0.0539	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
4-Nitrophenol	ND		0.337	0.118	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Acenaphthene	ND		0.0682	0.0544	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Acenaphthylene	ND		0.0682	0.0448	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Acetophenone	ND		0.171	0.0416	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Aniline	ND		0.337	0.0259	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Anthracene	ND		0.0682	0.0394	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Azobenzene/Diphenyldiazene	ND		0.337	0.0575	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzidine	ND		0.674	0.0998	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[a]anthracene	ND		0.0682	0.0383	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[a]pyrene	ND		0.0682	0.0487	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[b]fluoranthene	ND		0.0682	0.0565	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[g,h,i]perylene	ND		0.0682	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzo[k]fluoranthene	ND		0.0682	0.0530	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzoic acid	ND	*- *1	0.337	0.232	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Benzyl alcohol	ND		0.337	0.0611	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Bis(2-chloroethoxy)methane	ND		0.337	0.0587	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Bis(2-chloroethyl)ether	ND		0.171	0.0558	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
bis (2-chloroisopropyl) ether	ND		0.171	0.0759	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Bis(2-ethylhexyl) phthalate	ND		0.171	0.0434	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Butyl benzyl phthalate	ND		0.337	0.0338	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Carbazole	ND		0.171	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Chrysene	ND		0.0682	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Dibenz(a,h)anthracene	ND		0.0682	0.0520	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Dibenzofuran	ND		0.171	0.0591	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Diethyl phthalate	ND		0.337	0.0370	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Dimethyl phthalate	ND		0.337	0.0439	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Di-n-butyl phthalate	ND		0.337	0.0361	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Di-n-octyl phthalate	ND		0.337	0.0557	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Fluoranthene	ND		0.0682	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Fluorene	ND		0.0682	0.0622	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Hexachlorobenzene	ND		0.171	0.0473	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Hexachlorobutadiene	ND		0.171	0.0851	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.171	0.0652	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Hexachloroethane	ND		0.171	0.0670	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Indeno[1,2,3-cd]pyrene	ND		0.0682	0.0578	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Isophorone	ND		0.171	0.0467	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Naphthalene	ND		0.0682	0.0654	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Nitrobenzene	ND		0.171	0.0788	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
N-Nitrosodimethylamine	ND		0.171	0.0448	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
N-Nitrosodi-n-propylamine	ND		0.171	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
N-Nitrosodiphenylamine	ND		0.337	0.0430	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pentachloronitrobenzene	ND		0.337	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pentachlorophenol	ND		0.337	0.138	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Phenanthrene	ND		0.0682	0.0386	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Phenol	ND		0.337	0.0695	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pyrene	ND		0.0682	0.0376	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1
Pyridine	ND		0.337	0.0798	mg/Kg	☼	03/13/23 11:00	03/14/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*88*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
Nitrobenzene-d5 (Surr)	*94*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:49*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:49*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.277	0.142	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.277	0.119	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Ethylbenzene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Methyl tert-butyl ether	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Naphthalene	ND		0.0555	0.0377	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
o-Xylene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
Toluene	ND		0.0555	0.0111	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
C5-C8 Aliphatics (unadjusted)	ND		0.277	0.142	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
C9-C10 Aromatics	ND		0.277	0.0388	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1
C9-C12 Aliphatics (unadjusted)	ND		0.277	0.119	mg/Kg	☼	03/07/23 07:22	03/07/23 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 20:30*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 20:30*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0197	0.0142	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1221	ND		0.0197	0.00582	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1232	ND		0.0197	0.00546	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0197	0.00311	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1248	ND		0.0197	0.00616	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1254	ND		0.0197	0.0153	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1262	ND		0.0197	0.00459	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1260	ND		0.0197	0.00424	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1
PCB-1268	ND		0.0197	0.00420	mg/Kg	☼	03/09/23 15:26	03/11/23 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*
Tetrachloro-m-xylene	*111*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*
DCB Decachlorobiphenyl (Surr)	*124*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:04*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoroheptanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorononanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorodecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorotridecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorotetradecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorobutanesulfonic acid	ND		1.95	0.390	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorohexanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NEtFOSAA	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NMeFOSAA	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
10:2 FTS	ND		1.95	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoropentanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoroheptanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorononanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorodecanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctanesulfonamide	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorohexadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorooctadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorobutanoic acid	ND		1.95	0.781	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoropentanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NMeFOSE	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NMeFOSA	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NEtFOSE	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
NEtFOSA	ND		1.95	0.488	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
HFPODA	ND		1.95	0.976	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
DONA	ND		2.93	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
9Cl-PF3ONS	ND		1.95	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
11Cl-PF3OUdS	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluorododecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
4:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
Perfluoroundecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1

Client Sample ID: 2023-SB-08-0204' **Lab Sample ID: 620-10117-8**
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1
8:2 Fluorotelomer sulfonic acid	ND		2.93	0.585	ug/Kg	☼	03/07/23 22:53	03/16/23 00:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*80*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
M2-8:2 FTS	*94*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
M2-6:2 FTS	*100*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C5 PFHxA	*97*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C4 PFHpA	*98*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C9 PFNA	*97*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C3 PFBS	*112*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C8 PFOS	*112*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d3-NMeFOSAA	*38*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d5-NEtFOSAA	*53*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C8 FOSA	*82*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C5 PFPeA	*83*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d9-N-EtFOSE-M	*89*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
d5-NEtPFOSA	*86*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:26*	*1*
13C3 HFPO-DA	*77*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:26*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.20	1.43	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Arsenic	**3.57**		2.52	1.18	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Barium	**17.0**		0.420	0.126	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Beryllium	**0.250**	**J**	0.420	0.0841	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Cadmium	ND		0.420	0.0841	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Chromium	**5.87**		1.26	0.294	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Lead	**2.56**		1.26	0.505	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Nickel	**3.40**		0.841	0.219	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Selenium	ND		4.20	1.26	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Silver	ND	^3+	0.841	0.336	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Thallium	ND		2.52	1.09	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Vanadium	**9.21**		0.841	0.362	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1
Zinc	**15.8**	**^5-**	1.68	0.673	mg/Kg	☼	03/07/23 20:22	03/08/23 22:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0591	0.0197	mg/Kg	☼	03/07/23 20:58	03/08/23 12:19	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0204'
Date Collected: 03/02/23 15:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-8
Matrix: Solid
Percent Solids: 96.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	96.7		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0406'
Date Collected: 03/02/23 15:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-9
Matrix: Solid
Percent Solids: 96.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00441	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Acetone	**0.0161**	**J B**	0.0441	0.00989	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Acrylonitrile	ND		0.00441	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Benzene	ND		0.00441	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromobenzene	ND		0.00441	0.00294	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromochloromethane	ND		0.00441	0.00251	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromodichloromethane	ND		0.00441	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromoform	ND		0.00441	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Bromomethane	ND	*+	0.00883	0.00550	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2-Butanone (MEK)	ND		0.00883	0.00351	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
n-Butylbenzene	ND		0.00883	0.00473	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
sec-Butylbenzene	ND		0.00441	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
tert-Butylbenzene	ND		0.00441	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Carbon disulfide	ND		0.00883	0.00310	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Carbon tetrachloride	ND		0.00441	0.00278	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chlorobenzene	ND		0.00441	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chloroethane	ND		0.00883	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chloroform	ND		0.00441	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Chloromethane	ND		0.00883	0.00339	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2-Chlorotoluene	ND		0.00441	0.00351	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
4-Chlorotoluene	ND		0.00441	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dibromo-3-Chloropropane	ND		0.00883	0.00374	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Dibromochloromethane	ND		0.00441	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dibromoethane (EDB)	ND		0.00441	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Dibromomethane	ND		0.00441	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dichlorobenzene	ND		0.00441	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3-Dichlorobenzene	ND		0.00441	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,4-Dichlorobenzene	ND		0.00441	0.00418	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Dichlorodifluoromethane (Freon 12)	ND		0.00883	0.00237	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1-Dichloroethane	ND		0.00441	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dichloroethane	ND		0.00441	0.00298	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1-Dichloroethene	ND		0.00441	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
cis-1,2-Dichloroethene	ND		0.00441	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
trans-1,2-Dichloroethene	ND		0.00441	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2-Dichloropropane	ND		0.00441	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3-Dichloropropane	ND		0.00441	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2,2-Dichloropropane	ND		0.00441	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1-Dichloropropene	ND		0.00441	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
cis-1,3-Dichloropropene	ND		0.00441	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
trans-1,3-Dichloropropene	ND		0.00441	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethylbenzene	ND		0.00441	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Hexachlorobutadiene	ND		0.00883	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
2-Hexanone (MBK)	ND		0.00883	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Isopropylbenzene	ND		0.00441	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
4-Isopropyltoluene	ND		0.00441	0.00433	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Methyl tert-butyl ether	ND		0.00441	0.00254	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.00883	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Methylene Chloride	ND		0.00883	0.00237	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Naphthalene	ND		0.00441	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Styrene	ND		0.00441	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,1,2-Tetrachloroethane	ND		0.00441	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.00441	0.00404	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Tetrachloroethene	ND		0.00441	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Toluene	ND		0.00441	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,3-Trichlorobenzene	ND		0.00441	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,4-Trichlorobenzene	ND		0.00441	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3,5-Trichlorobenzene	ND		0.00441	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,1-Trichloroethane	ND		0.00441	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,1,2-Trichloroethane	ND		0.00441	0.00333	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Trichloroethene	ND		0.00441	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00441	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,3-Trichloropropane	ND		0.00441	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,2,4-Trimethylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3,5-Trimethylbenzene	ND		0.00441	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Vinyl chloride	ND		0.00441	0.00269	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
m,p-Xylene	ND		0.00441	0.00603	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
o-Xylene	ND		0.00441	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Tetrahydrofuran	ND		0.00883	0.00223	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethyl ether	ND		0.00441	0.00232	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Tert-amyl methyl ether	ND		0.00441	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethyl tert-butyl ether	ND		0.00441	0.00290	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
di-Isopropyl ether	ND		0.00441	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
tert-Butanol	ND		0.0883	0.0237	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,4-Dioxane	ND		0.0883	0.0275	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
trans-1,4-Dichloro-2-butene	ND		0.0221	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Ethanol	ND		0.883	0.0547	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
1,3-Dichloropropene, Total	ND		0.00441	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1
Xylenes, Total	ND		0.0132	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 14:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.679	0.121	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,2,4-Trichlorobenzene	ND		0.679	0.156	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,2-Dichlorobenzene	ND		0.679	0.131	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,3-Dichlorobenzene	ND		0.679	0.164	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1,4-Dichlorobenzene	ND		0.679	0.160	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
1-Methylnaphthalene	ND		0.137	0.115	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4,5-Trichlorophenol	ND		0.679	0.0778	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4,6-Trichlorophenol	ND		0.344	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4-Dichlorophenol	ND		0.344	0.137	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4-Dimethylphenol	ND		0.679	0.0996	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,4-Dinitrophenol	ND		0.679	0.179	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.344	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2,6-Dinitrotoluene	ND		0.344	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Chloronaphthalene	ND		0.679	0.157	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Chlorophenol	ND		0.344	0.141	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Methylnaphthalene	ND		0.137	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Methylphenol	ND		0.679	0.0992	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Nitroaniline	ND		0.679	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
2-Nitrophenol	ND		0.344	0.122	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
3 & 4 Methylphenol	ND		0.679	0.129	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
3,3'-Dichlorobenzidine	ND		0.679	0.112	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
3-Nitroaniline	ND		0.679	0.0607	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4,6-Dinitro-2-methylphenol	ND		0.679	0.122	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Bromophenyl phenyl ether	ND		0.679	0.0768	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Chloro-3-methylphenol	ND		0.679	0.133	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Chloroaniline	ND		0.344	0.0521	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Chlorophenyl phenyl ether	ND		0.679	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Nitroaniline	ND		0.344	0.108	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
4-Nitrophenol	ND		0.679	0.237	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Acenaphthene	ND		0.137	0.109	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Acenaphthylene	ND		0.137	0.0901	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Acetophenone	ND		0.344	0.0838	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Aniline	ND		0.679	0.0521	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Anthracene	ND		0.137	0.0794	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Azobenzene/Diphenyldiazene	ND		0.679	0.116	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzidine	ND		1.36	0.201	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[a]anthracene	ND		0.137	0.0772	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[a]pyrene	ND		0.137	0.0982	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[b]fluoranthene	ND		0.137	0.114	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[g,h,i]perylene	ND		0.137	0.107	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzo[k]fluoranthene	ND		0.137	0.107	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzoic acid	ND	*- *1	0.679	0.467	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Benzyl alcohol	ND		0.679	0.123	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Bis(2-chloroethoxy)methane	ND		0.679	0.118	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Bis(2-chloroethyl)ether	ND		0.344	0.112	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
bis (2-chloroisopropyl) ether	ND		0.344	0.153	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Bis(2-ethylhexyl) phthalate	ND		0.344	0.0875	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Butyl benzyl phthalate	ND		0.679	0.0681	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Carbazole	ND		0.344	0.0899	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Chrysene	ND		0.137	0.0776	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Dibenz(a,h)anthracene	ND		0.137	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Dibenzofuran	ND		0.344	0.119	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Diethyl phthalate	ND		0.679	0.0745	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Dimethyl phthalate	ND		0.679	0.0885	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Di-n-butyl phthalate	ND		0.679	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Di-n-octyl phthalate	ND		0.679	0.112	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Fluoranthene	ND		0.137	0.0805	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Fluorene	ND		0.137	0.125	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Hexachlorobenzene	ND		0.344	0.0953	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Hexachlorobutadiene	ND		0.344	0.171	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1

Client Sample ID: 2023-SB-08-0406'
Date Collected: 03/02/23 15:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-9
Matrix: Solid
Percent Solids: 96.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.344	0.131	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Hexachloroethane	ND		0.344	0.135	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Indeno[1,2,3-cd]pyrene	ND		0.137	0.116	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Isophorone	ND		0.344	0.0941	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Naphthalene	ND		0.137	0.132	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Nitrobenzene	ND		0.344	0.159	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
N-Nitrosodimethylamine	ND		0.344	0.0901	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
N-Nitrosodi-n-propylamine	ND		0.344	0.137	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
N-Nitrosodiphenylamine	ND		0.679	0.0866	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pentachloronitrobenzene	ND		0.679	0.107	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pentachlorophenol	ND		0.679	0.278	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Phenanthrene	ND		0.137	0.0778	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Phenol	ND		0.679	0.140	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pyrene	ND		0.137	0.0757	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1
Pyridine	ND		0.679	0.161	mg/Kg	☼	03/13/23 11:00	03/14/23 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
Phenol-d5 (Surr)	*83*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:17*	*1*
Terphenyl-d14	*80*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.302	0.155	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.302	0.129	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Ethylbenzene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Methyl tert-butyl ether	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
m,p-Xylene	ND		0.121	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Naphthalene	ND		0.0604	0.0411	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
o-Xylene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
Toluene	ND		0.0604	0.0121	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
C5-C8 Aliphatics (unadjusted)	ND		0.302	0.155	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
C9-C10 Aromatics	ND		0.302	0.0423	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1
C9-C12 Aliphatics (unadjusted)	ND		0.302	0.129	mg/Kg	☼	03/07/23 07:22	03/07/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:09*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:09*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0203	0.0146	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1221	ND		0.0203	0.00600	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1232	ND		0.0203	0.00562	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0203	0.00321	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1248	ND		0.0203	0.00635	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1254	ND		0.0203	0.0158	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1262	ND		0.0203	0.00473	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1260	ND		0.0203	0.00437	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1
PCB-1268	ND		0.0203	0.00433	mg/Kg	☼	03/09/23 15:26	03/11/23 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:23*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoroheptanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorononanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorodecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorotridecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorotetradecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorobutanesulfonic acid	ND		2.06	0.412	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorohexanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NEtFOSAA	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NMeFOSAA	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
10:2 FTS	ND		2.06	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoropentanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoroheptanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorononanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorodecanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctanesulfonamide	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorohexadecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorooctadecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorobutanoic acid	ND		2.06	0.824	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoropentanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NMeFOSE	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NMeFOSA	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NEtFOSE	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
NEtFOSA	ND		2.06	0.515	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
HFPODA	ND		2.06	1.03	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
DONA	ND		3.09	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
9Cl-PF3ONS	ND		2.06	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
11Cl-PF3OUdS	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluorododecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
4:2 Fluorotelomer sulfonic acid	ND		2.06	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
Perfluoroundecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1

Client Sample ID: 2023-SB-08-0406' **Lab Sample ID: 620-10117-9**
Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.06	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1
8:2 Fluorotelomer sulfonic acid	ND		3.09	0.618	ug/Kg	☼	03/07/23 22:53	03/16/23 00:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
M2-8:2 FTS	*80*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C4 PFHpA	*96*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C8 PFOA	*103*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C9 PFNA	*102*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C6 PFDA	*98*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C7 PFUnA	*113*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C2 PFTeDA	*119*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C3 PFBS	*110*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d3-NMeFOSAA	*17*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C8 FOSA	*94*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C4 PFBA	*87*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d7-N-MeFOSE-M	*97*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d9-N-EtFOSE-M	*100*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:37*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:37*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.64	1.58	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Arsenic	**2.03**	**J**	2.79	1.30	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Barium	**12.7**		0.464	0.139	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Beryllium	**0.202**	**J**	0.464	0.0928	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Cadmium	ND		0.464	0.0928	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Chromium	**2.87**		1.39	0.325	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Lead	**1.67**		1.39	0.557	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Nickel	**1.54**		0.928	0.241	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Selenium	ND		4.64	1.39	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Silver	ND	^3+	0.928	0.371	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Thallium	ND		2.79	1.21	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Vanadium	**4.25**		0.928	0.399	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1
Zinc	**7.63**		1.86	0.743	mg/Kg	☼	03/07/23 19:52	03/09/23 06:04	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0585	0.0195	mg/Kg	☼	03/08/23 00:46	03/09/23 07:58	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0406'
Date Collected: 03/02/23 15:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-9
Matrix: Solid
Percent Solids: 96.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.8		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	96.2		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0608'
Date Collected: 03/02/23 15:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-10
Matrix: Solid
Percent Solids: 87.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00632	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Acetone	ND		0.0632	0.0142	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Acrylonitrile	ND		0.00632	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Benzene	ND		0.00632	0.00422	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromobenzene	ND		0.00632	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromochloromethane	ND		0.00632	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromodichloromethane	ND		0.00632	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromoform	ND		0.00632	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Bromomethane	ND		0.0126	0.00787	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2-Butanone (MEK)	ND		0.0126	0.00503	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
n-Butylbenzene	ND		0.0126	0.00677	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
sec-Butylbenzene	ND		0.00632	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
tert-Butylbenzene	ND		0.00632	0.00498	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Carbon disulfide	ND		0.0126	0.00444	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Carbon tetrachloride	ND		0.00632	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chlorobenzene	ND		0.00632	0.00463	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chloroethane	ND		0.0126	0.00464	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chloroform	ND		0.00632	0.00425	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Chloromethane	ND		0.0126	0.00485	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2-Chlorotoluene	ND		0.00632	0.00503	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
4-Chlorotoluene	ND		0.00632	0.00548	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0126	0.00536	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Dibromochloromethane	ND		0.00632	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dibromoethane (EDB)	ND		0.00632	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Dibromomethane	ND		0.00632	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dichlorobenzene	ND		0.00632	0.00586	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3-Dichlorobenzene	ND		0.00632	0.00507	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,4-Dichlorobenzene	ND		0.00632	0.00599	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0126	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1-Dichloroethane	ND		0.00632	0.00428	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dichloroethane	ND		0.00632	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1-Dichloroethene	ND		0.00632	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
cis-1,2-Dichloroethene	ND		0.00632	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
trans-1,2-Dichloroethene	ND		0.00632	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2-Dichloropropane	ND		0.00632	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3-Dichloropropane	ND		0.00632	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2,2-Dichloropropane	ND		0.00632	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1-Dichloropropene	ND		0.00632	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
cis-1,3-Dichloropropene	ND		0.00632	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
trans-1,3-Dichloropropene	ND		0.00632	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethylbenzene	ND		0.00632	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Hexachlorobutadiene	ND		0.0126	0.00636	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
2-Hexanone (MBK)	ND		0.0126	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Isopropylbenzene	ND		0.00632	0.00478	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
4-Isopropyltoluene	ND		0.00632	0.00620	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Methyl tert-butyl ether	ND		0.00632	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0126	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Methylene Chloride	ND		0.0126	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Naphthalene	ND		0.00632	0.00571	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00632	0.00535	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Styrene	ND		0.00632	0.00489	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,1,2-Tetrachloroethane	ND		0.00632	0.00474	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,2,2-Tetrachloroethane	ND		0.00632	0.00579	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Tetrachloroethene	ND		0.00632	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Toluene	ND		0.00632	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,3-Trichlorobenzene	ND		0.00632	0.00533	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,4-Trichlorobenzene	ND		0.00632	0.00583	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3,5-Trichlorobenzene	ND		0.00632	0.00600	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,1-Trichloroethane	ND		0.00632	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,1,2-Trichloroethane	ND		0.00632	0.00476	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Trichloroethene	ND		0.00632	0.00425	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00632	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,3-Trichloropropane	ND		0.00632	0.00561	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,2,4-Trimethylbenzene	ND		0.00632	0.00535	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3,5-Trimethylbenzene	ND		0.00632	0.00537	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Vinyl chloride	ND		0.00632	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
m,p-Xylene	ND		0.00632	0.00863	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
o-Xylene	ND		0.00632	0.00461	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Tetrahydrofuran	ND		0.0126	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethyl ether	ND		0.00632	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Tert-amyl methyl ether	ND		0.00632	0.00499	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethyl tert-butyl ether	ND		0.00632	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
di-Isopropyl ether	ND		0.00632	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
tert-Butanol	ND		0.126	0.0339	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,4-Dioxane	ND		0.126	0.0393	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
trans-1,4-Dichloro-2-butene	ND		0.0316	0.00466	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Ethanol	ND		1.26	0.0783	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
1,3-Dichloropropene, Total	ND		0.00632	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1
Xylenes, Total	ND		0.0190	0.00632	mg/Kg	☼	03/08/23 10:32	03/08/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/08/23 10:32*	*03/08/23 19:55*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.371	0.0660	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,2,4-Trichlorobenzene	ND		0.371	0.0850	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,2-Dichlorobenzene	ND		0.371	0.0715	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,3-Dichlorobenzene	ND		0.371	0.0899	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1,4-Dichlorobenzene	ND		0.371	0.0874	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
1-Methylnaphthalene	ND		0.0750	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4,5-Trichlorophenol	ND		0.371	0.0425	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4,6-Trichlorophenol	ND		0.188	0.0459	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4-Dichlorophenol	ND		0.188	0.0748	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4-Dimethylphenol	ND		0.371	0.0544	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,4-Dinitrophenol	ND		0.371	0.0976	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0608'
Date Collected: 03/02/23 15:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-10
Matrix: Solid
Percent Solids: 87.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2,6-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Chloronaphthalene	ND		0.371	0.0858	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Chlorophenol	ND		0.188	0.0768	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Methylnaphthalene	ND		0.0750	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Methylphenol	ND		0.371	0.0542	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Nitroaniline	ND		0.371	0.0353	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
2-Nitrophenol	ND		0.188	0.0667	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
3 & 4 Methylphenol	ND		0.371	0.0703	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
3,3'-Dichlorobenzidine	ND		0.371	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
3-Nitroaniline	ND		0.371	0.0332	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4,6-Dinitro-2-methylphenol	ND		0.371	0.0667	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Bromophenyl phenyl ether	ND		0.371	0.0420	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Chloro-3-methylphenol	ND		0.371	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Chloroaniline	ND		0.188	0.0285	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Chlorophenyl phenyl ether	ND		0.371	0.0397	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Nitroaniline	ND		0.188	0.0593	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
4-Nitrophenol	ND		0.371	0.129	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Acenaphthene	ND		0.0750	0.0598	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Acenaphthylene	ND		0.0750	0.0493	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Acetophenone	ND		0.188	0.0458	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Aniline	ND		0.371	0.0285	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Anthracene	ND		0.0750	0.0434	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Azobenzene/Diphenyldiazene	ND		0.371	0.0633	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzidine	ND		0.742	0.110	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[a]anthracene	ND		0.0750	0.0422	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[a]pyrene	ND		0.0750	0.0537	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[b]fluoranthene	ND		0.0750	0.0622	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[g,h,i]perylene	ND		0.0750	0.0586	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzo[k]fluoranthene	ND		0.0750	0.0584	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzoic acid	ND	*- *1	0.371	0.255	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Benzyl alcohol	ND		0.371	0.0673	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Bis(2-chloroethoxy)methane	ND		0.371	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Bis(2-chloroethyl)ether	ND		0.188	0.0614	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
bis (2-chloroisopropyl) ether	ND		0.188	0.0836	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Bis(2-ethylhexyl) phthalate	ND		0.188	0.0478	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Butyl benzyl phthalate	ND		0.371	0.0372	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Carbazole	ND		0.188	0.0492	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Chrysene	ND		0.0750	0.0424	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Dibenz(a,h)anthracene	ND		0.0750	0.0573	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Dibenzofuran	ND		0.188	0.0650	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Diethyl phthalate	ND		0.371	0.0407	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Dimethyl phthalate	ND		0.371	0.0484	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Di-n-butyl phthalate	ND		0.371	0.0397	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Di-n-octyl phthalate	ND		0.371	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Fluoranthene	ND		0.0750	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Fluorene	ND		0.0750	0.0685	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Hexachlorobenzene	ND		0.188	0.0521	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Hexachlorobutadiene	ND		0.188	0.0937	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.188	0.0718	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Hexachloroethane	ND		0.188	0.0738	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0750	0.0637	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Isophorone	ND		0.188	0.0514	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Naphthalene	ND		0.0750	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Nitrobenzene	ND		0.188	0.0867	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
N-Nitrosodimethylamine	ND		0.188	0.0493	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
N-Nitrosodi-n-propylamine	ND		0.188	0.0748	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
N-Nitrosodiphenylamine	ND		0.371	0.0474	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pentachloronitrobenzene	ND		0.371	0.0586	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pentachlorophenol	ND		0.371	0.152	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Phenanthrene	ND		0.0750	0.0425	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Phenol	ND		0.371	0.0765	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pyrene	ND		0.0750	0.0414	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1
Pyridine	ND		0.371	0.0878	mg/Kg	☼	03/13/23 11:00	03/14/23 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
Phenol-d5 (Surr)	*90*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/13/23 11:00*	*03/14/23 22:45*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/13/23 11:00*	*03/14/23 22:45*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.334	0.171	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.334	0.143	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Ethylbenzene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Methyl tert-butyl ether	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
m,p-Xylene	ND		0.134	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Naphthalene	ND		0.0669	0.0455	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
o-Xylene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
Toluene	ND		0.0669	0.0134	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.334	0.171	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
C9-C10 Aromatics	ND		0.334	0.0468	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.334	0.143	mg/Kg	☼	03/07/23 07:22	03/07/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:49*	*1*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 21:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1221	ND		0.0228	0.00674	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1232	ND		0.0228	0.00632	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00361	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1248	ND		0.0228	0.00713	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1254	ND		0.0228	0.0178	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1260	ND		0.0228	0.00491	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1
PCB-1268	ND		0.0228	0.00486	mg/Kg	☼	03/09/23 15:26	03/11/23 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/09/23 15:26*	*03/11/23 04:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoroheptanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorononanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorodecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorotridecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorotetradecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorobutanesulfonic acid	ND		2.21	0.442	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorohexanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NEtFOSAA	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NMeFOSAA	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
10:2 FTS	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoropentanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoroheptanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorononanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorodecanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctanesulfonamide	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorohexadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorooctadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorobutanoic acid	ND		2.21	0.883	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoropentanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NMeFOSE	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NMeFOSA	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NEtFOSE	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
NEtFOSA	ND		2.21	0.552	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
HFPODA	ND		2.21	1.10	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
DONA	ND		3.31	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
9Cl-PF3ONS	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
11Cl-PF3OUdS	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluorododecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
4:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
Perfluoroundecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1

Client Sample ID: 2023-SB-08-0608' **Lab Sample ID: 620-10117-10**
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1
8:2 Fluorotelomer sulfonic acid	ND		3.31	0.662	ug/Kg	☼	03/07/23 22:53	03/16/23 00:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
M2-8:2 FTS	*84*		*15 - 200*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C5 PFHxA	*105*		*10 - 174*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C8 PFOA	*112*		*26 - 159*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C9 PFNA	*104*		*26 - 165*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C6 PFDA	*102*		*26 - 161*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C7 PFUnA	*114*		*12 - 173*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C8 PFOS	*114*		*41 - 154*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d3-NMeFOSAA	*23*		*10 - 178*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d5-NEtFOSAA	*30*		*10 - 193*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C5 PFPeA	*104*		*24 - 161*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d3-NMePFOSA	*99*		*10 - 175*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
d5-NEtPFOSA	*108*		*10 - 180*	*03/07/23 22:53*	*03/16/23 00:48*	*1*
13C3 HFPO-DA	*106*		*10 - 169*	*03/07/23 22:53*	*03/16/23 00:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.45	1.51	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Arsenic	**7.29**		2.67	1.25	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Barium	**42.7**		0.445	0.134	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Beryllium	**0.731**		0.445	0.0890	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Cadmium	ND		0.445	0.0890	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Chromium	**12.3**		1.34	0.312	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Lead	**4.75**		1.34	0.534	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Nickel	**4.74**		0.890	0.231	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Selenium	ND		4.45	1.34	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Silver	ND	^3+	0.890	0.356	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Thallium	ND		2.67	1.16	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Vanadium	**23.0**		0.890	0.383	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1
Zinc	**24.2**		1.78	0.712	mg/Kg	☼	03/07/23 19:52	03/09/23 06:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0689	0.0230	mg/Kg	☼	03/08/23 00:46	03/09/23 08:00	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0608'
Date Collected: 03/02/23 15:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-10
Matrix: Solid
Percent Solids: 87.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.9		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.1		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0810'
Date Collected: 03/02/23 15:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-11
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Acetone	ND	*3	0.0509	0.0114	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Acrylonitrile	ND	*3	0.00509	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Benzene	ND	*3	0.00509	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromobenzene	ND	*3	0.00509	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromochloromethane	ND	*3	0.00509	0.00289	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromodichloromethane	ND	*3	0.00509	0.00374	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromoform	ND	*3	0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Bromomethane	ND	*3	0.0102	0.00635	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2-Butanone (MEK)	ND	*3	0.0102	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
n-Butylbenzene	ND	*3	0.0102	0.00546	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
sec-Butylbenzene	ND	*3	0.00509	0.00410	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
tert-Butylbenzene	ND	*3	0.00509	0.00401	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Carbon disulfide	ND	*3	0.0102	0.00358	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Carbon tetrachloride	ND	*3	0.00509	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chlorobenzene	ND	*3	0.00509	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chloroethane	ND	*3	0.0102	0.00374	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chloroform	ND	*3	0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Chloromethane	ND	*3	0.0102	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2-Chlorotoluene	ND	*3	0.00509	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
4-Chlorotoluene	ND	*3	0.00509	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0102	0.00432	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Dibromochloromethane	ND	*3	0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dibromoethane (EDB)	ND	*3	0.00509	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Dibromomethane	ND	*3	0.00509	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dichlorobenzene	ND	*3	0.00509	0.00473	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3-Dichlorobenzene	ND	*3	0.00509	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,4-Dichlorobenzene	ND	*3	0.00509	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1-Dichloroethane	ND	*3	0.00509	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dichloroethane	ND	*3	0.00509	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1-Dichloroethene	ND	*3	0.00509	0.00312	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
cis-1,2-Dichloroethene	ND	*3	0.00509	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
trans-1,2-Dichloroethene	ND	*3	0.00509	0.00317	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2-Dichloropropane	ND	*3	0.00509	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3-Dichloropropane	ND	*3	0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2,2-Dichloropropane	ND	*3	0.00509	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1-Dichloropropene	ND	*3	0.00509	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
cis-1,3-Dichloropropene	ND	*3	0.00509	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
trans-1,3-Dichloropropene	ND	*3	0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethylbenzene	ND	*3	0.00509	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Hexachlorobutadiene	ND	*3	0.0102	0.00512	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
2-Hexanone (MBK)	ND	*3	0.0102	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Isopropylbenzene	ND	*3	0.00509	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
4-Isopropyltoluene	ND	*3	0.00509	0.00500	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Methyl tert-butyl ether	ND	*3	0.00509	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0102	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Methylene Chloride	**0.00353**	**J B *3**	0.0102	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Naphthalene	ND	*3	0.00509	0.00460	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1

Client Sample ID: 2023-SB-08-0810'
Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00509	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Styrene	ND	*3	0.00509	0.00394	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00509	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00509	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Tetrachloroethene	ND	*3	0.00509	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Toluene	ND	*3	0.00509	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,3-Trichlorobenzene	ND	*3	0.00509	0.00430	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,4-Trichlorobenzene	ND	*3	0.00509	0.00470	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3,5-Trichlorobenzene	ND	*3	0.00509	0.00484	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,1-Trichloroethane	ND	*3	0.00509	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,1,2-Trichloroethane	ND	*3	0.00509	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Trichloroethene	ND	*3	0.00509	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00509	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,3-Trichloropropane	ND	*3	0.00509	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,2,4-Trimethylbenzene	ND	*3	0.00509	0.00431	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3,5-Trimethylbenzene	ND	*3	0.00509	0.00433	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Vinyl chloride	ND	*3	0.00509	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
m,p-Xylene	ND	*3	0.00509	0.00696	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
o-Xylene	ND	*3	0.00509	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Tetrahydrofuran	ND	*3	0.0102	0.00258	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethyl ether	ND	*3	0.00509	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Tert-amyl methyl ether	ND	*3	0.00509	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethyl tert-butyl ether	ND	*3	0.00509	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
di-Isopropyl ether	ND	*3	0.00509	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
tert-Butanol	ND	*3	0.102	0.0273	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,4-Dioxane	ND	*3	0.102	0.0317	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0255	0.00376	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Ethanol	ND	*3	1.02	0.0632	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
1,3-Dichloropropene, Total	ND		0.00509	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1
Xylenes, Total	ND		0.0153	0.00509	mg/Kg	☼	03/08/23 10:32	03/08/23 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*
Toluene-d8 (Surr)	*103*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*
Dibromofluoromethane (Surr)	*115*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:21*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Acetone	ND	*3	0.0485	0.0109	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Acrylonitrile	ND	*3	0.00485	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Benzene	ND	*3	0.00485	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromobenzene	ND	*3	0.00485	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromochloromethane	ND	*3	0.00485	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromodichloromethane	ND	*3	0.00485	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromoform	ND	*3	0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Bromomethane	ND	*3 *+	0.00970	0.00604	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2-Butanone (MEK)	ND	*3	0.00970	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00970	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
sec-Butylbenzene	ND	*3	0.00485	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
tert-Butylbenzene	ND	*3	0.00485	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Carbon disulfide	ND	*3	0.00970	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Carbon tetrachloride	ND	*3	0.00485	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chlorobenzene	ND	*3	0.00485	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chloroethane	ND	*3	0.00970	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chloroform	ND	*3	0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Chloromethane	ND	*3	0.00970	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2-Chlorotoluene	ND	*3	0.00485	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
4-Chlorotoluene	ND	*3	0.00485	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00970	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Dibromochloromethane	ND	*3	0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dibromoethane (EDB)	ND	*3	0.00485	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Dibromomethane	ND	*3	0.00485	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dichlorobenzene	ND	*3	0.00485	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3-Dichlorobenzene	ND	*3	0.00485	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,4-Dichlorobenzene	ND	*3	0.00485	0.00460	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1-Dichloroethane	ND	*3	0.00485	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dichloroethane	ND	*3	0.00485	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1-Dichloroethene	ND	*3	0.00485	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
cis-1,2-Dichloroethene	ND	*3	0.00485	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
trans-1,2-Dichloroethene	ND	*3	0.00485	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2-Dichloropropane	ND	*3	0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3-Dichloropropane	ND	*3	0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2,2-Dichloropropane	ND	*3	0.00485	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1-Dichloropropene	ND	*3	0.00485	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
cis-1,3-Dichloropropene	ND	*3	0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
trans-1,3-Dichloropropene	ND	*3	0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethylbenzene	ND	*3	0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Hexachlorobutadiene	ND	*3	0.00970	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
2-Hexanone (MBK)	ND	*3	0.00970	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Isopropylbenzene	ND	*3	0.00485	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
4-Isopropyltoluene	ND	*3	0.00485	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Methyl tert-butyl ether	ND	*3	0.00485	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00970	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Methylene Chloride	ND	*3	0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Naphthalene	ND	*3	0.00485	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
N-Propylbenzene	ND	*3	0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Styrene	ND	*3	0.00485	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00485	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00485	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Tetrachloroethene	ND	*3	0.00485	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Toluene	ND	*3	0.00485	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,3-Trichlorobenzene	ND	*3	0.00485	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,4-Trichlorobenzene	ND	*3	0.00485	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3,5-Trichlorobenzene	ND	*3	0.00485	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,1,1-Trichloroethane	ND	*3	0.00485	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00485	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Trichloroethene	ND	*3	0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,3-Trichloropropane	ND	*3	0.00485	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,2,4-Trimethylbenzene	ND	*3	0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3,5-Trimethylbenzene	ND	*3	0.00485	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Vinyl chloride	ND	*3	0.00485	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
m,p-Xylene	ND	*3	0.00485	0.00663	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
o-Xylene	ND	*3	0.00485	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Tetrahydrofuran	ND	*3	0.00970	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethyl ether	ND	*3	0.00485	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Tert-amyl methyl ether	ND	*3	0.00485	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethyl tert-butyl ether	ND	*3	0.00485	0.00319	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
di-Isopropyl ether	ND	*3	0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
tert-Butanol	ND	*3	0.0970	0.0260	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,4-Dioxane	ND	*3	0.0970	0.0302	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0243	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Ethanol	ND	*3	0.970	0.0601	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
1,3-Dichloropropene, Total	ND		0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1
Xylenes, Total	ND		0.0146	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*
Toluene-d8 (Surr)	*101*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*
Dibromofluoromethane (Surr)	*120*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.346	0.0616	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,2,4-Trichlorobenzene	ND		0.346	0.0793	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,2-Dichlorobenzene	ND		0.346	0.0667	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,3-Dichlorobenzene	ND		0.346	0.0838	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1,4-Dichlorobenzene	ND		0.346	0.0815	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
1-Methylnaphthalene	ND		0.0700	0.0588	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4,5-Trichlorophenol	ND		0.346	0.0397	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4,6-Trichlorophenol	ND		0.175	0.0428	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dichlorophenol	ND		0.175	0.0698	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dimethylphenol	ND		0.346	0.0508	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dinitrophenol	ND		0.346	0.0911	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,4-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2,6-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Chloronaphthalene	ND		0.346	0.0801	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Chlorophenol	ND		0.175	0.0717	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Methylnaphthalene	ND		0.0700	0.0517	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Methylphenol	ND		0.346	0.0506	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Nitroaniline	ND		0.346	0.0330	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
2-Nitrophenol	ND		0.175	0.0622	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
3 & 4 Methylphenol	ND		0.346	0.0656	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
3,3'-Dichlorobenzidine	ND		0.346	0.0572	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0810'
Date Collected: 03/02/23 15:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-11
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.346	0.0310	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4,6-Dinitro-2-methylphenol	ND		0.346	0.0622	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Bromophenyl phenyl ether	ND		0.346	0.0391	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Chloro-3-methylphenol	ND		0.346	0.0678	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Chloroaniline	ND		0.175	0.0266	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Chlorophenyl phenyl ether	ND		0.346	0.0370	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Nitroaniline	ND		0.175	0.0553	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
4-Nitrophenol	ND		0.346	0.121	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Acenaphthene	ND		0.0700	0.0558	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Acenaphthylene	ND		0.0700	0.0460	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Acetophenone	ND		0.175	0.0427	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Aniline	ND		0.346	0.0266	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Anthracene	ND		0.0700	0.0405	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Azobenzene/Diphenyldiazene	ND		0.346	0.0591	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzidine	ND		0.693	0.103	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[a]anthracene	ND		0.0700	0.0394	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[a]pyrene	ND		0.0700	0.0501	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[b]fluoranthene	ND		0.0700	0.0580	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[g,h,i]perylene	ND		0.0700	0.0547	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzo[k]fluoranthene	ND		0.0700	0.0545	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzoic acid	ND	*- *1	0.346	0.238	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Benzyl alcohol	ND		0.346	0.0628	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Bis(2-chloroethoxy)methane	ND		0.346	0.0602	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Bis(2-chloroethyl)ether	ND		0.175	0.0573	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0780	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Bis(2-ethylhexyl) phthalate	ND		0.175	0.0446	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Butyl benzyl phthalate	ND		0.346	0.0347	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Carbazole	ND		0.175	0.0459	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Chrysene	ND		0.0700	0.0396	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Dibenz(a,h)anthracene	ND		0.0700	0.0534	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Dibenzofuran	ND		0.175	0.0607	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Diethyl phthalate	ND		0.346	0.0380	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Dimethyl phthalate	ND		0.346	0.0451	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Di-n-butyl phthalate	ND		0.346	0.0370	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Di-n-octyl phthalate	ND		0.346	0.0572	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Fluoranthene	ND		0.0700	0.0410	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Fluorene	ND		0.0700	0.0639	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachlorobenzene	ND		0.175	0.0486	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachlorobutadiene	ND		0.175	0.0874	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachlorocyclopentadiene	ND		0.175	0.0670	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Hexachloroethane	ND		0.175	0.0688	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0700	0.0594	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Isophorone	ND		0.175	0.0480	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Naphthalene	ND		0.0700	0.0672	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Nitrobenzene	ND		0.175	0.0809	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
N-Nitrosodimethylamine	ND		0.175	0.0460	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0698	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
N-Nitrosodiphenylamine	ND		0.346	0.0442	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Pentachloronitrobenzene	ND		0.346	0.0547	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1

Client Sample ID: 2023-SB-08-0810' Lab Sample ID: 620-10117-11

Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.346	0.142	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Phenanthrene	ND		0.0700	0.0397	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Phenol	ND		0.346	0.0714	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Pyrene	ND		0.0700	0.0386	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1
Pyridine	ND		0.346	0.0820	mg/Kg	☼	03/13/23 11:00	03/15/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
Phenol-d5 (Surr)	*89*		*15 - 110*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*	*03/13/23 11:00*	*03/15/23 20:37*	*1*
Terphenyl-d14	*87*		*30 - 130*	*03/13/23 11:00*	*03/15/23 20:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.233	0.119	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.233	0.0997	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Ethylbenzene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Methyl tert-butyl ether	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
m,p-Xylene	ND		0.0932	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Naphthalene	ND		0.0466	0.0317	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
o-Xylene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
Toluene	ND		0.0466	0.00932	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
C5-C8 Aliphatics (unadjusted)	ND		0.233	0.119	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
C9-C10 Aromatics	ND		0.233	0.0326	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1
C9-C12 Aliphatics (unadjusted)	ND		0.233	0.0997	mg/Kg	☼	03/07/23 07:22	03/07/23 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:07*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:07*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1221	ND		0.0208	0.00615	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1232	ND		0.0208	0.00577	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1254	ND		0.0208	0.0162	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1262	ND		0.0208	0.00485	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1260	ND		0.0208	0.00448	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/09/23 15:26	03/11/23 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 05:50*	*1*
Tetrachloro-m-xylene	*106*		*30 - 150*	*03/09/23 15:26*	*03/11/23 05:50*	*1*

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	117		30 - 150	03/09/23 15:26	03/11/23 05:50	1
DCB Decachlorobiphenyl (Surr)	123		30 - 150	03/09/23 15:26	03/11/23 05:50	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoroheptanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorononanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorodecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorotridecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorotetradecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorobutanesulfonic acid	ND		2.10	0.420	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorohexanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NEtFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NMeFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
10:2 FTS	ND		2.10	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoropentanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoroheptanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorononanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorodecanesulfonic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctanesulfonamide	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorohexadecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorooctadecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorobutanoic acid	ND		2.10	0.839	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoropentanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NMeFOSE	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NMeFOSA	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NEtFOSE	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
NEtFOSA	ND		2.10	0.525	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
HFPODA	ND		2.10	1.05	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
DONA	ND		3.15	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
9Cl-PF3ONS	ND		2.10	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
11Cl-PF3OUdS	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluorododecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.10	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
Perfluoroundecanoic acid	ND		0.630	0.210	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
6:2 Fluorotelomer sulfonic acid	ND		2.10	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.15	0.630	ug/Kg	☼	03/07/23 22:53	03/16/23 00:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	78		10 - 200	03/07/23 22:53	03/16/23 00:59	1
M2-8:2 FTS	82		15 - 200	03/07/23 22:53	03/16/23 00:59	1
M2-6:2 FTS	101		10 - 200	03/07/23 22:53	03/16/23 00:59	1
13C5 PFHxA	98		10 - 174	03/07/23 22:53	03/16/23 00:59	1
13C4 PFHpA	105		10 - 178	03/07/23 22:53	03/16/23 00:59	1
13C8 PFOA	111		26 - 159	03/07/23 22:53	03/16/23 00:59	1

Client Sample ID: 2023-SB-08-0810' **Lab Sample ID: 620-10117-11**
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	103		26 - 165	03/07/23 22:53	03/16/23 00:59	1
13C6 PFDA	91		26 - 161	03/07/23 22:53	03/16/23 00:59	1
13C7 PFUnA	100		12 - 173	03/07/23 22:53	03/16/23 00:59	1
13C2-PFDoDA	87		11 - 166	03/07/23 22:53	03/16/23 00:59	1
13C2 PFTeDA	105		10 - 169	03/07/23 22:53	03/16/23 00:59	1
13C3 PFBS	118		27 - 179	03/07/23 22:53	03/16/23 00:59	1
13C3 PFHxS	115		24 - 171	03/07/23 22:53	03/16/23 00:59	1
13C8 PFOS	108		41 - 154	03/07/23 22:53	03/16/23 00:59	1
d3-NMeFOSAA	19		10 - 178	03/07/23 22:53	03/16/23 00:59	1
d5-NEtFOSAA	25		10 - 193	03/07/23 22:53	03/16/23 00:59	1
13C8 FOSA	88		14 - 163	03/07/23 22:53	03/16/23 00:59	1
13C4 PFBA	93		28 - 153	03/07/23 22:53	03/16/23 00:59	1
13C5 PFPeA	91		24 - 161	03/07/23 22:53	03/16/23 00:59	1
d7-N-MeFOSE-M	82		10 - 179	03/07/23 22:53	03/16/23 00:59	1
d3-NMePFOSA	77		10 - 175	03/07/23 22:53	03/16/23 00:59	1
d9-N-EtFOSE-M	89		10 - 185	03/07/23 22:53	03/16/23 00:59	1
d5-NEtPFOSA	80		10 - 180	03/07/23 22:53	03/16/23 00:59	1
13C3 HFPO-DA	88		10 - 169	03/07/23 22:53	03/16/23 00:59	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.82	1.64	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Arsenic	**5.85**		2.89	1.35	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Barium	**31.0**		0.482	0.145	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Beryllium	**0.425**	**J**	0.482	0.0963	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Cadmium	ND		0.482	0.0963	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Chromium	**9.87**		1.45	0.337	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Lead	**4.39**		1.45	0.578	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Nickel	**3.74**		0.963	0.250	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Selenium	ND		4.82	1.45	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Silver	ND	^3+	0.963	0.385	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Thallium	ND		2.89	1.25	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Vanadium	**11.1**		0.963	0.414	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1
Zinc	**16.0**		1.93	0.771	mg/Kg	☼	03/07/23 13:12	03/09/23 10:03	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0615	0.0205	mg/Kg	☼	03/07/23 13:21	03/08/23 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.6**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**94.4**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-1012'
Date Collected: 03/02/23 15:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-12
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00598	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Acetone	ND	*3	0.0598	0.0134	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Acrylonitrile	ND	*3	0.00598	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Benzene	ND	*3	0.00598	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromobenzene	ND	*3	0.00598	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromochloromethane	ND	*3	0.00598	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromodichloromethane	ND	*3	0.00598	0.00439	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromoform	ND	*3	0.00598	0.00457	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Bromomethane	ND	*3	0.0120	0.00745	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2-Butanone (MEK)	ND	*3	0.0120	0.00476	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
n-Butylbenzene	ND	*3	0.0120	0.00641	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
sec-Butylbenzene	ND	*3	0.00598	0.00482	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
tert-Butylbenzene	ND	*3	0.00598	0.00471	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Carbon disulfide	ND	*3	0.0120	0.00420	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Carbon tetrachloride	ND	*3	0.00598	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chlorobenzene	ND	*3	0.00598	0.00437	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chloroethane	ND	*3	0.0120	0.00439	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chloroform	ND	*3	0.00598	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Chloromethane	ND	*3	0.0120	0.00459	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2-Chlorotoluene	ND	*3	0.00598	0.00476	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
4-Chlorotoluene	ND	*3	0.00598	0.00519	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0120	0.00507	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Dibromochloromethane	ND	*3	0.00598	0.00396	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dibromoethane (EDB)	ND	*3	0.00598	0.00429	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Dibromomethane	ND	*3	0.00598	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dichlorobenzene	ND	*3	0.00598	0.00555	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3-Dichlorobenzene	ND	*3	0.00598	0.00479	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,4-Dichlorobenzene	ND	*3	0.00598	0.00567	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0120	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1-Dichloroethane	ND	*3	0.00598	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dichloroethane	ND	*3	0.00598	0.00403	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1-Dichloroethene	ND	*3	0.00598	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
cis-1,2-Dichloroethene	ND	*3	0.00598	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
trans-1,2-Dichloroethene	ND	*3	0.00598	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2-Dichloropropane	ND	*3	0.00598	0.00396	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3-Dichloropropane	ND	*3	0.00598	0.00457	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2,2-Dichloropropane	ND	*3	0.00598	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1-Dichloropropene	ND	*3	0.00598	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
cis-1,3-Dichloropropene	ND	*3	0.00598	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
trans-1,3-Dichloropropene	ND	*3	0.00598	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethylbenzene	ND	*3	0.00598	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Hexachlorobutadiene	ND	*3	0.0120	0.00601	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
2-Hexanone (MBK)	ND	*3	0.0120	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Isopropylbenzene	ND	*3	0.00598	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
4-Isopropyltoluene	ND	*3	0.00598	0.00587	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Methyl tert-butyl ether	ND	*3	0.00598	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0120	0.00386	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Methylene Chloride	ND	*3	0.0120	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Naphthalene	ND	*3	0.00598	0.00540	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1

Client Sample ID: 2023-SB-08-1012' **Lab Sample ID: 620-10117-12**
Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00598	0.00506	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Styrene	ND	*3	0.00598	0.00463	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00598	0.00448	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00598	0.00547	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Tetrachloroethene	ND	*3	0.00598	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Toluene	ND	*3	0.00598	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,3-Trichlorobenzene	ND	*3	0.00598	0.00504	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,4-Trichlorobenzene	ND	*3	0.00598	0.00551	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3,5-Trichlorobenzene	ND	*3	0.00598	0.00568	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,1-Trichloroethane	ND	*3	0.00598	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,1,2-Trichloroethane	ND	*3	0.00598	0.00451	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Trichloroethene	ND	*3	0.00598	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00598	0.00457	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,3-Trichloropropane	ND	*3	0.00598	0.00531	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,2,4-Trimethylbenzene	ND	*3	0.00598	0.00506	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3,5-Trimethylbenzene	ND	*3	0.00598	0.00508	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Vinyl chloride	ND	*3	0.00598	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
m,p-Xylene	ND	*3	0.00598	0.00816	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
o-Xylene	ND	*3	0.00598	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Tetrahydrofuran	ND	*3	0.0120	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethyl ether	ND	*3	0.00598	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Tert-amyl methyl ether	ND	*3	0.00598	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethyl tert-butyl ether	ND	*3	0.00598	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
di-Isopropyl ether	ND	*3	0.00598	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
tert-Butanol	ND	*3	0.120	0.0320	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,4-Dioxane	ND	*3	0.120	0.0372	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0299	0.00441	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Ethanol	ND	*3	1.20	0.0741	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
1,3-Dichloropropene, Total	ND		0.00598	0.00454	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1
Xylenes, Total	ND		0.0179	0.00598	mg/Kg	☼	03/08/23 10:32	03/08/23 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*
Toluene-d8 (Surr)	*102*	*3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*150*	*S1+ *3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*
Dibromofluoromethane (Surr)	*147*	*S1+ *3	*70 - 130*	*03/08/23 10:32*	*03/08/23 20:47*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00560	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Acetone	ND	*3	0.0560	0.0126	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Acrylonitrile	ND	*3	0.00560	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Benzene	ND	*3	0.00560	0.00374	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromobenzene	ND	*3	0.00560	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromochloromethane	ND	*3	0.00560	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromodichloromethane	ND	*3	0.00560	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromoform	ND	*3	0.00560	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Bromomethane	ND	*3 *+	0.0112	0.00698	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2-Butanone (MEK)	ND	*3	0.0112	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-1012'
Date Collected: 03/02/23 15:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-12
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0112	0.00601	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
sec-Butylbenzene	ND	*3	0.00560	0.00452	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
tert-Butylbenzene	ND	*3	0.00560	0.00442	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Carbon disulfide	ND	*3	0.0112	0.00393	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Carbon tetrachloride	ND	*3	0.00560	0.00353	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chlorobenzene	ND	*3	0.00560	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chloroethane	ND	*3	0.0112	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chloroform	ND	*3	0.00560	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Chloromethane	ND	*3	0.0112	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2-Chlorotoluene	ND	*3	0.00560	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
4-Chlorotoluene	ND	*3	0.00560	0.00486	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0112	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Dibromochloromethane	ND	*3	0.00560	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dibromoethane (EDB)	ND	*3	0.00560	0.00402	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Dibromomethane	ND	*3	0.00560	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dichlorobenzene	ND	*3	0.00560	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3-Dichlorobenzene	ND	*3	0.00560	0.00449	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,4-Dichlorobenzene	ND	*3	0.00560	0.00531	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0112	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1-Dichloroethane	ND	*3	0.00560	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dichloroethane	ND	*3	0.00560	0.00378	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1-Dichloroethene	ND	*3	0.00560	0.00343	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
cis-1,2-Dichloroethene	ND	*3	0.00560	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
trans-1,2-Dichloroethene	ND	*3	0.00560	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2-Dichloropropane	ND	*3	0.00560	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3-Dichloropropane	ND	*3	0.00560	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2,2-Dichloropropane	ND	*3	0.00560	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1-Dichloropropene	ND	*3	0.00560	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
cis-1,3-Dichloropropene	ND	*3	0.00560	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
trans-1,3-Dichloropropene	ND	*3	0.00560	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethylbenzene	ND	*3	0.00560	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Hexachlorobutadiene	ND	*3	0.0112	0.00564	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
2-Hexanone (MBK)	ND	*3	0.0112	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Isopropylbenzene	ND	*3	0.00560	0.00424	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
4-Isopropyltoluene	ND	*3	0.00560	0.00550	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Methyl tert-butyl ether	ND	*3	0.00560	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0112	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Methylene Chloride	ND	*3	0.0112	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Naphthalene	ND	*3	0.00560	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
N-Propylbenzene	ND	*3	0.00560	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Styrene	ND	*3	0.00560	0.00434	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00560	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00560	0.00513	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Tetrachloroethene	ND	*3	0.00560	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Toluene	ND	*3	0.00560	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,3-Trichlorobenzene	ND	*3	0.00560	0.00473	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,4-Trichlorobenzene	ND	*3	0.00560	0.00517	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3,5-Trichlorobenzene	ND	*3	0.00560	0.00532	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,1,1-Trichloroethane	ND	*3	0.00560	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1

Client Sample ID: 2023-SB-08-1012' **Lab Sample ID: 620-10117-12**
Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00560	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Trichloroethene	ND	*3	0.00560	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00560	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,3-Trichloropropane	ND	*3	0.00560	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,2,4-Trimethylbenzene	ND	*3	0.00560	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3,5-Trimethylbenzene	ND	*3	0.00560	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Vinyl chloride	ND	*3	0.00560	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
m,p-Xylene	ND	*3	0.00560	0.00765	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
o-Xylene	ND	*3	0.00560	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Tetrahydrofuran	ND	*3	0.0112	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethyl ether	ND	*3	0.00560	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Tert-amyl methyl ether	ND	*3	0.00560	0.00443	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethyl tert-butyl ether	ND	*3	0.00560	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
di-Isopropyl ether	ND	*3	0.00560	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
tert-Butanol	ND	*3	0.112	0.0300	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,4-Dioxane	ND	*3	0.112	0.0349	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0280	0.00414	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Ethanol	ND	*3	1.12	0.0695	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
1,3-Dichloropropene, Total	ND		0.00560	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1
Xylenes, Total	ND		0.0168	0.00560	mg/Kg	☼	03/10/23 09:34	03/10/23 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*	**3*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*
Toluene-d8 (Surr)	*99*	**3*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*152*	**3 S1+*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*
Dibromofluoromethane (Surr)	*153*	**3 S1+*	*70 - 130*	*03/10/23 09:34*	*03/10/23 15:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.384	0.0683	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,2,4-Trichlorobenzene	ND		0.384	0.0880	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,2-Dichlorobenzene	ND		0.384	0.0740	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,3-Dichlorobenzene	ND		0.384	0.0930	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1,4-Dichlorobenzene	ND		0.384	0.0904	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
1-Methylnaphthalene	ND		0.0776	0.0652	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4,5-Trichlorophenol	ND		0.384	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4,6-Trichlorophenol	ND		0.194	0.0475	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dichlorophenol	ND		0.194	0.0774	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dimethylphenol	ND		0.384	0.0563	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dinitrophenol	ND		0.384	0.101	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,4-Dinitrotoluene	ND		0.194	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2,6-Dinitrotoluene	ND		0.194	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Chloronaphthalene	ND		0.384	0.0888	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Chlorophenol	ND		0.194	0.0795	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Methylnaphthalene	ND		0.0776	0.0574	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Methylphenol	ND		0.384	0.0561	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Nitroaniline	ND		0.384	0.0365	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
2-Nitrophenol	ND		0.194	0.0690	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
3 & 4 Methylphenol	ND		0.384	0.0727	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
3,3'-Dichlorobenzidine	ND		0.384	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-1012'
Date Collected: 03/02/23 15:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-12
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.384	0.0343	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4,6-Dinitro-2-methylphenol	ND		0.384	0.0690	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Bromophenyl phenyl ether	ND		0.384	0.0434	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Chloro-3-methylphenol	ND		0.384	0.0752	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Chloroaniline	ND		0.194	0.0294	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Chlorophenyl phenyl ether	ND		0.384	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Nitroaniline	ND		0.194	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
4-Nitrophenol	ND		0.384	0.134	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Acenaphthene	ND		0.0776	0.0619	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Acenaphthylene	ND		0.0776	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Acetophenone	ND		0.194	0.0474	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Aniline	ND		0.384	0.0294	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Anthracene	ND		0.0776	0.0449	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Azobenzene/Diphenyldiazene	ND		0.384	0.0655	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzidine	ND		0.768	0.114	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[a]anthracene	ND		0.0776	0.0436	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[a]pyrene	ND		0.0776	0.0555	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[b]fluoranthene	ND		0.0776	0.0643	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[g,h,i]perylene	ND		0.0776	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzo[k]fluoranthene	ND		0.0776	0.0604	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzoic acid	ND	*- *1	0.384	0.264	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Benzyl alcohol	ND		0.384	0.0696	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Bis(2-chloroethoxy)methane	ND		0.384	0.0668	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Bis(2-chloroethyl)ether	ND		0.194	0.0635	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
bis (2-chloroisopropyl) ether	ND		0.194	0.0864	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Bis(2-ethylhexyl) phthalate	ND		0.194	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Butyl benzyl phthalate	ND		0.384	0.0385	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Carbazole	ND		0.194	0.0508	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Chrysene	ND		0.0776	0.0439	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Dibenz(a,h)anthracene	ND		0.0776	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Dibenzofuran	ND		0.194	0.0672	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Diethyl phthalate	ND		0.384	0.0421	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Dimethyl phthalate	ND		0.384	0.0500	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Di-n-butyl phthalate	ND		0.384	0.0411	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Di-n-octyl phthalate	ND		0.384	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Fluoranthene	ND		0.0776	0.0455	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Fluorene	ND		0.0776	0.0709	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachlorobenzene	ND		0.194	0.0539	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachlorobutadiene	ND		0.194	0.0969	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachlorocyclopentadiene	ND		0.194	0.0742	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Hexachloroethane	ND		0.194	0.0763	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0776	0.0659	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Isophorone	ND		0.194	0.0532	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Naphthalene	ND		0.0776	0.0745	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Nitrobenzene	ND		0.194	0.0897	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
N-Nitrosodimethylamine	ND		0.194	0.0510	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
N-Nitrosodi-n-propylamine	ND		0.194	0.0774	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
N-Nitrosodiphenylamine	ND		0.384	0.0490	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Pentachloronitrobenzene	ND		0.384	0.0606	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1

Client Sample ID: 2023-SB-08-1012' **Lab Sample ID: 620-10117-12**
Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.384	0.157	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Phenanthrene	ND		0.0776	0.0440	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Phenol	ND		0.384	0.0791	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Pyrene	ND		0.0776	0.0428	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1
Pyridine	ND		0.384	0.0909	mg/Kg	☼	03/13/23 11:00	03/14/23 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
Phenol-d5 (Surr)	*93*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/13/23 11:00*	*03/14/23 21:20*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/13/23 11:00*	*03/14/23 21:20*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.282	0.145	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.282	0.121	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Ethylbenzene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Methyl tert-butyl ether	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Naphthalene	ND		0.0565	0.0384	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
o-Xylene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
Toluene	ND		0.0565	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
C5-C8 Aliphatics (unadjusted)	ND		0.282	0.145	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
C9-C10 Aromatics	ND		0.282	0.0395	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1
C9-C12 Aliphatics (unadjusted)	ND		0.282	0.121	mg/Kg	☼	03/07/23 07:22	03/07/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:47*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/07/23 07:22*	*03/07/23 23:47*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1221	ND		0.0232	0.00685	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1232	ND		0.0232	0.00642	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1242	ND		0.0232	0.00366	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1248	ND		0.0232	0.00725	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1254	**0.0276**		0.0232	0.0180	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1262	ND		0.0232	0.00540	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1260	ND		0.0232	0.00499	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1
PCB-1268	ND		0.0232	0.00494	mg/Kg	☼	03/09/23 15:26	03/11/23 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:26*	*03/11/23 06:08*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:26*	*03/11/23 06:08*	*1*

Client Sample ID: 2023-SB-08-1012'
Lab Sample ID: 620-10117-12
Date Collected: 03/02/23 15:35
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	104		30 - 150	03/09/23 15:26	03/11/23 06:08	1
DCB Decachlorobiphenyl (Surr)	109		30 - 150	03/09/23 15:26	03/11/23 06:08	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 22:53	03/16/23 01:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	93		10 - 200	03/07/23 22:53	03/16/23 01:21	1
M2-8:2 FTS	99		15 - 200	03/07/23 22:53	03/16/23 01:21	1
M2-6:2 FTS	105		10 - 200	03/07/23 22:53	03/16/23 01:21	1
13C5 PFHxA	100		10 - 174	03/07/23 22:53	03/16/23 01:21	1
13C4 PFHpA	113		10 - 178	03/07/23 22:53	03/16/23 01:21	1
13C8 PFOA	116		26 - 159	03/07/23 22:53	03/16/23 01:21	1

Client Sample ID: 2023-SB-08-1012' Lab Sample ID: 620-10117-12

Date Collected: 03/02/23 15:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	108		26 - 165	03/07/23 22:53	03/16/23 01:21	1
13C6 PFDA	107		26 - 161	03/07/23 22:53	03/16/23 01:21	1
13C7 PFUnA	112		12 - 173	03/07/23 22:53	03/16/23 01:21	1
13C2-PFDoDA	105		11 - 166	03/07/23 22:53	03/16/23 01:21	1
13C2 PFTeDA	125		10 - 169	03/07/23 22:53	03/16/23 01:21	1
13C3 PFBS	112		27 - 179	03/07/23 22:53	03/16/23 01:21	1
13C3 PFHxS	112		24 - 171	03/07/23 22:53	03/16/23 01:21	1
13C8 PFOS	110		41 - 154	03/07/23 22:53	03/16/23 01:21	1
d3-NMeFOSAA	63		10 - 178	03/07/23 22:53	03/16/23 01:21	1
d5-NEtFOSAA	71		10 - 193	03/07/23 22:53	03/16/23 01:21	1
13C8 FOSA	88		14 - 163	03/07/23 22:53	03/16/23 01:21	1
13C4 PFBA	105		28 - 153	03/07/23 22:53	03/16/23 01:21	1
13C5 PFPeA	101		24 - 161	03/07/23 22:53	03/16/23 01:21	1
d7-N-MeFOSE-M	97		10 - 179	03/07/23 22:53	03/16/23 01:21	1
d3-NMePFOSA	74		10 - 175	03/07/23 22:53	03/16/23 01:21	1
d9-N-EtFOSE-M	102		10 - 185	03/07/23 22:53	03/16/23 01:21	1
d5-NEtPFOSA	77		10 - 180	03/07/23 22:53	03/16/23 01:21	1
13C3 HFPO-DA	88		10 - 169	03/07/23 22:53	03/16/23 01:21	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.93	1.68	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Arsenic	**3.04**		2.96	1.38	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Barium	**22.6**		0.493	0.148	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Beryllium	**0.332**	**J**	0.493	0.0987	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Cadmium	ND		0.493	0.0987	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Chromium	**12.0**		1.48	0.345	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Lead	**2.33**		1.48	0.592	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Nickel	**4.10**		0.987	0.257	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Selenium	ND		4.93	1.48	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Silver	ND	^3+	0.987	0.395	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Thallium	ND		2.96	1.28	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Vanadium	**7.79**		0.987	0.424	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1
Zinc	**13.4**		1.97	0.790	mg/Kg	☼	03/07/23 19:52	03/09/23 06:24	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0705	0.0235	mg/Kg	☼	03/08/23 00:46	03/09/23 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.9**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**85.1**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'
Date Collected: 03/03/23 09:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-13
Matrix: Solid
Percent Solids: 81.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00486	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Acetone	ND		0.0486	0.0109	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Acrylonitrile	ND		0.00486	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Benzene	ND		0.00486	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromobenzene	ND		0.00486	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromochloromethane	ND		0.00486	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromodichloromethane	ND		0.00486	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromoform	ND		0.00486	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Bromomethane	ND	*+	0.00971	0.00605	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2-Butanone (MEK)	ND		0.00971	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
n-Butylbenzene	ND		0.00971	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
sec-Butylbenzene	ND		0.00486	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
tert-Butylbenzene	ND		0.00486	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Carbon disulfide	ND		0.00971	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Carbon tetrachloride	ND		0.00486	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chlorobenzene	ND		0.00486	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chloroethane	ND		0.00971	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chloroform	ND		0.00486	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Chloromethane	ND		0.00971	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2-Chlorotoluene	ND		0.00486	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
4-Chlorotoluene	ND		0.00486	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dibromo-3-Chloropropane	ND		0.00971	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Dibromochloromethane	ND		0.00486	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dibromoethane (EDB)	ND		0.00486	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Dibromomethane	ND		0.00486	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dichlorobenzene	ND		0.00486	0.00451	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3-Dichlorobenzene	ND		0.00486	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,4-Dichlorobenzene	ND		0.00486	0.00460	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Dichlorodifluoromethane (Freon 12)	ND		0.00971	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1-Dichloroethane	ND		0.00486	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dichloroethane	ND		0.00486	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1-Dichloroethene	ND		0.00486	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
cis-1,2-Dichloroethene	ND		0.00486	0.00281	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
trans-1,2-Dichloroethene	ND		0.00486	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2-Dichloropropane	ND		0.00486	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3-Dichloropropane	ND		0.00486	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2,2-Dichloropropane	ND		0.00486	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1-Dichloropropene	ND		0.00486	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
cis-1,3-Dichloropropene	ND		0.00486	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
trans-1,3-Dichloropropene	ND		0.00486	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethylbenzene	ND		0.00486	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Hexachlorobutadiene	ND		0.00971	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
2-Hexanone (MBK)	ND		0.00971	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Isopropylbenzene	ND		0.00486	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
4-Isopropyltoluene	ND		0.00486	0.00477	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Methyl tert-butyl ether	ND		0.00486	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.00971	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Methylene Chloride	ND		0.00971	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Naphthalene	ND		0.00486	0.00439	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00486	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Styrene	ND		0.00486	0.00376	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,1,2-Tetrachloroethane	ND		0.00486	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,2,2-Tetrachloroethane	ND		0.00486	0.00445	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Tetrachloroethene	ND		0.00486	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Toluene	ND		0.00486	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,3-Trichlorobenzene	ND		0.00486	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,4-Trichlorobenzene	ND		0.00486	0.00448	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3,5-Trichlorobenzene	ND		0.00486	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,1-Trichloroethane	ND		0.00486	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,1,2-Trichloroethane	ND		0.00486	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Trichloroethene	ND		0.00486	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00486	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,3-Trichloropropane	ND		0.00486	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,2,4-Trimethylbenzene	ND		0.00486	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3,5-Trimethylbenzene	ND		0.00486	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Vinyl chloride	ND		0.00486	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
m,p-Xylene	ND		0.00486	0.00663	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
o-Xylene	ND		0.00486	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Tetrahydrofuran	ND		0.00971	0.00246	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethyl ether	ND		0.00486	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Tert-amyl methyl ether	ND		0.00486	0.00384	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethyl tert-butyl ether	ND		0.00486	0.00319	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
di-Isopropyl ether	ND		0.00486	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
tert-Butanol	ND		0.0971	0.0260	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,4-Dioxane	ND		0.0971	0.0302	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
trans-1,4-Dichloro-2-butene	ND		0.0243	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Ethanol	ND		0.971	0.0602	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
1,3-Dichloropropene, Total	ND		0.00486	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1
Xylenes, Total	ND		0.0146	0.00486	mg/Kg	☼	03/10/23 09:34	03/10/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.791	0.141	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,2,4-Trichlorobenzene	ND		0.791	0.181	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,2-Dichlorobenzene	ND		0.791	0.152	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,3-Dichlorobenzene	ND		0.791	0.192	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1,4-Dichlorobenzene	ND		0.791	0.186	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
1-Methylnaphthalene	ND		0.160	0.134	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4,5-Trichlorophenol	ND		0.791	0.0906	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4,6-Trichlorophenol	ND		0.400	0.0978	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4-Dichlorophenol	ND		0.400	0.159	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4-Dimethylphenol	ND		0.791	0.116	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,4-Dinitrophenol	ND		0.791	0.208	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'
Date Collected: 03/03/23 09:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-13
Matrix: Solid
Percent Solids: 81.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.400	0.0937	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2,6-Dinitrotoluene	ND		0.400	0.0937	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Chloronaphthalene	ND		0.791	0.183	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Chlorophenol	ND		0.400	0.164	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Methylnaphthalene	ND		0.160	0.118	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Methylphenol	ND		0.791	0.116	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Nitroaniline	ND		0.791	0.0753	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
2-Nitrophenol	ND		0.400	0.142	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
3 & 4 Methylphenol	ND		0.791	0.150	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
3,3'-Dichlorobenzidine	ND		0.791	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
3-Nitroaniline	ND		0.791	0.0707	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4,6-Dinitro-2-methylphenol	ND		0.791	0.142	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Bromophenyl phenyl ether	ND		0.791	0.0894	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Chloro-3-methylphenol	ND		0.791	0.155	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Chloroaniline	ND		0.400	0.0606	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Chlorophenyl phenyl ether	ND		0.791	0.0846	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Nitroaniline	ND		0.400	0.126	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
4-Nitrophenol	ND		0.791	0.276	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Acenaphthene	ND		0.160	0.128	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Acenaphthylene	**0.139**	**J**	0.160	0.105	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Acetophenone	ND		0.400	0.0976	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Aniline	ND		0.791	0.0606	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Anthracene	**0.130**	**J**	0.160	0.0925	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Azobenzene/Diphenyldiazene	ND		0.791	0.135	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzidine	ND		1.58	0.234	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[a]anthracene	**0.276**		0.160	0.0899	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[a]pyrene	**0.579**	***3**	0.160	0.114	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[b]fluoranthene	**1.93**	***3**	0.160	0.133	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[g,h,i]perylene	**1.01**	***3**	0.160	0.125	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzo[k]fluoranthene	**1.31**	***3**	0.160	0.124	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzoic acid	**2.67**	***- *1**	0.791	0.544	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Benzyl alcohol	ND		0.791	0.143	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Bis(2-chloroethoxy)methane	ND		0.791	0.138	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Bis(2-chloroethyl)ether	ND		0.400	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
bis (2-chloroisopropyl) ether	ND		0.400	0.178	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Bis(2-ethylhexyl) phthalate	**60.2**		4.00	1.02	mg/Kg	☼	03/13/23 11:00	03/16/23 17:31	10
Butyl benzyl phthalate	**6.11**	**J**	7.91	0.793	mg/Kg	☼	03/13/23 11:00	03/16/23 17:31	10
Carbazole	ND		0.400	0.105	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Chrysene	**0.585**		0.160	0.0904	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Dibenz(a,h)anthracene	**0.300**	***3**	0.160	0.122	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Dibenzofuran	ND		0.400	0.139	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Diethyl phthalate	ND		0.791	0.0868	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Dimethyl phthalate	ND		0.791	0.103	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Di-n-butyl phthalate	**27.1**		7.91	0.846	mg/Kg	☼	03/13/23 11:00	03/16/23 17:31	10
Di-n-octyl phthalate	ND	*3	0.791	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Fluoranthene	**1.57**		0.160	0.0937	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Fluorene	ND		0.160	0.146	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Hexachlorobenzene	ND		0.400	0.111	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Hexachlorobutadiene	ND		0.400	0.200	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.400	0.153	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Hexachloroethane	ND		0.400	0.157	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Indeno[1,2,3-cd]pyrene	**0.858**	***3**	0.160	0.136	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Isophorone	ND		0.400	0.110	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Naphthalene	ND		0.160	0.153	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Nitrobenzene	ND		0.400	0.185	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
N-Nitrosodimethylamine	ND		0.400	0.105	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
N-Nitrosodi-n-propylamine	ND		0.400	0.159	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
N-Nitrosodiphenylamine	ND		0.791	0.101	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pentachloronitrobenzene	ND		0.791	0.125	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pentachlorophenol	ND		0.791	0.324	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Phenanthrene	**1.20**		0.160	0.0906	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Phenol	ND		0.791	0.163	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pyrene	**1.47**		0.160	0.0882	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1
Pyridine	ND		0.791	0.187	mg/Kg	☼	03/13/23 11:00	03/15/23 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
2-Fluorobiphenyl (Surr)	*52*		*30 - 130*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
2-Fluorophenol (Surr)	*20*		*15 - 110*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
2-Fluorophenol (Surr)	*66*		*15 - 110*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
Phenol-d5 (Surr)	*21*		*15 - 110*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
Phenol-d5 (Surr)	*37*		*15 - 110*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
2,4,6-Tribromophenol (Surr)	*37*		*15 - 110*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 110*	*03/13/23 11:00*	*03/16/23 17:31*	*10*
Terphenyl-d14	*74*		*30 - 130*	*03/13/23 11:00*	*03/15/23 21:05*	*1*
Terphenyl-d14	*50*		*30 - 130*	*03/13/23 11:00*	*03/16/23 17:31*	*10*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**11.5**		0.293	0.150	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	**4.20**		0.293	0.125	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Ethylbenzene	**0.0346**	**J**	0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Methyl tert-butyl ether	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
m,p-Xylene	**0.0605**	**J**	0.117	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Naphthalene	ND		0.0585	0.0398	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
o-Xylene	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
Toluene	ND		0.0585	0.0117	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
C5-C8 Aliphatics (unadjusted)	**11.5**		0.293	0.150	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
C9-C10 Aromatics	**1.57**		0.293	0.0410	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1
C9-C12 Aliphatics (unadjusted)	**5.87**		0.293	0.125	mg/Kg	☼	03/07/23 07:22	03/08/23 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*90*		*70 - 130*	*03/07/23 07:22*	*03/08/23 00:26*	*1*

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*107*		*70 - 130*	*03/07/23 07:22*	*03/08/23 00:26*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		11.9	8.58	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1221	ND		11.9	3.52	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1232	ND		11.9	3.30	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1242	ND		11.9	1.88	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1248	ND		11.9	3.72	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1254	**362**		11.9	9.27	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1262	ND		11.9	2.78	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1260	ND		11.9	2.56	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500
PCB-1268	ND		11.9	2.54	mg/Kg	☼	03/09/23 15:26	03/13/23 15:31	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:26*	*03/13/23 15:31*	*500*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoroheptanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorononanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorodecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorotridecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorotetradecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorobutanesulfonic acid	ND		2.40	0.480	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorohexanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NEtFOSAA	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NMeFOSAA	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
10:2 FTS	ND		2.40	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoropentanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoroheptanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorononanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorodecanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctanesulfonamide	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorohexadecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorooctadecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorobutanoic acid	ND		2.40	0.960	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoropentanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NMeFOSE	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NMeFOSA	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NEtFOSE	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
NEtFOSA	ND		2.40	0.600	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1

Client Sample ID: 2023-SB-12-0002' **Lab Sample ID: 620-10117-13**
Date Collected: 03/03/23 09:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 81.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.40	1.20	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
DONA	ND		3.60	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
9Cl-PF3ONS	ND		2.40	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
11Cl-PF3OUdS	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluorododecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
4:2 Fluorotelomer sulfonic acid	ND		2.40	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
Perfluoroundecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
6:2 Fluorotelomer sulfonic acid	ND		2.40	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1
8:2 Fluorotelomer sulfonic acid	ND		3.60	0.720	ug/Kg	☼	03/07/23 22:53	03/16/23 01:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*21*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
M2-8:2 FTS	*25*		*15 - 200*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
M2-6:2 FTS	*26*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C5 PFHxA	*27*		*10 - 174*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C4 PFHpA	*29*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C8 PFOA	*31*		*26 - 159*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C9 PFNA	*30*		*26 - 165*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C6 PFDA	*30*		*26 - 161*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C7 PFUnA	*32*		*12 - 173*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C2-PFDoDA	*30*		*11 - 166*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C2 PFTeDA	*37*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C3 PFBS	*45*		*27 - 179*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C3 PFHxS	*43*		*24 - 171*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C8 PFOS	*43*		*41 - 154*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d3-NMeFOSAA	*7*	*5-	*10 - 178*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d5-NEtFOSAA	*11*		*10 - 193*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C8 FOSA	*76*		*14 - 163*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C4 PFBA	*27*	*5-	*28 - 153*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C5 PFPeA	*25*		*24 - 161*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d7-N-MeFOSE-M	*80*		*10 - 179*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d3-NMePFOSA	*63*		*10 - 175*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d9-N-EtFOSE-M	*87*		*10 - 185*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
d5-NEtPFOSA	*66*		*10 - 180*	*03/07/23 22:53*	*03/16/23 01:32*	*1*
13C3 HFPO-DA	*29*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.19	1.76	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Arsenic	**4.67**		3.11	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Barium	**66.5**		0.519	0.156	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Beryllium	**0.547**		0.519	0.104	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Cadmium	ND		0.519	0.104	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Chromium	**9.80**		1.56	0.363	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Lead	**26.9**		1.56	0.623	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Nickel	**4.04**		1.04	0.270	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Selenium	ND		5.19	1.56	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Silver	ND	^3+	1.04	0.415	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Thallium	ND		3.11	1.35	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1
Vanadium	**15.4**		1.04	0.446	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0002'
Date Collected: 03/03/23 09:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-13
Matrix: Solid
Percent Solids: 81.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	161		2.08	0.830	mg/Kg	☼	03/07/23 19:52	03/09/23 06:42	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0512	J	0.0700	0.0233	mg/Kg	☼	03/08/23 00:50	03/09/23 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.3		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	81.7		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0204'
Date Collected: 03/03/23 09:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-14
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00529	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Acetone	ND		0.0529	0.0118	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Acrylonitrile	ND		0.00529	0.00317	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Benzene	ND		0.00529	0.00353	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromobenzene	ND		0.00529	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromochloromethane	ND		0.00529	0.00300	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromodichloromethane	ND		0.00529	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromoform	ND		0.00529	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Bromomethane	ND		0.0106	0.00659	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2-Butanone (MEK)	ND		0.0106	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
n-Butylbenzene	ND		0.0106	0.00567	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
sec-Butylbenzene	ND		0.00529	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
tert-Butylbenzene	ND		0.00529	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Carbon tetrachloride	ND		0.00529	0.00333	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chlorobenzene	ND		0.00529	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chloroethane	ND		0.0106	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chloroform	ND		0.00529	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Chloromethane	ND		0.0106	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2-Chlorotoluene	ND		0.00529	0.00421	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
4-Chlorotoluene	ND		0.00529	0.00459	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Dibromochloromethane	ND		0.00529	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dibromoethane (EDB)	ND		0.00529	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Dibromomethane	ND		0.00529	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dichlorobenzene	ND		0.00529	0.00491	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3-Dichlorobenzene	ND		0.00529	0.00424	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,4-Dichlorobenzene	ND		0.00529	0.00501	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Dichlorodifluoromethane (Freon 12)	ND		0.0106	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1-Dichloroethane	ND		0.00529	0.00359	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dichloroethane	ND		0.00529	0.00356	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1-Dichloroethene	ND		0.00529	0.00324	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
cis-1,2-Dichloroethene	ND		0.00529	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
trans-1,2-Dichloroethene	ND		0.00529	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2-Dichloropropane	ND		0.00529	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3-Dichloropropane	ND		0.00529	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2,2-Dichloropropane	ND		0.00529	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1-Dichloropropene	ND		0.00529	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
cis-1,3-Dichloropropene	ND		0.00529	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
trans-1,3-Dichloropropene	ND		0.00529	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethylbenzene	ND		0.00529	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Hexachlorobutadiene	ND		0.0106	0.00532	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
2-Hexanone (MBK)	ND		0.0106	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Isopropylbenzene	ND		0.00529	0.00400	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
4-Isopropyltoluene	ND		0.00529	0.00519	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Methyl tert-butyl ether	ND		0.00529	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Methylene Chloride	ND		0.0106	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Naphthalene	ND		0.00529	0.00478	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0204'
Date Collected: 03/03/23 09:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-14
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00529	0.00447	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Styrene	ND		0.00529	0.00409	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,1,2-Tetrachloroethane	ND		0.00529	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,2,2-Tetrachloroethane	ND		0.00529	0.00484	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Tetrachloroethene	ND		0.00529	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Toluene	ND		0.00529	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,3-Trichlorobenzene	ND		0.00529	0.00446	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,4-Trichlorobenzene	ND		0.00529	0.00488	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3,5-Trichlorobenzene	ND		0.00529	0.00502	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,1-Trichloroethane	ND		0.00529	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,1,2-Trichloroethane	ND		0.00529	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Trichloroethene	ND		0.00529	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Trichlorofluoromethane (Freon 11)	ND		0.00529	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,3-Trichloropropane	ND		0.00529	0.00470	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,2,4-Trimethylbenzene	ND		0.00529	0.00447	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3,5-Trimethylbenzene	ND		0.00529	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Vinyl chloride	ND		0.00529	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
m,p-Xylene	ND		0.00529	0.00722	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
o-Xylene	ND		0.00529	0.00386	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethyl ether	ND		0.00529	0.00278	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Tert-amyl methyl ether	ND		0.00529	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethyl tert-butyl ether	ND		0.00529	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
di-Isopropyl ether	ND		0.00529	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,4-Dioxane	ND		0.106	0.0329	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Ethanol	ND		1.06	0.0656	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
1,3-Dichloropropene, Total	ND		0.00529	0.00402	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1
Xylenes, Total	ND		0.0159	0.00529	mg/Kg	☼	03/08/23 10:32	03/08/23 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/08/23 10:32*	*03/08/23 21:39*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0667	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,2,4-Trichlorobenzene	ND		0.375	0.0859	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,2-Dichlorobenzene	ND		0.375	0.0723	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,3-Dichlorobenzene	ND		0.375	0.0908	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1,4-Dichlorobenzene	ND		0.375	0.0883	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
1-Methylnaphthalene	ND		0.0758	0.0636	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4,5-Trichlorophenol	ND		0.375	0.0430	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4-Dichlorophenol	ND		0.190	0.0756	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4-Dimethylphenol	ND		0.375	0.0550	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,4-Dinitrophenol	ND		0.375	0.0986	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0204'
Date Collected: 03/03/23 09:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-14
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2,6-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Chloronaphthalene	ND		0.375	0.0867	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Chlorophenol	ND		0.190	0.0776	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Methylnaphthalene	ND		0.0758	0.0560	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Methylphenol	ND		0.375	0.0548	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Nitroaniline	ND		0.375	0.0357	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
2-Nitrophenol	ND		0.190	0.0674	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
3 & 4 Methylphenol	ND		0.375	0.0710	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
3,3'-Dichlorobenzidine	ND		0.375	0.0619	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
3-Nitroaniline	ND		0.375	0.0335	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0674	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Bromophenyl phenyl ether	ND		0.375	0.0424	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Chloro-3-methylphenol	ND		0.375	0.0734	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0401	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Nitroaniline	ND		0.190	0.0599	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Acenaphthene	ND		0.0758	0.0605	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Acenaphthylene	ND		0.0758	0.0498	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Aniline	ND		0.375	0.0288	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Anthracene	ND		0.0758	0.0439	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0640	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzidine	ND		0.750	0.111	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[a]anthracene	ND		0.0758	0.0426	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[a]pyrene	ND		0.0758	0.0542	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[b]fluoranthene	ND		0.0758	0.0628	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[g,h,i]perylene	ND		0.0758	0.0592	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzo[k]fluoranthene	ND		0.0758	0.0590	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzoic acid	ND	*- *1	0.375	0.258	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Benzyl alcohol	ND		0.375	0.0680	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0652	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Bis(2-chloroethyl)ether	ND		0.190	0.0621	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0844	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0483	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Butyl benzyl phthalate	ND		0.375	0.0376	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Chrysene	ND		0.0758	0.0428	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Dibenz(a,h)anthracene	ND		0.0758	0.0578	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Dibenzofuran	ND		0.190	0.0657	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Diethyl phthalate	ND		0.375	0.0411	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Dimethyl phthalate	ND		0.375	0.0489	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Di-n-butyl phthalate	ND		0.375	0.0401	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Di-n-octyl phthalate	ND		0.375	0.0619	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Fluoranthene	ND		0.0758	0.0444	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Fluorene	ND		0.0758	0.0692	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Hexachlorobenzene	ND		0.190	0.0526	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Hexachlorobutadiene	ND		0.190	0.0947	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0725	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Hexachloroethane	ND		0.190	0.0746	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0758	0.0643	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Isophorone	ND		0.190	0.0519	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Naphthalene	ND		0.0758	0.0727	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Nitrobenzene	ND		0.190	0.0876	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
N-Nitrosodimethylamine	ND		0.190	0.0498	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0756	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
N-Nitrosodiphenylamine	ND		0.375	0.0478	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pentachloronitrobenzene	ND		0.375	0.0592	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pentachlorophenol	ND		0.375	0.153	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Phenanthrene	ND		0.0758	0.0430	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Phenol	ND		0.375	0.0773	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pyrene	ND		0.0758	0.0418	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1
Pyridine	ND		0.375	0.0888	mg/Kg	☼	03/13/23 11:00	03/15/23 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
Phenol-d5 (Surr)	*61*		*15 - 110*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*15 - 110*	*03/13/23 11:00*	*03/15/23 23:25*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/13/23 11:00*	*03/15/23 23:25*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.281	0.144	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.281	0.120	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Ethylbenzene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Methyl tert-butyl ether	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
m,p-Xylene	ND		0.112	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Naphthalene	ND		0.0562	0.0382	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
o-Xylene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
Toluene	ND		0.0562	0.0112	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
C5-C8 Aliphatics (unadjusted)	ND		0.281	0.144	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
C9-C10 Aromatics	ND		0.281	0.0394	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1
C9-C12 Aliphatics (unadjusted)	ND		0.281	0.120	mg/Kg	☼	03/07/23 07:22	03/08/23 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:05*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:05*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1221	ND		0.0229	0.00676	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1232	ND		0.0229	0.00633	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0229	0.00361	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1248	ND		0.0229	0.00715	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1254	**0.0905**		0.0229	0.0178	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1262	ND		0.0229	0.00533	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1260	ND		0.0229	0.00492	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1
PCB-1268	ND		0.0229	0.00487	mg/Kg	☼	03/09/23 15:26	03/10/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoroheptanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorononanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorodecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorotridecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorotetradecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorobutanesulfonic acid	ND		2.20	0.440	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorohexanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NEtFOSAA	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NMeFOSAA	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
10:2 FTS	ND		2.20	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoropentanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoroheptanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorononanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorodecanesulfonic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctanesulfonamide	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorohexadecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorooctadecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorobutanoic acid	ND		2.20	0.880	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoropentanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NMeFOSE	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NMeFOSA	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NEtFOSE	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
NEtFOSA	ND		2.20	0.550	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
HFPODA	ND		2.20	1.10	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
DONA	ND		3.30	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
9Cl-PF3ONS	ND		2.20	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
11Cl-PF3OUdS	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluorododecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
4:2 Fluorotelomer sulfonic acid	ND		2.20	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
Perfluoroundecanoic acid	ND		0.660	0.220	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.20	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1
8:2 Fluorotelomer sulfonic acid	ND		3.30	0.660	ug/Kg	☼	03/07/23 22:53	03/16/23 01:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
M2-8:2 FTS	*59*		*15 - 200*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
M2-6:2 FTS	*76*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C4 PFHpA	*82*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C8 PFOA	*83*		*26 - 159*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C9 PFNA	*75*		*26 - 165*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C6 PFDA	*71*		*26 - 161*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C7 PFUnA	*76*		*12 - 173*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C2-PFDoDA	*65*		*11 - 166*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C3 PFHxS	*98*		*24 - 171*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C8 PFOS	*88*		*41 - 154*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d3-NMeFOSAA	*25*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d5-NEtFOSAA	*31*		*10 - 193*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C4 PFBA	*76*		*28 - 153*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C5 PFPeA	*70*		*24 - 161*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d9-N-EtFOSE-M	*102*		*10 - 185*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/07/23 22:53*	*03/16/23 01:43*	*1*
13C3 HFPO-DA	*74*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.01	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Arsenic	**2.40**	**J**	2.41	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Barium	**12.0**		0.401	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Beryllium	**0.363**	**J**	0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Cadmium	ND		0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Chromium	**5.44**		1.20	0.281	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Lead	**2.99**		1.20	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Nickel	**2.96**		0.802	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Selenium	ND		4.01	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Silver	ND	^3+	0.802	0.321	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Thallium	ND		2.41	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Vanadium	**8.10**		0.802	0.345	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1
Zinc	**17.8**		1.60	0.642	mg/Kg	☼	03/07/23 19:52	03/09/23 06:39	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0681	0.0227	mg/Kg	☼	03/08/23 00:50	03/09/23 08:56	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0204' **Lab Sample ID: 620-10117-14**
Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	86.6		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0406'
Date Collected: 03/03/23 09:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-15
Matrix: Solid
Percent Solids: 89.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00480	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Acetone	ND		0.0480	0.0107	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Acrylonitrile	ND		0.00480	0.00288	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Benzene	ND		0.00480	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromobenzene	ND		0.00480	0.00320	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromochloromethane	ND		0.00480	0.00273	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromodichloromethane	ND		0.00480	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromoform	ND		0.00480	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Bromomethane	ND		0.00960	0.00598	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2-Butanone (MEK)	ND		0.00960	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
n-Butylbenzene	ND		0.00960	0.00514	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
sec-Butylbenzene	ND		0.00480	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
tert-Butylbenzene	ND		0.00480	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Carbon disulfide	ND		0.00960	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Carbon tetrachloride	ND		0.00480	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chlorobenzene	ND		0.00480	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chloroethane	ND		0.00960	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chloroform	ND		0.00480	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Chloromethane	ND		0.00960	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2-Chlorotoluene	ND		0.00480	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
4-Chlorotoluene	ND		0.00480	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dibromo-3-Chloropropane	ND		0.00960	0.00407	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Dibromochloromethane	ND		0.00480	0.00318	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dibromoethane (EDB)	ND		0.00480	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Dibromomethane	ND		0.00480	0.00282	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dichlorobenzene	ND		0.00480	0.00445	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3-Dichlorobenzene	ND		0.00480	0.00385	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,4-Dichlorobenzene	ND		0.00480	0.00455	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Dichlorodifluoromethane (Freon 12)	ND		0.00960	0.00257	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1-Dichloroethane	ND		0.00480	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dichloroethane	ND		0.00480	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1-Dichloroethene	ND		0.00480	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
cis-1,2-Dichloroethene	ND		0.00480	0.00277	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
trans-1,2-Dichloroethene	ND		0.00480	0.00298	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2-Dichloropropane	ND		0.00480	0.00318	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3-Dichloropropane	ND		0.00480	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2,2-Dichloropropane	ND		0.00480	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1-Dichloropropene	ND		0.00480	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
cis-1,3-Dichloropropene	ND		0.00480	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
trans-1,3-Dichloropropene	ND		0.00480	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethylbenzene	ND		0.00480	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Hexachlorobutadiene	ND		0.00960	0.00483	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
2-Hexanone (MBK)	ND		0.00960	0.00282	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Isopropylbenzene	ND		0.00480	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
4-Isopropyltoluene	ND		0.00480	0.00471	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Methyl tert-butyl ether	ND		0.00480	0.00276	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.00960	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Methylene Chloride	ND		0.00960	0.00257	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Naphthalene	ND		0.00480	0.00434	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00480	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Styrene	ND		0.00480	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,1,2-Tetrachloroethane	ND		0.00480	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,2,2-Tetrachloroethane	ND		0.00480	0.00440	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Tetrachloroethene	ND		0.00480	0.00267	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Toluene	ND		0.00480	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,3-Trichlorobenzene	ND		0.00480	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,4-Trichlorobenzene	ND		0.00480	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3,5-Trichlorobenzene	ND		0.00480	0.00456	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,1-Trichloroethane	ND		0.00480	0.00327	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,1,2-Trichloroethane	ND		0.00480	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Trichloroethene	ND		0.00480	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Trichlorofluoromethane (Freon 11)	ND		0.00480	0.00367	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,3-Trichloropropane	ND		0.00480	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,2,4-Trimethylbenzene	ND		0.00480	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3,5-Trimethylbenzene	ND		0.00480	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Vinyl chloride	ND		0.00480	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
m,p-Xylene	ND		0.00480	0.00656	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
o-Xylene	ND		0.00480	0.00350	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Tetrahydrofuran	ND		0.00960	0.00243	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethyl ether	ND		0.00480	0.00252	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Tert-amyl methyl ether	ND		0.00480	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethyl tert-butyl ether	ND		0.00480	0.00316	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
di-Isopropyl ether	ND		0.00480	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
tert-Butanol	ND		0.0960	0.0257	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,4-Dioxane	ND		0.0960	0.0298	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
trans-1,4-Dichloro-2-butene	ND		0.0240	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Ethanol	ND		0.960	0.0595	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
1,3-Dichloropropene, Total	ND		0.00480	0.00365	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1
Xylenes, Total	ND		0.0144	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:05*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.356	0.0634	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,2,4-Trichlorobenzene	ND		0.356	0.0816	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,2-Dichlorobenzene	ND		0.356	0.0687	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,3-Dichlorobenzene	ND		0.356	0.0863	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1,4-Dichlorobenzene	ND		0.356	0.0839	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
1-Methylnaphthalene	ND		0.0720	0.0605	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4,5-Trichlorophenol	ND		0.356	0.0408	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4,6-Trichlorophenol	ND		0.180	0.0441	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4-Dichlorophenol	ND		0.180	0.0718	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4-Dimethylphenol	ND		0.356	0.0523	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,4-Dinitrophenol	ND		0.356	0.0937	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0406'
Date Collected: 03/03/23 09:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-15
Matrix: Solid
Percent Solids: 89.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.180	0.0422	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2,6-Dinitrotoluene	ND		0.180	0.0422	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Chloronaphthalene	ND		0.356	0.0824	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Chlorophenol	ND		0.180	0.0738	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Methylnaphthalene	ND		0.0720	0.0532	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Methylphenol	ND		0.356	0.0521	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Nitroaniline	ND		0.356	0.0339	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
2-Nitrophenol	ND		0.180	0.0640	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
3 & 4 Methylphenol	ND		0.356	0.0675	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
3,3'-Dichlorobenzidine	ND		0.356	0.0589	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
3-Nitroaniline	ND		0.356	0.0319	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4,6-Dinitro-2-methylphenol	ND		0.356	0.0640	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Bromophenyl phenyl ether	ND		0.356	0.0403	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Chloro-3-methylphenol	ND		0.356	0.0698	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Chloroaniline	ND		0.180	0.0273	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Chlorophenyl phenyl ether	ND		0.356	0.0381	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Nitroaniline	ND		0.180	0.0569	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
4-Nitrophenol	ND		0.356	0.124	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Acenaphthene	ND		0.0720	0.0575	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Acenaphthylene	ND		0.0720	0.0473	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Acetophenone	ND		0.180	0.0440	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Aniline	ND		0.356	0.0273	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Anthracene	ND		0.0720	0.0417	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Azobenzene/Diphenyldiazene	ND		0.356	0.0608	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzidine	ND		0.713	0.106	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[a]anthracene	ND		0.0720	0.0405	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[a]pyrene	ND		0.0720	0.0515	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[b]fluoranthene	ND		0.0720	0.0597	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[g,h,i]perylene	ND		0.0720	0.0563	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzo[k]fluoranthene	ND		0.0720	0.0560	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzoic acid	ND		0.356	0.245	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Benzyl alcohol	ND		0.356	0.0646	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Bis(2-chloroethoxy)methane	ND		0.356	0.0620	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Bis(2-chloroethyl)ether	ND		0.180	0.0590	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
bis (2-chloroisopropyl) ether	ND		0.180	0.0802	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Bis(2-ethylhexyl) phthalate	ND		0.180	0.0459	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Butyl benzyl phthalate	ND		0.356	0.0357	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Carbazole	ND		0.180	0.0472	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Chrysene	ND		0.0720	0.0407	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Dibenz(a,h)anthracene	ND		0.0720	0.0550	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Dibenzofuran	ND		0.180	0.0624	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Diethyl phthalate	ND		0.356	0.0391	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Dimethyl phthalate	ND		0.356	0.0464	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Di-n-butyl phthalate	ND		0.356	0.0381	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Di-n-octyl phthalate	ND		0.356	0.0589	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Fluoranthene	ND		0.0720	0.0422	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Fluorene	ND		0.0720	0.0658	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Hexachlorobenzene	ND		0.180	0.0500	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Hexachlorobutadiene	ND		0.180	0.0900	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.180	0.0689	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Hexachloroethane	ND		0.180	0.0708	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Indeno[1,2,3-cd]pyrene	ND		0.0720	0.0611	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Isophorone	ND		0.180	0.0494	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Naphthalene	ND		0.0720	0.0691	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Nitrobenzene	ND		0.180	0.0833	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
N-Nitrosodimethylamine	ND		0.180	0.0473	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
N-Nitrosodi-n-propylamine	ND		0.180	0.0718	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
N-Nitrosodiphenylamine	ND		0.356	0.0455	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pentachloronitrobenzene	ND		0.356	0.0563	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pentachlorophenol	ND		0.356	0.146	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Phenanthrene	ND		0.0720	0.0408	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Phenol	ND		0.356	0.0734	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pyrene	ND		0.0720	0.0397	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1
Pyridine	ND		0.356	0.0843	mg/Kg	☼	03/14/23 10:48	03/15/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
Phenol-d5 (Surr)	*63*		*15 - 110*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*15 - 110*	*03/14/23 10:48*	*03/15/23 23:53*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/14/23 10:48*	*03/15/23 23:53*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.244	0.125	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.244	0.104	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Ethylbenzene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Methyl tert-butyl ether	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
m,p-Xylene	ND		0.0974	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Naphthalene	ND		0.0487	0.0331	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
o-Xylene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
Toluene	ND		0.0487	0.00974	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
C5-C8 Aliphatics (unadjusted)	ND		0.244	0.125	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
C9-C10 Aromatics	ND		0.244	0.0341	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1
C9-C12 Aliphatics (unadjusted)	ND		0.244	0.104	mg/Kg	☼	03/07/23 07:22	03/08/23 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:45*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/07/23 07:22*	*03/08/23 01:45*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1221	ND		0.0223	0.00660	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1232	ND		0.0223	0.00619	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00353	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1248	ND		0.0223	0.00698	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1254	**0.172**		0.0223	0.0174	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1262	ND		0.0223	0.00521	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1260	ND		0.0223	0.00480	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1
PCB-1268	ND		0.0223	0.00476	mg/Kg	☼	03/09/23 15:26	03/10/23 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:26*	*03/10/23 18:48*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoroheptanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorononanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorodecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorotridecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorotetradecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorobutanesulfonic acid	ND		2.08	0.416	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorohexanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
10:2 FTS	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoropentanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoroheptanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorononanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorodecanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctanesulfonamide	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorohexadecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorooctadecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorobutanoic acid	ND		2.08	0.831	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoropentanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NMeFOSE	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NMeFOSA	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NEtFOSE	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
NEtFOSA	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
DONA	ND		3.12	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
11Cl-PF3OUdS	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluorododecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
Perfluoroundecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1
8:2 Fluorotelomer sulfonic acid	ND		3.12	0.624	ug/Kg	☼	03/07/23 22:53	03/16/23 01:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*85*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
M2-8:2 FTS	*94*		*15 - 200*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
M2-6:2 FTS	*98*		*10 - 200*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C9 PFNA	*104*		*26 - 165*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C6 PFDA	*103*		*26 - 161*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C7 PFUnA	*114*		*12 - 173*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C2-PFDoDA	*102*		*11 - 166*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C2 PFTeDA	*124*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C3 PFBS	*105*		*27 - 179*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C8 PFOS	*107*		*41 - 154*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d3-NMeFOSAA	*62*		*10 - 178*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d5-NEtFOSAA	*69*		*10 - 193*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C8 FOSA	*96*		*14 - 163*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C4 PFBA	*100*		*28 - 153*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C5 PFPeA	*94*		*24 - 161*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d7-N-MeFOSE-M	*101*		*10 - 179*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d3-NMePFOSA	*68*		*10 - 175*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
d5-NEtPFOSA	*73*		*10 - 180*	*03/07/23 22:53*	*03/16/23 01:55*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/07/23 22:53*	*03/16/23 01:55*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.88	1.66	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Arsenic	**1.59**	**J**	2.93	1.37	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Barium	**10.0**		0.488	0.146	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Beryllium	**0.248**	**J**	0.488	0.0976	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Cadmium	ND		0.488	0.0976	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Chromium	**2.85**		1.46	0.342	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Lead	**1.93**		1.46	0.586	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Nickel	**2.49**		0.976	0.254	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Selenium	ND		4.88	1.46	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Silver	ND	^3+	0.976	0.390	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Thallium	ND		2.93	1.27	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Vanadium	**4.90**		0.976	0.420	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1
Zinc	**28.3**		1.95	0.781	mg/Kg	☼	03/07/23 19:52	03/09/23 06:30	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0631	0.0210	mg/Kg	☼	03/08/23 00:50	03/09/23 09:20	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0406' **Lab Sample ID: 620-10117-15**
Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.9		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	89.1		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0608'
Date Collected: 03/03/23 09:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-16
Matrix: Solid
Percent Solids: 84.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00471	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Acetone	ND		0.0471	0.0106	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Acrylonitrile	ND		0.00471	0.00283	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Benzene	ND		0.00471	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromobenzene	ND		0.00471	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromochloromethane	ND		0.00471	0.00268	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromodichloromethane	ND		0.00471	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromoform	ND		0.00471	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Bromomethane	ND	*+	0.00943	0.00587	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2-Butanone (MEK)	ND		0.00943	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
n-Butylbenzene	ND		0.00943	0.00505	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
sec-Butylbenzene	ND		0.00471	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
tert-Butylbenzene	ND		0.00471	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Carbon disulfide	ND		0.00943	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Carbon tetrachloride	ND		0.00471	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chlorobenzene	ND		0.00471	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chloroethane	ND		0.00943	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chloroform	ND		0.00471	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Chloromethane	ND		0.00943	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2-Chlorotoluene	ND		0.00471	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
4-Chlorotoluene	ND		0.00471	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dibromo-3-Chloropropane	ND		0.00943	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Dibromochloromethane	ND		0.00471	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dibromoethane (EDB)	ND		0.00471	0.00339	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Dibromomethane	ND		0.00471	0.00277	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dichlorobenzene	ND		0.00471	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3-Dichlorobenzene	ND		0.00471	0.00378	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,4-Dichlorobenzene	ND		0.00471	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Dichlorodifluoromethane (Freon 12)	ND		0.00943	0.00253	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1-Dichloroethane	ND		0.00471	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dichloroethane	ND		0.00471	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1-Dichloroethene	ND		0.00471	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
cis-1,2-Dichloroethene	ND		0.00471	0.00273	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
trans-1,2-Dichloroethene	ND		0.00471	0.00293	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2-Dichloropropane	ND		0.00471	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3-Dichloropropane	ND		0.00471	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2,2-Dichloropropane	ND		0.00471	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1-Dichloropropene	ND		0.00471	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
cis-1,3-Dichloropropene	ND		0.00471	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
trans-1,3-Dichloropropene	ND		0.00471	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethylbenzene	ND		0.00471	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Hexachlorobutadiene	ND		0.00943	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
2-Hexanone (MBK)	ND		0.00943	0.00277	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Isopropylbenzene	ND		0.00471	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
4-Isopropyltoluene	ND		0.00471	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Methyl tert-butyl ether	ND		0.00471	0.00272	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
4-Methyl-2-pentanone (MIBK)	ND		0.00943	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Methylene Chloride	ND		0.00943	0.00253	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Naphthalene	ND		0.00471	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00471	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Styrene	ND		0.00471	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,1,2-Tetrachloroethane	ND		0.00471	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,2,2-Tetrachloroethane	ND		0.00471	0.00432	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Tetrachloroethene	ND		0.00471	0.00262	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Toluene	ND		0.00471	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,3-Trichlorobenzene	ND		0.00471	0.00398	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,4-Trichlorobenzene	ND		0.00471	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3,5-Trichlorobenzene	ND		0.00471	0.00448	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,1-Trichloroethane	ND		0.00471	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,1,2-Trichloroethane	ND		0.00471	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Trichloroethene	ND		0.00471	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Trichlorofluoromethane (Freon 11)	ND		0.00471	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,3-Trichloropropane	ND		0.00471	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,2,4-Trimethylbenzene	ND		0.00471	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3,5-Trimethylbenzene	ND		0.00471	0.00401	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Vinyl chloride	ND		0.00471	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
m,p-Xylene	ND		0.00471	0.00644	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
o-Xylene	ND		0.00471	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Tetrahydrofuran	ND		0.00943	0.00239	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethyl ether	ND		0.00471	0.00248	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Tert-amyl methyl ether	ND		0.00471	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethyl tert-butyl ether	ND		0.00471	0.00310	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
di-Isopropyl ether	ND		0.00471	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
tert-Butanol	ND		0.0943	0.0253	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,4-Dioxane	ND		0.0943	0.0293	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
trans-1,4-Dichloro-2-butene	ND		0.0236	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Ethanol	ND		0.943	0.0585	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
1,3-Dichloropropene, Total	ND		0.00471	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1
Xylenes, Total	ND		0.0141	0.00471	mg/Kg	☼	03/10/23 09:34	03/10/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 16:41*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,2,4-Trichlorobenzene	ND		0.375	0.0858	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,2-Dichlorobenzene	ND		0.375	0.0722	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,3-Dichlorobenzene	ND		0.375	0.0907	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1,4-Dichlorobenzene	ND		0.375	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
1-Methylnaphthalene	ND		0.0757	0.0636	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4,5-Trichlorophenol	ND		0.375	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4,6-Trichlorophenol	ND		0.190	0.0463	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4-Dichlorophenol	ND		0.190	0.0755	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4-Dimethylphenol	ND		0.375	0.0549	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,4-Dinitrophenol	ND		0.375	0.0985	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0608'
Date Collected: 03/03/23 09:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-16
Matrix: Solid
Percent Solids: 84.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2,6-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Chloronaphthalene	ND		0.375	0.0866	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Chlorophenol	ND		0.190	0.0775	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Methylnaphthalene	ND		0.0757	0.0560	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Methylphenol	ND		0.375	0.0547	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Nitroaniline	ND		0.375	0.0356	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
2-Nitrophenol	ND		0.190	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
3 & 4 Methylphenol	ND		0.375	0.0710	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
3,3'-Dichlorobenzidine	ND		0.375	0.0619	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
3-Nitroaniline	ND		0.375	0.0335	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Bromophenyl phenyl ether	ND		0.375	0.0423	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Chloro-3-methylphenol	ND		0.375	0.0733	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Chloroaniline	ND		0.190	0.0287	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0401	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Nitroaniline	ND		0.190	0.0598	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Acenaphthene	ND		0.0757	0.0604	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Acenaphthylene	ND		0.0757	0.0497	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Acetophenone	ND		0.190	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Aniline	ND		0.375	0.0287	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Anthracene	ND		0.0757	0.0438	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0639	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzidine	ND		0.749	0.111	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[a]anthracene	ND		0.0757	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[a]pyrene	ND		0.0757	0.0542	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[b]fluoranthene	ND		0.0757	0.0628	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[g,h,i]perylene	ND		0.0757	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzo[k]fluoranthene	ND		0.0757	0.0589	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzoic acid	ND		0.375	0.258	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Benzyl alcohol	ND		0.375	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0652	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Bis(2-chloroethyl)ether	ND		0.190	0.0620	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0843	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Butyl benzyl phthalate	ND		0.375	0.0376	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Carbazole	ND		0.190	0.0496	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Chrysene	ND		0.0757	0.0428	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Dibenz(a,h)anthracene	ND		0.0757	0.0578	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Dibenzofuran	ND		0.190	0.0656	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Diethyl phthalate	ND		0.375	0.0411	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Dimethyl phthalate	ND		0.375	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Di-n-butyl phthalate	ND		0.375	0.0401	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Di-n-octyl phthalate	ND		0.375	0.0619	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Fluoranthene	ND		0.0757	0.0444	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Fluorene	ND		0.0757	0.0691	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Hexachlorobenzene	ND		0.190	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Hexachlorobutadiene	ND		0.190	0.0946	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Hexachloroethane	ND		0.190	0.0745	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0757	0.0643	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Isophorone	ND		0.190	0.0519	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Naphthalene	ND		0.0757	0.0727	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Nitrobenzene	ND		0.190	0.0875	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
N-Nitrosodimethylamine	ND		0.190	0.0497	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0755	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
N-Nitrosodiphenylamine	ND		0.375	0.0478	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pentachloronitrobenzene	ND		0.375	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pentachlorophenol	ND		0.375	0.153	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Phenanthrene	ND		0.0757	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Phenol	ND		0.375	0.0772	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pyrene	ND		0.0757	0.0418	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1
Pyridine	ND		0.375	0.0887	mg/Kg	☼	03/14/23 10:48	03/16/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
2-Fluorophenol (Surr)	*92*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
Nitrobenzene-d5 (Surr)	*89*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:22*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:22*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.223	0.114	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.223	0.0955	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Ethylbenzene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Methyl tert-butyl ether	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
m,p-Xylene	ND		0.0893	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Naphthalene	**0.0316**	**J B**	0.0446	0.0304	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
o-Xylene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
Toluene	ND		0.0446	0.00893	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
C5-C8 Aliphatics (unadjusted)	ND		0.223	0.114	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
C9-C10 Aromatics	ND		0.223	0.0312	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1
C9-C12 Aliphatics (unadjusted)	ND		0.223	0.0955	mg/Kg	☼	03/08/23 06:56	03/08/23 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:10*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:10*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1221	ND		0.0228	0.00674	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1232	ND		0.0228	0.00632	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00360	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1248	ND		0.0228	0.00713	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1254	ND		0.0228	0.0177	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1260	ND		0.0228	0.00490	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1
PCB-1268	ND		0.0228	0.00486	mg/Kg	☼	03/09/23 15:26	03/10/23 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoroheptanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorononanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorodecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorotridecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorotetradecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorobutanesulfonic acid	ND		2.22	0.443	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorohexanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
10:2 FTS	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoropentanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoroheptanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorononanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorodecanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctanesulfonamide	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorohexadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorooctadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorobutanoic acid	ND		2.22	0.886	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoropentanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NMeFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NMeFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NEtFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
NEtFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
DONA	ND		3.32	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
11Cl-PF3OUdS	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluorododecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
Perfluoroundecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0608' **Lab Sample ID: 620-10117-16**
Date Collected: 03/03/23 09:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.32	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 02:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
M2-8:2 FTS	*103*		*15 - 200*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
M2-6:2 FTS	*111*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C5 PFHxA	*109*		*10 - 174*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C8 PFOA	*112*		*26 - 159*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C9 PFNA	*107*		*26 - 165*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C6 PFDA	*107*		*26 - 161*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C7 PFUnA	*107*		*12 - 173*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C2-PFDoDA	*109*		*11 - 166*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C2 PFTeDA	*132*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d3-NMeFOSAA	*87*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d5-NEtFOSAA	*94*		*10 - 193*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C4 PFBA	*104*		*28 - 153*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d7-N-MeFOSE-M	*112*		*10 - 179*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d9-N-EtFOSE-M	*114*		*10 - 185*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
d5-NEtPFOSA	*111*		*10 - 180*	*03/07/23 18:02*	*03/16/23 02:39*	*1*
13C3 HFPO-DA	*94*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.00	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Arsenic	**2.02**	**J**	2.40	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Barium	**12.8**		0.400	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Beryllium	**0.209**	**J**	0.400	0.0801	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Cadmium	ND		0.400	0.0801	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Chromium	**3.76**		1.20	0.280	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Lead	**2.05**		1.20	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Nickel	**2.15**		0.801	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Selenium	ND		4.00	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Silver	ND	^3+	0.801	0.320	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Vanadium	**5.76**		0.801	0.344	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1
Zinc	**19.2**		1.60	0.641	mg/Kg	☼	03/07/23 19:52	03/09/23 07:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0688	0.0229	mg/Kg	☼	03/08/23 00:50	03/09/23 09:18	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0608'
Date Collected: 03/03/23 09:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-16
Matrix: Solid
Percent Solids: 84.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	84.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0810'
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-17
Matrix: Solid
Percent Solids: 82.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00449	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Acetone	ND		0.0449	0.0101	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Acrylonitrile	ND		0.00449	0.00269	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Benzene	ND		0.00449	0.00300	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromobenzene	ND		0.00449	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromochloromethane	ND		0.00449	0.00255	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromodichloromethane	ND		0.00449	0.00330	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromoform	ND		0.00449	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Bromomethane	ND		0.00898	0.00559	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2-Butanone (MEK)	ND		0.00898	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
n-Butylbenzene	ND		0.00898	0.00481	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
sec-Butylbenzene	ND		0.00449	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
tert-Butylbenzene	ND		0.00449	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Carbon disulfide	ND		0.00898	0.00315	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Carbon tetrachloride	ND		0.00449	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chlorobenzene	ND		0.00449	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chloroethane	ND		0.00898	0.00330	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chloroform	ND		0.00449	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Chloromethane	ND		0.00898	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2-Chlorotoluene	ND		0.00449	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
4-Chlorotoluene	ND		0.00449	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dibromo-3-Chloropropane	ND		0.00898	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Dibromochloromethane	ND		0.00449	0.00297	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dibromoethane (EDB)	ND		0.00449	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Dibromomethane	ND		0.00449	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dichlorobenzene	ND		0.00449	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3-Dichlorobenzene	ND		0.00449	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,4-Dichlorobenzene	ND		0.00449	0.00426	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Dichlorodifluoromethane (Freon 12)	ND		0.00898	0.00241	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1-Dichloroethane	ND		0.00449	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dichloroethane	ND		0.00449	0.00303	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1-Dichloroethene	ND		0.00449	0.00275	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
cis-1,2-Dichloroethene	ND		0.00449	0.00260	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
trans-1,2-Dichloroethene	ND		0.00449	0.00279	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2-Dichloropropane	ND		0.00449	0.00297	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3-Dichloropropane	ND		0.00449	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2,2-Dichloropropane	ND		0.00449	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1-Dichloropropene	ND		0.00449	0.00305	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
cis-1,3-Dichloropropene	ND		0.00449	0.00293	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
trans-1,3-Dichloropropene	ND		0.00449	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethylbenzene	ND		0.00449	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Hexachlorobutadiene	ND		0.00898	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
2-Hexanone (MBK)	ND		0.00898	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Isopropylbenzene	ND		0.00449	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
4-Isopropyltoluene	ND		0.00449	0.00441	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Methyl tert-butyl ether	ND		0.00449	0.00259	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		0.00898	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Methylene Chloride	ND		0.00898	0.00241	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Naphthalene	ND		0.00449	0.00406	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Styrene	ND		0.00449	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,1,2-Tetrachloroethane	ND		0.00449	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,2,2-Tetrachloroethane	ND		0.00449	0.00411	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Tetrachloroethene	ND		0.00449	0.00250	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Toluene	ND		0.00449	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,3-Trichlorobenzene	ND		0.00449	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,4-Trichlorobenzene	ND		0.00449	0.00414	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3,5-Trichlorobenzene	ND		0.00449	0.00427	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,1-Trichloroethane	ND		0.00449	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,1,2-Trichloroethane	ND		0.00449	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Trichloroethene	ND		0.00449	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Trichlorofluoromethane (Freon 11)	ND		0.00449	0.00343	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,3-Trichloropropane	ND		0.00449	0.00399	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,2,4-Trimethylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3,5-Trimethylbenzene	ND		0.00449	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Vinyl chloride	ND		0.00449	0.00274	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
m,p-Xylene	ND		0.00449	0.00613	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
o-Xylene	ND		0.00449	0.00328	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Tetrahydrofuran	ND		0.00898	0.00227	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethyl ether	ND		0.00449	0.00236	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Tert-amyl methyl ether	ND		0.00449	0.00355	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethyl tert-butyl ether	ND		0.00449	0.00295	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
di-Isopropyl ether	ND		0.00449	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
tert-Butanol	ND		0.0898	0.0241	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,4-Dioxane	ND		0.0898	0.0279	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
trans-1,4-Dichloro-2-butene	ND		0.0224	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Ethanol	ND		0.898	0.0557	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
1,3-Dichloropropene, Total	ND		0.00449	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1
Xylenes, Total	ND		0.0135	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 22:56*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.396	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,2,4-Trichlorobenzene	ND		0.396	0.0907	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,2-Dichlorobenzene	ND		0.396	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,3-Dichlorobenzene	ND		0.396	0.0959	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1,4-Dichlorobenzene	ND		0.396	0.0932	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
1-Methylnaphthalene	ND		0.0800	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4,5-Trichlorophenol	ND		0.396	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4,6-Trichlorophenol	ND		0.200	0.0490	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4-Dichlorophenol	ND		0.200	0.0798	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4-Dimethylphenol	ND		0.396	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,4-Dinitrophenol	ND		0.396	0.104	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0810'
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-17
Matrix: Solid
Percent Solids: 82.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.200	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2,6-Dinitrotoluene	ND		0.200	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Chloronaphthalene	ND		0.396	0.0915	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Chlorophenol	ND		0.200	0.0819	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Methylnaphthalene	ND		0.0800	0.0592	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Methylphenol	ND		0.396	0.0578	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Nitroaniline	ND		0.396	0.0377	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
2-Nitrophenol	ND		0.200	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
3 & 4 Methylphenol	ND		0.396	0.0750	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
3,3'-Dichlorobenzidine	ND		0.396	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
3-Nitroaniline	ND		0.396	0.0354	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4,6-Dinitro-2-methylphenol	ND		0.396	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Bromophenyl phenyl ether	ND		0.396	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Chloro-3-methylphenol	ND		0.396	0.0775	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Chloroaniline	ND		0.200	0.0304	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Chlorophenyl phenyl ether	ND		0.396	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Nitroaniline	ND		0.200	0.0632	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
4-Nitrophenol	ND		0.396	0.138	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Acenaphthene	ND		0.0800	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Acenaphthylene	ND		0.0800	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Acetophenone	ND		0.200	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Aniline	ND		0.396	0.0304	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Anthracene	ND		0.0800	0.0463	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Azobenzene/Diphenyldiazene	ND		0.396	0.0675	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzidine	ND		0.792	0.117	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[a]anthracene	ND		0.0800	0.0450	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[a]pyrene	ND		0.0800	0.0572	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[b]fluoranthene	ND		0.0800	0.0663	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[g,h,i]perylene	ND		0.0800	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzo[k]fluoranthene	ND		0.0800	0.0623	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzoic acid	ND		0.396	0.272	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Benzyl alcohol	ND		0.396	0.0717	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Bis(2-chloroethoxy)methane	ND		0.396	0.0689	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Bis(2-chloroethyl)ether	ND		0.200	0.0655	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
bis (2-chloroisopropyl) ether	ND		0.200	0.0891	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Bis(2-ethylhexyl) phthalate	ND		0.200	0.0510	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Butyl benzyl phthalate	ND		0.396	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Carbazole	ND		0.200	0.0524	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Chrysene	ND		0.0800	0.0452	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Dibenz(a,h)anthracene	ND		0.0800	0.0611	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Dibenzofuran	ND		0.200	0.0693	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Diethyl phthalate	ND		0.396	0.0434	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Dimethyl phthalate	ND		0.396	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Di-n-butyl phthalate	ND		0.396	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Di-n-octyl phthalate	ND		0.396	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Fluoranthene	ND		0.0800	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Fluorene	ND		0.0800	0.0731	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Hexachlorobenzene	ND		0.200	0.0556	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Hexachlorobutadiene	ND		0.200	0.0999	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.200	0.0765	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Hexachloroethane	ND		0.200	0.0787	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Isophorone	ND		0.200	0.0548	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Naphthalene	ND		0.0800	0.0768	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Nitrobenzene	ND		0.200	0.0925	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
N-Nitrosodimethylamine	ND		0.200	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
N-Nitrosodi-n-propylamine	ND		0.200	0.0798	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
N-Nitrosodiphenylamine	ND		0.396	0.0505	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pentachloronitrobenzene	ND		0.396	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pentachlorophenol	ND		0.396	0.162	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Phenanthrene	ND		0.0800	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Phenol	ND		0.396	0.0816	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pyrene	ND		0.0800	0.0442	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1
Pyridine	ND		0.396	0.0937	mg/Kg	☼	03/14/23 10:48	03/16/23 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
Nitrobenzene-d5 (Surr)	*105*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
Phenol-d5 (Surr)	*72*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/16/23 00:50*	*1*
Terphenyl-d14	*99*		*30 - 130*	*03/14/23 10:48*	*03/16/23 00:50*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.410	0.210	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.410	0.176	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Ethylbenzene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Methyl tert-butyl ether	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
m,p-Xylene	ND		0.164	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Naphthalene	ND		0.0821	0.0558	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
o-Xylene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
Toluene	ND		0.0821	0.0164	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.410	0.210	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
C9-C10 Aromatics	ND		0.410	0.0574	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.410	0.176	mg/Kg	☼	03/08/23 06:56	03/08/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:49*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 12:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0240	0.0173	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1221	ND		0.0240	0.00709	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1232	ND		0.0240	0.00664	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0240	0.00379	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1248	ND		0.0240	0.00749	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1254	ND		0.0240	0.0187	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1262	ND		0.0240	0.00559	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1260	ND		0.0240	0.00516	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1
PCB-1268	ND		0.0240	0.00511	mg/Kg	☼	03/09/23 15:26	03/10/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:26*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoroheptanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorononanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorodecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorotridecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorotetradecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorobutanesulfonic acid	ND		2.39	0.478	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorohexanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NEtFOSAA	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NMeFOSAA	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
10:2 FTS	ND		2.39	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoropentanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoroheptanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorononanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorodecanesulfonic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctanesulfonamide	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorohexadecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorooctadecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorobutanoic acid	ND		2.39	0.956	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoropentanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NMeFOSE	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NMeFOSA	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NEtFOSE	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
NEtFOSA	ND		2.39	0.598	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
HFPODA	ND		2.39	1.20	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
DONA	ND		3.59	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
9Cl-PF3ONS	ND		2.39	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
11Cl-PF3OUdS	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluorododecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.39	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
Perfluoroundecanoic acid	ND		0.717	0.239	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1

Client Sample ID: 2023-SB-12-0810' **Lab Sample ID: 620-10117-17**
Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.39	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.59	0.717	ug/Kg	☼	03/07/23 18:02	03/16/23 02:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
M2-6:2 FTS	*102*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C8 PFOA	*116*		*26 - 159*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C2 PFTeDA	*135*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C3 PFBS	*114*		*27 - 179*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d3-NMeFOSAA	*21*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d5-NEtFOSAA	*25*		*10 - 193*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C8 FOSA	*117*		*14 - 163*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C4 PFBA	*104*		*28 - 153*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C5 PFPeA	*95*		*24 - 161*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d7-N-MeFOSE-M	*123*		*10 - 179*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d3-NMePFOSA	*111*		*10 - 175*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d9-N-EtFOSE-M	*130*		*10 - 185*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
d5-NEtPFOSA	*118*		*10 - 180*	*03/07/23 18:02*	*03/16/23 02:50*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	5.98	2.03	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Arsenic	**7.90**		3.59	1.67	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Barium	**80.1**	**F1**	0.598	0.179	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Beryllium	**1.17**		0.598	0.120	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Cadmium	ND		0.598	0.120	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Chromium	**21.4**		1.79	0.418	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Lead	**7.35**	**F1**	1.79	0.717	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Nickel	**10.9**		1.20	0.311	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Selenium	ND		5.98	1.79	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Silver	ND	^3+	1.20	0.478	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Thallium	ND		35.9	15.5	mg/Kg	☼	03/08/23 00:33	03/10/23 03:22	10
Vanadium	**34.9**		1.20	0.514	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1
Zinc	**47.7**		2.39	0.956	mg/Kg	☼	03/08/23 00:33	03/10/23 02:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F1	0.0686	0.0229	mg/Kg	☼	03/08/23 00:46	03/10/23 09:53	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0810'
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-17
Matrix: Solid
Percent Solids: 82.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00443	0.00289	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Acetone	ND	*3 F1 F2	0.0443	0.00993	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Acrylonitrile	ND	*3 F1 F2	0.00443	0.00266	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Benzene	ND	*3	0.00443	0.00296	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromobenzene	ND	*3	0.00443	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromochloromethane	ND	*3	0.00443	0.00252	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromodichloromethane	ND	*3	0.00443	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromoform	ND	*3	0.00443	0.00339	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Bromomethane	ND	*3 *+	0.00886	0.00552	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2-Butanone (MEK)	ND	*3	0.00886	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
n-Butylbenzene	ND	*3	0.00886	0.00475	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
sec-Butylbenzene	ND	*3	0.00443	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
tert-Butylbenzene	ND	*3	0.00443	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Carbon disulfide	ND	*3	0.00886	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Carbon tetrachloride	ND	*3 F1	0.00443	0.00279	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chlorobenzene	ND	*3	0.00443	0.00324	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chloroethane	ND	*3 F1 *+	0.00886	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chloroform	ND	*3	0.00443	0.00298	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Chloromethane	ND	*3	0.00886	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2-Chlorotoluene	ND	*3	0.00443	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
4-Chlorotoluene	ND	*3	0.00443	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dibromo-3-Chloropropane	ND	*3 F1 F2	0.00886	0.00376	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Dibromochloromethane	ND	*3	0.00443	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dibromoethane (EDB)	ND	*3	0.00443	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Dibromomethane	ND	*3	0.00443	0.00261	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dichlorobenzene	ND	*3	0.00443	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3-Dichlorobenzene	ND	*3	0.00443	0.00355	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,4-Dichlorobenzene	ND	*3	0.00443	0.00420	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00886	0.00238	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1-Dichloroethane	ND	*3	0.00443	0.00300	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dichloroethane	ND	*3	0.00443	0.00299	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1-Dichloroethene	ND	*3	0.00443	0.00271	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
cis-1,2-Dichloroethene	ND	*3	0.00443	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
trans-1,2-Dichloroethene	ND	*3	0.00443	0.00276	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2-Dichloropropane	ND	*3	0.00443	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3-Dichloropropane	ND	*3	0.00443	0.00339	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2,2-Dichloropropane	ND	*3	0.00443	0.00306	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1-Dichloropropene	ND	*3	0.00443	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
cis-1,3-Dichloropropene	ND	*3	0.00443	0.00289	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
trans-1,3-Dichloropropene	ND	*3	0.00443	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethylbenzene	ND	*3	0.00443	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Hexachlorobutadiene	ND	*3	0.00886	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
2-Hexanone (MBK)	ND	*3 F1 F2	0.00886	0.00261	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Isopropylbenzene	ND	*3	0.00443	0.00335	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
4-Isopropyltoluene	ND	*3	0.00443	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Methyl tert-butyl ether	ND	*3	0.00443	0.00255	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
4-Methyl-2-pentanone (MIBK)	ND	*3 F1	0.00886	0.00286	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Methylene Chloride	ND	*3	0.00886	0.00238	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Naphthalene	ND	*3 F1 F2	0.00443	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00443	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Styrene	ND	*3	0.00443	0.00343	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00443	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00443	0.00406	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Tetrachloroethene	ND	*3	0.00443	0.00246	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Toluene	ND	*3	0.00443	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,3-Trichlorobenzene	ND	*3	0.00443	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,4-Trichlorobenzene	ND	*3	0.00443	0.00409	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3,5-Trichlorobenzene	ND	*3	0.00443	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,1-Trichloroethane	ND	*3	0.00443	0.00302	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,1,2-Trichloroethane	ND	*3	0.00443	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Trichloroethene	ND	*3	0.00443	0.00298	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00443	0.00339	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,3-Trichloropropane	ND	*3	0.00443	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,2,4-Trimethylbenzene	ND	*3	0.00443	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3,5-Trimethylbenzene	ND	*3	0.00443	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Vinyl chloride	ND	*3	0.00443	0.00270	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
m,p-Xylene	ND	*3	0.00443	0.00605	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
o-Xylene	ND	*3	0.00443	0.00323	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Tetrahydrofuran	ND	*3 F1 F2	0.00886	0.00224	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethyl ether	ND	*3	0.00443	0.00233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Tert-amyl methyl ether	ND	*3	0.00443	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethyl tert-butyl ether	ND	*3	0.00443	0.00292	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
di-Isopropyl ether	ND	*3	0.00443	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
tert-Butanol	ND	*3 F1 F2	0.0886	0.0238	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,4-Dioxane	ND	*3 F1 F2	0.0886	0.0276	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0222	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Ethanol	ND	*3 F1 F2	0.886	0.0549	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
1,3-Dichloropropene, Total	ND		0.00443	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1
Xylenes, Total	ND		0.0133	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*	*3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*
Toluene-d8 (Surr)	*96*	*3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*165*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*
Dibromofluoromethane (Surr)	*154*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 14:36*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00444	0.00289	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Acetone	ND	*3	0.0444	0.00994	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Acrylonitrile	ND	*3	0.00444	0.00266	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Benzene	ND	*3	0.00444	0.00296	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromobenzene	ND	*3	0.00444	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromochloromethane	ND	*3	0.00444	0.00252	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromodichloromethane	ND	*3	0.00444	0.00326	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromoform	ND	*3	0.00444	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Bromomethane	ND	*3	0.00887	0.00553	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2-Butanone (MEK)	ND	*3	0.00887	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00887	0.00475	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
sec-Butylbenzene	ND	*3	0.00444	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
tert-Butylbenzene	ND	*3	0.00444	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Carbon disulfide	ND	*3	0.00887	0.00311	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Carbon tetrachloride	ND	*3	0.00444	0.00279	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chlorobenzene	ND	*3	0.00444	0.00325	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chloroethane	ND	*3	0.00887	0.00326	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chloroform	ND	*3	0.00444	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Chloromethane	ND	*3	0.00887	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2-Chlorotoluene	ND	*3	0.00444	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
4-Chlorotoluene	ND	*3	0.00444	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.00887	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Dibromochloromethane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dibromoethane (EDB)	ND	*3	0.00444	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Dibromomethane	ND	*3	0.00444	0.00261	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dichlorobenzene	ND	*3	0.00444	0.00412	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3-Dichlorobenzene	ND	*3	0.00444	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,4-Dichlorobenzene	ND	*3	0.00444	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.00887	0.00238	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1-Dichloroethane	ND	*3	0.00444	0.00301	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dichloroethane	ND	*3	0.00444	0.00299	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1-Dichloroethene	ND	*3	0.00444	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
cis-1,2-Dichloroethene	ND	*3	0.00444	0.00256	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
trans-1,2-Dichloroethene	ND	*3	0.00444	0.00276	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2-Dichloropropane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3-Dichloropropane	ND	*3	0.00444	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2,2-Dichloropropane	ND	*3	0.00444	0.00306	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1-Dichloropropene	ND	*3	0.00444	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
cis-1,3-Dichloropropene	ND	*3	0.00444	0.00289	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
trans-1,3-Dichloropropene	ND	*3	0.00444	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethylbenzene	ND	*3	0.00444	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Hexachlorobutadiene	ND	*3	0.00887	0.00446	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
2-Hexanone (MBK)	ND	*3	0.00887	0.00261	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Isopropylbenzene	ND	*3	0.00444	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
4-Isopropyltoluene	ND	*3	0.00444	0.00436	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Methyl tert-butyl ether	ND	*3	0.00444	0.00255	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00887	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Methylene Chloride	ND	*3	0.00887	0.00238	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Naphthalene	ND	*3	0.00444	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
N-Propylbenzene	ND	*3	0.00444	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Styrene	ND	*3	0.00444	0.00343	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00444	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1,2,2-Tetrachloroethane	ND	*3 *+	0.00444	0.00406	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Tetrachloroethene	ND	*3	0.00444	0.00247	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Toluene	ND	*3	0.00444	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,3-Trichlorobenzene	ND	*3	0.00444	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,4-Trichlorobenzene	ND	*3	0.00444	0.00409	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3,5-Trichlorobenzene	ND	*3	0.00444	0.00421	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,1,1-Trichloroethane	ND	*3	0.00444	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1

Client Sample ID: 2023-SB-12-1012' **Lab Sample ID: 620-10117-18**
Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00444	0.00334	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Trichloroethene	ND	*3	0.00444	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00444	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,3-Trichloropropane	ND	*3	0.00444	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,2,4-Trimethylbenzene	ND	*3	0.00444	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3,5-Trimethylbenzene	ND	*3	0.00444	0.00377	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Vinyl chloride	ND	*3	0.00444	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
m,p-Xylene	ND	*3	0.00444	0.00606	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
o-Xylene	ND	*3	0.00444	0.00324	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Tetrahydrofuran	ND	*3	0.00887	0.00224	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethyl ether	ND	*3	0.00444	0.00233	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Tert-amyl methyl ether	ND	*3	0.00444	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethyl tert-butyl ether	ND	*3	0.00444	0.00292	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
di-Isopropyl ether	ND	*3	0.00444	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
tert-Butanol	ND	*3	0.0887	0.0238	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,4-Dioxane	ND	*3	0.0887	0.0276	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0222	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Ethanol	ND	*3	0.887	0.0550	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
1,3-Dichloropropene, Total	ND		0.00444	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1
Xylenes, Total	ND		0.0133	0.00444	mg/Kg	☼	03/14/23 10:36	03/14/23 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*	*3	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*
Toluene-d8 (Surr)	*89*	*3	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*158*	*3 S1+	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*
Dibromofluoromethane (Surr)	*137*	*3 S1+	*70 - 130*	*03/14/23 10:36*	*03/14/23 13:50*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.360	0.0640	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,2,4-Trichlorobenzene	ND		0.360	0.0825	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,2-Dichlorobenzene	ND		0.360	0.0694	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,3-Dichlorobenzene	ND		0.360	0.0872	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1,4-Dichlorobenzene	ND		0.360	0.0848	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
1-Methylnaphthalene	ND		0.0728	0.0611	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4,5-Trichlorophenol	ND		0.360	0.0412	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4,6-Trichlorophenol	ND		0.182	0.0445	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dichlorophenol	ND		0.182	0.0725	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dimethylphenol	ND		0.360	0.0528	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dinitrophenol	ND		0.360	0.0947	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,4-Dinitrotoluene	ND		0.182	0.0427	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2,6-Dinitrotoluene	ND		0.182	0.0427	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Chloronaphthalene	ND		0.360	0.0832	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Chlorophenol	ND		0.182	0.0745	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Methylnaphthalene	ND		0.0728	0.0538	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Methylphenol	ND		0.360	0.0526	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Nitroaniline	ND		0.360	0.0343	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
2-Nitrophenol	ND		0.182	0.0647	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
3 & 4 Methylphenol	ND		0.360	0.0682	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
3,3'-Dichlorobenzidine	ND		0.360	0.0595	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.360	0.0322	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4,6-Dinitro-2-methylphenol	ND		0.360	0.0647	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Bromophenyl phenyl ether	ND		0.360	0.0407	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Chloro-3-methylphenol	ND		0.360	0.0705	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Chloroaniline	ND		0.182	0.0276	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Chlorophenyl phenyl ether	ND		0.360	0.0385	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Nitroaniline	ND		0.182	0.0575	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
4-Nitrophenol	ND		0.360	0.125	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Acenaphthene	ND		0.0728	0.0580	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Acenaphthylene	ND		0.0728	0.0478	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Acetophenone	ND		0.182	0.0444	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Aniline	ND		0.360	0.0276	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Anthracene	ND		0.0728	0.0421	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Azobenzene/Diphenyldiazene	ND		0.360	0.0614	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzidine	ND	F1	0.720	0.107	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[a]anthracene	ND		0.0728	0.0409	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[a]pyrene	ND		0.0728	0.0520	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[b]fluoranthene	ND		0.0728	0.0603	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[g,h,i]perylene	ND		0.0728	0.0568	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzo[k]fluoranthene	ND		0.0728	0.0566	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzoic acid	ND		0.360	0.248	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Benzyl alcohol	ND		0.360	0.0652	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Bis(2-chloroethoxy)methane	ND		0.360	0.0626	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Bis(2-chloroethyl)ether	ND		0.182	0.0596	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
bis (2-chloroisopropyl) ether	ND		0.182	0.0811	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Bis(2-ethylhexyl) phthalate	ND		0.182	0.0464	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Butyl benzyl phthalate	ND		0.360	0.0361	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Carbazole	ND		0.182	0.0477	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Chrysene	ND		0.0728	0.0411	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Dibenz(a,h)anthracene	ND		0.0728	0.0555	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Dibenzofuran	ND		0.182	0.0631	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Diethyl phthalate	ND		0.360	0.0395	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Dimethyl phthalate	ND		0.360	0.0469	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Di-n-butyl phthalate	ND		0.360	0.0385	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Di-n-octyl phthalate	ND		0.360	0.0595	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Fluoranthene	ND		0.0728	0.0427	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Fluorene	ND		0.0728	0.0664	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachlorobenzene	ND		0.182	0.0505	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachlorobutadiene	ND		0.182	0.0909	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachlorocyclopentadiene	ND		0.182	0.0696	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Hexachloroethane	ND		0.182	0.0716	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0728	0.0617	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Isophorone	ND		0.182	0.0499	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Naphthalene	ND		0.0728	0.0698	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Nitrobenzene	ND		0.182	0.0841	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
N-Nitrosodimethylamine	ND		0.182	0.0478	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
N-Nitrosodi-n-propylamine	ND		0.182	0.0725	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
N-Nitrosodiphenylamine	ND		0.360	0.0459	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Pentachloronitrobenzene	ND		0.360	0.0568	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1

Client Sample ID: 2023-SB-12-1012'
Date Collected: 03/03/23 09:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-18
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.360	0.147	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Phenanthrene	ND		0.0728	0.0412	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Phenol	ND		0.360	0.0742	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Pyrene	ND		0.0728	0.0401	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1
Pyridine	ND		0.360	0.0852	mg/Kg	☼	03/14/23 10:48	03/15/23 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
2-Fluorophenol (Surr)	*74*		*15 - 110*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
Nitrobenzene-d5 (Surr)	*52*		*30 - 130*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
Phenol-d5 (Surr)	*50*		*15 - 110*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/14/23 10:48*	*03/15/23 21:33*	*1*
Terphenyl-d14	*92*		*30 - 130*	*03/14/23 10:48*	*03/15/23 21:33*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.402	0.206	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.402	0.172	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Ethylbenzene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Methyl tert-butyl ether	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
m,p-Xylene	ND		0.161	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Naphthalene	**0.0583**	**J B**	0.0804	0.0546	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
o-Xylene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
Toluene	ND		0.0804	0.0161	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
C5-C8 Aliphatics (unadjusted)	ND		0.402	0.206	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
C9-C10 Aromatics	ND		0.402	0.0563	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1
C9-C12 Aliphatics (unadjusted)	ND		0.402	0.172	mg/Kg	☼	03/08/23 06:56	03/08/23 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/08/23 06:56*	*03/08/23 10:12*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/08/23 06:56*	*03/08/23 10:12*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.0230	0.0166	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1232	ND		0.0230	0.00637	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1242	ND		0.0230	0.00363	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1254	**0.0274**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1260	ND	F2	0.0230	0.00494	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	03/09/23 15:26	03/10/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:44*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:26*	*03/10/23 19:44*	*1*

Client Sample ID: 2023-SB-12-1012' **Lab Sample ID: 620-10117-18**
Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	101		30 - 150	03/09/23 15:26	03/10/23 19:44	1
DCB Decachlorobiphenyl (Surr)	107		30 - 150	03/09/23 15:26	03/10/23 19:44	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	103		10 - 200	03/07/23 18:02	03/16/23 03:01	1
M2-8:2 FTS	111		15 - 200	03/07/23 18:02	03/16/23 03:01	1
M2-6:2 FTS	124		10 - 200	03/07/23 18:02	03/16/23 03:01	1
13C5 PFHxA	119		10 - 174	03/07/23 18:02	03/16/23 03:01	1
13C4 PFHpA	130		10 - 178	03/07/23 18:02	03/16/23 03:01	1
13C8 PFOA	129		26 - 159	03/07/23 18:02	03/16/23 03:01	1

Client Sample ID: 2023-SB-12-1012' **Lab Sample ID: 620-10117-18**
Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	117		26 - 165	03/07/23 18:02	03/16/23 03:01	1
13C6 PFDA	122		26 - 161	03/07/23 18:02	03/16/23 03:01	1
13C7 PFUnA	136		12 - 173	03/07/23 18:02	03/16/23 03:01	1
13C2-PFDoDA	126		11 - 166	03/07/23 18:02	03/16/23 03:01	1
13C2 PFTeDA	151		10 - 169	03/07/23 18:02	03/16/23 03:01	1
13C3 PFBS	129		27 - 179	03/07/23 18:02	03/16/23 03:01	1
13C3 PFHxS	120		24 - 171	03/07/23 18:02	03/16/23 03:01	1
13C8 PFOS	122		41 - 154	03/07/23 18:02	03/16/23 03:01	1
d3-NMeFOSAA	71		10 - 178	03/07/23 18:02	03/16/23 03:01	1
d5-NEtFOSAA	81		10 - 193	03/07/23 18:02	03/16/23 03:01	1
13C8 FOSA	122		14 - 163	03/07/23 18:02	03/16/23 03:01	1
13C4 PFBA	121		28 - 153	03/07/23 18:02	03/16/23 03:01	1
13C5 PFPeA	110		24 - 161	03/07/23 18:02	03/16/23 03:01	1
d7-N-MeFOSE-M	136		10 - 179	03/07/23 18:02	03/16/23 03:01	1
d3-NMePFOSA	120		10 - 175	03/07/23 18:02	03/16/23 03:01	1
d9-N-EtFOSE-M	138		10 - 185	03/07/23 18:02	03/16/23 03:01	1
d5-NEtPFOSA	129		10 - 180	03/07/23 18:02	03/16/23 03:01	1
13C3 HFPO-DA	102		10 - 169	03/07/23 18:02	03/16/23 03:01	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F2	4.31	1.46	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Arsenic	**3.17**	**F2**	2.58	1.21	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Barium	**17.6**	**F1**	0.431	0.129	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Beryllium	**0.348**	**J**	0.431	0.0861	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Cadmium	ND	F2	0.431	0.0861	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Chromium	**6.59**		1.29	0.301	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Lead	**2.85**	**F1**	1.29	0.517	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Nickel	**3.47**		0.861	0.224	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Selenium	ND	F2	4.31	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Silver	ND	F2 ^3+	0.861	0.344	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Thallium	ND	F2 F1	2.58	1.12	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Vanadium	**9.07**	**F1**	0.861	0.370	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1
Zinc	**28.0**		1.72	0.689	mg/Kg	☼	03/07/23 13:12	03/09/23 07:40	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0686	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.0**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**86.0**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0002'
Date Collected: 03/03/23 09:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-19
Matrix: Solid
Percent Solids: 88.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00493	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Acetone	ND		0.0493	0.0111	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Acrylonitrile	ND		0.00493	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Benzene	ND		0.00493	0.00330	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromobenzene	ND		0.00493	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromochloromethane	ND		0.00493	0.00280	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromodichloromethane	ND		0.00493	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromoform	ND		0.00493	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Bromomethane	ND		0.00987	0.00615	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2-Butanone (MEK)	ND		0.00987	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
n-Butylbenzene	ND		0.00987	0.00529	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
sec-Butylbenzene	ND		0.00493	0.00398	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
tert-Butylbenzene	ND		0.00493	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Carbon disulfide	ND		0.00987	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Carbon tetrachloride	ND		0.00493	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chlorobenzene	ND		0.00493	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chloroethane	ND		0.00987	0.00362	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chloroform	ND		0.00493	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Chloromethane	ND		0.00987	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2-Chlorotoluene	ND		0.00493	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
4-Chlorotoluene	ND		0.00493	0.00428	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dibromo-3-Chloropropane	ND		0.00987	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Dibromochloromethane	ND		0.00493	0.00327	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dibromoethane (EDB)	ND		0.00493	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Dibromomethane	ND		0.00493	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dichlorobenzene	ND		0.00493	0.00458	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3-Dichlorobenzene	ND		0.00493	0.00396	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,4-Dichlorobenzene	ND		0.00493	0.00468	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Dichlorodifluoromethane (Freon 12)	ND		0.00987	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1-Dichloroethane	ND		0.00493	0.00335	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dichloroethane	ND		0.00493	0.00333	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1-Dichloroethene	ND		0.00493	0.00302	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
cis-1,2-Dichloroethene	ND		0.00493	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
trans-1,2-Dichloroethene	ND		0.00493	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2-Dichloropropane	ND		0.00493	0.00327	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3-Dichloropropane	ND		0.00493	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2,2-Dichloropropane	ND		0.00493	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1-Dichloropropene	ND		0.00493	0.00336	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
cis-1,3-Dichloropropene	ND		0.00493	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
trans-1,3-Dichloropropene	ND		0.00493	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethylbenzene	ND		0.00493	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Hexachlorobutadiene	ND		0.00987	0.00496	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
2-Hexanone (MBK)	ND		0.00987	0.00290	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Isopropylbenzene	ND		0.00493	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
4-Isopropyltoluene	ND		0.00493	0.00485	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Methyl tert-butyl ether	ND		0.00493	0.00284	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
4-Methyl-2-pentanone (MIBK)	ND		0.00987	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Methylene Chloride	ND		0.00987	0.00264	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Naphthalene	ND		0.00493	0.00446	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Styrene	ND		0.00493	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,1,2-Tetrachloroethane	ND		0.00493	0.00370	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,2,2-Tetrachloroethane	ND		0.00493	0.00452	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Tetrachloroethene	ND		0.00493	0.00274	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Toluene	ND		0.00493	0.00313	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,3-Trichlorobenzene	ND		0.00493	0.00416	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,4-Trichlorobenzene	ND		0.00493	0.00455	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3,5-Trichlorobenzene	ND		0.00493	0.00469	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,1-Trichloroethane	ND		0.00493	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,1,2-Trichloroethane	ND		0.00493	0.00372	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Trichloroethene	ND		0.00493	0.00332	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Trichlorofluoromethane (Freon 11)	ND		0.00493	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,3-Trichloropropane	ND		0.00493	0.00438	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,2,4-Trimethylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3,5-Trimethylbenzene	ND		0.00493	0.00419	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Vinyl chloride	ND		0.00493	0.00301	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
m,p-Xylene	ND		0.00493	0.00674	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
o-Xylene	ND		0.00493	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Tetrahydrofuran	ND		0.00987	0.00250	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethyl ether	ND		0.00493	0.00260	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Tert-amyl methyl ether	ND		0.00493	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethyl tert-butyl ether	ND		0.00493	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
di-Isopropyl ether	ND		0.00493	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
tert-Butanol	ND		0.0987	0.0264	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,4-Dioxane	ND		0.0987	0.0307	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Ethanol	ND		0.987	0.0612	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
1,3-Dichloropropene, Total	ND		0.00493	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1
Xylenes, Total	ND		0.0148	0.00493	mg/Kg	☼	03/08/23 10:32	03/08/23 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:21*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.351	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,2,4-Trichlorobenzene	ND		0.351	0.0805	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,2-Dichlorobenzene	ND		0.351	0.0677	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,3-Dichlorobenzene	ND		0.351	0.0850	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1,4-Dichlorobenzene	ND		0.351	0.0827	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
1-Methylnaphthalene	ND		0.0710	0.0596	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4,5-Trichlorophenol	ND		0.351	0.0402	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4,6-Trichlorophenol	ND		0.178	0.0434	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4-Dichlorophenol	ND		0.178	0.0708	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4-Dimethylphenol	ND		0.351	0.0515	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,4-Dinitrophenol	ND		0.351	0.0924	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0002'
Date Collected: 03/03/23 09:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-19
Matrix: Solid
Percent Solids: 88.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.178	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2,6-Dinitrotoluene	ND		0.178	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Chloronaphthalene	ND		0.351	0.0812	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Chlorophenol	ND		0.178	0.0727	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Methylnaphthalene	ND		0.0710	0.0525	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Methylphenol	ND		0.351	0.0513	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Nitroaniline	ND		0.351	0.0334	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
2-Nitrophenol	ND		0.178	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
3 & 4 Methylphenol	ND		0.351	0.0665	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
3,3'-Dichlorobenzidine	ND		0.351	0.0580	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
3-Nitroaniline	ND		0.351	0.0314	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4,6-Dinitro-2-methylphenol	ND		0.351	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Bromophenyl phenyl ether	ND		0.351	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Chloro-3-methylphenol	ND		0.351	0.0688	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Chloroaniline	ND		0.178	0.0269	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Chlorophenyl phenyl ether	ND		0.351	0.0376	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Nitroaniline	ND		0.178	0.0561	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
4-Nitrophenol	ND		0.351	0.122	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Acenaphthene	ND		0.0710	0.0566	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Acenaphthylene	ND		0.0710	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Acetophenone	ND		0.178	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Aniline	ND		0.351	0.0269	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Anthracene	ND		0.0710	0.0411	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Azobenzene/Diphenyldiazene	ND		0.351	0.0599	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzidine	**0.303**	**J**	0.702	0.104	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[a]anthracene	ND		0.0710	0.0399	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[a]pyrene	ND		0.0710	0.0508	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[b]fluoranthene	ND		0.0710	0.0589	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[g,h,i]perylene	ND		0.0710	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzo[k]fluoranthene	ND		0.0710	0.0552	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzoic acid	ND		0.351	0.242	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Benzyl alcohol	ND		0.351	0.0637	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Bis(2-chloroethoxy)methane	ND		0.351	0.0611	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Bis(2-chloroethyl)ether	ND		0.178	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
bis (2-chloroisopropyl) ether	ND		0.178	0.0791	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Bis(2-ethylhexyl) phthalate	**7.11**		0.889	0.226	mg/Kg	☼	03/14/23 10:48	03/16/23 17:59	5
Butyl benzyl phthalate	**0.159**	**J**	0.351	0.0352	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Carbazole	ND		0.178	0.0465	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Chrysene	ND		0.0710	0.0401	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Dibenz(a,h)anthracene	ND		0.0710	0.0542	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Dibenzofuran	ND		0.178	0.0615	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Diethyl phthalate	ND		0.351	0.0385	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Dimethyl phthalate	ND		0.351	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Di-n-butyl phthalate	ND		0.351	0.0376	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Di-n-octyl phthalate	ND		0.351	0.0580	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Fluoranthene	ND		0.0710	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Fluorene	ND		0.0710	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Hexachlorobenzene	ND		0.178	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Hexachlorobutadiene	ND		0.178	0.0887	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.178	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Hexachloroethane	ND		0.178	0.0698	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Indeno[1,2,3-cd]pyrene	ND		0.0710	0.0602	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Isophorone	ND		0.178	0.0486	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Naphthalene	ND		0.0710	0.0681	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Nitrobenzene	ND		0.178	0.0821	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
N-Nitrosodimethylamine	ND		0.178	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
N-Nitrosodi-n-propylamine	ND		0.178	0.0708	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
N-Nitrosodiphenylamine	ND		0.351	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pentachloronitrobenzene	ND		0.351	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pentachlorophenol	ND		0.351	0.144	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Phenanthrene	ND		0.0710	0.0402	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Phenol	ND		0.351	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pyrene	ND		0.0710	0.0392	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1
Pyridine	ND		0.351	0.0831	mg/Kg	☼	03/14/23 10:48	03/16/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
2-Fluorophenol (Surr)	*77*		*15 - 110*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
2-Fluorophenol (Surr)	*73*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
Phenol-d5 (Surr)	*63*		*15 - 110*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
Phenol-d5 (Surr)	*57*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
2,4,6-Tribromophenol (Surr)	*51*		*15 - 110*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:59*	*5*
Terphenyl-d14	*99*		*30 - 130*	*03/14/23 10:48*	*03/16/23 01:47*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:59*	*5*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.221	0.113	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.221	0.0948	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Ethylbenzene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Methyl tert-butyl ether	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
m,p-Xylene	ND		0.0886	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Naphthalene	ND		0.0443	0.0301	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
o-Xylene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
Toluene	ND		0.0443	0.00886	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
C5-C8 Aliphatics (unadjusted)	ND		0.221	0.113	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
C9-C10 Aromatics	ND		0.221	0.0310	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1
C9-C12 Aliphatics (unadjusted)	ND		0.221	0.0948	mg/Kg	☼	03/08/23 06:56	03/08/23 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/08/23 06:56*	*03/08/23 13:29*	*1*

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/08/23 06:56*	*03/08/23 13:29*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.109	0.0785	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1221	ND		0.109	0.0322	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1232	ND		0.109	0.0302	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1242	ND		0.109	0.0172	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1248	ND		0.109	0.0340	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1254	**2.84**		0.109	0.0848	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1262	ND		0.109	0.0254	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1260	ND		0.109	0.0234	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5
PCB-1268	ND		0.109	0.0232	mg/Kg	☼	03/09/23 15:26	03/13/23 15:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*
Tetrachloro-m-xylene	*107*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*
DCB Decachlorobiphenyl (Surr)	*137*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*
DCB Decachlorobiphenyl (Surr)	*150*		*30 - 150*	*03/09/23 15:26*	*03/13/23 15:13*	*5*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoroheptanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorononanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorodecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorotridecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorotetradecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorobutanesulfonic acid	ND		2.19	0.438	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorohexanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NEtFOSAA	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NMeFOSAA	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
10:2 FTS	ND		2.19	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoropentanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoroheptanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorononanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorodecanesulfonic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctanesulfonamide	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorohexadecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorooctadecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorobutanoic acid	ND		2.19	0.877	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoropentanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NMeFOSE	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NMeFOSA	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NEtFOSE	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
NEtFOSA	ND		2.19	0.548	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1

Client Sample ID: 2023-SB-07-0002' **Lab Sample ID: 620-10117-19**
Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.19	1.10	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
DONA	ND		3.29	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
9Cl-PF3ONS	ND		2.19	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
11Cl-PF3OUdS	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluorododecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.19	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
Perfluoroundecanoic acid	ND		0.658	0.219	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
6:2 Fluorotelomer sulfonic acid	ND		2.19	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.29	0.658	ug/Kg	☼	03/07/23 18:02	03/16/23 03:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
M2-8:2 FTS	*120*		*15 - 200*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
M2-6:2 FTS	*120*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C5 PFHxA	*115*		*10 - 174*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C4 PFHpA	*118*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C8 PFOA	*123*		*26 - 159*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C9 PFNA	*119*		*26 - 165*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C6 PFDA	*122*		*26 - 161*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C2 PFTeDA	*143*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C3 PFHxS	*120*		*24 - 171*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C8 PFOS	*121*		*41 - 154*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d3-NMeFOSAA	*83*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d5-NEtFOSAA	*91*		*10 - 193*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C4 PFBA	*119*		*28 - 153*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d7-N-MeFOSE-M	*110*		*10 - 179*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d3-NMePFOSA	*96*		*10 - 175*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/07/23 18:02*	*03/16/23 03:34*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:34*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.43	1.85	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Arsenic	**4.20**		3.26	1.52	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Barium	**33.1**		0.543	0.163	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Beryllium	**0.332**	**J**	0.543	0.109	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Cadmium	ND		0.543	0.109	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Chromium	**9.47**		1.63	0.380	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Lead	**6.36**		1.63	0.651	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Nickel	**5.22**		1.09	0.282	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Selenium	ND		5.43	1.63	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Silver	ND	^3+	1.09	0.434	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Thallium	ND		3.26	1.41	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1
Vanadium	**14.0**		1.09	0.467	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1

Client Sample ID: 2023-SB-07-0002' Lab Sample ID: 620-10117-19

Date Collected: 03/03/23 09:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.6**

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	23.2		2.17	0.868	mg/Kg	☼	03/07/23 19:52	03/09/23 06:59	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0666	0.0222	mg/Kg	☼	03/08/23 00:46	03/09/23 07:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	88.6		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0204'
Date Collected: 03/03/23 09:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-20
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00517	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Acetone	ND		0.0517	0.0116	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Acrylonitrile	ND		0.00517	0.00310	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Benzene	ND		0.00517	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromobenzene	ND		0.00517	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromochloromethane	ND		0.00517	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromodichloromethane	ND		0.00517	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromoform	ND		0.00517	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Bromomethane	ND		0.0103	0.00644	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2-Butanone (MEK)	ND		0.0103	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
n-Butylbenzene	ND		0.0103	0.00554	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
sec-Butylbenzene	ND		0.00517	0.00417	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
tert-Butylbenzene	ND		0.00517	0.00407	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Carbon disulfide	ND		0.0103	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Carbon tetrachloride	ND		0.00517	0.00326	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chlorobenzene	ND		0.00517	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chloroethane	ND		0.0103	0.00379	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chloroform	ND		0.00517	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Chloromethane	ND		0.0103	0.00397	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2-Chlorotoluene	ND		0.00517	0.00412	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
4-Chlorotoluene	ND		0.00517	0.00449	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dibromo-3-Chloropropane	ND		0.0103	0.00438	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Dibromochloromethane	ND		0.00517	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dibromoethane (EDB)	ND		0.00517	0.00371	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Dibromomethane	ND		0.00517	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dichlorobenzene	ND		0.00517	0.00480	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3-Dichlorobenzene	ND		0.00517	0.00415	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,4-Dichlorobenzene	ND		0.00517	0.00490	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Dichlorodifluoromethane (Freon 12)	ND		0.0103	0.00277	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1-Dichloroethane	ND		0.00517	0.00351	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dichloroethane	ND		0.00517	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1-Dichloroethene	ND		0.00517	0.00316	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
cis-1,2-Dichloroethene	ND		0.00517	0.00299	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
trans-1,2-Dichloroethene	ND		0.00517	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2-Dichloropropane	ND		0.00517	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3-Dichloropropane	ND		0.00517	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2,2-Dichloropropane	ND		0.00517	0.00357	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1-Dichloropropene	ND		0.00517	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
cis-1,3-Dichloropropene	ND		0.00517	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
trans-1,3-Dichloropropene	ND		0.00517	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethylbenzene	ND		0.00517	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Hexachlorobutadiene	ND		0.0103	0.00520	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
2-Hexanone (MBK)	ND		0.0103	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Isopropylbenzene	ND		0.00517	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
4-Isopropyltoluene	ND		0.00517	0.00508	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Methyl tert-butyl ether	ND		0.00517	0.00298	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
4-Methyl-2-pentanone (MIBK)	ND		0.0103	0.00334	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Methylene Chloride	ND		0.0103	0.00277	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Naphthalene	ND		0.00517	0.00467	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0204'
Date Collected: 03/03/23 09:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-20
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00517	0.00437	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Styrene	ND		0.00517	0.00400	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,1,2-Tetrachloroethane	ND		0.00517	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,2,2-Tetrachloroethane	ND		0.00517	0.00474	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Tetrachloroethene	ND		0.00517	0.00287	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Toluene	ND		0.00517	0.00328	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,3-Trichlorobenzene	ND		0.00517	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,4-Trichlorobenzene	ND		0.00517	0.00477	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3,5-Trichlorobenzene	ND		0.00517	0.00491	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,1-Trichloroethane	ND		0.00517	0.00353	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,1,2-Trichloroethane	ND		0.00517	0.00390	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Trichloroethene	ND		0.00517	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Trichlorofluoromethane (Freon 11)	ND		0.00517	0.00395	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,3-Trichloropropane	ND		0.00517	0.00459	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,2,4-Trimethylbenzene	ND		0.00517	0.00437	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3,5-Trimethylbenzene	ND		0.00517	0.00439	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Vinyl chloride	ND		0.00517	0.00315	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
m,p-Xylene	ND		0.00517	0.00706	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
o-Xylene	ND		0.00517	0.00377	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Tetrahydrofuran	ND		0.0103	0.00262	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethyl ether	ND		0.00517	0.00272	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Tert-amyl methyl ether	ND		0.00517	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethyl tert-butyl ether	ND		0.00517	0.00340	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
di-Isopropyl ether	ND		0.00517	0.00369	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
tert-Butanol	ND		0.103	0.0277	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,4-Dioxane	ND		0.103	0.0322	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
trans-1,4-Dichloro-2-butene	ND		0.0259	0.00382	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Ethanol	ND		1.03	0.0641	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
1,3-Dichloropropene, Total	ND		0.00517	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1
Xylenes, Total	ND		0.0155	0.00517	mg/Kg	☼	03/08/23 10:32	03/08/23 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 23:47*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.371	0.0660	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,2,4-Trichlorobenzene	ND		0.371	0.0850	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,2-Dichlorobenzene	ND		0.371	0.0715	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,3-Dichlorobenzene	ND		0.371	0.0898	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1,4-Dichlorobenzene	ND		0.371	0.0873	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
1-Methylnaphthalene	ND		0.0750	0.0629	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4,5-Trichlorophenol	ND		0.371	0.0425	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4,6-Trichlorophenol	ND		0.188	0.0459	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4-Dichlorophenol	ND		0.188	0.0747	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4-Dimethylphenol	ND		0.371	0.0544	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,4-Dinitrophenol	ND		0.371	0.0975	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0204'
Date Collected: 03/03/23 09:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-20
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.188	0.0439	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2,6-Dinitrotoluene	ND		0.188	0.0439	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Chloronaphthalene	ND		0.371	0.0857	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Chlorophenol	ND		0.188	0.0768	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Methylnaphthalene	ND		0.0750	0.0554	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Methylphenol	ND		0.371	0.0542	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Nitroaniline	ND		0.371	0.0353	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
2-Nitrophenol	ND		0.188	0.0666	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
3 & 4 Methylphenol	ND		0.371	0.0702	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
3,3'-Dichlorobenzidine	ND		0.371	0.0612	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
3-Nitroaniline	ND		0.371	0.0332	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4,6-Dinitro-2-methylphenol	ND		0.371	0.0666	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Bromophenyl phenyl ether	ND		0.371	0.0419	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Chloro-3-methylphenol	ND		0.371	0.0726	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Chloroaniline	ND		0.188	0.0284	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Chlorophenyl phenyl ether	ND		0.371	0.0397	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Nitroaniline	ND		0.188	0.0592	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
4-Nitrophenol	ND		0.371	0.129	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Acenaphthene	ND		0.0750	0.0598	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Acenaphthylene	ND		0.0750	0.0492	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Acetophenone	ND		0.188	0.0457	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Aniline	ND		0.371	0.0284	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Anthracene	**0.0585**	**J**	0.0750	0.0434	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Azobenzene/Diphenyldiazene	ND		0.371	0.0633	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzidine	ND		0.742	0.110	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[a]anthracene	**0.0753**		0.0750	0.0421	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[a]pyrene	**0.0652**	**J**	0.0750	0.0536	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[b]fluoranthene	**0.0758**		0.0750	0.0621	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[g,h,i]perylene	ND		0.0750	0.0585	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzo[k]fluoranthene	**0.0748**	**J**	0.0750	0.0583	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzoic acid	ND		0.371	0.255	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Benzyl alcohol	ND		0.371	0.0672	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Bis(2-chloroethoxy)methane	ND		0.371	0.0645	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Bis(2-chloroethyl)ether	ND		0.188	0.0614	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
bis (2-chloroisopropyl) ether	ND		0.188	0.0835	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Bis(2-ethylhexyl) phthalate	**0.135**	**J**	0.188	0.0478	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Butyl benzyl phthalate	**0.438**		0.371	0.0372	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Carbazole	ND		0.188	0.0491	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Chrysene	**0.0790**		0.0750	0.0424	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Dibenz(a,h)anthracene	ND		0.0750	0.0572	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Dibenzofuran	ND		0.188	0.0650	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Diethyl phthalate	ND		0.371	0.0407	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Dimethyl phthalate	ND		0.371	0.0483	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Di-n-butyl phthalate	ND		0.371	0.0397	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Di-n-octyl phthalate	ND		0.371	0.0612	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Fluoranthene	**0.167**		0.0750	0.0439	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Fluorene	ND		0.0750	0.0684	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Hexachlorobenzene	ND		0.188	0.0520	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Hexachlorobutadiene	ND		0.188	0.0936	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.188	0.0717	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Hexachloroethane	ND		0.188	0.0737	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Indeno[1,2,3-cd]pyrene	ND		0.0750	0.0636	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Isophorone	ND		0.188	0.0514	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Naphthalene	ND		0.0750	0.0719	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Nitrobenzene	ND		0.188	0.0866	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
N-Nitrosodimethylamine	ND		0.188	0.0492	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
N-Nitrosodi-n-propylamine	ND		0.188	0.0747	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
N-Nitrosodiphenylamine	ND		0.371	0.0473	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pentachloronitrobenzene	ND		0.371	0.0585	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pentachlorophenol	ND		0.371	0.152	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Phenanthrene	**0.159**		0.0750	0.0425	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Phenol	ND		0.371	0.0764	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pyrene	**0.154**		0.0750	0.0414	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1
Pyridine	ND		0.371	0.0878	mg/Kg	☼	03/14/23 10:48	03/15/23 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
2-Fluorophenol (Surr)	*101*		*15 - 110*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
Nitrobenzene-d5 (Surr)	*87*		*30 - 130*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*15 - 110*	*03/14/23 10:48*	*03/15/23 22:58*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/14/23 10:48*	*03/15/23 22:58*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.235	0.120	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.235	0.100	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Ethylbenzene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Methyl tert-butyl ether	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
m,p-Xylene	ND		0.0939	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Naphthalene	ND		0.0470	0.0319	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
o-Xylene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
Toluene	ND		0.0470	0.00939	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
C5-C8 Aliphatics (unadjusted)	ND		0.235	0.120	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
C9-C10 Aromatics	ND		0.235	0.0329	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1
C9-C12 Aliphatics (unadjusted)	ND		0.235	0.100	mg/Kg	☼	03/08/23 06:56	03/08/23 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 14:08*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 14:08*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0231	0.0167	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1221	ND		0.0231	0.00683	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1232	ND		0.0231	0.00641	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0231	0.00365	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1248	ND		0.0231	0.00723	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1254	**1.05**		0.0231	0.0180	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1262	ND		0.0231	0.00539	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1260	ND		0.0231	0.00497	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1
PCB-1268	ND		0.0231	0.00493	mg/Kg	☼	03/09/23 15:27	03/11/23 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*
Tetrachloro-m-xylene	*91*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*03/09/23 15:27*	*03/11/23 05:58*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 03:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
M2-6:2 FTS	*121*		*10 - 200*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C5 PFHxA	*124*		*10 - 174*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C4 PFHpA	*121*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C8 PFOA	*129*		*26 - 159*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C7 PFUnA	*134*		*12 - 173*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C2-PFDoDA	*121*		*11 - 166*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C2 PFTeDA	*143*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C3 PFBS	*124*		*27 - 179*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C3 PFHxS	*125*		*24 - 171*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d3-NMeFOSAA	*77*		*10 - 178*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d5-NEtFOSAA	*90*		*10 - 193*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C8 FOSA	*105*		*14 - 163*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C4 PFBA	*120*		*28 - 153*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C5 PFPeA	*109*		*24 - 161*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d9-N-EtFOSE-M	*120*		*10 - 185*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
d5-NEtPFOSA	*108*		*10 - 180*	*03/07/23 18:02*	*03/16/23 03:56*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/07/23 18:02*	*03/16/23 03:56*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.59	1.90	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Arsenic	**2.03**	**J**	3.35	1.57	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Barium	**26.3**		0.559	0.168	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Beryllium	**0.238**	**J**	0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Cadmium	ND		0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Chromium	**3.92**		1.68	0.391	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Lead	**3.02**		1.68	0.671	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Nickel	**1.83**		1.12	0.291	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Selenium	ND		5.59	1.68	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Silver	ND	^3+	1.12	0.447	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Thallium	ND		3.35	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Vanadium	**5.74**		1.12	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1
Zinc	**8.66**		2.24	0.894	mg/Kg	☼	03/07/23 19:52	03/09/23 06:36	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0650	0.0217	mg/Kg	☼	03/08/23 00:46	03/09/23 08:14	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0204' **Lab Sample ID: 620-10117-20**
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	85.2		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0406'
Date Collected: 03/03/23 10:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-21
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00444	0.00290	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Acetone	**0.0218**	**J B *3**	0.0444	0.00995	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Acrylonitrile	ND	*3	0.00444	0.00266	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Benzene	ND	*3	0.00444	0.00297	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromobenzene	ND	*3	0.00444	0.00296	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromochloromethane	ND	*3	0.00444	0.00252	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromodichloromethane	ND	*3	0.00444	0.00326	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromoform	ND	*3	0.00444	0.00339	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Bromomethane	ND	*3	0.00888	0.00553	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2-Butanone (MEK)	ND	*3	0.00888	0.00354	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
n-Butylbenzene	ND	*3	0.00888	0.00476	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
sec-Butylbenzene	ND	*3	0.00444	0.00358	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
tert-Butylbenzene	ND	*3	0.00444	0.00350	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Carbon disulfide	ND	*3	0.00888	0.00312	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Carbon tetrachloride	ND	*3	0.00444	0.00280	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chlorobenzene	ND	*3	0.00444	0.00325	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chloroethane	ND	*3	0.00888	0.00326	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chloroform	ND	*3	0.00444	0.00298	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Chloromethane	ND	*3	0.00888	0.00341	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2-Chlorotoluene	ND	*3	0.00444	0.00354	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
4-Chlorotoluene	ND	*3	0.00444	0.00385	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00888	0.00377	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Dibromochloromethane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dibromoethane (EDB)	ND	*3	0.00444	0.00319	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Dibromomethane	ND	*3	0.00444	0.00261	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dichlorobenzene	ND	*3	0.00444	0.00412	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3-Dichlorobenzene	ND	*3	0.00444	0.00356	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,4-Dichlorobenzene	ND	*3	0.00444	0.00421	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00888	0.00238	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1-Dichloroethane	ND	*3	0.00444	0.00301	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dichloroethane	ND	*3	0.00444	0.00299	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1-Dichloroethene	ND	*3	0.00444	0.00272	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
cis-1,2-Dichloroethene	ND	*3	0.00444	0.00257	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
trans-1,2-Dichloroethene	ND	*3	0.00444	0.00276	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2-Dichloropropane	ND	*3	0.00444	0.00294	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3-Dichloropropane	ND	*3	0.00444	0.00339	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2,2-Dichloropropane	ND	*3	0.00444	0.00306	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1-Dichloropropene	ND	*3	0.00444	0.00302	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
cis-1,3-Dichloropropene	ND	*3	0.00444	0.00290	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
trans-1,3-Dichloropropene	ND	*3	0.00444	0.00338	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethylbenzene	ND	*3	0.00444	0.00317	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Hexachlorobutadiene	ND	*3	0.00888	0.00447	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
2-Hexanone (MBK)	ND	*3	0.00888	0.00261	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Isopropylbenzene	ND	*3	0.00444	0.00336	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
4-Isopropyltoluene	ND	*3	0.00444	0.00436	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Methyl tert-butyl ether	ND	*3	0.00444	0.00256	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00888	0.00287	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Methylene Chloride	ND	*3	0.00888	0.00238	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Naphthalene	ND	*3	0.00444	0.00401	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00444	0.00376	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Styrene	ND	*3	0.00444	0.00344	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00444	0.00333	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00444	0.00407	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Tetrachloroethene	ND	*3	0.00444	0.00247	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Toluene	ND	*3	0.00444	0.00282	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,3-Trichlorobenzene	ND	*3	0.00444	0.00375	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,4-Trichlorobenzene	ND	*3	0.00444	0.00409	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3,5-Trichlorobenzene	ND	*3	0.00444	0.00422	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,1-Trichloroethane	ND	*3	0.00444	0.00303	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,1,2-Trichloroethane	ND	*3	0.00444	0.00335	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Trichloroethene	ND	*3	0.00444	0.00298	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00444	0.00339	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,3-Trichloropropane	ND	*3	0.00444	0.00394	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,2,4-Trimethylbenzene	ND	*3	0.00444	0.00376	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3,5-Trimethylbenzene	ND	*3	0.00444	0.00378	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Vinyl chloride	ND	*3	0.00444	0.00271	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
m,p-Xylene	ND	*3	0.00444	0.00607	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
o-Xylene	ND	*3	0.00444	0.00324	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Tetrahydrofuran	ND	*3	0.00888	0.00225	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethyl ether	ND	*3	0.00444	0.00234	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Tert-amyl methyl ether	ND	*3	0.00444	0.00351	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethyl tert-butyl ether	ND	*3	0.00444	0.00292	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
di-Isopropyl ether	ND	*3	0.00444	0.00317	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
tert-Butanol	ND	*3	0.0888	0.0238	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,4-Dioxane	ND	*3	0.0888	0.0276	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0222	0.00328	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Ethanol	ND	*3	0.888	0.0551	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
1,3-Dichloropropene, Total	ND		0.00444	0.00338	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1
Xylenes, Total	ND		0.0133	0.00444	mg/Kg	☼	03/08/23 10:32	03/09/23 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*	*3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*
Toluene-d8 (Surr)	*102*	*3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*131*	*S1+ *3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*
Dibromofluoromethane (Surr)	*133*	*S1+ *3*	*70 - 130*	*03/08/23 10:32*	*03/09/23 00:12*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00450	0.00294	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Acetone	**0.0196**	**J *3 B**	0.0450	0.0101	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Acrylonitrile	ND	*3	0.00450	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Benzene	ND	*3	0.00450	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromobenzene	ND	*3	0.00450	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromochloromethane	ND	*3	0.00450	0.00256	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromodichloromethane	ND	*3	0.00450	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromoform	ND	*3	0.00450	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Bromomethane	ND	*3 *+	0.00901	0.00561	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2-Butanone (MEK)	ND	*3	0.00901	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0406'
Date Collected: 03/03/23 10:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-21
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00901	0.00483	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
sec-Butylbenzene	ND	*3	0.00450	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
tert-Butylbenzene	ND	*3	0.00450	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Carbon disulfide	ND	*3	0.00901	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Carbon tetrachloride	ND	*3	0.00450	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chlorobenzene	ND	*3	0.00450	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chloroethane	ND	*3	0.00901	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chloroform	ND	*3	0.00450	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Chloromethane	ND	*3	0.00901	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2-Chlorotoluene	ND	*3	0.00450	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
4-Chlorotoluene	ND	*3	0.00450	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00901	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Dibromochloromethane	ND	*3	0.00450	0.00298	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dibromoethane (EDB)	ND	*3	0.00450	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Dibromomethane	ND	*3	0.00450	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dichlorobenzene	ND	*3	0.00450	0.00418	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3-Dichlorobenzene	ND	*3	0.00450	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,4-Dichlorobenzene	ND	*3	0.00450	0.00427	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00901	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1-Dichloroethane	ND	*3	0.00450	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dichloroethane	ND	*3	0.00450	0.00304	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1-Dichloroethene	ND	*3	0.00450	0.00276	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
cis-1,2-Dichloroethene	ND	*3	0.00450	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
trans-1,2-Dichloroethene	ND	*3	0.00450	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2-Dichloropropane	ND	*3	0.00450	0.00298	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3-Dichloropropane	ND	*3	0.00450	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2,2-Dichloropropane	ND	*3	0.00450	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1-Dichloropropene	ND	*3	0.00450	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
cis-1,3-Dichloropropene	ND	*3	0.00450	0.00294	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
trans-1,3-Dichloropropene	ND	*3	0.00450	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethylbenzene	ND	*3	0.00450	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Hexachlorobutadiene	ND	*3	0.00901	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
2-Hexanone (MBK)	ND	*3	0.00901	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Isopropylbenzene	ND	*3	0.00450	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
4-Isopropyltoluene	ND	*3	0.00450	0.00442	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Methyl tert-butyl ether	ND	*3	0.00450	0.00259	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00901	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Methylene Chloride	**0.00260**	**J *3 B**	0.00901	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Naphthalene	ND	*3	0.00450	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
N-Propylbenzene	ND	*3	0.00450	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Styrene	ND	*3	0.00450	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00450	0.00338	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00450	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Tetrachloroethene	ND	*3	0.00450	0.00250	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Toluene	ND	*3	0.00450	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,3-Trichlorobenzene	ND	*3	0.00450	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,4-Trichlorobenzene	ND	*3	0.00450	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3,5-Trichlorobenzene	ND	*3	0.00450	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,1,1-Trichloroethane	ND	*3	0.00450	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00450	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Trichloroethene	ND	*3	0.00450	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00450	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,3-Trichloropropane	ND	*3	0.00450	0.00400	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,2,4-Trimethylbenzene	ND	*3	0.00450	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3,5-Trimethylbenzene	ND	*3	0.00450	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Vinyl chloride	ND	*3	0.00450	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
m,p-Xylene	ND	*3	0.00450	0.00615	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
o-Xylene	ND	*3	0.00450	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Tetrahydrofuran	ND	*3	0.00901	0.00228	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethyl ether	ND	*3	0.00450	0.00237	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Tert-amyl methyl ether	ND	*3	0.00450	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethyl tert-butyl ether	ND	*3	0.00450	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
di-Isopropyl ether	ND	*3	0.00450	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
tert-Butanol	ND	*3	0.0901	0.0241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,4-Dioxane	ND	*3	0.0901	0.0280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0225	0.00332	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Ethanol	ND	*3	0.901	0.0559	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
1,3-Dichloropropene, Total	ND		0.00450	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1
Xylenes, Total	ND		0.0135	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*
Toluene-d8 (Surr)	*105*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*
Dibromofluoromethane (Surr)	*125*	*3	*70 - 130*	*03/10/23 09:34*	*03/10/23 17:07*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,2,4-Trichlorobenzene	ND		0.364	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,2-Dichlorobenzene	ND		0.364	0.0702	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,3-Dichlorobenzene	ND		0.364	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
1-Methylnaphthalene	ND		0.0736	0.0618	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dichlorophenol	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dinitrophenol	ND		0.364	0.0958	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Chloronaphthalene	ND		0.364	0.0842	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Chlorophenol	ND		0.184	0.0754	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Methylnaphthalene	ND		0.0736	0.0544	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Methylphenol	ND		0.364	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Nitroaniline	ND		0.364	0.0346	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
3 & 4 Methylphenol	ND		0.364	0.0690	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.364	0.0325	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Bromophenyl phenyl ether	ND		0.364	0.0412	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Chloro-3-methylphenol	ND		0.364	0.0713	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0389	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Nitroaniline	ND		0.184	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Acenaphthene	ND		0.0736	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Acenaphthylene	ND		0.0736	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Anthracene	ND		0.0736	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzidine	ND		0.728	0.108	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[a]anthracene	ND		0.0736	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[a]pyrene	ND		0.0736	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[b]fluoranthene	ND		0.0736	0.0610	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[g,h,i]perylene	ND		0.0736	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzo[k]fluoranthene	ND		0.0736	0.0573	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzoic acid	ND		0.364	0.250	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Benzyl alcohol	ND		0.364	0.0660	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Bis(2-chloroethyl)ether	ND		0.184	0.0602	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0820	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Bis(2-ethylhexyl) phthalate	**11.3**		1.84	0.469	mg/Kg	☼	03/14/23 10:48	03/17/23 18:05	10
Butyl benzyl phthalate	**2.73**		0.364	0.0365	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Chrysene	ND		0.0736	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Dibenz(a,h)anthracene	ND		0.0736	0.0562	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Dibenzofuran	ND		0.184	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Dimethyl phthalate	ND		0.364	0.0474	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Di-n-butyl phthalate	**0.356**	**J**	0.364	0.0389	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Fluoranthene	ND		0.0736	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Fluorene	ND		0.0736	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachlorobenzene	ND		0.184	0.0511	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachlorobutadiene	ND		0.184	0.0919	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachlorocyclopentadiene	ND		0.184	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Hexachloroethane	ND		0.184	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0736	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Naphthalene	ND		0.0736	0.0706	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Nitrobenzene	ND		0.184	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
N-Nitrosodiphenylamine	ND		0.364	0.0465	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Pentachloronitrobenzene	ND		0.364	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1

Client Sample ID: 2023-SB-07-0406' **Lab Sample ID: 620-10117-21**
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Phenanthrene	ND		0.0736	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Pyrene	ND		0.0736	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1
Pyridine	ND		0.364	0.0862	mg/Kg	☼	03/14/23 10:48	03/16/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
2-Fluorobiphenyl (Surr)	*55*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
2-Fluorophenol (Surr)	*60*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:05*	*10*
Terphenyl-d14	*79*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:06*	*1*
Terphenyl-d14	*48*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:05*	*10*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.228	0.117	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.228	0.0977	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Ethylbenzene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Methyl tert-butyl ether	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
m,p-Xylene	ND		0.0913	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Naphthalene	**0.0349**	**J B**	0.0457	0.0311	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
o-Xylene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
Toluene	ND		0.0457	0.00913	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
C5-C8 Aliphatics (unadjusted)	ND		0.228	0.117	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
C9-C10 Aromatics	ND		0.228	0.0320	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1
C9-C12 Aliphatics (unadjusted)	ND		0.228	0.0977	mg/Kg	☼	03/08/23 06:56	03/08/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 15:27*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 15:27*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.468	0.337	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1221	ND		0.468	0.138	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1232	ND		0.468	0.130	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1242	ND		0.468	0.0740	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1248	ND		0.468	0.146	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1254	**16.2**		0.468	0.364	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1262	ND		0.468	0.109	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0406'
Date Collected: 03/03/23 10:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-21
Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.468	0.101	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20
PCB-1268	ND		0.468	0.0997	mg/Kg	☼	03/09/23 15:27	03/13/23 15:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:07*	*20*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:07*	*1*

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21

Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	120		15 - 200	03/07/23 18:02	03/16/23 04:07	1
M2-6:2 FTS	120		10 - 200	03/07/23 18:02	03/16/23 04:07	1
13C5 PFHxA	120		10 - 174	03/07/23 18:02	03/16/23 04:07	1
13C4 PFHpA	127		10 - 178	03/07/23 18:02	03/16/23 04:07	1
13C8 PFOA	127		26 - 159	03/07/23 18:02	03/16/23 04:07	1
13C9 PFNA	128		26 - 165	03/07/23 18:02	03/16/23 04:07	1
13C6 PFDA	121		26 - 161	03/07/23 18:02	03/16/23 04:07	1
13C7 PFUnA	148		12 - 173	03/07/23 18:02	03/16/23 04:07	1
13C2-PFDoDA	126		11 - 166	03/07/23 18:02	03/16/23 04:07	1
13C2 PFTeDA	157		10 - 169	03/07/23 18:02	03/16/23 04:07	1
13C3 PFBS	135		27 - 179	03/07/23 18:02	03/16/23 04:07	1
13C3 PFHxS	123		24 - 171	03/07/23 18:02	03/16/23 04:07	1
13C8 PFOS	130		41 - 154	03/07/23 18:02	03/16/23 04:07	1
d3-NMeFOSAA	102		10 - 178	03/07/23 18:02	03/16/23 04:07	1
d5-NEtFOSAA	115		10 - 193	03/07/23 18:02	03/16/23 04:07	1
13C8 FOSA	114		14 - 163	03/07/23 18:02	03/16/23 04:07	1
13C4 PFBA	131		28 - 153	03/07/23 18:02	03/16/23 04:07	1
13C5 PFPeA	116		24 - 161	03/07/23 18:02	03/16/23 04:07	1
d7-N-MeFOSE-M	125		10 - 179	03/07/23 18:02	03/16/23 04:07	1
d3-NMePFOSA	106		10 - 175	03/07/23 18:02	03/16/23 04:07	1
d9-N-EtFOSE-M	135		10 - 185	03/07/23 18:02	03/16/23 04:07	1
d5-NEtPFOSA	114		10 - 180	03/07/23 18:02	03/16/23 04:07	1
13C3 HFPO-DA	112		10 - 169	03/07/23 18:02	03/16/23 04:07	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.49	1.87	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Arsenic	**2.89**	**J**	3.29	1.54	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Barium	**31.4**		0.549	0.165	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Beryllium	**0.290**	**J**	0.549	0.110	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Cadmium	ND		0.549	0.110	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Chromium	**9.44**		1.65	0.384	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Lead	**4.51**		1.65	0.659	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Nickel	**4.47**		1.10	0.285	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Selenium	ND		5.49	1.65	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Silver	ND	^3+	1.10	0.439	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Thallium	ND		3.29	1.43	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Vanadium	**9.11**		1.10	0.472	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1
Zinc	**19.4**		2.20	0.878	mg/Kg	☼	03/07/23 19:52	03/09/23 06:33	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0682	0.0227	mg/Kg	☼	03/08/23 00:46	03/09/23 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.9**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**85.1**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00525	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Acetone	ND		0.0525	0.0118	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Acrylonitrile	ND		0.00525	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Benzene	ND		0.00525	0.00351	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromobenzene	ND		0.00525	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromochloromethane	ND		0.00525	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromodichloromethane	ND		0.00525	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromoform	ND		0.00525	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Bromomethane	ND		0.0105	0.00654	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2-Butanone (MEK)	ND		0.0105	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
n-Butylbenzene	ND		0.0105	0.00563	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
sec-Butylbenzene	ND		0.00525	0.00423	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
tert-Butylbenzene	ND		0.00525	0.00414	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Carbon disulfide	ND		0.0105	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Carbon tetrachloride	ND		0.00525	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chlorobenzene	ND		0.00525	0.00384	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chloroethane	ND		0.0105	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chloroform	ND		0.00525	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Chloromethane	ND		0.0105	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2-Chlorotoluene	ND		0.00525	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
4-Chlorotoluene	ND		0.00525	0.00456	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00445	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Dibromochloromethane	ND		0.00525	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dibromoethane (EDB)	ND		0.00525	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Dibromomethane	ND		0.00525	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dichlorobenzene	ND		0.00525	0.00487	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3-Dichlorobenzene	ND		0.00525	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,4-Dichlorobenzene	ND		0.00525	0.00498	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0105	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1-Dichloroethane	ND		0.00525	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dichloroethane	ND		0.00525	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1-Dichloroethene	ND		0.00525	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
cis-1,2-Dichloroethene	ND		0.00525	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
trans-1,2-Dichloroethene	ND		0.00525	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2-Dichloropropane	ND		0.00525	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3-Dichloropropane	ND		0.00525	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2,2-Dichloropropane	ND		0.00525	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1-Dichloropropene	ND		0.00525	0.00357	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
cis-1,3-Dichloropropene	ND		0.00525	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
trans-1,3-Dichloropropene	ND		0.00525	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethylbenzene	ND		0.00525	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Hexachlorobutadiene	ND		0.0105	0.00528	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
2-Hexanone (MBK)	ND		0.0105	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Isopropylbenzene	ND		0.00525	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
4-Isopropyltoluene	ND		0.00525	0.00516	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Methyl tert-butyl ether	ND		0.00525	0.00302	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00339	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Methylene Chloride	ND		0.0105	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Naphthalene	ND		0.00525	0.00475	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0608'
Date Collected: 03/03/23 10:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-22
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Styrene	ND		0.00525	0.00406	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,1,2-Tetrachloroethane	ND		0.00525	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,2,2-Tetrachloroethane	ND		0.00525	0.00481	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Tetrachloroethene	ND		0.00525	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Toluene	ND		0.00525	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,3-Trichlorobenzene	ND		0.00525	0.00443	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,4-Trichlorobenzene	ND		0.00525	0.00484	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3,5-Trichlorobenzene	ND		0.00525	0.00499	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,1-Trichloroethane	ND		0.00525	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,1,2-Trichloroethane	ND		0.00525	0.00396	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Trichloroethene	ND		0.00525	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Trichlorofluoromethane (Freon 11)	ND		0.00525	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,3-Trichloropropane	ND		0.00525	0.00466	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,2,4-Trimethylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3,5-Trimethylbenzene	ND		0.00525	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Vinyl chloride	ND		0.00525	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
m,p-Xylene	ND		0.00525	0.00717	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
o-Xylene	ND		0.00525	0.00383	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Tetrahydrofuran	ND		0.0105	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethyl ether	ND		0.00525	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Tert-amyl methyl ether	ND		0.00525	0.00415	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethyl tert-butyl ether	ND		0.00525	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
di-Isopropyl ether	ND		0.00525	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
tert-Butanol	ND		0.105	0.0281	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,4-Dioxane	ND		0.105	0.0327	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
trans-1,4-Dichloro-2-butene	ND		0.0263	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Ethanol	ND		1.05	0.0651	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
1,3-Dichloropropene, Total	ND		0.00525	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1
Xylenes, Total	ND		0.0158	0.00525	mg/Kg	☼	03/09/23 13:37	03/09/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:33*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,2,4-Trichlorobenzene	ND		0.364	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,2-Dichlorobenzene	ND		0.364	0.0702	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,3-Dichlorobenzene	ND		0.364	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
1-Methylnaphthalene	ND		0.0736	0.0618	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4-Dichlorophenol	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,4-Dinitrophenol	ND		0.364	0.0958	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0608'
Date Collected: 03/03/23 10:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-22
Matrix: Solid
Percent Solids: 86.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Chloronaphthalene	ND		0.364	0.0842	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Chlorophenol	ND		0.184	0.0754	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Methylnaphthalene	ND		0.0736	0.0544	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Methylphenol	ND		0.364	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Nitroaniline	ND		0.364	0.0347	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
3 & 4 Methylphenol	ND		0.364	0.0690	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
3-Nitroaniline	ND		0.364	0.0326	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Bromophenyl phenyl ether	ND		0.364	0.0412	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Chloro-3-methylphenol	ND		0.364	0.0713	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0390	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Nitroaniline	ND		0.184	0.0582	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Acenaphthene	ND		0.0736	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Acenaphthylene	ND		0.0736	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Anthracene	ND		0.0736	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzidine	ND		0.728	0.108	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[a]anthracene	ND		0.0736	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[a]pyrene	ND		0.0736	0.0526	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[b]fluoranthene	ND		0.0736	0.0610	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[g,h,i]perylene	ND		0.0736	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzo[k]fluoranthene	ND		0.0736	0.0573	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzoic acid	ND		0.364	0.251	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Benzyl alcohol	ND		0.364	0.0660	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Bis(2-chloroethyl)ether	ND		0.184	0.0603	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0820	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Bis(2-ethylhexyl) phthalate	**0.321**		0.184	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Butyl benzyl phthalate	**0.285**	**J**	0.364	0.0365	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Chrysene	ND		0.0736	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Dibenz(a,h)anthracene	ND		0.0736	0.0562	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Dibenzofuran	ND		0.184	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Dimethyl phthalate	ND		0.364	0.0475	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Di-n-butyl phthalate	ND		0.364	0.0390	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Fluoranthene	ND		0.0736	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Fluorene	ND		0.0736	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Hexachlorobenzene	ND		0.184	0.0511	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Hexachlorobutadiene	ND		0.184	0.0919	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.184	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Hexachloroethane	ND		0.184	0.0724	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0736	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Naphthalene	ND		0.0736	0.0706	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Nitrobenzene	ND		0.184	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
N-Nitrosodiphenylamine	ND		0.364	0.0465	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pentachloronitrobenzene	ND		0.364	0.0575	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Phenanthrene	ND		0.0736	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pyrene	ND		0.0736	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1
Pyridine	ND		0.364	0.0862	mg/Kg	☼	03/14/23 10:48	03/16/23 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
Phenol-d5 (Surr)	*94*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:15*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:15*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.232	0.119	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.232	0.0994	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Ethylbenzene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Methyl tert-butyl ether	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
m,p-Xylene	ND		0.0929	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Naphthalene	ND		0.0464	0.0316	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
o-Xylene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
Toluene	ND		0.0464	0.00929	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
C5-C8 Aliphatics (unadjusted)	ND		0.232	0.119	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
C9-C10 Aromatics	ND		0.232	0.0325	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1
C9-C12 Aliphatics (unadjusted)	ND		0.232	0.0994	mg/Kg	☼	03/08/23 06:56	03/08/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:06*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:06*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0460	0.0331	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1221	ND		0.0460	0.0136	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1232	ND		0.0460	0.0127	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0460	0.00726	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1248	ND		0.0460	0.0144	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1254	**1.11**		0.0460	0.0358	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1262	ND		0.0460	0.0107	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1260	ND		0.0460	0.00988	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2
PCB-1268	ND		0.0460	0.00979	mg/Kg	☼	03/09/23 15:27	03/13/23 15:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*
Tetrachloro-m-xylene	*44*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*
DCB Decachlorobiphenyl (Surr)	*43*		*30 - 150*	*03/09/23 15:27*	*03/13/23 15:24*	*2*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0608' **Lab Sample ID: 620-10117-22**
Date Collected: 03/03/23 10:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 18:02	03/16/23 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
M2-8:2 FTS	*111*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
M2-6:2 FTS	*119*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C5 PFHxA	*123*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C9 PFNA	*129*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C6 PFDA	*121*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C2-PFDoDA	*122*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C2 PFTeDA	*155*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C3 PFBS	*126*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C8 PFOS	*126*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d3-NMeFOSAA	*105*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d5-NEtFOSAA	*111*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C4 PFBA	*127*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C5 PFPeA	*114*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d3-NMePFOSA	*102*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d9-N-EtFOSE-M	*125*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
d5-NEtPFOSA	*112*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:19*	*1*
13C3 HFPO-DA	*103*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:19*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.01	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Arsenic	**1.86**	**J**	2.40	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Barium	**30.1**		0.401	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Beryllium	**0.265**	**J**	0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Cadmium	ND		0.401	0.0802	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Chromium	**11.4**		1.20	0.281	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Lead	**3.25**		1.20	0.481	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Nickel	**3.43**		0.802	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Selenium	ND		4.01	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Silver	ND	^3+	0.802	0.321	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Vanadium	**8.57**		0.802	0.345	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1
Zinc	**12.2**		1.60	0.641	mg/Kg	☼	03/07/23 19:52	03/09/23 06:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0664	0.0221	mg/Kg	☼	03/08/23 00:46	03/09/23 07:52	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0608'
Date Collected: 03/03/23 10:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-22
Matrix: Solid
Percent Solids: 86.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	86.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00493	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Acetone	ND		0.0493	0.0110	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Acrylonitrile	ND		0.00493	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Benzene	ND		0.00493	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromobenzene	ND		0.00493	0.00328	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromochloromethane	ND		0.00493	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromodichloromethane	ND		0.00493	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromoform	ND		0.00493	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Bromomethane	ND		0.00986	0.00614	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2-Butanone (MEK)	ND		0.00986	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
n-Butylbenzene	ND		0.00986	0.00528	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
sec-Butylbenzene	ND		0.00493	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
tert-Butylbenzene	ND		0.00493	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Carbon disulfide	ND		0.00986	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Carbon tetrachloride	ND		0.00493	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chlorobenzene	ND		0.00493	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chloroethane	ND		0.00986	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chloroform	ND		0.00493	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Chloromethane	ND		0.00986	0.00379	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2-Chlorotoluene	ND		0.00493	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
4-Chlorotoluene	ND		0.00493	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dibromo-3-Chloropropane	ND		0.00986	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Dibromochloromethane	ND		0.00493	0.00326	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dibromoethane (EDB)	ND		0.00493	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Dibromomethane	ND		0.00493	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dichlorobenzene	ND		0.00493	0.00457	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3-Dichlorobenzene	ND		0.00493	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,4-Dichlorobenzene	ND		0.00493	0.00467	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00986	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1-Dichloroethane	ND		0.00493	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dichloroethane	ND		0.00493	0.00332	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1-Dichloroethene	ND		0.00493	0.00302	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
cis-1,2-Dichloroethene	ND		0.00493	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
trans-1,2-Dichloroethene	ND		0.00493	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2-Dichloropropane	ND		0.00493	0.00326	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3-Dichloropropane	ND		0.00493	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2,2-Dichloropropane	ND		0.00493	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1-Dichloropropene	ND		0.00493	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
cis-1,3-Dichloropropene	ND		0.00493	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
trans-1,3-Dichloropropene	ND		0.00493	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethylbenzene	ND		0.00493	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Hexachlorobutadiene	ND		0.00986	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
2-Hexanone (MBK)	ND		0.00986	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Isopropylbenzene	ND		0.00493	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
4-Isopropyltoluene	ND		0.00493	0.00484	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Methyl tert-butyl ether	ND		0.00493	0.00284	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.00986	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Methylene Chloride	ND		0.00986	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Naphthalene	ND		0.00493	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1

Client Sample ID: 2023-SB-07-0810' **Lab Sample ID: 620-10117-23**
Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 83.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Styrene	ND		0.00493	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,1,2-Tetrachloroethane	ND		0.00493	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,2,2-Tetrachloroethane	ND		0.00493	0.00452	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Tetrachloroethene	ND		0.00493	0.00274	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Toluene	ND		0.00493	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,3-Trichlorobenzene	ND		0.00493	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,4-Trichlorobenzene	ND		0.00493	0.00454	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3,5-Trichlorobenzene	ND		0.00493	0.00468	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,1-Trichloroethane	ND		0.00493	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,1,2-Trichloroethane	ND		0.00493	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Trichloroethene	ND		0.00493	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Trichlorofluoromethane (Freon 11)	ND		0.00493	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,3-Trichloropropane	ND		0.00493	0.00438	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,2,4-Trimethylbenzene	ND		0.00493	0.00417	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3,5-Trimethylbenzene	ND		0.00493	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Vinyl chloride	ND		0.00493	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
m,p-Xylene	ND		0.00493	0.00673	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
o-Xylene	ND		0.00493	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Tetrahydrofuran	ND		0.00986	0.00249	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethyl ether	ND		0.00493	0.00259	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Tert-amyl methyl ether	ND		0.00493	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethyl tert-butyl ether	ND		0.00493	0.00324	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
di-Isopropyl ether	ND		0.00493	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
tert-Butanol	ND		0.0986	0.0264	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,4-Dioxane	ND		0.0986	0.0307	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
trans-1,4-Dichloro-2-butene	ND		0.0246	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Ethanol	ND		0.986	0.0611	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
1,3-Dichloropropene, Total	ND		0.00493	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1
Xylenes, Total	ND		0.0148	0.00493	mg/Kg	☼	03/09/23 13:37	03/09/23 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 16:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.378	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,2,4-Trichlorobenzene	ND		0.378	0.0867	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,2-Dichlorobenzene	ND		0.378	0.0729	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,3-Dichlorobenzene	ND		0.378	0.0916	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1,4-Dichlorobenzene	ND		0.378	0.0891	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
1-Methylnaphthalene	ND		0.0765	0.0642	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4,5-Trichlorophenol	ND		0.378	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4,6-Trichlorophenol	ND		0.191	0.0468	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4-Dichlorophenol	ND		0.191	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4-Dimethylphenol	ND		0.378	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,4-Dinitrophenol	ND		0.378	0.0995	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2,6-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Chloronaphthalene	ND		0.378	0.0875	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Chlorophenol	ND		0.191	0.0783	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Methylnaphthalene	ND		0.0765	0.0565	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Methylphenol	ND		0.378	0.0553	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Nitroaniline	ND		0.378	0.0360	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
2-Nitrophenol	ND		0.191	0.0680	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
3 & 4 Methylphenol	ND		0.378	0.0717	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
3,3'-Dichlorobenzidine	ND		0.378	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
3-Nitroaniline	ND		0.378	0.0338	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4,6-Dinitro-2-methylphenol	ND		0.378	0.0680	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Bromophenyl phenyl ether	ND		0.378	0.0428	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Chloro-3-methylphenol	ND		0.378	0.0741	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Chloroaniline	ND		0.191	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Chlorophenyl phenyl ether	ND		0.378	0.0405	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Nitroaniline	ND		0.191	0.0604	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
4-Nitrophenol	ND		0.378	0.132	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Acenaphthene	ND		0.0765	0.0610	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Acenaphthylene	ND		0.0765	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Acetophenone	ND		0.191	0.0467	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Aniline	ND		0.378	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Anthracene	ND		0.0765	0.0443	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Azobenzene/Diphenyldiazene	ND		0.378	0.0646	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzidine	ND		0.757	0.112	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[a]anthracene	ND		0.0765	0.0430	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[a]pyrene	ND		0.0765	0.0547	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[b]fluoranthene	ND		0.0765	0.0634	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[g,h,i]perylene	ND		0.0765	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzo[k]fluoranthene	ND		0.0765	0.0595	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzoic acid	ND		0.378	0.260	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Benzyl alcohol	ND		0.378	0.0686	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Bis(2-chloroethoxy)methane	ND		0.378	0.0658	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Bis(2-chloroethyl)ether	ND		0.191	0.0626	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0852	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Bis(2-ethylhexyl) phthalate	ND		0.191	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Butyl benzyl phthalate	ND		0.378	0.0380	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Carbazole	ND		0.191	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Chrysene	ND		0.0765	0.0432	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Dibenz(a,h)anthracene	ND		0.0765	0.0584	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Dibenzofuran	ND		0.191	0.0663	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Diethyl phthalate	ND		0.378	0.0415	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Dimethyl phthalate	ND		0.378	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Di-n-butyl phthalate	ND		0.378	0.0405	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Di-n-octyl phthalate	ND		0.378	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Fluoranthene	ND		0.0765	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Fluorene	ND		0.0765	0.0698	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Hexachlorobenzene	ND		0.191	0.0531	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Hexachlorobutadiene	ND		0.191	0.0955	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1

Client Sample ID: 2023-SB-07-0810' **Lab Sample ID: 620-10117-23**
Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 83.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.191	0.0732	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Hexachloroethane	ND		0.191	0.0752	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0765	0.0649	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Isophorone	ND		0.191	0.0524	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Naphthalene	ND		0.0765	0.0734	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Nitrobenzene	ND		0.191	0.0884	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
N-Nitrosodimethylamine	ND		0.191	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
N-Nitrosodiphenylamine	ND		0.378	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pentachloronitrobenzene	ND		0.378	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pentachlorophenol	ND		0.378	0.155	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Phenanthrene	ND		0.0765	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Phenol	ND		0.378	0.0780	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pyrene	ND		0.0765	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1
Pyridine	ND		0.378	0.0896	mg/Kg	☼	03/14/23 10:48	03/16/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
Nitrobenzene-d5 (Surr)	*94*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
Phenol-d5 (Surr)	*93*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/14/23 10:48*	*03/16/23 12:44*	*1*
Terphenyl-d14	*98*		*30 - 130*	*03/14/23 10:48*	*03/16/23 12:44*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.304	0.156	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.304	0.130	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Ethylbenzene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Methyl tert-butyl ether	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
m,p-Xylene	ND		0.122	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Naphthalene	ND		0.0609	0.0414	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
o-Xylene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
Toluene	ND		0.0609	0.0122	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
C5-C8 Aliphatics (unadjusted)	ND		0.304	0.156	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
C9-C10 Aromatics	ND		0.304	0.0426	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1
C9-C12 Aliphatics (unadjusted)	ND		0.304	0.130	mg/Kg	☼	03/08/23 06:56	03/08/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:45*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/08/23 06:56*	*03/08/23 16:45*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0237	0.0171	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1221	ND		0.0237	0.00700	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1232	ND		0.0237	0.00656	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0237	0.00374	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1248	ND		0.0237	0.00740	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1254	**0.0253**		0.0237	0.0184	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1262	ND		0.0237	0.00552	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1260	ND		0.0237	0.00509	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1
PCB-1268	ND		0.0237	0.00504	mg/Kg	☼	03/09/23 15:27	03/11/23 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:02*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoroheptanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorononanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorodecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorotridecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorotetradecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorobutanesulfonic acid	ND		2.30	0.460	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorohexanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NEtFOSAA	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NMeFOSAA	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
10:2 FTS	ND		2.30	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoropentanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoroheptanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorononanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorodecanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctanesulfonamide	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorohexadecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorooctadecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorobutanoic acid	ND		2.30	0.920	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoropentanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NMeFOSE	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NMeFOSA	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NEtFOSE	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
NEtFOSA	ND		2.30	0.575	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
HFPODA	ND		2.30	1.15	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
DONA	ND		3.45	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
9Cl-PF3ONS	ND		2.30	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
11Cl-PF3OUdS	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluorododecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.30	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
Perfluoroundecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.30	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.45	0.690	ug/Kg	☼	03/07/23 18:02	03/16/23 04:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
M2-8:2 FTS	*107*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
M2-6:2 FTS	*123*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C5 PFHxA	*127*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C4 PFHpA	*126*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C8 PFOA	*131*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C9 PFNA	*127*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C2-PFDoDA	*128*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C2 PFTeDA	*158*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C3 PFBS	*129*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C3 PFHxS	*123*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C8 PFOS	*128*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d3-NMeFOSAA	*120*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d5-NEtFOSAA	*124*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C8 FOSA	*120*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C4 PFBA	*129*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C5 PFPeA	*120*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d7-N-MeFOSE-M	*124*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d3-NMePFOSA	*114*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d9-N-EtFOSE-M	*135*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
d5-NEtPFOSA	*126*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:30*	*1*
13C3 HFPO-DA	*98*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.59	1.90	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Arsenic	ND		3.35	1.56	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Barium	**20.6**		0.559	0.168	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Beryllium	**0.222**	**J**	0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Cadmium	ND		0.559	0.112	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Chromium	**4.58**		1.68	0.391	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Lead	**2.22**		1.68	0.670	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Nickel	**2.63**		1.12	0.290	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Selenium	ND		5.59	1.68	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Silver	ND	^3+	1.12	0.447	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Thallium	ND		3.35	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Vanadium	**6.87**		1.12	0.480	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1
Zinc	**10.1**		2.23	0.894	mg/Kg	☼	03/07/23 19:52	03/09/23 07:02	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0683	0.0228	mg/Kg	☼	03/08/23 00:50	03/09/23 09:11	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-0810'
Date Collected: 03/03/23 10:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-23
Matrix: Solid
Percent Solids: 83.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	83.6		0.1	0.1	%			03/06/23 11:08	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00440	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Acetone	ND		0.0440	0.00985	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Acrylonitrile	ND		0.00440	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Benzene	ND		0.00440	0.00294	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromobenzene	ND		0.00440	0.00293	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromochloromethane	ND		0.00440	0.00250	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromodichloromethane	ND		0.00440	0.00323	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromoform	ND		0.00440	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Bromomethane	ND		0.00880	0.00548	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2-Butanone (MEK)	ND		0.00880	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
n-Butylbenzene	ND		0.00880	0.00471	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
sec-Butylbenzene	ND		0.00440	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
tert-Butylbenzene	ND		0.00440	0.00347	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Carbon disulfide	ND		0.00880	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Carbon tetrachloride	ND		0.00440	0.00277	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chlorobenzene	ND		0.00440	0.00322	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chloroethane	ND		0.00880	0.00323	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chloroform	ND		0.00440	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Chloromethane	ND		0.00880	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2-Chlorotoluene	ND		0.00440	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
4-Chlorotoluene	ND		0.00440	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dibromo-3-Chloropropane	ND		0.00880	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Dibromochloromethane	ND		0.00440	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dibromoethane (EDB)	ND		0.00440	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Dibromomethane	ND		0.00440	0.00259	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dichlorobenzene	ND		0.00440	0.00408	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3-Dichlorobenzene	ND		0.00440	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,4-Dichlorobenzene	ND		0.00440	0.00417	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00880	0.00236	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1-Dichloroethane	ND		0.00440	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dichloroethane	ND		0.00440	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1-Dichloroethene	ND		0.00440	0.00269	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
cis-1,2-Dichloroethene	ND		0.00440	0.00254	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
trans-1,2-Dichloroethene	ND		0.00440	0.00274	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2-Dichloropropane	ND		0.00440	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3-Dichloropropane	ND		0.00440	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2,2-Dichloropropane	ND		0.00440	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1-Dichloropropene	ND		0.00440	0.00299	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
cis-1,3-Dichloropropene	ND		0.00440	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
trans-1,3-Dichloropropene	ND		0.00440	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethylbenzene	ND		0.00440	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Hexachlorobutadiene	ND		0.00880	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
2-Hexanone (MBK)	ND		0.00880	0.00259	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Isopropylbenzene	ND		0.00440	0.00332	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
4-Isopropyltoluene	ND		0.00440	0.00432	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Methyl tert-butyl ether	ND		0.00440	0.00253	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.00880	0.00284	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Methylene Chloride	ND		0.00880	0.00236	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Naphthalene	ND		0.00440	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00440	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Styrene	ND		0.00440	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,1,2-Tetrachloroethane	ND		0.00440	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.00440	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Tetrachloroethene	ND		0.00440	0.00245	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Toluene	ND		0.00440	0.00279	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,3-Trichlorobenzene	ND		0.00440	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,4-Trichlorobenzene	ND		0.00440	0.00405	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3,5-Trichlorobenzene	ND		0.00440	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,1-Trichloroethane	ND		0.00440	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,1,2-Trichloroethane	ND		0.00440	0.00332	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Trichloroethene	ND		0.00440	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Trichlorofluoromethane (Freon 11)	ND		0.00440	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,3-Trichloropropane	ND		0.00440	0.00391	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,2,4-Trimethylbenzene	ND		0.00440	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3,5-Trimethylbenzene	ND		0.00440	0.00374	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Vinyl chloride	ND		0.00440	0.00268	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
m,p-Xylene	ND		0.00440	0.00601	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
o-Xylene	ND		0.00440	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Tetrahydrofuran	ND		0.00880	0.00223	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethyl ether	ND		0.00440	0.00231	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Tert-amyl methyl ether	ND		0.00440	0.00347	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethyl tert-butyl ether	ND		0.00440	0.00289	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
di-Isopropyl ether	ND		0.00440	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
tert-Butanol	ND		0.0880	0.0236	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,4-Dioxane	ND		0.0880	0.0274	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
trans-1,4-Dichloro-2-butene	ND		0.0220	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Ethanol	ND		0.880	0.0545	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
1,3-Dichloropropene, Total	ND		0.00440	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1
Xylenes, Total	ND		0.0132	0.00440	mg/Kg	☼	03/09/23 13:37	03/09/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.378	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,2,4-Trichlorobenzene	ND		0.378	0.0866	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,2-Dichlorobenzene	ND		0.378	0.0729	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,3-Dichlorobenzene	ND		0.378	0.0915	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1,4-Dichlorobenzene	ND		0.378	0.0890	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
1-Methylnaphthalene	ND		0.0764	0.0642	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4,5-Trichlorophenol	ND		0.378	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4,6-Trichlorophenol	ND		0.191	0.0467	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4-Dichlorophenol	ND		0.191	0.0762	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4-Dimethylphenol	ND		0.378	0.0554	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,4-Dinitrophenol	ND		0.378	0.0994	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-1012'
Date Collected: 03/03/23 10:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-24
Matrix: Solid
Percent Solids: 84.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2,6-Dinitrotoluene	ND		0.191	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Chloronaphthalene	ND		0.378	0.0874	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Chlorophenol	ND		0.191	0.0782	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Methylnaphthalene	ND		0.0764	0.0565	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Methylphenol	ND		0.378	0.0552	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Nitroaniline	ND		0.378	0.0360	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
2-Nitrophenol	ND		0.191	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
3 & 4 Methylphenol	ND		0.378	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
3,3'-Dichlorobenzidine	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
3-Nitroaniline	ND		0.378	0.0338	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4,6-Dinitro-2-methylphenol	ND		0.378	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Bromophenyl phenyl ether	ND		0.378	0.0427	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Chloro-3-methylphenol	ND		0.378	0.0740	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Chloroaniline	ND		0.191	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Chlorophenyl phenyl ether	ND		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Nitroaniline	ND		0.191	0.0604	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
4-Nitrophenol	ND		0.378	0.132	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Acenaphthene	ND		0.0764	0.0609	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Acenaphthylene	ND		0.0764	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Acetophenone	ND		0.191	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Aniline	ND		0.378	0.0290	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Anthracene	ND		0.0764	0.0442	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Azobenzene/Diphenyldiazene	ND		0.378	0.0645	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzidine	ND		0.756	0.112	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[a]anthracene	ND		0.0764	0.0430	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[a]pyrene	ND		0.0764	0.0546	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[b]fluoranthene	ND		0.0764	0.0634	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[g,h,i]perylene	ND		0.0764	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzo[k]fluoranthene	ND		0.0764	0.0595	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzoic acid	ND		0.378	0.260	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Benzyl alcohol	ND		0.378	0.0685	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Bis(2-chloroethoxy)methane	ND		0.378	0.0658	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Bis(2-chloroethyl)ether	ND		0.191	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Bis(2-ethylhexyl) phthalate	ND		0.191	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Butyl benzyl phthalate	ND		0.378	0.0379	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Carbazole	ND		0.191	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Chrysene	ND		0.0764	0.0432	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Dibenz(a,h)anthracene	ND		0.0764	0.0583	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Dibenzofuran	ND		0.191	0.0662	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Diethyl phthalate	ND		0.378	0.0415	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Dimethyl phthalate	ND		0.378	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Di-n-butyl phthalate	ND		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Di-n-octyl phthalate	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Fluoranthene	ND		0.0764	0.0448	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Fluorene	ND		0.0764	0.0698	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Hexachlorobenzene	ND		0.191	0.0530	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Hexachlorobutadiene	ND		0.191	0.0954	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.191	0.0731	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Hexachloroethane	ND		0.191	0.0752	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Indeno[1,2,3-cd]pyrene	ND		0.0764	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Isophorone	ND		0.191	0.0524	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Naphthalene	ND		0.0764	0.0733	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Nitrobenzene	ND		0.191	0.0883	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
N-Nitrosodimethylamine	ND		0.191	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0762	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
N-Nitrosodiphenylamine	ND		0.378	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pentachloronitrobenzene	ND		0.378	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pentachlorophenol	ND		0.378	0.155	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Phenanthrene	ND		0.0764	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Phenol	ND		0.378	0.0779	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pyrene	ND		0.0764	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1
Pyridine	ND		0.378	0.0895	mg/Kg	☼	03/14/23 10:48	03/16/23 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
2-Fluorophenol (Surr)	*110*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:13*	*1*
Terphenyl-d14	*102*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:13*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.321	0.164	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.321	0.137	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Ethylbenzene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Methyl tert-butyl ether	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
m,p-Xylene	ND		0.128	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Naphthalene	ND		0.0641	0.0436	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
o-Xylene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
Toluene	ND		0.0641	0.0128	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
C5-C8 Aliphatics (unadjusted)	ND		0.321	0.164	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
C9-C10 Aromatics	ND		0.321	0.0449	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1
C9-C12 Aliphatics (unadjusted)	ND		0.321	0.137	mg/Kg	☼	03/08/23 06:56	03/08/23 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 17:25*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 17:25*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1232	ND		0.0230	0.00638	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1248	ND		0.0230	0.00720	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1254	**0.0595**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1262	ND		0.0230	0.00537	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	03/09/23 15:27	03/13/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*144*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*
Tetrachloro-m-xylene	*134*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*
DCB Decachlorobiphenyl (Surr)	*142*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*
DCB Decachlorobiphenyl (Surr)	*136*		*30 - 150*	*03/09/23 15:27*	*03/13/23 21:09*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoroheptanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorononanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorodecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorotridecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorotetradecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorobutanesulfonic acid	ND		2.27	0.454	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorohexanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NEtFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NMeFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
10:2 FTS	ND		2.27	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoropentanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoroheptanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorononanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorodecanesulfonic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctanesulfonamide	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorohexadecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorooctadecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorobutanoic acid	ND		2.27	0.907	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoropentanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NMeFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NMeFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NEtFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
NEtFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
HFPODA	ND		2.27	1.13	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
DONA	ND		3.40	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
9Cl-PF3ONS	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
11Cl-PF3OUdS	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluorododecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.27	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
Perfluoroundecanoic acid	ND		0.680	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1

Client Sample ID: 2023-SB-07-1012' **Lab Sample ID: 620-10117-24**
Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.27	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.40	0.680	ug/Kg	☼	03/07/23 18:02	03/16/23 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
M2-8:2 FTS	*117*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
M2-6:2 FTS	*123*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C5 PFHxA	*117*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C4 PFHpA	*116*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C8 PFOA	*125*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C6 PFDA	*126*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C7 PFUnA	*129*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C2-PFDoDA	*127*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C2 PFTeDA	*146*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C3 PFBS	*131*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C8 PFOS	*120*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d3-NMeFOSAA	*114*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d5-NEtFOSAA	*121*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C8 FOSA	*120*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C4 PFBA	*126*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C5 PFPeA	*114*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d3-NMePFOSA	*121*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d9-N-EtFOSE-M	*127*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
d5-NEtPFOSA	*123*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:41*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:41*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.84	1.65	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Arsenic	ND		2.90	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Barium	**19.4**		0.484	0.145	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Beryllium	**0.215**	**J**	0.484	0.0968	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Cadmium	ND		0.484	0.0968	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Chromium	**6.33**		1.45	0.339	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Lead	**2.25**		1.45	0.581	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Nickel	**2.86**		0.968	0.252	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Selenium	ND		4.84	1.45	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Silver	ND	^3+	0.968	0.387	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Thallium	ND		2.90	1.26	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Vanadium	**6.34**		0.968	0.416	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1
Zinc	**9.55**		1.94	0.774	mg/Kg	☼	03/07/23 19:52	03/09/23 07:09	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0659	0.0220	mg/Kg	☼	03/08/23 00:50	03/09/23 09:25	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-07-1012'
Date Collected: 03/03/23 10:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-24
Matrix: Solid
Percent Solids: 84.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	84.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0002'
Date Collected: 03/03/23 10:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-25
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00522	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Acetone	ND		0.0522	0.0117	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Acrylonitrile	ND		0.00522	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Benzene	ND		0.00522	0.00349	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromobenzene	ND		0.00522	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromochloromethane	ND		0.00522	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromodichloromethane	ND		0.00522	0.00383	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromoform	ND		0.00522	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Bromomethane	ND		0.0104	0.00651	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2-Butanone (MEK)	ND		0.0104	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
n-Butylbenzene	ND		0.0104	0.00560	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
sec-Butylbenzene	ND		0.00522	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
tert-Butylbenzene	ND		0.00522	0.00412	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Carbon disulfide	ND		0.0104	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Carbon tetrachloride	ND		0.00522	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chlorobenzene	ND		0.00522	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chloroform	ND		0.00522	0.00351	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Chloromethane	ND		0.0104	0.00401	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2-Chlorotoluene	ND		0.00522	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
4-Chlorotoluene	ND		0.00522	0.00453	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00443	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Dibromochloromethane	ND		0.00522	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dibromoethane (EDB)	ND		0.00522	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Dibromomethane	ND		0.00522	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dichlorobenzene	ND		0.00522	0.00485	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3-Dichlorobenzene	ND		0.00522	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,4-Dichlorobenzene	ND		0.00522	0.00495	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0104	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1-Dichloroethane	ND		0.00522	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dichloroethane	ND		0.00522	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1-Dichloroethene	ND		0.00522	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
cis-1,2-Dichloroethene	ND		0.00522	0.00302	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
trans-1,2-Dichloroethene	ND		0.00522	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2-Dichloropropane	ND		0.00522	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3-Dichloropropane	ND		0.00522	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2,2-Dichloropropane	ND		0.00522	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1-Dichloropropene	ND		0.00522	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
cis-1,3-Dichloropropene	ND		0.00522	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
trans-1,3-Dichloropropene	ND		0.00522	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethylbenzene	ND		0.00522	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Hexachlorobutadiene	ND		0.0104	0.00526	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
2-Hexanone (MBK)	ND		0.0104	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Isopropylbenzene	ND		0.00522	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
4-Isopropyltoluene	ND		0.00522	0.00513	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Methyl tert-butyl ether	ND		0.00522	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Methylene Chloride	ND		0.0104	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Naphthalene	ND		0.00522	0.00472	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Styrene	ND		0.00522	0.00404	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,1,2-Tetrachloroethane	ND		0.00522	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,2,2-Tetrachloroethane	ND		0.00522	0.00479	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Tetrachloroethene	ND		0.00522	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Toluene	ND		0.00522	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,3-Trichlorobenzene	ND		0.00522	0.00441	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,4-Trichlorobenzene	ND		0.00522	0.00482	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3,5-Trichlorobenzene	ND		0.00522	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,1-Trichloroethane	ND		0.00522	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,1,2-Trichloroethane	ND		0.00522	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Trichloroethene	ND		0.00522	0.00351	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00522	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,3-Trichloropropane	ND		0.00522	0.00464	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,2,4-Trimethylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3,5-Trimethylbenzene	ND		0.00522	0.00444	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Vinyl chloride	ND		0.00522	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
m,p-Xylene	ND		0.00522	0.00714	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
o-Xylene	ND		0.00522	0.00381	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethyl ether	ND		0.00522	0.00275	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Tert-amyl methyl ether	ND		0.00522	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethyl tert-butyl ether	ND		0.00522	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
di-Isopropyl ether	ND		0.00522	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
tert-Butanol	ND		0.104	0.0280	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,4-Dioxane	ND		0.104	0.0325	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Ethanol	ND		1.04	0.0648	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
1,3-Dichloropropene, Total	ND		0.00522	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1
Xylenes, Total	ND		0.0157	0.00522	mg/Kg	☼	03/09/23 13:37	03/09/23 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 17:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.367	0.0652	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,2,4-Trichlorobenzene	ND		0.367	0.0840	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,2-Dichlorobenzene	ND		0.367	0.0707	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,3-Dichlorobenzene	ND		0.367	0.0888	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1,4-Dichlorobenzene	ND		0.367	0.0863	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
1-Methylnaphthalene	ND		0.0741	0.0622	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4,5-Trichlorophenol	ND		0.367	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4,6-Trichlorophenol	ND		0.186	0.0453	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4-Dichlorophenol	ND		0.186	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4-Dimethylphenol	ND		0.367	0.0538	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,4-Dinitrophenol	**0.833**		0.367	0.0965	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.186	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2,6-Dinitrotoluene	ND		0.186	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Chloronaphthalene	ND		0.367	0.0848	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Chlorophenol	ND		0.186	0.0759	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Methylnaphthalene	ND		0.0741	0.0548	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Methylphenol	ND		0.367	0.0536	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Nitroaniline	ND		0.367	0.0349	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
2-Nitrophenol	ND		0.186	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
3 & 4 Methylphenol	ND		0.367	0.0695	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
3,3'-Dichlorobenzidine	ND		0.367	0.0606	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
3-Nitroaniline	ND		0.367	0.0328	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4,6-Dinitro-2-methylphenol	ND		0.367	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Bromophenyl phenyl ether	ND		0.367	0.0415	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Chloro-3-methylphenol	ND		0.367	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Chloroaniline	ND		0.186	0.0281	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Chlorophenyl phenyl ether	ND		0.367	0.0392	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Nitroaniline	ND		0.186	0.0586	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
4-Nitrophenol	ND		0.367	0.128	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Acenaphthene	ND		0.0741	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Acenaphthylene	ND		0.0741	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Acetophenone	ND		0.186	0.0452	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Aniline	ND		0.367	0.0281	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Anthracene	ND		0.0741	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Azobenzene/Diphenyldiazene	ND		0.367	0.0626	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzidine	ND		0.733	0.109	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[a]anthracene	**0.0819**		0.0741	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[a]pyrene	**0.104**		0.0741	0.0530	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[b]fluoranthene	**0.119**		0.0741	0.0615	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[g,h,i]perylene	**0.111**		0.0741	0.0579	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzo[k]fluoranthene	**0.102**		0.0741	0.0577	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzoic acid	ND		0.367	0.252	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Benzyl alcohol	ND		0.367	0.0665	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Bis(2-chloroethoxy)methane	ND		0.367	0.0638	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Bis(2-chloroethyl)ether	ND		0.186	0.0607	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0826	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Bis(2-ethylhexyl) phthalate	**10.7**		0.742	0.189	mg/Kg	☼	03/14/23 10:48	03/17/23 18:33	4
Butyl benzyl phthalate	**1.05**		0.367	0.0368	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Carbazole	ND		0.186	0.0486	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Chrysene	**0.131**		0.0741	0.0419	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Dibenz(a,h)anthracene	ND		0.0741	0.0566	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Dibenzofuran	ND		0.186	0.0642	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Diethyl phthalate	ND		0.367	0.0402	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Dimethyl phthalate	ND		0.367	0.0478	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Di-n-butyl phthalate	**2.06**		0.367	0.0392	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Di-n-octyl phthalate	ND		0.367	0.0606	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Fluoranthene	**0.237**		0.0741	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Fluorene	ND		0.0741	0.0677	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Hexachlorobenzene	ND		0.186	0.0515	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Hexachlorobutadiene	ND		0.186	0.0926	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.186	0.0709	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Hexachloroethane	ND		0.186	0.0729	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Indeno[1,2,3-cd]pyrene	**0.0954**		0.0741	0.0629	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Isophorone	ND		0.186	0.0508	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Naphthalene	ND		0.0741	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Nitrobenzene	ND		0.186	0.0857	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
N-Nitrosodimethylamine	ND		0.186	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
N-Nitrosodiphenylamine	ND		0.367	0.0468	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pentachloronitrobenzene	ND		0.367	0.0579	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pentachlorophenol	ND		0.367	0.150	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Phenanthrene	**0.114**		0.0741	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Phenol	ND		0.367	0.0756	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pyrene	**0.219**		0.0741	0.0409	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1
Pyridine	ND		0.367	0.0868	mg/Kg	☼	03/14/23 10:48	03/16/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
2-Fluorobiphenyl (Surr)	*65*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
2-Fluorophenol (Surr)	*71*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
Phenol-d5 (Surr)	*65*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*	*03/14/23 10:48*	*03/17/23 18:33*	*4*
Terphenyl-d14	*66*		*30 - 130*	*03/14/23 10:48*	*03/16/23 17:03*	*1*
Terphenyl-d14	*67*		*30 - 130*	*03/14/23 10:48*	*03/17/23 18:33*	*4*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.190**	**J**	0.302	0.155	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.302	0.129	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Ethylbenzene	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Methyl tert-butyl ether	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
m,p-Xylene	ND		0.121	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Naphthalene	ND		0.0604	0.0411	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
o-Xylene	ND		0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
Toluene	**0.0292**	**J**	0.0604	0.0121	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
C5-C8 Aliphatics (unadjusted)	**0.219**	**J**	0.302	0.155	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
C9-C10 Aromatics	ND		0.302	0.0423	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1
C9-C12 Aliphatics (unadjusted)	ND		0.302	0.129	mg/Kg	☼	03/08/23 06:56	03/08/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:04*	*1*

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:04*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.17	0.841	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1221	ND		1.17	0.345	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1232	ND		1.17	0.323	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1242	ND		1.17	0.185	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1248	ND		1.17	0.365	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1254	**26.3**		1.17	0.909	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1262	ND		1.17	0.272	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1260	**3.59**		1.17	0.251	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50
PCB-1268	ND		1.17	0.249	mg/Kg	☼	03/09/23 15:27	03/14/23 12:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/14/23 12:23*	*50*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoroheptanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorononanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorodecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorotridecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorotetradecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorobutanesulfonic acid	ND		2.25	0.450	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorohexanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NEtFOSAA	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NMeFOSAA	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
10:2 FTS	ND		2.25	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoropentanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoroheptanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorononanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorodecanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctanesulfonamide	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorohexadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorooctadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorobutanoic acid	ND		2.25	0.901	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoropentanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NMeFOSE	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NMeFOSA	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NEtFOSE	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
NEtFOSA	ND		2.25	0.563	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1

Client Sample ID: 2023-MW-05-0002' **Lab Sample ID: 620-10117-25**
Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.25	1.13	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
DONA	ND		3.38	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
9Cl-PF3ONS	ND		2.25	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
11Cl-PF3OUdS	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluorododecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
4:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
Perfluoroundecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
6:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.676	ug/Kg	☼	03/07/23 18:02	03/16/23 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C4 PFHpA	*98*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C8 PFOA	*96*		*26 - 159*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C9 PFNA	*94*		*26 - 165*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C6 PFDA	*96*		*26 - 161*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C2-PFDoDA	*105*		*11 - 166*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C2 PFTeDA	*127*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C3 PFBS	*116*		*27 - 179*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C3 PFHxS	*114*		*24 - 171*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d5-NEtFOSAA	*24*		*10 - 193*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C4 PFBA	*93*		*28 - 153*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C5 PFPeA	*92*		*24 - 161*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d3-NMePFOSA	*102*		*10 - 175*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d9-N-EtFOSE-M	*129*		*10 - 185*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
d5-NEtPFOSA	*113*		*10 - 180*	*03/07/23 18:02*	*03/16/23 04:52*	*1*
13C3 HFPO-DA	*78*		*10 - 169*	*03/07/23 18:02*	*03/16/23 04:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**8.25**		5.18	1.76	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Arsenic	**6.48**		3.11	1.45	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Barium	**3780**		5.18	1.55	mg/Kg	☼	03/07/23 13:12	03/10/23 08:20	10
Beryllium	**0.642**		0.518	0.104	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Cadmium	**1.08**		0.518	0.104	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Chromium	**27.1**		1.55	0.363	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Lead	**676**		1.55	0.622	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Nickel	**8.71**		1.04	0.269	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Selenium	ND		5.18	1.55	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Silver	ND	^3+	1.04	0.415	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Thallium	ND		3.11	1.35	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1
Vanadium	**14.0**		1.04	0.446	mg/Kg	☼	03/07/23 13:12	03/09/23 08:12	1

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0002'
Lab Sample ID: 620-10117-25
Date Collected: 03/03/23 10:40
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	1970		20.7	8.29	mg/Kg	☼	03/07/23 13:12	03/10/23 08:20	10

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0307	J	0.0680	0.0227	mg/Kg	☼	03/07/23 13:21	03/08/23 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0204'
Date Collected: 03/03/23 10:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-26
Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00586	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Acetone	ND		0.0586	0.0131	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Acrylonitrile	ND		0.00586	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Benzene	ND		0.00586	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromobenzene	ND		0.00586	0.00390	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromochloromethane	ND		0.00586	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromodichloromethane	ND		0.00586	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromoform	ND		0.00586	0.00448	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Bromomethane	ND		0.0117	0.00731	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2-Butanone (MEK)	ND		0.0117	0.00467	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
n-Butylbenzene	ND		0.0117	0.00629	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
sec-Butylbenzene	ND		0.00586	0.00473	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
tert-Butylbenzene	ND		0.00586	0.00462	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Carbon disulfide	ND		0.0117	0.00412	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Carbon tetrachloride	ND		0.00586	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chlorobenzene	ND		0.00586	0.00429	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chloroethane	ND		0.0117	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chloroform	ND		0.00586	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Chloromethane	ND		0.0117	0.00450	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2-Chlorotoluene	ND		0.00586	0.00467	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
4-Chlorotoluene	ND		0.00586	0.00509	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0117	0.00497	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Dibromochloromethane	ND		0.00586	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dibromoethane (EDB)	ND		0.00586	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Dibromomethane	ND		0.00586	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dichlorobenzene	ND		0.00586	0.00544	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3-Dichlorobenzene	ND		0.00586	0.00470	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,4-Dichlorobenzene	ND		0.00586	0.00556	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0117	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1-Dichloroethane	ND		0.00586	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dichloroethane	ND		0.00586	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1-Dichloroethene	ND		0.00586	0.00359	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
cis-1,2-Dichloroethene	ND		0.00586	0.00339	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
trans-1,2-Dichloroethene	ND		0.00586	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2-Dichloropropane	ND		0.00586	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3-Dichloropropane	ND		0.00586	0.00448	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2,2-Dichloropropane	ND		0.00586	0.00405	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1-Dichloropropene	ND		0.00586	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
cis-1,3-Dichloropropene	ND		0.00586	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
trans-1,3-Dichloropropene	ND		0.00586	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethylbenzene	ND		0.00586	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Hexachlorobutadiene	ND		0.0117	0.00590	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
2-Hexanone (MBK)	ND		0.0117	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Isopropylbenzene	ND		0.00586	0.00443	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
4-Isopropyltoluene	ND		0.00586	0.00576	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Methyl tert-butyl ether	ND		0.00586	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0117	0.00379	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Methylene Chloride	ND		0.0117	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Naphthalene	ND		0.00586	0.00530	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00586	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Styrene	ND		0.00586	0.00454	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,1,2-Tetrachloroethane	ND		0.00586	0.00440	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,2,2-Tetrachloroethane	ND		0.00586	0.00537	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Tetrachloroethene	ND		0.00586	0.00326	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Toluene	ND		0.00586	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,3-Trichlorobenzene	ND		0.00586	0.00495	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,4-Trichlorobenzene	ND		0.00586	0.00541	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3,5-Trichlorobenzene	ND		0.00586	0.00557	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,1-Trichloroethane	ND		0.00586	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,1,2-Trichloroethane	ND		0.00586	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Trichloroethene	ND		0.00586	0.00394	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00586	0.00448	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,3-Trichloropropane	ND		0.00586	0.00521	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,2,4-Trimethylbenzene	ND		0.00586	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3,5-Trimethylbenzene	ND		0.00586	0.00498	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Vinyl chloride	ND		0.00586	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
m,p-Xylene	ND		0.00586	0.00801	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
o-Xylene	ND		0.00586	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Tetrahydrofuran	ND		0.0117	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethyl ether	ND		0.00586	0.00308	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Tert-amyl methyl ether	ND		0.00586	0.00463	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethyl tert-butyl ether	ND		0.00586	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
di-Isopropyl ether	ND		0.00586	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
tert-Butanol	ND		0.117	0.0314	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,4-Dioxane	ND		0.117	0.0365	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
trans-1,4-Dichloro-2-butene	ND		0.0293	0.00433	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Ethanol	ND		1.17	0.0727	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
1,3-Dichloropropene, Total	ND		0.00586	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1
Xylenes, Total	ND		0.0176	0.00586	mg/Kg	☼	03/09/23 13:37	03/09/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.378	0.0672	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,2,4-Trichlorobenzene	ND		0.378	0.0865	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,2-Dichlorobenzene	ND		0.378	0.0728	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,3-Dichlorobenzene	ND		0.378	0.0914	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1,4-Dichlorobenzene	ND		0.378	0.0889	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
1-Methylnaphthalene	ND		0.0763	0.0641	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4,5-Trichlorophenol	ND		0.378	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4,6-Trichlorophenol	ND		0.191	0.0467	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4-Dichlorophenol	ND		0.191	0.0761	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4-Dimethylphenol	ND		0.378	0.0554	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,4-Dinitrophenol	ND		0.378	0.0993	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0204'
Date Collected: 03/03/23 10:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-26
Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2,6-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Chloronaphthalene	ND		0.378	0.0873	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Chlorophenol	ND		0.191	0.0781	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Methylnaphthalene	ND		0.0763	0.0564	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Methylphenol	ND		0.378	0.0552	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Nitroaniline	ND		0.378	0.0359	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
2-Nitrophenol	ND		0.191	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
3 & 4 Methylphenol	ND		0.378	0.0715	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
3,3'-Dichlorobenzidine	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
3-Nitroaniline	ND		0.378	0.0338	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4,6-Dinitro-2-methylphenol	ND		0.378	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Bromophenyl phenyl ether	ND		0.378	0.0427	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Chloro-3-methylphenol	ND		0.378	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Chloroaniline	ND		0.191	0.0289	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Chlorophenyl phenyl ether	ND		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Nitroaniline	ND		0.191	0.0603	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
4-Nitrophenol	ND		0.378	0.132	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Acenaphthene	ND		0.0763	0.0609	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Acenaphthylene	ND		0.0763	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Acetophenone	ND		0.191	0.0466	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Aniline	ND		0.378	0.0289	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Anthracene	ND		0.0763	0.0442	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Azobenzene/Diphenyldiazene	ND		0.378	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzidine	ND		0.755	0.112	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[a]anthracene	**0.123**		0.0763	0.0429	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[a]pyrene	**0.125**		0.0763	0.0546	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[b]fluoranthene	**0.145**		0.0763	0.0633	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[g,h,i]perylene	**0.133**		0.0763	0.0596	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzo[k]fluoranthene	**0.165**		0.0763	0.0594	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzoic acid	ND		0.378	0.260	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Benzyl alcohol	ND		0.378	0.0684	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Bis(2-chloroethoxy)methane	ND		0.378	0.0657	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Bis(2-chloroethyl)ether	ND		0.191	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0850	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Bis(2-ethylhexyl) phthalate	**0.972**		0.191	0.0486	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Butyl benzyl phthalate	ND		0.378	0.0379	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Carbazole	ND		0.191	0.0500	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Chrysene	**0.219**		0.0763	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Dibenz(a,h)anthracene	ND		0.0763	0.0582	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Dibenzofuran	ND		0.191	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Diethyl phthalate	ND		0.378	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Dimethyl phthalate	ND		0.378	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Di-n-butyl phthalate	**3.19**		0.378	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Di-n-octyl phthalate	ND		0.378	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Fluoranthene	**0.342**		0.0763	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Fluorene	ND		0.0763	0.0697	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Hexachlorobenzene	ND		0.191	0.0530	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Hexachlorobutadiene	ND		0.191	0.0953	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.191	0.0730	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Hexachloroethane	ND		0.191	0.0751	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Indeno[1,2,3-cd]pyrene	**0.112**		0.0763	0.0648	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Isophorone	ND		0.191	0.0523	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Naphthalene	ND		0.0763	0.0732	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Nitrobenzene	ND		0.191	0.0882	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
N-Nitrosodimethylamine	ND		0.191	0.0501	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0761	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
N-Nitrosodiphenylamine	ND		0.378	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pentachloronitrobenzene	ND		0.378	0.0596	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pentachlorophenol	ND		0.378	0.154	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Phenanthrene	**0.249**		0.0763	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Phenol	ND		0.378	0.0778	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pyrene	**0.387**		0.0763	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1
Pyridine	ND		0.378	0.0894	mg/Kg	☼	03/14/23 10:48	03/16/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
2-Fluorophenol (Surr)	*88*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/14/23 10:48*	*03/16/23 16:34*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/14/23 10:48*	*03/16/23 16:34*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.142**	**J**	0.263	0.135	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.263	0.113	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Ethylbenzene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Methyl tert-butyl ether	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Naphthalene	ND		0.0527	0.0358	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
o-Xylene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
Toluene	ND		0.0527	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
C5-C8 Aliphatics (unadjusted)	**0.142**	**J**	0.263	0.135	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
C9-C10 Aromatics	ND		0.263	0.0369	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1
C9-C12 Aliphatics (unadjusted)	ND		0.263	0.113	mg/Kg	☼	03/08/23 06:56	03/08/23 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:43*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 18:43*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0446	0.0322	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1221	ND		0.0446	0.0132	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1232	ND		0.0446	0.0124	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0446	0.00705	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1248	ND		0.0446	0.0139	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1254	**1.08**		0.0446	0.0347	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1262	ND		0.0446	0.0104	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1260	ND		0.0446	0.00959	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2
PCB-1268	ND		0.0446	0.00951	mg/Kg	☼	03/09/23 15:27	03/14/23 12:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:40*	*2*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoroheptanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorononanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorodecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorotridecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorotetradecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorobutanesulfonic acid	ND		2.18	0.436	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorohexanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
10:2 FTS	ND		2.18	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoropentanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoroheptanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorononanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorodecanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctanesulfonamide	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorohexadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorooctadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorobutanoic acid	ND		2.18	0.872	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoropentanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NMeFOSE	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NMeFOSA	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NEtFOSE	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
NEtFOSA	ND		2.18	0.545	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
DONA	ND		3.27	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
11Cl-PF3OUdS	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluorododecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
Perfluoroundecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1
8:2 Fluorotelomer sulfonic acid	ND		3.27	0.654	ug/Kg	☼	03/07/23 18:02	03/16/23 05:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
M2-8:2 FTS	*103*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
M2-6:2 FTS	*116*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C5 PFHxA	*106*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C9 PFNA	*112*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C3 PFBS	*113*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C3 PFHxS	*113*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d3-NMeFOSAA	*73*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d5-NEtFOSAA	*87*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C4 PFBA	*102*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C5 PFPeA	*101*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:03*	*1*
13C3 HFPO-DA	*87*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.08**	**J**	4.77	1.62	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Arsenic	**6.18**		2.86	1.34	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Barium	**531**		4.77	1.43	mg/Kg	☼	03/07/23 13:12	03/10/23 08:23	10
Beryllium	**0.621**		0.477	0.0954	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Cadmium	**0.216**	**J**	0.477	0.0954	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Chromium	**10.3**		1.43	0.334	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Lead	**76.1**		1.43	0.572	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Nickel	**10.3**		0.954	0.248	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Selenium	ND		4.77	1.43	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Silver	ND	^3+	0.954	0.382	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Thallium	ND		2.86	1.24	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Vanadium	**11.9**		0.954	0.410	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1
Zinc	**302**	**^5-**	1.91	0.763	mg/Kg	☼	03/07/23 13:12	03/09/23 08:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0264**	**J**	0.0687	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:14	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0204' **Lab Sample ID: 620-10117-26**
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.6		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.4		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0608'
Date Collected: 03/03/23 10:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-27
Matrix: Solid
Percent Solids: 86.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00458	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Acetone	ND		0.0458	0.0103	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Acrylonitrile	ND		0.00458	0.00275	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Benzene	ND		0.00458	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromobenzene	ND		0.00458	0.00305	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromochloromethane	ND		0.00458	0.00260	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromodichloromethane	ND		0.00458	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromoform	ND		0.00458	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Bromomethane	ND		0.00916	0.00570	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2-Butanone (MEK)	ND		0.00916	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
n-Butylbenzene	ND		0.00916	0.00491	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
sec-Butylbenzene	ND		0.00458	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
tert-Butylbenzene	ND		0.00458	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Carbon disulfide	ND		0.00916	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Carbon tetrachloride	ND		0.00458	0.00288	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chlorobenzene	ND		0.00458	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chloroethane	ND		0.00916	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chloroform	ND		0.00458	0.00308	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Chloromethane	ND		0.00916	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2-Chlorotoluene	ND		0.00458	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
4-Chlorotoluene	ND		0.00458	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dibromo-3-Chloropropane	ND		0.00916	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Dibromochloromethane	ND		0.00458	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dibromoethane (EDB)	ND		0.00458	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Dibromomethane	ND		0.00458	0.00269	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dichlorobenzene	ND		0.00458	0.00425	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3-Dichlorobenzene	ND		0.00458	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,4-Dichlorobenzene	ND		0.00458	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00916	0.00245	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1-Dichloroethane	ND		0.00458	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dichloroethane	ND		0.00458	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1-Dichloroethene	ND		0.00458	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
cis-1,2-Dichloroethene	ND		0.00458	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
trans-1,2-Dichloroethene	ND		0.00458	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2-Dichloropropane	ND		0.00458	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3-Dichloropropane	ND		0.00458	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2,2-Dichloropropane	ND		0.00458	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1-Dichloropropene	ND		0.00458	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
cis-1,3-Dichloropropene	ND		0.00458	0.00298	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
trans-1,3-Dichloropropene	ND		0.00458	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethylbenzene	ND		0.00458	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Hexachlorobutadiene	ND		0.00916	0.00461	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
2-Hexanone (MBK)	ND		0.00916	0.00269	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Isopropylbenzene	ND		0.00458	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
4-Isopropyltoluene	ND		0.00458	0.00450	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Methyl tert-butyl ether	ND		0.00458	0.00264	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.00916	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Methylene Chloride	ND		0.00916	0.00245	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Naphthalene	ND		0.00458	0.00414	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00458	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Styrene	ND		0.00458	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,1,2-Tetrachloroethane	ND		0.00458	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,2,2-Tetrachloroethane	ND		0.00458	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Tetrachloroethene	ND		0.00458	0.00255	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Toluene	ND		0.00458	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,3-Trichlorobenzene	ND		0.00458	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,4-Trichlorobenzene	ND		0.00458	0.00422	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3,5-Trichlorobenzene	ND		0.00458	0.00435	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,1-Trichloroethane	ND		0.00458	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,1,2-Trichloroethane	ND		0.00458	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Trichloroethene	ND		0.00458	0.00308	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Trichlorofluoromethane (Freon 11)	ND		0.00458	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,3-Trichloropropane	ND		0.00458	0.00407	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,2,4-Trimethylbenzene	ND		0.00458	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3,5-Trimethylbenzene	ND		0.00458	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Vinyl chloride	ND		0.00458	0.00279	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
m,p-Xylene	ND		0.00458	0.00625	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
o-Xylene	ND		0.00458	0.00334	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Tetrahydrofuran	ND		0.00916	0.00232	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethyl ether	ND		0.00458	0.00241	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Tert-amyl methyl ether	ND		0.00458	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethyl tert-butyl ether	ND		0.00458	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
di-Isopropyl ether	ND		0.00458	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
tert-Butanol	ND		0.0916	0.0245	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,4-Dioxane	ND		0.0916	0.0285	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
trans-1,4-Dichloro-2-butene	ND		0.0229	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Ethanol	ND		0.916	0.0568	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
1,3-Dichloropropene, Total	ND		0.00458	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1
Xylenes, Total	ND		0.0137	0.00458	mg/Kg	☼	03/09/23 13:37	03/09/23 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 18:39*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.370	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,2,4-Trichlorobenzene	ND		0.370	0.0849	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,2-Dichlorobenzene	ND		0.370	0.0714	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,3-Dichlorobenzene	ND		0.370	0.0897	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1,4-Dichlorobenzene	ND		0.370	0.0872	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
1-Methylnaphthalene	ND		0.0749	0.0629	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4,5-Trichlorophenol	ND		0.370	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4,6-Trichlorophenol	ND		0.187	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4-Dichlorophenol	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4-Dimethylphenol	ND		0.370	0.0543	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,4-Dinitrophenol	ND		0.370	0.0974	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0608'
Date Collected: 03/03/23 10:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-27
Matrix: Solid
Percent Solids: 86.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2,6-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Chloronaphthalene	ND		0.370	0.0856	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Chlorophenol	ND		0.187	0.0767	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Methylnaphthalene	ND		0.0749	0.0553	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Methylphenol	ND		0.370	0.0541	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Nitroaniline	ND		0.370	0.0352	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
2-Nitrophenol	ND		0.187	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
3 & 4 Methylphenol	ND		0.370	0.0702	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
3,3'-Dichlorobenzidine	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
3-Nitroaniline	ND		0.370	0.0331	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4,6-Dinitro-2-methylphenol	ND		0.370	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Bromophenyl phenyl ether	ND		0.370	0.0419	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Chloro-3-methylphenol	ND		0.370	0.0725	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Chloroaniline	ND		0.187	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Chlorophenyl phenyl ether	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Nitroaniline	ND		0.187	0.0592	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
4-Nitrophenol	ND		0.370	0.129	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Acenaphthene	ND		0.0749	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Acenaphthylene	ND		0.0749	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Acetophenone	ND		0.187	0.0457	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Aniline	ND		0.370	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Anthracene	ND		0.0749	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Azobenzene/Diphenyldiazene	ND		0.370	0.0632	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzidine	ND		0.741	0.110	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[a]anthracene	ND		0.0749	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[a]pyrene	ND		0.0749	0.0535	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[b]fluoranthene	ND		0.0749	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[g,h,i]perylene	ND		0.0749	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzo[k]fluoranthene	ND		0.0749	0.0583	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzoic acid	ND		0.370	0.255	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Benzyl alcohol	ND		0.370	0.0671	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Bis(2-chloroethoxy)methane	ND		0.370	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Bis(2-chloroethyl)ether	ND		0.187	0.0613	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Bis(2-ethylhexyl) phthalate	ND		0.187	0.0477	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Butyl benzyl phthalate	ND		0.370	0.0372	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Carbazole	ND		0.187	0.0491	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Chrysene	ND		0.0749	0.0423	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Dibenz(a,h)anthracene	ND		0.0749	0.0571	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Dibenzofuran	ND		0.187	0.0649	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Diethyl phthalate	ND		0.370	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Dimethyl phthalate	ND		0.370	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Di-n-butyl phthalate	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Di-n-octyl phthalate	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Fluoranthene	ND		0.0749	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Fluorene	ND		0.0749	0.0684	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Hexachlorobenzene	ND		0.187	0.0520	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Hexachlorobutadiene	ND		0.187	0.0935	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Hexachloroethane	ND		0.187	0.0736	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Indeno[1,2,3-cd]pyrene	ND		0.0749	0.0635	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Isophorone	ND		0.187	0.0513	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Naphthalene	ND		0.0749	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Nitrobenzene	ND		0.187	0.0865	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
N-Nitrosodimethylamine	ND		0.187	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
N-Nitrosodiphenylamine	ND		0.370	0.0473	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pentachloronitrobenzene	ND		0.370	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pentachlorophenol	ND		0.370	0.152	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Phenanthrene	ND		0.0749	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Phenol	ND		0.370	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pyrene	ND		0.0749	0.0413	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1
Pyridine	ND		0.370	0.0877	mg/Kg	☼	03/14/23 10:48	03/16/23 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
Phenol-d5 (Surr)	*88*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:10*	*1*
Terphenyl-d14	*95*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:10*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Ethylbenzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Methyl tert-butyl ether	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
m,p-Xylene	ND		0.0972	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Naphthalene	ND		0.0486	0.0331	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
o-Xylene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
Toluene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/08/23 06:56	03/08/23 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 19:23*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 19:23*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0221	0.0159	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1221	ND		0.0221	0.00653	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1232	ND		0.0221	0.00612	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0221	0.00349	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1248	ND		0.0221	0.00690	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1254	**0.0338**		0.0221	0.0172	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1262	ND		0.0221	0.00515	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1260	ND		0.0221	0.00475	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1
PCB-1268	ND		0.0221	0.00471	mg/Kg	☼	03/09/23 15:27	03/13/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:01*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoroheptanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorononanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorodecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorotridecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorotetradecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorobutanesulfonic acid	ND		2.22	0.443	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorohexanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
10:2 FTS	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoropentanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoroheptanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorononanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorodecanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctanesulfonamide	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorohexadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorooctadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorobutanoic acid	ND		2.22	0.886	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoropentanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NMeFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NMeFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NEtFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
NEtFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
DONA	ND		3.32	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
11Cl-PF3OUdS	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluorododecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
Perfluoroundecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1
8:2 Fluorotelomer sulfonic acid	ND		3.32	0.665	ug/Kg	☼	03/07/23 18:02	03/16/23 05:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
M2-8:2 FTS	*119*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
M2-6:2 FTS	*120*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C4 PFHpA	*124*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C8 PFOA	*125*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C9 PFNA	*115*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C2-PFDoDA	*119*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C2 PFTeDA	*153*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C3 PFHxS	*125*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C8 PFOS	*124*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d3-NMeFOSAA	*94*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d5-NEtFOSAA	*105*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C8 FOSA	*115*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C4 PFBA	*120*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C5 PFPeA	*111*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d7-N-MeFOSE-M	*115*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d3-NMePFOSA	*102*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d9-N-EtFOSE-M	*121*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
d5-NEtPFOSA	*110*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:14*	*1*
13C3 HFPO-DA	*100*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.33	1.81	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Arsenic	ND		3.20	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Barium	**13.5**		0.533	0.160	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Beryllium	**0.216**	**J**	0.533	0.107	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Cadmium	ND		0.533	0.107	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Chromium	**3.38**		1.60	0.373	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Lead	**3.86**		1.60	0.640	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Nickel	**1.76**		1.07	0.277	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Selenium	ND		5.33	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Silver	ND	^3+	1.07	0.427	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Thallium	ND		3.20	1.39	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Vanadium	**4.65**		1.07	0.459	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1
Zinc	**7.78**		2.13	0.853	mg/Kg	☼	03/07/23 13:12	03/09/23 08:38	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0691	0.0230	mg/Kg	☼	03/07/23 13:21	03/08/23 11:32	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0608' **Lab Sample ID: 620-10117-27**
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.2		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	86.8		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0810'
Date Collected: 03/03/23 10:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-28
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00471	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Acetone	ND		0.0471	0.0105	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Acrylonitrile	ND		0.00471	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Benzene	ND		0.00471	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromobenzene	ND		0.00471	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromochloromethane	ND		0.00471	0.00268	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromodichloromethane	ND		0.00471	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromoform	ND		0.00471	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Bromomethane	ND		0.00942	0.00587	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2-Butanone (MEK)	ND		0.00942	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
n-Butylbenzene	ND		0.00942	0.00505	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
sec-Butylbenzene	ND		0.00471	0.00380	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
tert-Butylbenzene	ND		0.00471	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Carbon disulfide	ND		0.00942	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Carbon tetrachloride	ND		0.00471	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chlorobenzene	ND		0.00471	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chloroethane	ND		0.00942	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chloroform	ND		0.00471	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Chloromethane	ND		0.00942	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2-Chlorotoluene	ND		0.00471	0.00375	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
4-Chlorotoluene	ND		0.00471	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dibromo-3-Chloropropane	ND		0.00942	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Dibromochloromethane	ND		0.00471	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dibromoethane (EDB)	ND		0.00471	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Dibromomethane	ND		0.00471	0.00277	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dichlorobenzene	ND		0.00471	0.00437	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3-Dichlorobenzene	ND		0.00471	0.00378	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,4-Dichlorobenzene	ND		0.00471	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00942	0.00252	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1-Dichloroethane	ND		0.00471	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dichloroethane	ND		0.00471	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1-Dichloroethene	ND		0.00471	0.00288	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
cis-1,2-Dichloroethene	ND		0.00471	0.00272	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
trans-1,2-Dichloroethene	ND		0.00471	0.00293	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2-Dichloropropane	ND		0.00471	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3-Dichloropropane	ND		0.00471	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2,2-Dichloropropane	ND		0.00471	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1-Dichloropropene	ND		0.00471	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
cis-1,3-Dichloropropene	ND		0.00471	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
trans-1,3-Dichloropropene	ND		0.00471	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethylbenzene	ND		0.00471	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Hexachlorobutadiene	ND		0.00942	0.00474	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
2-Hexanone (MBK)	ND		0.00942	0.00277	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Isopropylbenzene	ND		0.00471	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
4-Isopropyltoluene	ND		0.00471	0.00462	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Methyl tert-butyl ether	ND		0.00471	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
4-Methyl-2-pentanone (MIBK)	ND		0.00942	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Methylene Chloride	ND		0.00942	0.00252	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Naphthalene	ND		0.00471	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00471	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Styrene	ND		0.00471	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,1,2-Tetrachloroethane	ND		0.00471	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,2,2-Tetrachloroethane	ND		0.00471	0.00431	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Tetrachloroethene	ND		0.00471	0.00262	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Toluene	ND		0.00471	0.00299	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,3-Trichlorobenzene	ND		0.00471	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,4-Trichlorobenzene	ND		0.00471	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3,5-Trichlorobenzene	ND		0.00471	0.00447	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,1-Trichloroethane	ND		0.00471	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,1,2-Trichloroethane	ND		0.00471	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Trichloroethene	ND		0.00471	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Trichlorofluoromethane (Freon 11)	ND		0.00471	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,3-Trichloropropane	ND		0.00471	0.00418	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,2,4-Trimethylbenzene	ND		0.00471	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3,5-Trimethylbenzene	ND		0.00471	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Vinyl chloride	ND		0.00471	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
m,p-Xylene	ND		0.00471	0.00643	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
o-Xylene	ND		0.00471	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Tetrahydrofuran	ND		0.00942	0.00238	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethyl ether	ND		0.00471	0.00248	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Tert-amyl methyl ether	ND		0.00471	0.00372	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethyl tert-butyl ether	ND		0.00471	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
di-Isopropyl ether	ND		0.00471	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
tert-Butanol	ND		0.0942	0.0252	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,4-Dioxane	ND		0.0942	0.0293	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
trans-1,4-Dichloro-2-butene	ND		0.0235	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Ethanol	ND		0.942	0.0584	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
1,3-Dichloropropene, Total	ND		0.00471	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1
Xylenes, Total	ND		0.0141	0.00471	mg/Kg	☼	03/09/23 13:37	03/09/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:04*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.368	0.0655	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,2,4-Trichlorobenzene	ND		0.368	0.0843	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,2-Dichlorobenzene	ND		0.368	0.0709	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,3-Dichlorobenzene	ND		0.368	0.0891	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1,4-Dichlorobenzene	ND		0.368	0.0867	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
1-Methylnaphthalene	ND		0.0744	0.0625	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4,5-Trichlorophenol	ND		0.368	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4,6-Trichlorophenol	ND		0.186	0.0455	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4-Dichlorophenol	ND		0.186	0.0742	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4-Dimethylphenol	ND		0.368	0.0540	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,4-Dinitrophenol	ND		0.368	0.0968	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0810'
Date Collected: 03/03/23 10:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-28
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2,6-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Chloronaphthalene	ND		0.368	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Chlorophenol	ND		0.186	0.0762	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Methylnaphthalene	ND		0.0744	0.0550	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Methylphenol	ND		0.368	0.0538	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Nitroaniline	ND		0.368	0.0350	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
2-Nitrophenol	ND		0.186	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
3 & 4 Methylphenol	ND		0.368	0.0697	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
3,3'-Dichlorobenzidine	ND		0.368	0.0608	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
3-Nitroaniline	ND		0.368	0.0329	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4,6-Dinitro-2-methylphenol	ND		0.368	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Bromophenyl phenyl ether	ND		0.368	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Chloro-3-methylphenol	ND		0.368	0.0721	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Chloroaniline	ND		0.186	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Chlorophenyl phenyl ether	ND		0.368	0.0394	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Nitroaniline	ND		0.186	0.0588	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
4-Nitrophenol	ND		0.368	0.128	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Acenaphthene	ND		0.0744	0.0593	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Acenaphthylene	ND		0.0744	0.0489	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Acetophenone	ND		0.186	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Aniline	ND		0.368	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Anthracene	ND		0.0744	0.0431	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Azobenzene/Diphenyldiazene	ND		0.368	0.0628	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzidine	ND		0.736	0.109	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[a]anthracene	ND		0.0744	0.0418	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[a]pyrene	ND		0.0744	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[b]fluoranthene	ND		0.0744	0.0617	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[g,h,i]perylene	ND		0.0744	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzo[k]fluoranthene	ND		0.0744	0.0579	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzoic acid	ND		0.368	0.253	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Benzyl alcohol	ND		0.368	0.0667	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Bis(2-chloroethoxy)methane	ND		0.368	0.0640	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Bis(2-chloroethyl)ether	ND		0.186	0.0609	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0829	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Bis(2-ethylhexyl) phthalate	ND		0.186	0.0474	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Butyl benzyl phthalate	ND		0.368	0.0369	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Carbazole	ND		0.186	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Chrysene	ND		0.0744	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Dibenz(a,h)anthracene	ND		0.0744	0.0568	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Dibenzofuran	ND		0.186	0.0645	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Diethyl phthalate	ND		0.368	0.0404	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Dimethyl phthalate	ND		0.368	0.0480	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Di-n-butyl phthalate	ND		0.368	0.0394	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Di-n-octyl phthalate	ND		0.368	0.0608	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Fluoranthene	ND		0.0744	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Fluorene	ND		0.0744	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Hexachlorobenzene	ND		0.186	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Hexachlorobutadiene	ND		0.186	0.0929	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.186	0.0712	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Hexachloroethane	ND		0.186	0.0732	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0744	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Isophorone	ND		0.186	0.0510	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Naphthalene	ND		0.0744	0.0714	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Nitrobenzene	ND		0.186	0.0860	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
N-Nitrosodimethylamine	ND		0.186	0.0489	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0742	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
N-Nitrosodiphenylamine	ND		0.368	0.0470	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pentachloronitrobenzene	ND		0.368	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pentachlorophenol	ND		0.368	0.151	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Phenanthrene	ND		0.0744	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Phenol	ND		0.368	0.0759	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pyrene	ND		0.0744	0.0410	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1
Pyridine	ND		0.368	0.0871	mg/Kg	☼	03/14/23 10:48	03/16/23 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
Phenol-d5 (Surr)	*87*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 14:39*	*1*
Terphenyl-d14	*101*		*30 - 130*	*03/14/23 10:48*	*03/16/23 14:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Ethylbenzene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Methyl tert-butyl ether	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
m,p-Xylene	ND		0.0972	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Naphthalene	ND		0.0486	0.0330	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
o-Xylene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
Toluene	ND		0.0486	0.00972	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/08/23 06:56	03/08/23 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:02*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:02*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1221	ND		0.0223	0.00659	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1232	ND		0.0223	0.00617	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1248	ND		0.0223	0.00696	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1254	ND		0.0223	0.0173	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1262	ND		0.0223	0.00519	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1260	ND		0.0223	0.00479	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1
PCB-1268	ND		0.0223	0.00475	mg/Kg	☼	03/09/23 15:27	03/11/23 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:19*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoroheptanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorononanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorodecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorotridecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorotetradecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorobutanesulfonic acid	ND		2.17	0.434	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorohexanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
10:2 FTS	ND		2.17	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoropentanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoroheptanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorononanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorodecanesulfonic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctanesulfonamide	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorohexadecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorooctadecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorobutanoic acid	ND		2.17	0.868	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoropentanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NMeFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NMeFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NEtFOSE	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
NEtFOSA	ND		2.17	0.542	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
HFPODA	ND		2.17	1.08	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
DONA	ND		3.25	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
11Cl-PF3OUdS	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluorododecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
Perfluoroundecanoic acid	ND		0.651	0.217	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.651	ug/Kg	☼	03/07/23 18:02	03/16/23 05:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
M2-8:2 FTS	*118*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C5 PFHxA	*115*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C4 PFHpA	*123*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C2-PFDoDA	*118*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C2 PFTeDA	*144*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C3 PFBS	*131*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C3 PFHxS	*122*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d3-NMeFOSAA	*108*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d5-NEtFOSAA	*107*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C8 FOSA	*113*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C4 PFBA	*118*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d3-NMePFOSA	*114*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d9-N-EtFOSE-M	*130*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
d5-NEtPFOSA	*119*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:25*	*1*
13C3 HFPO-DA	*100*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.29	1.46	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Arsenic	ND		2.57	1.20	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Barium	**22.1**		0.429	0.129	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Beryllium	**0.208**	**J**	0.429	0.0858	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Cadmium	ND		0.429	0.0858	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Chromium	**5.10**		1.29	0.300	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Lead	**2.54**		1.29	0.515	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Nickel	**2.94**		0.858	0.223	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Selenium	ND		4.29	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Silver	ND	^3+	0.858	0.343	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Thallium	ND		2.57	1.12	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Vanadium	**8.26**		0.858	0.369	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1
Zinc	**11.8**		1.72	0.686	mg/Kg	☼	03/07/23 13:12	03/09/23 08:32	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0657	0.0219	mg/Kg	☼	03/07/23 13:21	03/08/23 11:28	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0810' **Lab Sample ID: 620-10117-28**
Date Collected: 03/03/23 10:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.0		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.0		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-1012'
Date Collected: 03/03/23 11:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-29
Matrix: Solid
Percent Solids: 87.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00434	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Acetone	ND		0.0434	0.00971	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Acrylonitrile	ND		0.00434	0.00260	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Benzene	ND		0.00434	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromobenzene	ND		0.00434	0.00289	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromochloromethane	ND		0.00434	0.00246	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromodichloromethane	ND		0.00434	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromoform	ND		0.00434	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Bromomethane	ND		0.00867	0.00540	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2-Butanone (MEK)	ND		0.00867	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
n-Butylbenzene	ND		0.00867	0.00465	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
sec-Butylbenzene	ND		0.00434	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
tert-Butylbenzene	ND		0.00434	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Carbon disulfide	**0.00841**	**J**	0.00867	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Carbon tetrachloride	ND		0.00434	0.00273	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chlorobenzene	ND		0.00434	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chloroethane	ND		0.00867	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chloroform	ND		0.00434	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Chloromethane	ND		0.00867	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2-Chlorotoluene	ND		0.00434	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
4-Chlorotoluene	ND		0.00434	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dibromo-3-Chloropropane	ND		0.00867	0.00368	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Dibromochloromethane	ND		0.00434	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dibromoethane (EDB)	ND		0.00434	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Dibromomethane	ND		0.00434	0.00255	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dichlorobenzene	ND		0.00434	0.00402	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3-Dichlorobenzene	ND		0.00434	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,4-Dichlorobenzene	ND		0.00434	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00867	0.00232	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1-Dichloroethane	ND		0.00434	0.00294	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dichloroethane	ND		0.00434	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1-Dichloroethene	ND		0.00434	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
cis-1,2-Dichloroethene	ND		0.00434	0.00251	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
trans-1,2-Dichloroethene	ND		0.00434	0.00270	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2-Dichloropropane	ND		0.00434	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3-Dichloropropane	ND		0.00434	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2,2-Dichloropropane	ND		0.00434	0.00299	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1-Dichloropropene	ND		0.00434	0.00295	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
cis-1,3-Dichloropropene	ND		0.00434	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
trans-1,3-Dichloropropene	ND		0.00434	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethylbenzene	ND		0.00434	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Hexachlorobutadiene	ND		0.00867	0.00436	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
2-Hexanone (MBK)	ND		0.00867	0.00255	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Isopropylbenzene	ND		0.00434	0.00328	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
4-Isopropyltoluene	ND		0.00434	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Methyl tert-butyl ether	ND		0.00434	0.00250	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		0.00867	0.00280	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Methylene Chloride	ND		0.00867	0.00232	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Naphthalene	ND		0.00434	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00434	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Styrene	ND		0.00434	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,1,2-Tetrachloroethane	ND		0.00434	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,2,2-Tetrachloroethane	ND		0.00434	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Tetrachloroethene	ND		0.00434	0.00241	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Toluene	ND		0.00434	0.00275	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,3-Trichlorobenzene	ND		0.00434	0.00366	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,4-Trichlorobenzene	ND		0.00434	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3,5-Trichlorobenzene	ND		0.00434	0.00412	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,1-Trichloroethane	ND		0.00434	0.00296	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,1,2-Trichloroethane	ND		0.00434	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Trichloroethene	ND		0.00434	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Trichlorofluoromethane (Freon 11)	ND		0.00434	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,3-Trichloropropane	ND		0.00434	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,2,4-Trimethylbenzene	ND		0.00434	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3,5-Trimethylbenzene	ND		0.00434	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Vinyl chloride	ND		0.00434	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
m,p-Xylene	ND		0.00434	0.00592	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
o-Xylene	ND		0.00434	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Tetrahydrofuran	ND		0.00867	0.00219	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethyl ether	ND		0.00434	0.00228	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Tert-amyl methyl ether	ND		0.00434	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethyl tert-butyl ether	ND		0.00434	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
di-Isopropyl ether	ND		0.00434	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
tert-Butanol	ND		0.0867	0.0232	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,4-Dioxane	ND		0.0867	0.0270	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
trans-1,4-Dichloro-2-butene	ND		0.0217	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Ethanol	ND		0.867	0.0538	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
1,3-Dichloropropene, Total	ND		0.00434	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1
Xylenes, Total	ND		0.0130	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:29*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.372	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,2,4-Trichlorobenzene	ND		0.372	0.0851	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,2-Dichlorobenzene	ND		0.372	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,3-Dichlorobenzene	ND		0.372	0.0900	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1,4-Dichlorobenzene	ND		0.372	0.0875	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
1-Methylnaphthalene	ND		0.0751	0.0630	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4,5-Trichlorophenol	ND		0.372	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4,6-Trichlorophenol	ND		0.188	0.0459	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4-Dichlorophenol	ND		0.188	0.0749	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4-Dimethylphenol	ND		0.372	0.0545	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,4-Dinitrophenol	ND		0.372	0.0977	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-1012'
Date Collected: 03/03/23 11:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-29
Matrix: Solid
Percent Solids: 87.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2,6-Dinitrotoluene	ND		0.188	0.0440	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Chloronaphthalene	ND		0.372	0.0859	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Chlorophenol	ND		0.188	0.0769	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Methylnaphthalene	ND		0.0751	0.0555	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Methylphenol	ND		0.372	0.0543	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Nitroaniline	ND		0.372	0.0354	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
2-Nitrophenol	ND		0.188	0.0668	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
3 & 4 Methylphenol	ND		0.372	0.0704	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
3,3'-Dichlorobenzidine	ND		0.372	0.0614	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
3-Nitroaniline	ND		0.372	0.0332	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4,6-Dinitro-2-methylphenol	ND		0.372	0.0668	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Bromophenyl phenyl ether	ND		0.372	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Chloro-3-methylphenol	ND		0.372	0.0727	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Chloroaniline	ND		0.188	0.0285	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Chlorophenyl phenyl ether	ND		0.372	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Nitroaniline	ND		0.188	0.0593	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
4-Nitrophenol	ND		0.372	0.129	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Acenaphthene	ND		0.0751	0.0599	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Acenaphthylene	ND		0.0751	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Acetophenone	ND		0.188	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Aniline	ND		0.372	0.0285	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Anthracene	ND		0.0751	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Azobenzene/Diphenyldiazene	ND		0.372	0.0634	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzidine	ND		0.743	0.110	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[a]anthracene	ND		0.0751	0.0422	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[a]pyrene	ND		0.0751	0.0537	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[b]fluoranthene	ND		0.0751	0.0623	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[g,h,i]perylene	ND		0.0751	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzo[k]fluoranthene	ND		0.0751	0.0584	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzoic acid	ND		0.372	0.256	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Benzyl alcohol	ND		0.372	0.0673	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Bis(2-chloroethoxy)methane	ND		0.372	0.0646	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Bis(2-chloroethyl)ether	ND		0.188	0.0615	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
bis (2-chloroisopropyl) ether	ND		0.188	0.0836	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Bis(2-ethylhexyl) phthalate	ND		0.188	0.0478	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Butyl benzyl phthalate	ND		0.372	0.0373	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Carbazole	ND		0.188	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Chrysene	ND		0.0751	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Dibenz(a,h)anthracene	ND		0.0751	0.0573	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Dibenzofuran	ND		0.188	0.0651	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Diethyl phthalate	ND		0.372	0.0408	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Dimethyl phthalate	ND		0.372	0.0484	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Di-n-butyl phthalate	ND		0.372	0.0397	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Di-n-octyl phthalate	ND		0.372	0.0614	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Fluoranthene	ND		0.0751	0.0440	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Fluorene	ND		0.0751	0.0686	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Hexachlorobenzene	ND		0.188	0.0521	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Hexachlorobutadiene	ND		0.188	0.0938	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.188	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Hexachloroethane	ND		0.188	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0751	0.0637	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Isophorone	ND		0.188	0.0515	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Naphthalene	ND		0.0751	0.0721	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Nitrobenzene	ND		0.188	0.0868	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
N-Nitrosodimethylamine	ND		0.188	0.0493	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
N-Nitrosodi-n-propylamine	ND		0.188	0.0749	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
N-Nitrosodiphenylamine	ND		0.372	0.0474	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pentachloronitrobenzene	ND		0.372	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pentachlorophenol	ND		0.372	0.152	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Phenanthrene	ND		0.0751	0.0426	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Phenol	ND		0.372	0.0766	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pyrene	ND		0.0751	0.0414	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1
Pyridine	ND		0.372	0.0879	mg/Kg	☼	03/14/23 10:48	03/16/23 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
Phenol-d5 (Surr)	*98*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:08*	*1*
Terphenyl-d14	*101*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.362	0.185	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.362	0.155	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Ethylbenzene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Methyl tert-butyl ether	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
m,p-Xylene	ND		0.145	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Naphthalene	ND		0.0723	0.0492	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
o-Xylene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
Toluene	ND		0.0723	0.0145	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
C5-C8 Aliphatics (unadjusted)	ND		0.362	0.185	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
C9-C10 Aromatics	ND		0.362	0.0506	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1
C9-C12 Aliphatics (unadjusted)	ND		0.362	0.155	mg/Kg	☼	03/08/23 06:56	03/08/23 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:41*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 20:41*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0220	0.0158	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1221	ND		0.0220	0.00649	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1232	ND		0.0220	0.00609	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0220	0.00347	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1248	ND		0.0220	0.00687	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1254	ND		0.0220	0.0171	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1262	ND		0.0220	0.00512	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1260	ND		0.0220	0.00472	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1
PCB-1268	ND		0.0220	0.00468	mg/Kg	☼	03/09/23 15:27	03/13/23 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*30 - 150*	*03/09/23 15:27*	*03/13/23 22:18*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoroheptanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorononanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorodecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorotridecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorotetradecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorobutanesulfonic acid	ND		2.18	0.437	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorohexanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
10:2 FTS	ND		2.18	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoropentanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoroheptanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorononanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorodecanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctanesulfonamide	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorohexadecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorooctadecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorobutanoic acid	ND		2.18	0.874	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoropentanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NMeFOSE	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NMeFOSA	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NEtFOSE	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
NEtFOSA	ND		2.18	0.546	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
DONA	ND		3.28	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
11Cl-PF3OUdS	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluorododecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
Perfluoroundecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1
8:2 Fluorotelomer sulfonic acid	ND		3.28	0.655	ug/Kg	☼	03/07/23 18:02	03/16/23 05:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
M2-6:2 FTS	*121*		*10 - 200*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C4 PFHpA	*109*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C8 PFOA	*126*		*26 - 159*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C9 PFNA	*123*		*26 - 165*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C6 PFDA	*117*		*26 - 161*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C2-PFDoDA	*122*		*11 - 166*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C2 PFTeDA	*144*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C3 PFBS	*137*		*27 - 179*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C3 PFHxS	*122*		*24 - 171*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C8 PFOS	*128*		*41 - 154*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d3-NMeFOSAA	*106*		*10 - 178*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d5-NEtFOSAA	*114*		*10 - 193*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C8 FOSA	*115*		*14 - 163*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C4 PFBA	*123*		*28 - 153*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C5 PFPeA	*119*		*24 - 161*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d3-NMePFOSA	*116*		*10 - 175*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d9-N-EtFOSE-M	*128*		*10 - 185*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
d5-NEtPFOSA	*122*		*10 - 180*	*03/07/23 18:02*	*03/16/23 05:36*	*1*
13C3 HFPO-DA	*95*		*10 - 169*	*03/07/23 18:02*	*03/16/23 05:36*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.46	1.86	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Arsenic	ND		3.28	1.53	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Barium	**9.86**		0.546	0.164	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Beryllium	**0.155**	**J**	0.546	0.109	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Cadmium	ND		0.546	0.109	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Chromium	**6.38**		1.64	0.382	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Lead	**2.12**		1.64	0.655	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Nickel	**2.02**		1.09	0.284	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Selenium	ND		5.46	1.64	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Silver	ND	^3+	1.09	0.437	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Thallium	ND		3.28	1.42	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Vanadium	**4.16**		1.09	0.470	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1
Zinc	**7.25**		2.18	0.874	mg/Kg	☼	03/07/23 13:12	03/09/23 10:00	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0688	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:49	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-1012' **Lab Sample ID: 620-10117-29**
Date Collected: 03/03/23 11:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.8		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.2		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'
Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-30
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00506	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Acetone	**0.0193**	**J B**	0.0506	0.0113	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Acrylonitrile	ND		0.00506	0.00304	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Benzene	ND		0.00506	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromobenzene	ND	*3	0.00506	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromochloromethane	ND		0.00506	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromodichloromethane	ND		0.00506	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromoform	ND	*3	0.00506	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Bromomethane	ND		0.0101	0.00630	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
n-Butylbenzene	ND	*3	0.0101	0.00542	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
sec-Butylbenzene	ND	*3	0.00506	0.00408	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
tert-Butylbenzene	ND		0.00506	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Carbon disulfide	ND		0.0101	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Carbon tetrachloride	ND		0.00506	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chlorobenzene	ND	*3	0.00506	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chloroethane	ND		0.0101	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chloroform	ND		0.00506	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Chloromethane	ND		0.0101	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2-Chlorotoluene	ND	*3	0.00506	0.00403	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
4-Chlorotoluene	ND	*3	0.00506	0.00439	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0101	0.00429	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Dibromochloromethane	ND		0.00506	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dibromoethane (EDB)	ND		0.00506	0.00363	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Dibromomethane	ND		0.00506	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dichlorobenzene	ND	*3	0.00506	0.00469	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3-Dichlorobenzene	ND	*3	0.00506	0.00406	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,4-Dichlorobenzene	ND	*3	0.00506	0.00480	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1-Dichloroethane	ND		0.00506	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dichloroethane	ND		0.00506	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1-Dichloroethene	ND		0.00506	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
cis-1,2-Dichloroethene	ND		0.00506	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
trans-1,2-Dichloroethene	ND		0.00506	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2-Dichloropropane	ND		0.00506	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3-Dichloropropane	ND		0.00506	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2,2-Dichloropropane	ND		0.00506	0.00349	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1-Dichloropropene	ND		0.00506	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
cis-1,3-Dichloropropene	ND		0.00506	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
trans-1,3-Dichloropropene	ND		0.00506	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethylbenzene	ND	*3	0.00506	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Hexachlorobutadiene	ND	*3	0.0101	0.00509	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Isopropylbenzene	ND	*3	0.00506	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
4-Isopropyltoluene	ND	*3	0.00506	0.00497	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Methyl tert-butyl ether	ND		0.00506	0.00291	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Naphthalene	ND	*3	0.00506	0.00457	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'
Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-30
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00506	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Styrene	ND	*3	0.00506	0.00392	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00506	0.00379	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00506	0.00463	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Tetrachloroethene	ND		0.00506	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Toluene	ND		0.00506	0.00321	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,3-Trichlorobenzene	ND	*3	0.00506	0.00427	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,4-Trichlorobenzene	ND	*3	0.00506	0.00466	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3,5-Trichlorobenzene	ND	*3	0.00506	0.00481	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,1-Trichloroethane	ND		0.00506	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,1,2-Trichloroethane	ND		0.00506	0.00381	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Trichloroethene	ND		0.00506	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Trichlorofluoromethane (Freon 11)	ND		0.00506	0.00387	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,3-Trichloropropane	ND	*3	0.00506	0.00449	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,2,4-Trimethylbenzene	ND	*3	0.00506	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3,5-Trimethylbenzene	ND	*3	0.00506	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Vinyl chloride	ND		0.00506	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
m,p-Xylene	ND	*3	0.00506	0.00691	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
o-Xylene	ND	*3	0.00506	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethyl ether	ND		0.00506	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Tert-amyl methyl ether	ND		0.00506	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethyl tert-butyl ether	ND		0.00506	0.00333	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
di-Isopropyl ether	ND		0.00506	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Ethanol	ND		1.01	0.0627	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
1,3-Dichloropropene, Total	ND		0.00506	0.00385	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1
Xylenes, Total	ND		0.0152	0.00506	mg/Kg	☼	03/09/23 13:37	03/09/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*	*3	*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*	*03/09/23 13:37*	*03/09/23 19:54*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00709	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Acetone	ND		0.0709	0.0159	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Acrylonitrile	ND		0.00709	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Benzene	ND		0.00709	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromobenzene	ND		0.00709	0.00473	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromochloromethane	ND		0.00709	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromodichloromethane	ND		0.00709	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromoform	ND		0.00709	0.00542	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Bromomethane	ND	*+	0.0142	0.00884	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2-Butanone (MEK)	ND		0.0142	0.00565	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0142	0.00761	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
sec-Butylbenzene	ND		0.00709	0.00572	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
tert-Butylbenzene	ND		0.00709	0.00559	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Carbon disulfide	ND		0.0142	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Carbon tetrachloride	ND		0.00709	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chlorobenzene	ND		0.00709	0.00519	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chloroethane	ND		0.0142	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chloroform	ND		0.00709	0.00477	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Chloromethane	ND		0.0142	0.00545	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2-Chlorotoluene	ND		0.00709	0.00565	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
4-Chlorotoluene	ND		0.00709	0.00616	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0142	0.00602	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Dibromochloromethane	ND		0.00709	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dibromoethane (EDB)	ND		0.00709	0.00509	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Dibromomethane	ND		0.00709	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dichlorobenzene	ND	*3	0.00709	0.00658	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3-Dichlorobenzene	ND		0.00709	0.00569	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,4-Dichlorobenzene	ND	*3	0.00709	0.00673	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Dichlorodifluoromethane (Freon 12)	ND		0.0142	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1-Dichloroethane	ND		0.00709	0.00481	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dichloroethane	ND		0.00709	0.00478	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1-Dichloroethene	ND		0.00709	0.00434	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
cis-1,2-Dichloroethene	ND		0.00709	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
trans-1,2-Dichloroethene	ND		0.00709	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2-Dichloropropane	ND		0.00709	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3-Dichloropropane	ND		0.00709	0.00542	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2,2-Dichloropropane	ND		0.00709	0.00490	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1-Dichloropropene	ND		0.00709	0.00482	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
cis-1,3-Dichloropropene	ND		0.00709	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
trans-1,3-Dichloropropene	ND		0.00709	0.00539	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethylbenzene	ND		0.00709	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Hexachlorobutadiene	ND	*3	0.0142	0.00714	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
2-Hexanone (MBK)	ND		0.0142	0.00417	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Isopropylbenzene	ND		0.00709	0.00536	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
4-Isopropyltoluene	ND	*3	0.00709	0.00697	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Methyl tert-butyl ether	ND		0.00709	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.0142	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Methylene Chloride	ND		0.0142	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Naphthalene	ND	*3	0.00709	0.00641	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
N-Propylbenzene	ND		0.00709	0.00600	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Styrene	ND		0.00709	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1,1,2-Tetrachloroethane	ND		0.00709	0.00532	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1,2,2-Tetrachloroethane	ND		0.00709	0.00650	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Tetrachloroethene	ND		0.00709	0.00394	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Toluene	ND		0.00709	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,3-Trichlorobenzene	ND	*3	0.00709	0.00599	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,4-Trichlorobenzene	ND		0.00709	0.00654	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3,5-Trichlorobenzene	ND	*3	0.00709	0.00674	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,1,1-Trichloroethane	ND		0.00709	0.00484	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00709	0.00535	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Trichloroethene	ND		0.00709	0.00477	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Trichlorofluoromethane (Freon 11)	ND		0.00709	0.00542	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,3-Trichloropropane	ND		0.00709	0.00630	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,2,4-Trimethylbenzene	ND		0.00709	0.00600	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3,5-Trimethylbenzene	ND		0.00709	0.00603	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Vinyl chloride	ND		0.00709	0.00433	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
m,p-Xylene	ND		0.00709	0.00969	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
o-Xylene	ND		0.00709	0.00518	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Tetrahydrofuran	ND		0.0142	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethyl ether	ND		0.00709	0.00373	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Tert-amyl methyl ether	ND		0.00709	0.00560	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethyl tert-butyl ether	ND		0.00709	0.00467	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
di-Isopropyl ether	ND		0.00709	0.00507	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
tert-Butanol	ND		0.142	0.0380	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,4-Dioxane	ND		0.142	0.0441	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
trans-1,4-Dichloro-2-butene	ND		0.0355	0.00524	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Ethanol	ND		1.42	0.0880	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
1,3-Dichloropropene, Total	ND		0.00709	0.00539	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1
Xylenes, Total	ND		0.0213	0.00709	mg/Kg	☼	03/10/23 09:34	03/10/23 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:33*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.390	0.0694	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,2,4-Trichlorobenzene	ND		0.390	0.0893	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,2-Dichlorobenzene	ND		0.390	0.0752	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,3-Dichlorobenzene	ND		0.390	0.0944	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1,4-Dichlorobenzene	ND		0.390	0.0918	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
1-Methylnaphthalene	ND		0.0788	0.0662	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4,5-Trichlorophenol	ND		0.390	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4,6-Trichlorophenol	ND		0.197	0.0482	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dichlorophenol	ND		0.197	0.0786	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dimethylphenol	ND		0.390	0.0572	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dinitrophenol	ND		0.390	0.103	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,4-Dinitrotoluene	ND		0.197	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2,6-Dinitrotoluene	ND		0.197	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Chloronaphthalene	ND		0.390	0.0902	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Chlorophenol	ND		0.197	0.0807	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Methylnaphthalene	ND		0.0788	0.0583	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Methylphenol	ND		0.390	0.0570	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Nitroaniline	ND		0.390	0.0371	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
2-Nitrophenol	ND		0.197	0.0701	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
3 & 4 Methylphenol	ND		0.390	0.0739	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
3,3'-Dichlorobenzidine	ND		0.390	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'
Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-30
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.390	0.0349	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4,6-Dinitro-2-methylphenol	ND		0.390	0.0701	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Bromophenyl phenyl ether	ND		0.390	0.0441	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Chloro-3-methylphenol	ND		0.390	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Chloroaniline	ND		0.197	0.0299	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Chlorophenyl phenyl ether	ND		0.390	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Nitroaniline	ND		0.197	0.0623	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
4-Nitrophenol	ND		0.390	0.136	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Acenaphthene	ND		0.0788	0.0629	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Acenaphthylene	ND		0.0788	0.0518	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Acetophenone	ND		0.197	0.0481	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Aniline	ND		0.390	0.0299	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Anthracene	ND		0.0788	0.0456	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Azobenzene/Diphenyldiazene	ND		0.390	0.0665	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzidine	ND		0.780	0.115	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[a]anthracene	ND		0.0788	0.0443	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[a]pyrene	ND		0.0788	0.0564	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[b]fluoranthene	ND		0.0788	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[g,h,i]perylene	ND		0.0788	0.0616	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzo[k]fluoranthene	ND		0.0788	0.0613	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzoic acid	ND		0.390	0.268	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Benzyl alcohol	ND		0.390	0.0707	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Bis(2-chloroethoxy)methane	ND		0.390	0.0678	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Bis(2-chloroethyl)ether	ND		0.197	0.0645	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
bis (2-chloroisopropyl) ether	ND		0.197	0.0878	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Bis(2-ethylhexyl) phthalate	ND		0.197	0.0502	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Butyl benzyl phthalate	ND		0.390	0.0391	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Carbazole	ND		0.197	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Chrysene	ND		0.0788	0.0446	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Dibenz(a,h)anthracene	ND		0.0788	0.0602	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Dibenzofuran	ND		0.197	0.0683	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Diethyl phthalate	ND		0.390	0.0428	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Dimethyl phthalate	ND		0.390	0.0508	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Di-n-butyl phthalate	ND		0.390	0.0417	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Di-n-octyl phthalate	ND		0.390	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Fluoranthene	ND		0.0788	0.0462	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Fluorene	ND		0.0788	0.0720	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachlorobenzene	ND		0.197	0.0547	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachlorobutadiene	ND		0.197	0.0984	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachlorocyclopentadiene	ND		0.197	0.0754	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Hexachloroethane	ND		0.197	0.0775	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0788	0.0669	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Isophorone	ND		0.197	0.0540	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Naphthalene	ND		0.0788	0.0756	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Nitrobenzene	ND		0.197	0.0911	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
N-Nitrosodimethylamine	ND		0.197	0.0518	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
N-Nitrosodi-n-propylamine	ND		0.197	0.0786	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
N-Nitrosodiphenylamine	ND		0.390	0.0498	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Pentachloronitrobenzene	ND		0.390	0.0616	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.390	0.160	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Phenanthrene	ND		0.0788	0.0447	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Phenol	ND		0.390	0.0804	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Pyrene	ND		0.0788	0.0435	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1
Pyridine	ND		0.390	0.0923	mg/Kg	☼	03/14/23 10:48	03/16/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
Nitrobenzene-d5 (Surr)	*72*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
Phenol-d5 (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/16/23 15:37*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/14/23 10:48*	*03/16/23 15:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.344	0.176	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.344	0.147	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Ethylbenzene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Methyl tert-butyl ether	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
m,p-Xylene	ND		0.138	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Naphthalene	ND		0.0688	0.0468	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
o-Xylene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
Toluene	ND		0.0688	0.0138	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
C5-C8 Aliphatics (unadjusted)	ND		0.344	0.176	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
C9-C10 Aromatics	ND		0.344	0.0482	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1
C9-C12 Aliphatics (unadjusted)	ND		0.344	0.147	mg/Kg	☼	03/08/23 06:56	03/08/23 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/08/23 06:56*	*03/08/23 21:21*	*1*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/08/23 06:56*	*03/08/23 21:21*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0246	0.0177	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1221	ND		0.0246	0.00727	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1232	ND		0.0246	0.00682	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1242	ND		0.0246	0.00389	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1248	ND		0.0246	0.00769	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1254	**0.0712**		0.0246	0.0192	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1262	ND		0.0246	0.00574	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1260	ND		0.0246	0.00529	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1
PCB-1268	ND		0.0246	0.00524	mg/Kg	☼	03/09/23 15:27	03/14/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:14*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:14*	*1*

Client Sample ID: 2023-MW-05-0406'
Lab Sample ID: 620-10117-30
Date Collected: 03/03/23 11:05
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 80.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		30 - 150	03/09/23 15:27	03/14/23 04:14	1
DCB Decachlorobiphenyl (Surr)	74		30 - 150	03/09/23 15:27	03/14/23 04:14	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoroheptanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorononanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorodecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorotridecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorotetradecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorobutanesulfonic acid	ND		2.36	0.473	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorohexanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NEtFOSAA	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NMeFOSAA	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
10:2 FTS	ND		2.36	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoropentanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoroheptanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorononanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorodecanesulfonic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctanesulfonamide	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorohexadecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorooctadecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorobutanoic acid	ND		2.36	0.945	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoropentanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NMeFOSE	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NMeFOSA	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NEtFOSE	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
NEtFOSA	ND		2.36	0.591	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
HFPODA	ND		2.36	1.18	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
DONA	ND		3.54	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
9Cl-PF3ONS	ND		2.36	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
11Cl-PF3OUdS	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluorododecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
4:2 Fluorotelomer sulfonic acid	ND		2.36	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
Perfluoroundecanoic acid	ND		0.709	0.236	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
6:2 Fluorotelomer sulfonic acid	ND		2.36	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1
8:2 Fluorotelomer sulfonic acid	ND		3.54	0.709	ug/Kg	☼	03/07/23 18:02	03/16/23 05:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	112		10 - 200	03/07/23 18:02	03/16/23 05:58	1
M2-8:2 FTS	128		15 - 200	03/07/23 18:02	03/16/23 05:58	1
M2-6:2 FTS	131		10 - 200	03/07/23 18:02	03/16/23 05:58	1
13C5 PFHxA	124		10 - 174	03/07/23 18:02	03/16/23 05:58	1
13C4 PFHpA	127		10 - 178	03/07/23 18:02	03/16/23 05:58	1
13C8 PFOA	130		26 - 159	03/07/23 18:02	03/16/23 05:58	1

Client Sample ID: 2023-MW-05-0406' **Lab Sample ID: 620-10117-30**
Date Collected: 03/03/23 11:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	122		26 - 165	03/07/23 18:02	03/16/23 05:58	1
13C6 PFDA	123		26 - 161	03/07/23 18:02	03/16/23 05:58	1
13C7 PFUnA	127		12 - 173	03/07/23 18:02	03/16/23 05:58	1
13C2-PFDoDA	128		11 - 166	03/07/23 18:02	03/16/23 05:58	1
13C2 PFTeDA	154		10 - 169	03/07/23 18:02	03/16/23 05:58	1
13C3 PFBS	136		27 - 179	03/07/23 18:02	03/16/23 05:58	1
13C3 PFHxS	129		24 - 171	03/07/23 18:02	03/16/23 05:58	1
13C8 PFOS	132		41 - 154	03/07/23 18:02	03/16/23 05:58	1
d3-NMeFOSAA	81		10 - 178	03/07/23 18:02	03/16/23 05:58	1
d5-NEtFOSAA	92		10 - 193	03/07/23 18:02	03/16/23 05:58	1
13C8 FOSA	113		14 - 163	03/07/23 18:02	03/16/23 05:58	1
13C4 PFBA	129		28 - 153	03/07/23 18:02	03/16/23 05:58	1
13C5 PFPeA	121		24 - 161	03/07/23 18:02	03/16/23 05:58	1
d7-N-MeFOSE-M	125		10 - 179	03/07/23 18:02	03/16/23 05:58	1
d3-NMePFOSA	97		10 - 175	03/07/23 18:02	03/16/23 05:58	1
d9-N-EtFOSE-M	127		10 - 185	03/07/23 18:02	03/16/23 05:58	1
d5-NEtPFOSA	105		10 - 180	03/07/23 18:02	03/16/23 05:58	1
13C3 HFPO-DA	101		10 - 169	03/07/23 18:02	03/16/23 05:58	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.59	1.90	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Arsenic	ND		3.35	1.56	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Barium	**15.5**		0.559	0.168	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Beryllium	**0.378**	**J**	0.559	0.112	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Cadmium	ND		0.559	0.112	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Chromium	**4.99**		1.68	0.391	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Lead	**5.35**		1.68	0.671	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Nickel	**1.60**		1.12	0.291	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Selenium	ND		5.59	1.68	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Silver	ND	^3+	1.12	0.447	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Thallium	ND		3.35	1.45	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Vanadium	**3.83**		1.12	0.481	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1
Zinc	**5.43**		2.24	0.894	mg/Kg	☼	03/07/23 13:12	03/09/23 09:54	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0687	0.0229	mg/Kg	☼	03/07/23 13:21	03/08/23 11:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**19.4**		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	**80.6**		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-06
Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-31
Matrix: Solid
Percent Solids: 87.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00469	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Acetone	ND		0.0469	0.0105	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Acrylonitrile	ND		0.00469	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Benzene	ND		0.00469	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromobenzene	ND		0.00469	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromochloromethane	ND		0.00469	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromodichloromethane	ND		0.00469	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromoform	ND		0.00469	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Bromomethane	ND		0.00938	0.00584	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2-Butanone (MEK)	ND		0.00938	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
n-Butylbenzene	ND		0.00938	0.00503	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
sec-Butylbenzene	ND		0.00469	0.00378	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
tert-Butylbenzene	ND		0.00469	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Carbon disulfide	ND		0.00938	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Carbon tetrachloride	ND		0.00469	0.00295	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chlorobenzene	ND		0.00469	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chloroethane	ND		0.00938	0.00344	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chloroform	ND		0.00469	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Chloromethane	ND		0.00938	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2-Chlorotoluene	ND		0.00469	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
4-Chlorotoluene	ND		0.00469	0.00407	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dibromo-3-Chloropropane	ND		0.00938	0.00398	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Dibromochloromethane	ND		0.00469	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dibromoethane (EDB)	ND		0.00469	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Dibromomethane	ND		0.00469	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dichlorobenzene	ND		0.00469	0.00435	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3-Dichlorobenzene	ND		0.00469	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,4-Dichlorobenzene	ND		0.00469	0.00445	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00938	0.00251	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1-Dichloroethane	ND		0.00469	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dichloroethane	ND		0.00469	0.00316	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1-Dichloroethene	ND		0.00469	0.00287	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
cis-1,2-Dichloroethene	ND		0.00469	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
trans-1,2-Dichloroethene	ND		0.00469	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2-Dichloropropane	ND		0.00469	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3-Dichloropropane	ND		0.00469	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2,2-Dichloropropane	ND		0.00469	0.00324	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1-Dichloropropene	ND		0.00469	0.00319	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
cis-1,3-Dichloropropene	ND		0.00469	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
trans-1,3-Dichloropropene	ND		0.00469	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethylbenzene	ND		0.00469	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Hexachlorobutadiene	ND		0.00938	0.00472	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
2-Hexanone (MBK)	ND		0.00938	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Isopropylbenzene	ND		0.00469	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
4-Isopropyltoluene	ND		0.00469	0.00461	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Methyl tert-butyl ether	ND		0.00469	0.00270	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.00938	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Methylene Chloride	ND		0.00938	0.00251	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Naphthalene	ND		0.00469	0.00424	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00469	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Styrene	ND		0.00469	0.00363	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,1,2-Tetrachloroethane	ND		0.00469	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,2,2-Tetrachloroethane	ND		0.00469	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Tetrachloroethene	ND		0.00469	0.00261	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Toluene	ND		0.00469	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,3-Trichlorobenzene	ND		0.00469	0.00396	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,4-Trichlorobenzene	ND		0.00469	0.00432	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3,5-Trichlorobenzene	ND		0.00469	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,1-Trichloroethane	ND		0.00469	0.00320	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,1,2-Trichloroethane	ND		0.00469	0.00354	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Trichloroethene	ND		0.00469	0.00315	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Trichlorofluoromethane (Freon 11)	ND		0.00469	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,3-Trichloropropane	ND		0.00469	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,2,4-Trimethylbenzene	ND		0.00469	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3,5-Trimethylbenzene	ND		0.00469	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Vinyl chloride	ND		0.00469	0.00286	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
m,p-Xylene	ND		0.00469	0.00641	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
o-Xylene	ND		0.00469	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Tetrahydrofuran	ND		0.00938	0.00237	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethyl ether	ND		0.00469	0.00247	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Tert-amyl methyl ether	ND		0.00469	0.00370	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethyl tert-butyl ether	ND		0.00469	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
di-Isopropyl ether	ND		0.00469	0.00335	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
tert-Butanol	ND		0.0938	0.0251	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,4-Dioxane	ND		0.0938	0.0292	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
trans-1,4-Dichloro-2-butene	ND		0.0234	0.00346	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Ethanol	ND		0.938	0.0582	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
1,3-Dichloropropene, Total	ND		0.00469	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1
Xylenes, Total	ND		0.0141	0.00469	mg/Kg	☼	03/09/23 13:37	03/09/23 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 20:19*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.368	0.0654	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,2,4-Trichlorobenzene	ND		0.368	0.0842	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,2-Dichlorobenzene	ND		0.368	0.0709	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,3-Dichlorobenzene	ND		0.368	0.0890	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1,4-Dichlorobenzene	ND		0.368	0.0866	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
1-Methylnaphthalene	ND		0.0743	0.0624	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4,5-Trichlorophenol	ND		0.368	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4,6-Trichlorophenol	ND		0.186	0.0455	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4-Dichlorophenol	ND		0.186	0.0741	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4-Dimethylphenol	ND		0.368	0.0539	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,4-Dinitrophenol	ND		0.368	0.0967	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-06
Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-31
Matrix: Solid
Percent Solids: 87.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2,6-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Chloronaphthalene	ND		0.368	0.0850	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Chlorophenol	ND		0.186	0.0761	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Methylnaphthalene	ND		0.0743	0.0549	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Methylphenol	ND		0.368	0.0537	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Nitroaniline	ND		0.368	0.0350	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
2-Nitrophenol	ND		0.186	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
3 & 4 Methylphenol	ND		0.368	0.0696	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
3,3'-Dichlorobenzidine	ND		0.368	0.0607	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
3-Nitroaniline	ND		0.368	0.0329	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4,6-Dinitro-2-methylphenol	ND		0.368	0.0661	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Bromophenyl phenyl ether	ND		0.368	0.0416	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Chloro-3-methylphenol	ND		0.368	0.0720	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Chloroaniline	ND		0.186	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Chlorophenyl phenyl ether	ND		0.368	0.0393	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Nitroaniline	ND		0.186	0.0587	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
4-Nitrophenol	ND		0.368	0.128	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Acenaphthene	ND		0.0743	0.0593	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Acenaphthylene	ND		0.0743	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Acetophenone	ND		0.186	0.0454	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Aniline	ND		0.368	0.0282	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Anthracene	ND		0.0743	0.0430	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Azobenzene/Diphenyldiazene	ND		0.368	0.0627	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzidine	ND		0.735	0.109	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[a]anthracene	ND		0.0743	0.0418	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[a]pyrene	ND		0.0743	0.0532	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[b]fluoranthene	ND		0.0743	0.0616	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[g,h,i]perylene	ND		0.0743	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzo[k]fluoranthene	ND		0.0743	0.0578	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzoic acid	**0.524**		0.368	0.253	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Benzyl alcohol	ND		0.368	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Bis(2-chloroethoxy)methane	ND		0.368	0.0640	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Bis(2-chloroethyl)ether	ND		0.186	0.0608	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0828	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Bis(2-ethylhexyl) phthalate	**4.31**		0.744	0.189	mg/Kg	☼	03/14/23 10:48	03/16/23 18:28	4
Butyl benzyl phthalate	**2.25**		0.368	0.0369	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Carbazole	ND		0.186	0.0487	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Chrysene	ND		0.0743	0.0420	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Dibenz(a,h)anthracene	ND		0.0743	0.0567	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Dibenzofuran	ND		0.186	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Diethyl phthalate	ND		0.368	0.0403	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Dimethyl phthalate	ND		0.368	0.0479	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Di-n-butyl phthalate	ND		0.368	0.0393	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Di-n-octyl phthalate	ND		0.368	0.0607	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Fluoranthene	ND		0.0743	0.0436	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Fluorene	ND		0.0743	0.0679	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Hexachlorobenzene	ND		0.186	0.0516	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Hexachlorobutadiene	ND		0.186	0.0928	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.186	0.0711	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Hexachloroethane	ND		0.186	0.0731	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Indeno[1,2,3-cd]pyrene	ND		0.0743	0.0631	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Isophorone	ND		0.186	0.0509	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Naphthalene	ND		0.0743	0.0713	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Nitrobenzene	ND		0.186	0.0859	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
N-Nitrosodimethylamine	ND		0.186	0.0488	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0741	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
N-Nitrosodiphenylamine	ND		0.368	0.0469	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pentachloronitrobenzene	ND		0.368	0.0581	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pentachlorophenol	ND		0.368	0.150	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Phenanthrene	ND		0.0743	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Phenol	ND		0.368	0.0758	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pyrene	ND		0.0743	0.0410	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1
Pyridine	ND		0.368	0.0870	mg/Kg	☼	03/14/23 10:48	03/16/23 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
2-Fluorophenol (Surr)	*80*		*15 - 110*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
Phenol-d5 (Surr)	*94*		*15 - 110*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
Phenol-d5 (Surr)	*59*		*15 - 110*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*15 - 110*	*03/14/23 10:48*	*03/16/23 18:28*	*4*
Terphenyl-d14	*79*		*30 - 130*	*03/14/23 10:48*	*03/16/23 11:47*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/14/23 10:48*	*03/16/23 18:28*	*4*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.331	0.169	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	**0.357**		0.331	0.142	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Ethylbenzene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Methyl tert-butyl ether	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
m,p-Xylene	ND		0.132	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Naphthalene	**0.0980**	**B**	0.0661	0.0450	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
o-Xylene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
Toluene	ND		0.0661	0.0132	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.331	0.169	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
C9-C10 Aromatics	**0.149**	**J**	0.331	0.0463	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1
C9-C12 Aliphatics (unadjusted)	**0.506**		0.331	0.142	mg/Kg	☼	03/08/23 06:56	03/08/23 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/08/23 06:56*	*03/08/23 22:39*	*1*

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/08/23 06:56*	*03/08/23 22:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.455	0.328	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1221	ND		0.455	0.134	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1232	ND		0.455	0.126	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1242	ND		0.455	0.0719	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1248	ND		0.455	0.142	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1254	**14.5**		0.455	0.354	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1262	ND		0.455	0.106	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1260	ND		0.455	0.0978	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20
PCB-1268	ND		0.455	0.0969	mg/Kg	☼	03/09/23 15:27	03/13/23 15:42	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:42*	*20*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoroheptanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorononanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorodecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorotridecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorotetradecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorobutanesulfonic acid	ND		2.16	0.431	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorohexanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NEtFOSAA	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NMeFOSAA	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
10:2 FTS	ND		2.16	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoropentanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoroheptanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorononanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorodecanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctanesulfonamide	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorohexadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorooctadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorobutanoic acid	ND		2.16	0.863	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoropentanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NMeFOSE	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NMeFOSA	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NEtFOSE	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
NEtFOSA	ND		2.16	0.539	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1

Client Sample ID: 2023-FD-06 **Lab Sample ID: 620-10117-31**
Date Collected: 03/03/23 08:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.16	1.08	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
DONA	ND		3.23	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
9Cl-PF3ONS	ND		2.16	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
11Cl-PF3OUdS	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluorododecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
4:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
Perfluoroundecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
6:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.647	ug/Kg	☼	03/07/23 18:02	03/16/23 06:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*107*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
M2-8:2 FTS	*112*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
M2-6:2 FTS	*126*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C5 PFHxA	*122*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C4 PFHpA	*127*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C8 PFOA	*129*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C9 PFNA	*119*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C6 PFDA	*113*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C7 PFUnA	*125*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C2-PFDoDA	*116*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C2 PFTeDA	*141*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C3 PFBS	*131*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C3 PFHxS	*126*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C8 PFOS	*122*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d3-NMeFOSAA	*97*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d5-NEtFOSAA	*99*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C4 PFBA	*125*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d3-NMePFOSA	*100*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d9-N-EtFOSE-M	*119*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:09*	*1*
13C3 HFPO-DA	*104*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:09*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.97	1.69	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Arsenic	**2.06**	**J**	2.98	1.39	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Barium	**26.7**		0.497	0.149	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Beryllium	**0.256**	**J**	0.497	0.0994	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Cadmium	ND		0.497	0.0994	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Chromium	**10.6**		1.49	0.348	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Lead	**5.21**		1.49	0.596	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Nickel	**4.08**		0.994	0.258	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Selenium	ND		4.97	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Silver	ND	^3+	0.994	0.398	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Thallium	ND		2.98	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1
Vanadium	**8.49**		0.994	0.427	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-06
Lab Sample ID: 620-10117-31
Date Collected: 03/03/23 08:00
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 87.5

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	18.4		1.99	0.795	mg/Kg	☼	03/07/23 13:12	03/09/23 08:22	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0674	0.0225	mg/Kg	☼	03/07/23 13:21	03/08/23 11:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.5		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	87.5		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00476	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Acetone	ND		0.0476	0.0107	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Acrylonitrile	ND		0.00476	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Benzene	ND		0.00476	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromobenzene	ND		0.00476	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromochloromethane	ND		0.00476	0.00271	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromodichloromethane	ND		0.00476	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromoform	ND		0.00476	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Bromomethane	ND	*+	0.00953	0.00594	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2-Butanone (MEK)	ND		0.00953	0.00379	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
n-Butylbenzene	ND		0.00953	0.00511	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
sec-Butylbenzene	ND		0.00476	0.00384	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
tert-Butylbenzene	ND		0.00476	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Carbon disulfide	ND		0.00953	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Carbon tetrachloride	ND		0.00476	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chlorobenzene	ND		0.00476	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chloroethane	ND		0.00953	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chloroform	ND		0.00476	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Chloromethane	ND		0.00953	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2-Chlorotoluene	ND		0.00476	0.00379	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
4-Chlorotoluene	ND		0.00476	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dibromo-3-Chloropropane	ND		0.00953	0.00404	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Dibromochloromethane	ND		0.00476	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dibromoethane (EDB)	ND		0.00476	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Dibromomethane	ND		0.00476	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dichlorobenzene	ND		0.00476	0.00442	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3-Dichlorobenzene	ND		0.00476	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,4-Dichlorobenzene	ND		0.00476	0.00452	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Dichlorodifluoromethane (Freon 12)	ND		0.00953	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1-Dichloroethane	ND		0.00476	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dichloroethane	ND		0.00476	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1-Dichloroethene	ND		0.00476	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
cis-1,2-Dichloroethene	ND		0.00476	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
trans-1,2-Dichloroethene	ND		0.00476	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2-Dichloropropane	ND		0.00476	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3-Dichloropropane	ND		0.00476	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2,2-Dichloropropane	ND		0.00476	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1-Dichloropropene	ND		0.00476	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
cis-1,3-Dichloropropene	ND		0.00476	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
trans-1,3-Dichloropropene	ND		0.00476	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethylbenzene	ND		0.00476	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Hexachlorobutadiene	ND		0.00953	0.00479	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
2-Hexanone (MBK)	ND		0.00953	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Isopropylbenzene	ND		0.00476	0.00360	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
4-Isopropyltoluene	ND		0.00476	0.00468	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Methyl tert-butyl ether	ND		0.00476	0.00274	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.00953	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Methylene Chloride	ND		0.00953	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Naphthalene	ND		0.00476	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1

Client Sample ID: 2023-FD-07 **Lab Sample ID: 620-10117-32**
Date Collected: 03/03/23 08:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00476	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Styrene	ND		0.00476	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,1,2-Tetrachloroethane	ND		0.00476	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,2,2-Tetrachloroethane	ND		0.00476	0.00436	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Tetrachloroethene	ND		0.00476	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Toluene	ND		0.00476	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,3-Trichlorobenzene	ND		0.00476	0.00402	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,4-Trichlorobenzene	ND		0.00476	0.00439	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3,5-Trichlorobenzene	ND		0.00476	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,1-Trichloroethane	ND		0.00476	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,1,2-Trichloroethane	ND		0.00476	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Trichloroethene	ND		0.00476	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Trichlorofluoromethane (Freon 11)	ND		0.00476	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,3-Trichloropropane	ND		0.00476	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,2,4-Trimethylbenzene	ND		0.00476	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3,5-Trimethylbenzene	ND		0.00476	0.00405	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Vinyl chloride	ND		0.00476	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
m,p-Xylene	ND		0.00476	0.00651	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
o-Xylene	ND		0.00476	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Tetrahydrofuran	ND		0.00953	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethyl ether	ND		0.00476	0.00251	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Tert-amyl methyl ether	ND		0.00476	0.00376	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethyl tert-butyl ether	ND		0.00476	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
di-Isopropyl ether	ND		0.00476	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
tert-Butanol	ND		0.0953	0.0255	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,4-Dioxane	ND		0.0953	0.0296	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
trans-1,4-Dichloro-2-butene	ND		0.0238	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Ethanol	ND		0.953	0.0591	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
1,3-Dichloropropene, Total	ND		0.00476	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1
Xylenes, Total	ND		0.0143	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 17:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.370	0.0659	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,2,4-Trichlorobenzene	ND		0.370	0.0848	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,2-Dichlorobenzene	ND		0.370	0.0714	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,3-Dichlorobenzene	ND		0.370	0.0897	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1,4-Dichlorobenzene	ND		0.370	0.0872	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
1-Methylnaphthalene	ND		0.0749	0.0628	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4,5-Trichlorophenol	ND		0.370	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4,6-Trichlorophenol	ND		0.187	0.0458	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4-Dichlorophenol	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4-Dimethylphenol	ND		0.370	0.0543	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,4-Dinitrophenol	ND		0.370	0.0974	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2,6-Dinitrotoluene	ND		0.187	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Chloronaphthalene	ND		0.370	0.0856	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Chlorophenol	ND		0.187	0.0767	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Methylnaphthalene	ND		0.0749	0.0553	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Methylphenol	ND		0.370	0.0541	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Nitroaniline	ND		0.370	0.0352	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
2-Nitrophenol	ND		0.187	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
3 & 4 Methylphenol	ND		0.370	0.0701	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
3,3'-Dichlorobenzidine	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
3-Nitroaniline	ND		0.370	0.0331	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4,6-Dinitro-2-methylphenol	ND		0.370	0.0666	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Bromophenyl phenyl ether	ND		0.370	0.0419	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Chloro-3-methylphenol	ND		0.370	0.0725	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Chloroaniline	ND		0.187	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Chlorophenyl phenyl ether	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Nitroaniline	ND		0.187	0.0591	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
4-Nitrophenol	ND		0.370	0.129	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Acenaphthene	ND		0.0749	0.0597	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Acenaphthylene	ND		0.0749	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Acetophenone	ND		0.187	0.0457	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Aniline	ND		0.370	0.0284	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Anthracene	ND		0.0749	0.0433	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Azobenzene/Diphenyldiazene	ND		0.370	0.0632	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzidine	ND		0.741	0.110	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[a]anthracene	ND		0.0749	0.0421	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[a]pyrene	ND		0.0749	0.0535	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[b]fluoranthene	ND		0.0749	0.0621	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[g,h,i]perylene	ND		0.0749	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzo[k]fluoranthene	ND		0.0749	0.0582	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzoic acid	ND		0.370	0.255	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Benzyl alcohol	ND		0.370	0.0671	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Bis(2-chloroethoxy)methane	ND		0.370	0.0644	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Bis(2-chloroethyl)ether	ND		0.187	0.0613	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0834	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Bis(2-ethylhexyl) phthalate	ND		0.187	0.0477	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Butyl benzyl phthalate	ND		0.370	0.0371	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Carbazole	ND		0.187	0.0490	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Chrysene	ND		0.0749	0.0423	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Dibenz(a,h)anthracene	ND		0.0749	0.0571	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Dibenzofuran	ND		0.187	0.0649	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Diethyl phthalate	ND		0.370	0.0406	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Dimethyl phthalate	ND		0.370	0.0483	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Di-n-butyl phthalate	ND		0.370	0.0396	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Di-n-octyl phthalate	ND		0.370	0.0612	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Fluoranthene	ND		0.0749	0.0439	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Fluorene	ND		0.0749	0.0683	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Hexachlorobenzene	ND		0.187	0.0520	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Hexachlorobutadiene	ND		0.187	0.0935	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0716	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Hexachloroethane	ND		0.187	0.0736	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0749	0.0635	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Isophorone	ND		0.187	0.0513	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Naphthalene	ND		0.0749	0.0718	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Nitrobenzene	ND		0.187	0.0865	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
N-Nitrosodimethylamine	ND		0.187	0.0492	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0746	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
N-Nitrosodiphenylamine	ND		0.370	0.0472	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pentachloronitrobenzene	ND		0.370	0.0585	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pentachlorophenol	ND		0.370	0.152	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Phenanthrene	ND		0.0749	0.0424	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Phenol	ND		0.370	0.0763	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pyrene	ND		0.0749	0.0413	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1
Pyridine	ND		0.370	0.0877	mg/Kg	☼	03/14/23 10:48	03/16/23 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
Phenol-d5 (Surr)	*86*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*	*03/14/23 10:48*	*03/16/23 13:42*	*1*
Terphenyl-d14	*100*		*30 - 130*	*03/14/23 10:48*	*03/16/23 13:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.262	0.134	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.262	0.112	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Ethylbenzene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Methyl tert-butyl ether	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Naphthalene	ND		0.0525	0.0357	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
o-Xylene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
Toluene	ND		0.0525	0.0105	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
C5-C8 Aliphatics (unadjusted)	ND		0.262	0.134	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
C9-C10 Aromatics	ND		0.262	0.0367	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1
C9-C12 Aliphatics (unadjusted)	ND		0.262	0.112	mg/Kg	☼	03/08/23 06:56	03/08/23 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:19*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:19*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1221	ND		0.0232	0.00687	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1232	ND		0.0232	0.00644	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1

Client Sample ID: 2023-FD-07 **Lab Sample ID: 620-10117-32**
Date Collected: 03/03/23 08:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0232	0.00367	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1248	ND		0.0232	0.00726	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1254	**0.225**		0.0232	0.0181	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1262	ND		0.0232	0.00541	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1260	ND		0.0232	0.00500	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1
PCB-1268	ND		0.0232	0.00495	mg/Kg	☼	03/09/23 15:27	03/11/23 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*03/09/23 15:27*	*03/11/23 11:54*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoroheptanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorononanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorodecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorotridecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorotetradecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorobutanesulfonic acid	ND		2.14	0.428	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorohexanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NEtFOSAA	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NMeFOSAA	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
10:2 FTS	ND		2.14	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoropentanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoroheptanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorononanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorodecanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctanesulfonamide	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorohexadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorooctadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorobutanoic acid	ND		2.14	0.857	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoropentanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NMeFOSE	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NMeFOSA	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NEtFOSE	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
NEtFOSA	ND		2.14	0.535	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
HFPODA	ND		2.14	1.07	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
DONA	ND		3.21	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
9Cl-PF3ONS	ND		2.14	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
11Cl-PF3OUdS	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluorododecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
4:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
Perfluoroundecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-07 **Lab Sample ID: 620-10117-32**
Date Collected: 03/03/23 08:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1
8:2 Fluorotelomer sulfonic acid	ND		3.21	0.642	ug/Kg	☼	03/07/23 18:02	03/16/23 06:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*116*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
M2-8:2 FTS	*129*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
M2-6:2 FTS	*132*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C5 PFHxA	*134*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C4 PFHpA	*134*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C8 PFOA	*137*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C9 PFNA	*137*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C6 PFDA	*133*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C7 PFUnA	*140*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C2-PFDoDA	*137*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C2 PFTeDA	*164*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C3 PFBS	*137*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C3 PFHxS	*138*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C8 PFOS	*132*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d3-NMeFOSAA	*98*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d5-NEtFOSAA	*105*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C8 FOSA	*123*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C4 PFBA	*131*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C5 PFPeA	*131*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d7-N-MeFOSE-M	*131*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d3-NMePFOSA	*119*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d9-N-EtFOSE-M	*138*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
d5-NEtPFOSA	*122*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:20*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:20*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.09	1.39	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Arsenic	**1.66**	**J**	2.45	1.15	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Barium	**20.6**		0.409	0.123	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Beryllium	**0.280**	**J**	0.409	0.0818	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Cadmium	ND		0.409	0.0818	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Chromium	**6.28**		1.23	0.286	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Lead	**2.90**		1.23	0.491	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Nickel	**3.93**		0.818	0.213	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Selenium	ND		4.09	1.23	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Silver	ND	^3+	0.818	0.327	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Thallium	ND		2.45	1.06	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Vanadium	**9.14**		0.818	0.352	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1
Zinc	**64.0**		1.64	0.654	mg/Kg	☼	03/07/23 13:12	03/09/23 08:35	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0662	0.0221	mg/Kg	☼	03/07/23 13:21	03/08/23 11:30	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-FD-07
Date Collected: 03/03/23 08:05
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-32
Matrix: Solid
Percent Solids: 84.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.1		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	84.9		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0002'
Date Collected: 03/03/23 11:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-33
Matrix: Solid
Percent Solids: 85.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00541	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Acetone	ND		0.0541	0.0121	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Acrylonitrile	ND		0.00541	0.00325	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Benzene	ND		0.00541	0.00361	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromobenzene	ND		0.00541	0.00360	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromochloromethane	ND		0.00541	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromodichloromethane	ND		0.00541	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromoform	ND		0.00541	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Bromomethane	ND		0.0108	0.00674	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2-Butanone (MEK)	ND		0.0108	0.00431	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
n-Butylbenzene	ND		0.0108	0.00580	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
sec-Butylbenzene	ND		0.00541	0.00436	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
tert-Butylbenzene	ND		0.00541	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Carbon disulfide	ND		0.0108	0.00380	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Carbon tetrachloride	ND		0.00541	0.00341	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chlorobenzene	ND		0.00541	0.00396	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chloroethane	ND		0.0108	0.00397	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chloroform	ND		0.00541	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Chloromethane	ND		0.0108	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2-Chlorotoluene	ND		0.00541	0.00431	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
4-Chlorotoluene	ND		0.00541	0.00470	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dibromo-3-Chloropropane	ND		0.0108	0.00459	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Dibromochloromethane	ND		0.00541	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dibromoethane (EDB)	ND		0.00541	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Dibromomethane	ND		0.00541	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dichlorobenzene	ND		0.00541	0.00502	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3-Dichlorobenzene	ND		0.00541	0.00434	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,4-Dichlorobenzene	ND		0.00541	0.00513	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0108	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1-Dichloroethane	ND		0.00541	0.00367	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dichloroethane	ND		0.00541	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1-Dichloroethene	ND		0.00541	0.00331	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
cis-1,2-Dichloroethene	ND		0.00541	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
trans-1,2-Dichloroethene	ND		0.00541	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2-Dichloropropane	ND		0.00541	0.00358	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3-Dichloropropane	ND		0.00541	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2,2-Dichloropropane	ND		0.00541	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1-Dichloropropene	ND		0.00541	0.00368	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
cis-1,3-Dichloropropene	ND		0.00541	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
trans-1,3-Dichloropropene	ND		0.00541	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethylbenzene	ND		0.00541	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Hexachlorobutadiene	ND		0.0108	0.00544	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
2-Hexanone (MBK)	ND		0.0108	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Isopropylbenzene	ND		0.00541	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
4-Isopropyltoluene	ND		0.00541	0.00531	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Methyl tert-butyl ether	ND		0.00541	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.0108	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Methylene Chloride	ND		0.0108	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Naphthalene	ND		0.00541	0.00489	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00541	0.00458	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Styrene	ND		0.00541	0.00419	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,1,2-Tetrachloroethane	ND		0.00541	0.00406	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,2,2-Tetrachloroethane	ND		0.00541	0.00496	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Tetrachloroethene	ND		0.00541	0.00301	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Toluene	ND		0.00541	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,3-Trichlorobenzene	ND		0.00541	0.00457	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,4-Trichlorobenzene	ND		0.00541	0.00499	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3,5-Trichlorobenzene	ND		0.00541	0.00514	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,1-Trichloroethane	ND		0.00541	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,1,2-Trichloroethane	ND		0.00541	0.00408	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Trichloroethene	ND		0.00541	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Trichlorofluoromethane (Freon 11)	ND		0.00541	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,3-Trichloropropane	ND		0.00541	0.00481	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,2,4-Trimethylbenzene	ND		0.00541	0.00458	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3,5-Trimethylbenzene	ND		0.00541	0.00460	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Vinyl chloride	ND		0.00541	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
m,p-Xylene	ND		0.00541	0.00739	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
o-Xylene	ND		0.00541	0.00395	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Tetrahydrofuran	ND		0.0108	0.00274	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethyl ether	ND		0.00541	0.00285	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Tert-amyl methyl ether	ND		0.00541	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethyl tert-butyl ether	ND		0.00541	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
di-Isopropyl ether	ND		0.00541	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
tert-Butanol	ND		0.108	0.0290	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,4-Dioxane	ND		0.108	0.0337	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
trans-1,4-Dichloro-2-butene	ND		0.0271	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Ethanol	ND		1.08	0.0671	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
1,3-Dichloropropene, Total	ND		0.00541	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1
Xylenes, Total	ND		0.0162	0.00541	mg/Kg	☼	03/09/23 13:37	03/09/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:09*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.750	0.133	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,2,4-Trichlorobenzene	ND		0.750	0.172	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,2-Dichlorobenzene	ND		0.750	0.145	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,3-Dichlorobenzene	ND		0.750	0.182	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1,4-Dichlorobenzene	ND		0.750	0.177	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
1-Methylnaphthalene	ND		0.152	0.127	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4,5-Trichlorophenol	ND		0.750	0.0859	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4,6-Trichlorophenol	ND		0.380	0.0927	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4-Dichlorophenol	ND		0.380	0.151	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4-Dimethylphenol	ND		0.750	0.110	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,4-Dinitrophenol	ND		0.750	0.197	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0002'
Date Collected: 03/03/23 11:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-33
Matrix: Solid
Percent Solids: 85.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.380	0.0889	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2,6-Dinitrotoluene	ND		0.380	0.0889	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Chloronaphthalene	ND		0.750	0.173	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Chlorophenol	ND		0.380	0.155	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Methylnaphthalene	ND		0.152	0.112	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Methylphenol	ND		0.750	0.110	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Nitroaniline	ND		0.750	0.0714	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
2-Nitrophenol	ND		0.380	0.135	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
3 & 4 Methylphenol	ND		0.750	0.142	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
3,3'-Dichlorobenzidine	ND		0.750	0.124	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
3-Nitroaniline	ND		0.750	0.0671	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4,6-Dinitro-2-methylphenol	ND		0.750	0.135	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Bromophenyl phenyl ether	ND		0.750	0.0848	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Chloro-3-methylphenol	ND		0.750	0.147	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Chloroaniline	ND		0.380	0.0575	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Chlorophenyl phenyl ether	ND		0.750	0.0802	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Nitroaniline	ND		0.380	0.120	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
4-Nitrophenol	ND		0.750	0.261	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Acenaphthene	ND		0.152	0.121	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Acenaphthylene	ND		0.152	0.0996	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Acetophenone	ND		0.380	0.0925	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Aniline	ND		0.750	0.0575	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Anthracene	ND		0.152	0.0877	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Azobenzene/Diphenyldiazene	ND		0.750	0.128	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzidine	ND		1.50	0.222	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[a]anthracene	ND		0.152	0.0852	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[a]pyrene	ND		0.152	0.108	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[b]fluoranthene	ND		0.152	0.126	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[g,h,i]perylene	ND		0.152	0.118	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzo[k]fluoranthene	ND		0.152	0.118	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzoic acid	ND		0.750	0.516	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Benzyl alcohol	ND		0.750	0.136	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Bis(2-chloroethoxy)methane	ND		0.750	0.130	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Bis(2-chloroethyl)ether	ND		0.380	0.124	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
bis (2-chloroisopropyl) ether	ND		0.380	0.169	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Bis(2-ethylhexyl) phthalate	**5.78**		0.380	0.0966	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Butyl benzyl phthalate	**0.967**		0.750	0.0752	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Carbazole	ND		0.380	0.0993	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Chrysene	ND		0.152	0.0857	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Dibenz(a,h)anthracene	ND		0.152	0.116	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Dibenzofuran	ND		0.380	0.131	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Diethyl phthalate	ND		0.750	0.0823	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Dimethyl phthalate	ND		0.750	0.0977	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Di-n-butyl phthalate	**0.587**	**J**	0.750	0.0802	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Di-n-octyl phthalate	ND		0.750	0.124	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Fluoranthene	ND		0.152	0.0889	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Fluorene	ND		0.152	0.138	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Hexachlorobenzene	ND		0.380	0.105	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Hexachlorobutadiene	ND		0.380	0.189	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.380	0.145	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Hexachloroethane	ND		0.380	0.149	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Indeno[1,2,3-cd]pyrene	ND		0.152	0.129	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Isophorone	ND		0.380	0.104	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Naphthalene	ND		0.152	0.145	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Nitrobenzene	ND		0.380	0.175	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
N-Nitrosodimethylamine	ND		0.380	0.0996	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
N-Nitrosodi-n-propylamine	ND		0.380	0.151	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
N-Nitrosodiphenylamine	ND		0.750	0.0957	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pentachloronitrobenzene	ND		0.750	0.118	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pentachlorophenol	ND		0.750	0.307	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Phenanthrene	ND		0.152	0.0859	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Phenol	ND		0.750	0.155	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pyrene	ND		0.152	0.0836	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1
Pyridine	ND		0.750	0.178	mg/Kg	☼	03/14/23 10:48	03/17/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*30 - 130*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/14/23 10:48*	*03/17/23 17:37*	*1*
Terphenyl-d14	*64*		*30 - 130*	*03/14/23 10:48*	*03/17/23 17:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.297	0.152	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.297	0.127	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Ethylbenzene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Methyl tert-butyl ether	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
m,p-Xylene	ND		0.119	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Naphthalene	ND		0.0594	0.0404	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
o-Xylene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
Toluene	ND		0.0594	0.0119	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
C5-C8 Aliphatics (unadjusted)	ND		0.297	0.152	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
C9-C10 Aromatics	**0.0587**	**J**	0.297	0.0416	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1
C9-C12 Aliphatics (unadjusted)	**0.176**	**J**	0.297	0.127	mg/Kg	☼	03/08/23 06:56	03/08/23 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:58*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 23:58*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.14	0.821	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1221	ND		1.14	0.337	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1232	ND		1.14	0.316	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		1.14	0.180	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1248	ND		1.14	0.356	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1254	**23.5**		1.14	0.886	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1262	ND		1.14	0.265	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1260	ND		1.14	0.245	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50
PCB-1268	ND		1.14	0.243	mg/Kg	☼	03/09/23 15:27	03/13/23 15:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 15:59*	*50*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoroheptanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorononanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorodecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorotridecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorotetradecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorobutanesulfonic acid	ND		2.27	0.454	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorohexanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NEtFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NMeFOSAA	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
10:2 FTS	ND		2.27	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoropentanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoroheptanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorononanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorodecanesulfonic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctanesulfonamide	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorohexadecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorooctadecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorobutanoic acid	ND		2.27	0.908	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoropentanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NMeFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NMeFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NEtFOSE	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
NEtFOSA	ND		2.27	0.567	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
HFPODA	ND		2.27	1.13	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
DONA	ND		3.40	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
9Cl-PF3ONS	ND		2.27	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
11Cl-PF3OUdS	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluorododecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
4:2 Fluorotelomer sulfonic acid	ND		2.27	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
Perfluoroundecanoic acid	ND		0.681	0.227	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-0002' **Lab Sample ID: 620-10117-33**
Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.27	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1
8:2 Fluorotelomer sulfonic acid	ND		3.40	0.681	ug/Kg	☼	03/07/23 18:02	03/16/23 06:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
M2-8:2 FTS	*127*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
M2-6:2 FTS	*127*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C5 PFHxA	*113*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C4 PFHpA	*120*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C8 PFOA	*126*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C9 PFNA	*119*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C6 PFDA	*121*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C7 PFUnA	*133*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C2-PFDoDA	*121*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C2 PFTeDA	*156*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C3 PFHxS	*123*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C8 PFOS	*122*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d3-NMeFOSAA	*78*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d5-NEtFOSAA	*86*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C4 PFBA	*111*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d7-N-MeFOSE-M	*122*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d3-NMePFOSA	*95*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d9-N-EtFOSE-M	*128*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
d5-NEtPFOSA	*105*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:32*	*1*
13C3 HFPO-DA	*91*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.73	1.95	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Arsenic	**1.78**	**J**	3.44	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Barium	**130**		0.573	0.172	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Beryllium	**0.177**	**J**	0.573	0.115	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Cadmium	ND		0.573	0.115	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Chromium	**2.35**		1.72	0.401	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Lead	**13.4**		1.72	0.687	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Nickel	**1.16**		1.15	0.298	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Selenium	ND		5.73	1.72	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Silver	ND	^3+	1.15	0.458	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Thallium	ND		3.44	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Vanadium	**3.76**		1.15	0.493	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1
Zinc	**85.7**		2.29	0.917	mg/Kg	☼	03/07/23 13:12	03/09/23 09:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0690	0.0230	mg/Kg	☼	03/07/23 13:21	03/08/23 11:36	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0002'
Date Collected: 03/03/23 11:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-33
Matrix: Solid
Percent Solids: 85.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.4		0.1	0.1	%			03/06/23 11:08	1
Percent Solids (EPA Moisture)	85.6		0.1	0.1	%			03/06/23 11:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0204'
Date Collected: 03/03/23 11:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-34
Matrix: Solid
Percent Solids: 82.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00560	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Acetone	ND		0.0560	0.0125	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Acrylonitrile	ND		0.00560	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Benzene	ND		0.00560	0.00374	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromobenzene	ND		0.00560	0.00373	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromochloromethane	ND		0.00560	0.00318	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromodichloromethane	ND		0.00560	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromoform	ND		0.00560	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Bromomethane	ND		0.0112	0.00698	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2-Butanone (MEK)	ND		0.0112	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
n-Butylbenzene	ND		0.0112	0.00600	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
sec-Butylbenzene	ND		0.00560	0.00451	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
tert-Butylbenzene	ND		0.00560	0.00441	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Carbon disulfide	ND		0.0112	0.00393	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Carbon tetrachloride	ND		0.00560	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chlorobenzene	ND		0.00560	0.00410	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chloroethane	ND		0.0112	0.00411	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chloroform	ND		0.00560	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Chloromethane	ND		0.0112	0.00430	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2-Chlorotoluene	ND		0.00560	0.00446	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
4-Chlorotoluene	ND		0.00560	0.00486	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dibromo-3-Chloropropane	ND		0.0112	0.00475	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Dibromochloromethane	ND		0.00560	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dibromoethane (EDB)	ND		0.00560	0.00402	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Dibromomethane	ND		0.00560	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dichlorobenzene	ND		0.00560	0.00520	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3-Dichlorobenzene	ND		0.00560	0.00449	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,4-Dichlorobenzene	ND		0.00560	0.00531	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0112	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1-Dichloroethane	ND		0.00560	0.00380	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dichloroethane	ND		0.00560	0.00377	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1-Dichloroethene	ND		0.00560	0.00343	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
cis-1,2-Dichloroethene	ND		0.00560	0.00324	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
trans-1,2-Dichloroethene	ND		0.00560	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2-Dichloropropane	ND		0.00560	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3-Dichloropropane	ND		0.00560	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2,2-Dichloropropane	ND		0.00560	0.00386	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1-Dichloropropene	ND		0.00560	0.00381	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
cis-1,3-Dichloropropene	ND		0.00560	0.00365	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
trans-1,3-Dichloropropene	ND		0.00560	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethylbenzene	ND		0.00560	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Hexachlorobutadiene	ND		0.0112	0.00563	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
2-Hexanone (MBK)	ND		0.0112	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Isopropylbenzene	ND		0.00560	0.00423	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
4-Isopropyltoluene	ND		0.00560	0.00550	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Methyl tert-butyl ether	ND		0.00560	0.00322	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.0112	0.00362	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Methylene Chloride	ND		0.0112	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Naphthalene	ND		0.00560	0.00506	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00560	0.00474	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Styrene	ND		0.00560	0.00433	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,1,2-Tetrachloroethane	ND		0.00560	0.00420	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,2,2-Tetrachloroethane	ND		0.00560	0.00513	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Tetrachloroethene	ND		0.00560	0.00311	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Toluene	ND		0.00560	0.00355	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,3-Trichlorobenzene	ND		0.00560	0.00473	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,4-Trichlorobenzene	ND		0.00560	0.00516	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3,5-Trichlorobenzene	ND		0.00560	0.00532	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,1-Trichloroethane	ND		0.00560	0.00382	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,1,2-Trichloroethane	ND		0.00560	0.00422	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Trichloroethene	ND		0.00560	0.00376	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Trichlorofluoromethane (Freon 11)	ND		0.00560	0.00428	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,3-Trichloropropane	ND		0.00560	0.00497	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,2,4-Trimethylbenzene	ND		0.00560	0.00474	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3,5-Trimethylbenzene	ND		0.00560	0.00476	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Vinyl chloride	ND		0.00560	0.00342	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
m,p-Xylene	ND		0.00560	0.00765	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
o-Xylene	ND		0.00560	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Tetrahydrofuran	ND		0.0112	0.00283	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethyl ether	ND		0.00560	0.00294	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Tert-amyl methyl ether	ND		0.00560	0.00442	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethyl tert-butyl ether	ND		0.00560	0.00368	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
di-Isopropyl ether	ND		0.00560	0.00400	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
tert-Butanol	ND		0.112	0.0300	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,4-Dioxane	ND		0.112	0.0348	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
trans-1,4-Dichloro-2-butene	ND		0.0280	0.00413	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Ethanol	ND		1.12	0.0694	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
1,3-Dichloropropene, Total	ND		0.00560	0.00426	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1
Xylenes, Total	ND		0.0168	0.00560	mg/Kg	☼	03/09/23 13:37	03/09/23 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 21:35*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.387	0.0689	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,2,4-Trichlorobenzene	ND		0.387	0.0887	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,2-Dichlorobenzene	ND		0.387	0.0746	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,3-Dichlorobenzene	ND		0.387	0.0937	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1,4-Dichlorobenzene	ND		0.387	0.0912	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
1-Methylnaphthalene	ND		0.0782	0.0657	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4,5-Trichlorophenol	ND		0.387	0.0443	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4,6-Trichlorophenol	ND		0.196	0.0479	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4-Dichlorophenol	ND		0.196	0.0780	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4-Dimethylphenol	ND		0.387	0.0568	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,4-Dinitrophenol	ND		0.387	0.102	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0204'
Date Collected: 03/03/23 11:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-34
Matrix: Solid
Percent Solids: 82.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.196	0.0459	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2,6-Dinitrotoluene	ND		0.196	0.0459	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Chloronaphthalene	ND		0.387	0.0895	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Chlorophenol	ND		0.196	0.0801	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Methylnaphthalene	ND		0.0782	0.0578	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Methylphenol	ND		0.387	0.0565	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Nitroaniline	ND		0.387	0.0368	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
2-Nitrophenol	ND		0.196	0.0696	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
3 & 4 Methylphenol	ND		0.387	0.0733	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
3,3'-Dichlorobenzidine	ND		0.387	0.0639	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
3-Nitroaniline	ND		0.387	0.0346	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4,6-Dinitro-2-methylphenol	ND		0.387	0.0696	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Bromophenyl phenyl ether	ND		0.387	0.0438	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Chloro-3-methylphenol	ND		0.387	0.0758	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Chloroaniline	ND		0.196	0.0297	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Chlorophenyl phenyl ether	ND		0.387	0.0414	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Nitroaniline	ND		0.196	0.0618	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
4-Nitrophenol	ND		0.387	0.135	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Acenaphthene	ND		0.0782	0.0624	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Acenaphthylene	ND		0.0782	0.0514	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Acetophenone	ND		0.196	0.0477	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Aniline	ND		0.387	0.0297	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Anthracene	ND		0.0782	0.0453	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Azobenzene/Diphenyldiazene	ND		0.387	0.0660	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzidine	ND		0.774	0.115	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[a]anthracene	ND		0.0782	0.0440	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[a]pyrene	ND		0.0782	0.0560	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[b]fluoranthene	ND		0.0782	0.0649	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[g,h,i]perylene	ND		0.0782	0.0611	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzo[k]fluoranthene	ND		0.0782	0.0609	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzoic acid	ND		0.387	0.266	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Benzyl alcohol	ND		0.387	0.0702	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Bis(2-chloroethoxy)methane	ND		0.387	0.0673	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Bis(2-chloroethyl)ether	ND		0.196	0.0641	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
bis (2-chloroisopropyl) ether	ND		0.196	0.0872	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Bis(2-ethylhexyl) phthalate	**11.6**		1.96	0.499	mg/Kg	☼	03/15/23 09:29	03/17/23 19:01	10
Butyl benzyl phthalate	**1.99**		0.387	0.0388	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Carbazole	ND		0.196	0.0513	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Chrysene	ND		0.0782	0.0442	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Dibenz(a,h)anthracene	ND		0.0782	0.0597	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Dibenzofuran	ND		0.196	0.0678	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Diethyl phthalate	ND		0.387	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Dimethyl phthalate	ND		0.387	0.0504	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Di-n-butyl phthalate	**0.717**		0.387	0.0414	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Di-n-octyl phthalate	ND		0.387	0.0639	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Fluoranthene	ND		0.0782	0.0459	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Fluorene	ND		0.0782	0.0714	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Hexachlorobenzene	ND		0.196	0.0543	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Hexachlorobutadiene	ND		0.196	0.0977	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.196	0.0748	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Hexachloroethane	ND		0.196	0.0770	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0782	0.0664	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Isophorone	ND		0.196	0.0536	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Naphthalene	ND		0.0782	0.0751	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Nitrobenzene	ND		0.196	0.0905	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
N-Nitrosodimethylamine	ND		0.196	0.0514	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
N-Nitrosodi-n-propylamine	ND		0.196	0.0780	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
N-Nitrosodiphenylamine	ND		0.387	0.0494	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pentachloronitrobenzene	ND		0.387	0.0611	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pentachlorophenol	ND		0.387	0.158	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Phenanthrene	ND		0.0782	0.0443	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Phenol	ND		0.387	0.0798	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pyrene	ND		0.0782	0.0432	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1
Pyridine	ND		0.387	0.0916	mg/Kg	☼	03/15/23 09:29	03/16/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*30 - 130*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
2-Fluorobiphenyl (Surr)	*57*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
2-Fluorophenol (Surr)	*65*		*15 - 110*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
2-Fluorophenol (Surr)	*68*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
Phenol-d5 (Surr)	*56*		*15 - 110*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
Phenol-d5 (Surr)	*59*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:01*	*10*
Terphenyl-d14	*92*		*30 - 130*	*03/15/23 09:29*	*03/16/23 18:56*	*1*
Terphenyl-d14	*56*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:01*	*10*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.269	0.138	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.269	0.115	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Ethylbenzene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Methyl tert-butyl ether	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
m,p-Xylene	ND		0.108	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Naphthalene	ND		0.0538	0.0366	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
o-Xylene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
Toluene	ND		0.0538	0.0108	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
C5-C8 Aliphatics (unadjusted)	ND		0.269	0.138	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
C9-C10 Aromatics	ND		0.269	0.0377	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1
C9-C12 Aliphatics (unadjusted)	ND		0.269	0.115	mg/Kg	☼	03/08/23 06:56	03/09/23 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/09/23 00:37*	*1*

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/09/23 00:37*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.17	0.844	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1221	ND		1.17	0.346	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1232	ND		1.17	0.325	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1242	ND		1.17	0.185	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1248	ND		1.17	0.366	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1254	**34.8**		1.17	0.912	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1262	ND		1.17	0.273	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1260	ND		1.17	0.252	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50
PCB-1268	ND		1.17	0.250	mg/Kg	☼	03/09/23 15:27	03/13/23 16:16	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/09/23 15:27*	*03/13/23 16:16*	*50*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoroheptanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorononanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorodecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorotridecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorotetradecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorobutanesulfonic acid	ND		2.32	0.464	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorohexanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NEtFOSAA	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NMeFOSAA	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
10:2 FTS	ND		2.32	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoropentanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoroheptanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorononanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorodecanesulfonic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctanesulfonamide	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorohexadecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorooctadecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorobutanoic acid	ND		2.32	0.928	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoropentanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NMeFOSE	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NMeFOSA	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NEtFOSE	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
NEtFOSA	ND		2.32	0.580	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1

Client Sample ID: 2023-SB-06-0204' **Lab Sample ID: 620-10117-34**
Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.32	1.16	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
DONA	ND		3.48	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
9Cl-PF3ONS	ND		2.32	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
11Cl-PF3OUdS	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluorododecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
4:2 Fluorotelomer sulfonic acid	ND		2.32	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
Perfluoroundecanoic acid	ND		0.696	0.232	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
6:2 Fluorotelomer sulfonic acid	ND		2.32	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1
8:2 Fluorotelomer sulfonic acid	ND		3.48	0.696	ug/Kg	☼	03/07/23 18:02	03/16/23 06:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
M2-8:2 FTS	*118*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C4 PFHpA	*120*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C8 PFOA	*129*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C9 PFNA	*125*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C6 PFDA	*123*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C7 PFUnA	*134*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C2-PFDoDA	*131*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C2 PFTeDA	*146*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C3 PFBS	*132*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C3 PFHxS	*120*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C8 PFOS	*126*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d3-NMeFOSAA	*44*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d5-NEtFOSAA	*52*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C4 PFBA	*124*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C5 PFPeA	*118*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d3-NMePFOSA	*112*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d9-N-EtFOSE-M	*134*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
d5-NEtPFOSA	*119*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:43*	*1*
13C3 HFPO-DA	*97*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.48	1.86	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Arsenic	**1.90**	**J**	3.29	1.54	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Barium	**225**		0.548	0.165	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Beryllium	**0.255**	**J**	0.548	0.110	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Cadmium	ND		0.548	0.110	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Chromium	**4.27**		1.65	0.384	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Lead	**27.8**		1.65	0.658	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Nickel	**1.94**		1.10	0.285	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Selenium	ND		5.48	1.65	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Silver	ND	^3+	1.10	0.439	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Thallium	ND		3.29	1.43	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1
Vanadium	**6.47**		1.10	0.472	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0204'
Date Collected: 03/03/23 11:40
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-34
Matrix: Solid
Percent Solids: 82.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	125		2.19	0.878	mg/Kg	☼	03/07/23 13:12	03/09/23 09:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0701	0.0234	mg/Kg	☼	03/07/23 13:21	03/08/23 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.1		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	82.9		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0406'
Date Collected: 03/03/23 11:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-35
Matrix: Solid
Percent Solids: 86.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00460	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Acetone	ND		0.0460	0.0103	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Acrylonitrile	ND		0.00460	0.00276	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Benzene	ND		0.00460	0.00307	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromobenzene	ND		0.00460	0.00306	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromochloromethane	ND		0.00460	0.00261	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromodichloromethane	ND		0.00460	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromoform	ND		0.00460	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Bromomethane	ND		0.00920	0.00573	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2-Butanone (MEK)	ND		0.00920	0.00366	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
n-Butylbenzene	ND		0.00920	0.00493	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
sec-Butylbenzene	ND		0.00460	0.00371	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
tert-Butylbenzene	ND		0.00460	0.00363	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Carbon disulfide	ND		0.00920	0.00323	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Carbon tetrachloride	ND		0.00460	0.00290	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chlorobenzene	ND		0.00460	0.00337	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chloroethane	ND		0.00920	0.00338	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chloroform	ND		0.00460	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Chloromethane	ND		0.00920	0.00353	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2-Chlorotoluene	ND		0.00460	0.00366	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
4-Chlorotoluene	ND		0.00460	0.00399	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dibromo-3-Chloropropane	ND		0.00920	0.00390	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Dibromochloromethane	ND		0.00460	0.00305	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dibromoethane (EDB)	ND		0.00460	0.00330	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Dibromomethane	ND		0.00460	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dichlorobenzene	ND		0.00460	0.00427	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3-Dichlorobenzene	ND		0.00460	0.00369	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,4-Dichlorobenzene	ND		0.00460	0.00436	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00920	0.00247	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1-Dichloroethane	ND		0.00460	0.00312	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dichloroethane	ND		0.00460	0.00310	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1-Dichloroethene	ND		0.00460	0.00282	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
cis-1,2-Dichloroethene	ND		0.00460	0.00266	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
trans-1,2-Dichloroethene	ND		0.00460	0.00286	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2-Dichloropropane	ND		0.00460	0.00305	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3-Dichloropropane	ND		0.00460	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2,2-Dichloropropane	ND		0.00460	0.00317	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1-Dichloropropene	ND		0.00460	0.00313	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
cis-1,3-Dichloropropene	ND		0.00460	0.00300	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
trans-1,3-Dichloropropene	ND		0.00460	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethylbenzene	ND		0.00460	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Hexachlorobutadiene	ND		0.00920	0.00463	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
2-Hexanone (MBK)	ND		0.00920	0.00271	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Isopropylbenzene	ND		0.00460	0.00348	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
4-Isopropyltoluene	ND		0.00460	0.00452	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Methyl tert-butyl ether	ND		0.00460	0.00265	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
4-Methyl-2-pentanone (MIBK)	ND		0.00920	0.00297	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Methylene Chloride	ND		0.00920	0.00247	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Naphthalene	ND		0.00460	0.00416	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00460	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Styrene	ND		0.00460	0.00356	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,1,2-Tetrachloroethane	ND		0.00460	0.00345	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,2,2-Tetrachloroethane	ND		0.00460	0.00421	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Tetrachloroethene	ND		0.00460	0.00256	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Toluene	ND		0.00460	0.00292	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,3-Trichlorobenzene	ND		0.00460	0.00388	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,4-Trichlorobenzene	ND		0.00460	0.00424	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3,5-Trichlorobenzene	ND		0.00460	0.00437	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,1-Trichloroethane	ND		0.00460	0.00314	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,1,2-Trichloroethane	ND		0.00460	0.00347	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Trichloroethene	ND		0.00460	0.00309	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Trichlorofluoromethane (Freon 11)	ND		0.00460	0.00352	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,3-Trichloropropane	ND		0.00460	0.00409	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,2,4-Trimethylbenzene	ND		0.00460	0.00389	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3,5-Trimethylbenzene	ND		0.00460	0.00391	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Vinyl chloride	ND		0.00460	0.00281	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
m,p-Xylene	ND		0.00460	0.00629	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
o-Xylene	ND		0.00460	0.00336	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Tetrahydrofuran	ND		0.00920	0.00233	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethyl ether	ND		0.00460	0.00242	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Tert-amyl methyl ether	ND		0.00460	0.00364	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethyl tert-butyl ether	ND		0.00460	0.00303	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
di-Isopropyl ether	ND		0.00460	0.00329	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
tert-Butanol	ND		0.0920	0.0247	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,4-Dioxane	ND		0.0920	0.0286	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
trans-1,4-Dichloro-2-butene	ND		0.0230	0.00340	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Ethanol	ND		0.920	0.0571	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
1,3-Dichloropropene, Total	ND		0.00460	0.00350	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1
Xylenes, Total	ND		0.0138	0.00460	mg/Kg	☼	03/09/23 13:37	03/09/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/09/23 13:37*	*03/09/23 22:01*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.381	0.0678	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,2,4-Trichlorobenzene	ND		0.381	0.0873	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,2-Dichlorobenzene	ND		0.381	0.0734	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,3-Dichlorobenzene	ND		0.381	0.0922	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1,4-Dichlorobenzene	ND		0.381	0.0897	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
1-Methylnaphthalene	ND		0.0770	0.0646	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4,5-Trichlorophenol	ND		0.381	0.0436	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4,6-Trichlorophenol	ND		0.193	0.0471	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4-Dichlorophenol	ND		0.193	0.0768	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4-Dimethylphenol	ND		0.381	0.0559	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,4-Dinitrophenol	ND		0.381	0.100	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0406'
Date Collected: 03/03/23 11:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-35
Matrix: Solid
Percent Solids: 86.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.193	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2,6-Dinitrotoluene	ND		0.193	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Chloronaphthalene	ND		0.381	0.0881	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Chlorophenol	ND		0.193	0.0788	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Methylnaphthalene	ND		0.0770	0.0569	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Methylphenol	ND		0.381	0.0556	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Nitroaniline	ND		0.381	0.0362	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
2-Nitrophenol	ND		0.193	0.0684	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
3 & 4 Methylphenol	ND		0.381	0.0721	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
3,3'-Dichlorobenzidine	ND		0.381	0.0629	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
3-Nitroaniline	ND		0.381	0.0340	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4,6-Dinitro-2-methylphenol	ND		0.381	0.0684	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Bromophenyl phenyl ether	ND		0.381	0.0431	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Chloro-3-methylphenol	ND		0.381	0.0746	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Chloroaniline	ND		0.193	0.0292	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Chlorophenyl phenyl ether	ND		0.381	0.0407	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Nitroaniline	ND		0.193	0.0608	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
4-Nitrophenol	ND		0.381	0.133	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Acenaphthene	ND		0.0770	0.0614	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Acenaphthylene	ND		0.0770	0.0506	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Acetophenone	ND		0.193	0.0470	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Aniline	ND		0.381	0.0292	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Anthracene	ND		0.0770	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Azobenzene/Diphenyldiazene	ND		0.381	0.0650	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzidine	ND		0.762	0.113	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[a]anthracene	ND		0.0770	0.0433	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[a]pyrene	ND		0.0770	0.0551	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[b]fluoranthene	ND		0.0770	0.0638	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[g,h,i]perylene	ND		0.0770	0.0601	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzo[k]fluoranthene	ND		0.0770	0.0599	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzoic acid	ND		0.381	0.262	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Benzyl alcohol	ND		0.381	0.0690	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Bis(2-chloroethoxy)methane	ND		0.381	0.0663	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Bis(2-chloroethyl)ether	ND		0.193	0.0630	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
bis (2-chloroisopropyl) ether	ND		0.193	0.0858	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Bis(2-ethylhexyl) phthalate	ND		0.193	0.0491	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Butyl benzyl phthalate	ND		0.381	0.0382	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Carbazole	ND		0.193	0.0504	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Chrysene	ND		0.0770	0.0435	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Dibenz(a,h)anthracene	ND		0.0770	0.0587	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Dibenzofuran	ND		0.193	0.0667	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Diethyl phthalate	ND		0.381	0.0418	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Dimethyl phthalate	ND		0.381	0.0496	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Di-n-butyl phthalate	ND		0.381	0.0407	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Di-n-octyl phthalate	ND		0.381	0.0629	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Fluoranthene	ND		0.0770	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Fluorene	ND		0.0770	0.0703	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Hexachlorobenzene	ND		0.193	0.0534	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Hexachlorobutadiene	ND		0.193	0.0961	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.193	0.0736	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Hexachloroethane	ND		0.193	0.0757	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0770	0.0653	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Isophorone	ND		0.193	0.0527	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Naphthalene	ND		0.0770	0.0739	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Nitrobenzene	ND		0.193	0.0890	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
N-Nitrosodimethylamine	ND		0.193	0.0506	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
N-Nitrosodi-n-propylamine	ND		0.193	0.0768	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
N-Nitrosodiphenylamine	ND		0.381	0.0486	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pentachloronitrobenzene	ND		0.381	0.0601	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pentachlorophenol	ND		0.381	0.156	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Phenanthrene	ND		0.0770	0.0436	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Phenol	ND		0.381	0.0785	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pyrene	ND		0.0770	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1
Pyridine	ND		0.381	0.0901	mg/Kg	☼	03/15/23 09:29	03/16/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
2-Fluorophenol (Surr)	*98*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
Phenol-d5 (Surr)	*71*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:24*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:24*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.247	0.126	mg/Kg			03/09/23 09:00	1
C9-C12 Aliphatics (adjusted)	ND		0.247	0.106	mg/Kg			03/09/23 09:00	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Ethylbenzene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Methyl tert-butyl ether	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
m,p-Xylene	ND		0.0988	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Naphthalene	ND		0.0494	0.0336	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
o-Xylene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
Toluene	ND		0.0494	0.00988	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.247	0.126	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
C9-C10 Aromatics	ND		0.247	0.0346	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.247	0.106	mg/Kg	☼	03/08/23 06:56	03/09/23 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/09/23 01:16*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/08/23 06:56*	*03/09/23 01:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1232	ND		0.0230	0.00637	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1254	**0.115**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	03/09/23 15:27	03/14/23 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*
Tetrachloro-m-xylene	*88*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:31*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoroheptanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorononanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorodecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorotridecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorotetradecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorobutanesulfonic acid	ND		2.10	0.421	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorohexanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NEtFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NMeFOSAA	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
10:2 FTS	ND		2.10	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoropentanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoroheptanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorononanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorodecanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctanesulfonamide	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorohexadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorooctadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorobutanoic acid	ND		2.10	0.841	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoropentanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NMeFOSE	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NMeFOSA	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NEtFOSE	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
NEtFOSA	ND		2.10	0.526	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
HFPODA	ND		2.10	1.05	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
DONA	ND		3.15	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
9Cl-PF3ONS	ND		2.10	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
11Cl-PF3OUdS	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluorododecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
4:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
Perfluoroundecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1

Client Sample ID: 2023-SB-06-0406' **Lab Sample ID: 620-10117-35**
Date Collected: 03/03/23 11:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1
8:2 Fluorotelomer sulfonic acid	ND		3.15	0.631	ug/Kg	☼	03/07/23 18:02	03/16/23 06:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
M2-8:2 FTS	*106*		*15 - 200*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
M2-6:2 FTS	*112*		*10 - 200*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C5 PFHxA	*112*		*10 - 174*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C6 PFDA	*113*		*26 - 161*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C7 PFUnA	*125*		*12 - 173*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C3 PFBS	*123*		*27 - 179*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C8 PFOS	*119*		*41 - 154*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d3-NMeFOSAA	*77*		*10 - 178*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d5-NEtFOSAA	*85*		*10 - 193*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C8 FOSA	*105*		*14 - 163*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C4 PFBA	*117*		*28 - 153*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d7-N-MeFOSE-M	*113*		*10 - 179*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
d5-NEtPFOSA	*110*		*10 - 180*	*03/07/23 18:02*	*03/16/23 06:54*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/07/23 18:02*	*03/16/23 06:54*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.93	1.34	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Arsenic	**1.60**	**J**	2.36	1.10	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Barium	**23.5**		0.393	0.118	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Beryllium	**0.325**	**J**	0.393	0.0787	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Cadmium	ND		0.393	0.0787	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Chromium	**6.63**		1.18	0.275	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Lead	**2.90**		1.18	0.472	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Nickel	**3.33**		0.787	0.205	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Selenium	ND		3.93	1.18	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Silver	ND	^3+	0.787	0.315	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Thallium	ND		2.36	1.02	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Vanadium	**10.2**		0.787	0.338	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1
Zinc	**58.8**		1.57	0.629	mg/Kg	☼	03/07/23 13:12	03/09/23 08:19	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0661	0.0220	mg/Kg	☼	03/07/23 13:21	03/08/23 11:16	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0406'
Date Collected: 03/03/23 11:45
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-35
Matrix: Solid
Percent Solids: 86.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.5		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	86.5		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'
Date Collected: 03/03/23 11:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-36
Matrix: Solid
Percent Solids: 85.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Acetone	ND		0.0485	0.0109	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Acrylonitrile	ND		0.00485	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Benzene	ND		0.00485	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromobenzene	ND		0.00485	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromochloromethane	ND		0.00485	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromodichloromethane	ND		0.00485	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromoform	ND		0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Bromomethane	ND	*+	0.00970	0.00604	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2-Butanone (MEK)	ND		0.00970	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
n-Butylbenzene	ND		0.00970	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
sec-Butylbenzene	ND		0.00485	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
tert-Butylbenzene	ND		0.00485	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Carbon disulfide	ND		0.00970	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Carbon tetrachloride	ND		0.00485	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chlorobenzene	ND		0.00485	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chloroethane	ND		0.00970	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chloroform	ND		0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Chloromethane	ND		0.00970	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2-Chlorotoluene	ND		0.00485	0.00386	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
4-Chlorotoluene	ND		0.00485	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dibromo-3-Chloropropane	ND		0.00970	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Dibromochloromethane	ND		0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dibromoethane (EDB)	ND		0.00485	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Dibromomethane	ND		0.00485	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dichlorobenzene	ND		0.00485	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3-Dichlorobenzene	ND		0.00485	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,4-Dichlorobenzene	ND		0.00485	0.00460	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Dichlorodifluoromethane (Freon 12)	ND		0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1-Dichloroethane	ND		0.00485	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dichloroethane	ND		0.00485	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1-Dichloroethene	ND		0.00485	0.00297	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
cis-1,2-Dichloroethene	ND		0.00485	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
trans-1,2-Dichloroethene	ND		0.00485	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2-Dichloropropane	ND		0.00485	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3-Dichloropropane	ND		0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2,2-Dichloropropane	ND		0.00485	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1-Dichloropropene	ND		0.00485	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
cis-1,3-Dichloropropene	ND		0.00485	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
trans-1,3-Dichloropropene	ND		0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethylbenzene	ND		0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Hexachlorobutadiene	ND		0.00970	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
2-Hexanone (MBK)	ND		0.00970	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Isopropylbenzene	ND		0.00485	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
4-Isopropyltoluene	ND		0.00485	0.00476	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Methyl tert-butyl ether	ND		0.00485	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.00970	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Methylene Chloride	ND		0.00970	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Naphthalene	ND		0.00485	0.00438	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Styrene	ND		0.00485	0.00375	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,1,2-Tetrachloroethane	ND		0.00485	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,2,2-Tetrachloroethane	ND		0.00485	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Tetrachloroethene	ND		0.00485	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Toluene	ND		0.00485	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,3-Trichlorobenzene	ND		0.00485	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,4-Trichlorobenzene	ND		0.00485	0.00447	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3,5-Trichlorobenzene	ND		0.00485	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,1-Trichloroethane	ND		0.00485	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,1,2-Trichloroethane	ND		0.00485	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Trichloroethene	ND		0.00485	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Trichlorofluoromethane (Freon 11)	ND		0.00485	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,3-Trichloropropane	ND		0.00485	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,2,4-Trimethylbenzene	ND		0.00485	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3,5-Trimethylbenzene	ND		0.00485	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Vinyl chloride	ND		0.00485	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
m,p-Xylene	ND		0.00485	0.00662	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
o-Xylene	ND		0.00485	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Tetrahydrofuran	ND		0.00970	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethyl ether	ND		0.00485	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Tert-amyl methyl ether	ND		0.00485	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethyl tert-butyl ether	ND		0.00485	0.00319	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
di-Isopropyl ether	ND		0.00485	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
tert-Butanol	ND		0.0970	0.0260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,4-Dioxane	ND		0.0970	0.0302	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00358	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Ethanol	ND		0.970	0.0601	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
1,3-Dichloropropene, Total	ND		0.00485	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1
Xylenes, Total	ND		0.0145	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:25*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.379	0.0674	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,2,4-Trichlorobenzene	ND		0.379	0.0868	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,2-Dichlorobenzene	ND		0.379	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,3-Dichlorobenzene	ND		0.379	0.0917	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1,4-Dichlorobenzene	ND		0.379	0.0892	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
1-Methylnaphthalene	ND		0.0765	0.0643	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4,5-Trichlorophenol	ND		0.379	0.0434	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4,6-Trichlorophenol	ND		0.192	0.0468	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4-Dichlorophenol	ND		0.192	0.0763	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4-Dimethylphenol	ND		0.379	0.0555	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,4-Dinitrophenol	ND		0.379	0.0996	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'
Date Collected: 03/03/23 11:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-36
Matrix: Solid
Percent Solids: 85.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.192	0.0449	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2,6-Dinitrotoluene	ND		0.192	0.0449	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Chloronaphthalene	ND		0.379	0.0876	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Chlorophenol	ND		0.192	0.0784	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Methylnaphthalene	ND		0.0765	0.0566	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Methylphenol	ND		0.379	0.0553	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Nitroaniline	ND		0.379	0.0360	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
2-Nitrophenol	ND		0.192	0.0681	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
3 & 4 Methylphenol	ND		0.379	0.0717	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
3,3'-Dichlorobenzidine	ND		0.379	0.0625	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
3-Nitroaniline	ND		0.379	0.0339	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4,6-Dinitro-2-methylphenol	ND		0.379	0.0681	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Bromophenyl phenyl ether	ND		0.379	0.0428	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Chloro-3-methylphenol	ND		0.379	0.0741	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Chloroaniline	ND		0.192	0.0290	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Chlorophenyl phenyl ether	ND		0.379	0.0405	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Nitroaniline	ND		0.192	0.0605	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
4-Nitrophenol	ND		0.379	0.132	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Acenaphthene	ND		0.0765	0.0611	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Acenaphthylene	ND		0.0765	0.0503	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Acetophenone	ND		0.192	0.0467	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Aniline	ND		0.379	0.0290	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Anthracene	ND		0.0765	0.0443	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Azobenzene/Diphenyldiazene	ND		0.379	0.0646	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzidine	ND		0.757	0.112	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[a]anthracene	ND		0.0765	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[a]pyrene	ND		0.0765	0.0547	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[b]fluoranthene	ND		0.0765	0.0635	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[g,h,i]perylene	ND		0.0765	0.0598	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzo[k]fluoranthene	ND		0.0765	0.0596	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzoic acid	ND		0.379	0.261	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Benzyl alcohol	ND		0.379	0.0686	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Bis(2-chloroethoxy)methane	ND		0.379	0.0659	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Bis(2-chloroethyl)ether	ND		0.192	0.0627	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
bis (2-chloroisopropyl) ether	ND		0.192	0.0853	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Bis(2-ethylhexyl) phthalate	ND		0.192	0.0488	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Butyl benzyl phthalate	ND		0.379	0.0380	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Carbazole	ND		0.192	0.0501	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Chrysene	ND		0.0765	0.0433	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Dibenz(a,h)anthracene	ND		0.0765	0.0584	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Dibenzofuran	ND		0.192	0.0663	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Diethyl phthalate	ND		0.379	0.0415	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Dimethyl phthalate	ND		0.379	0.0493	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Di-n-butyl phthalate	ND		0.379	0.0405	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Di-n-octyl phthalate	ND		0.379	0.0625	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Fluoranthene	ND		0.0765	0.0449	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Fluorene	ND		0.0765	0.0699	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Hexachlorobenzene	ND		0.192	0.0531	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Hexachlorobutadiene	ND		0.192	0.0956	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.192	0.0732	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Hexachloroethane	ND		0.192	0.0753	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Indeno[1,2,3-cd]pyrene	ND		0.0765	0.0650	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Isophorone	ND		0.192	0.0524	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Naphthalene	ND		0.0765	0.0734	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Nitrobenzene	ND		0.192	0.0885	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
N-Nitrosodimethylamine	ND		0.192	0.0503	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
N-Nitrosodi-n-propylamine	ND		0.192	0.0763	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
N-Nitrosodiphenylamine	ND		0.379	0.0483	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pentachloronitrobenzene	ND		0.379	0.0598	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pentachlorophenol	ND		0.379	0.155	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Phenanthrene	ND		0.0765	0.0434	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Phenol	ND		0.379	0.0780	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pyrene	ND		0.0765	0.0422	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1
Pyridine	ND		0.379	0.0896	mg/Kg	☼	03/15/23 09:29	03/16/23 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
Nitrobenzene-d5 (Surr)	*90*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/15/23 09:29*	*03/16/23 19:52*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/15/23 09:29*	*03/16/23 19:52*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Ethylbenzene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Methyl tert-butyl ether	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Naphthalene	**0.0373**	**J B**	0.0519	0.0353	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
o-Xylene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
Toluene	ND		0.0519	0.0104	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
C9-C10 Aromatics	ND		0.260	0.0363	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/09/23 07:17	03/09/23 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:19*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:19*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1221	ND		0.0225	0.00666	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1232	ND		0.0225	0.00624	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0225	0.00356	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1248	ND		0.0225	0.00704	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1254	**0.296**		0.0225	0.0175	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1262	ND		0.0225	0.00525	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1260	ND		0.0225	0.00484	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1
PCB-1268	ND		0.0225	0.00480	mg/Kg	☼	03/09/23 15:27	03/11/23 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/09/23 15:27*	*03/11/23 12:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoroheptanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorononanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorodecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorotridecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorotetradecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorobutanesulfonic acid	ND		2.29	0.458	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorohexanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
10:2 FTS	ND		2.29	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoropentanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoroheptanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorononanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorodecanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctanesulfonamide	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorohexadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorooctadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorobutanoic acid	ND		2.29	0.917	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoropentanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NMeFOSE	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NMeFOSA	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NEtFOSE	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
NEtFOSA	ND		2.29	0.573	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
HFPODA	ND		2.29	1.15	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
DONA	ND		3.44	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
11Cl-PF3OUdS	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluorododecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
Perfluoroundecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1

Client Sample ID: 2023-SB-06-0608' **Lab Sample ID: 620-10117-36**
Date Collected: 03/03/23 11:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.688	ug/Kg	☼	03/20/23 00:33	03/21/23 06:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*130*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
M2-8:2 FTS	*164*		*15 - 200*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
M2-6:2 FTS	*128*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C5 PFHxA	*141*		*10 - 174*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C4 PFHpA	*149*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C8 PFOA	*139*		*26 - 159*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C9 PFNA	*137*		*26 - 165*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C6 PFDA	*150*		*26 - 161*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C7 PFUnA	*142*		*12 - 173*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C2-PFDoDA	*139*		*11 - 166*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C2 PFTeDA	*149*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C3 PFHxS	*148*		*24 - 171*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C8 PFOS	*142*		*41 - 154*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d3-NMeFOSAA	*134*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d5-NEtFOSAA	*135*		*10 - 193*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C8 FOSA	*132*		*14 - 163*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C4 PFBA	*141*		*28 - 153*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C5 PFPeA	*137*		*24 - 161*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d7-N-MeFOSE-M	*126*		*10 - 179*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d3-NMePFOSA	*111*		*10 - 175*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d9-N-EtFOSE-M	*129*		*10 - 185*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
d5-NEtPFOSA	*117*		*10 - 180*	*03/20/23 00:33*	*03/21/23 06:54*	*1*
13C3 HFPO-DA	*128*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:54*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.68	1.59	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Arsenic	**1.80**	**J**	2.81	1.31	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Barium	**24.6**		0.468	0.140	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Beryllium	**0.253**	**J**	0.468	0.0935	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Cadmium	ND		0.468	0.0935	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Chromium	**6.12**		1.40	0.327	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Lead	**2.87**		1.40	0.561	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Nickel	**2.85**		0.935	0.243	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Selenium	ND		4.68	1.40	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Silver	ND	^3+	0.935	0.374	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Thallium	ND		2.81	1.22	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Vanadium	**7.94**		0.935	0.402	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1
Zinc	**61.5**		1.87	0.748	mg/Kg	☼	03/07/23 13:12	03/09/23 09:51	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0690	0.0230	mg/Kg	☼	03/07/23 13:21	03/08/23 11:39	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'
Date Collected: 03/03/23 11:50
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-36
Matrix: Solid
Percent Solids: 85.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.5		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	85.5		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0810'
Date Collected: 03/03/23 11:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-37
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00458	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Acetone	ND		0.0458	0.0103	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Acrylonitrile	ND		0.00458	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Benzene	ND		0.00458	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromobenzene	ND		0.00458	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromochloromethane	ND		0.00458	0.00260	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromodichloromethane	ND		0.00458	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromoform	ND		0.00458	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Bromomethane	ND	*+	0.00917	0.00571	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2-Butanone (MEK)	ND		0.00917	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
n-Butylbenzene	ND		0.00917	0.00491	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
sec-Butylbenzene	ND		0.00458	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
tert-Butylbenzene	ND		0.00458	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Carbon disulfide	ND		0.00917	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Carbon tetrachloride	ND		0.00458	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chlorobenzene	ND		0.00458	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chloroethane	ND		0.00917	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chloroform	ND		0.00458	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Chloromethane	ND		0.00917	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2-Chlorotoluene	ND		0.00458	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
4-Chlorotoluene	ND		0.00458	0.00398	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dibromo-3-Chloropropane	ND		0.00917	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Dibromochloromethane	ND		0.00458	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dibromoethane (EDB)	ND		0.00458	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Dibromomethane	ND		0.00458	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dichlorobenzene	ND		0.00458	0.00425	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3-Dichlorobenzene	ND		0.00458	0.00368	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,4-Dichlorobenzene	ND		0.00458	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Dichlorodifluoromethane (Freon 12)	ND		0.00917	0.00246	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1-Dichloroethane	ND		0.00458	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dichloroethane	ND		0.00458	0.00309	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1-Dichloroethene	ND		0.00458	0.00281	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
cis-1,2-Dichloroethene	ND		0.00458	0.00265	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
trans-1,2-Dichloroethene	ND		0.00458	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2-Dichloropropane	ND		0.00458	0.00303	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3-Dichloropropane	ND		0.00458	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2,2-Dichloropropane	ND		0.00458	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1-Dichloropropene	ND		0.00458	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
cis-1,3-Dichloropropene	ND		0.00458	0.00299	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
trans-1,3-Dichloropropene	ND		0.00458	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethylbenzene	ND		0.00458	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Hexachlorobutadiene	ND		0.00917	0.00461	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
2-Hexanone (MBK)	ND		0.00917	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Isopropylbenzene	ND		0.00458	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
4-Isopropyltoluene	ND		0.00458	0.00450	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Methyl tert-butyl ether	ND		0.00458	0.00264	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
4-Methyl-2-pentanone (MIBK)	ND		0.00917	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Methylene Chloride	ND		0.00917	0.00246	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Naphthalene	ND		0.00458	0.00414	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0810'
Date Collected: 03/03/23 11:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-37
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00458	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Styrene	ND		0.00458	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,1,2-Tetrachloroethane	ND		0.00458	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,2,2-Tetrachloroethane	ND		0.00458	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Tetrachloroethene	ND		0.00458	0.00255	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Toluene	ND		0.00458	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,3-Trichlorobenzene	ND		0.00458	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,4-Trichlorobenzene	ND		0.00458	0.00423	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3,5-Trichlorobenzene	ND		0.00458	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,1-Trichloroethane	ND		0.00458	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,1,2-Trichloroethane	ND		0.00458	0.00346	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Trichloroethene	ND		0.00458	0.00308	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Trichlorofluoromethane (Freon 11)	ND		0.00458	0.00350	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,3-Trichloropropane	ND		0.00458	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,2,4-Trimethylbenzene	ND		0.00458	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3,5-Trimethylbenzene	ND		0.00458	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Vinyl chloride	ND		0.00458	0.00280	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
m,p-Xylene	ND		0.00458	0.00626	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
o-Xylene	ND		0.00458	0.00335	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Tetrahydrofuran	ND		0.00917	0.00232	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethyl ether	ND		0.00458	0.00241	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Tert-amyl methyl ether	ND		0.00458	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethyl tert-butyl ether	ND		0.00458	0.00302	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
di-Isopropyl ether	ND		0.00458	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
tert-Butanol	ND		0.0917	0.0246	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,4-Dioxane	ND		0.0917	0.0285	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
trans-1,4-Dichloro-2-butene	ND		0.0229	0.00338	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Ethanol	ND		0.917	0.0568	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
1,3-Dichloropropene, Total	ND		0.00458	0.00348	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1
Xylenes, Total	ND		0.0138	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 18:51*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0669	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,2,4-Trichlorobenzene	ND		0.376	0.0862	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,2-Dichlorobenzene	ND		0.376	0.0725	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,3-Dichlorobenzene	ND		0.376	0.0911	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1,4-Dichlorobenzene	ND		0.376	0.0886	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
1-Methylnaphthalene	ND		0.0760	0.0638	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4,6-Trichlorophenol	ND		0.190	0.0465	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4-Dichlorophenol	ND		0.190	0.0758	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4-Dimethylphenol	ND		0.376	0.0552	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,4-Dinitrophenol	ND		0.376	0.0989	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0810'
Date Collected: 03/03/23 11:55
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-37
Matrix: Solid
Percent Solids: 87.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2,6-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Chloronaphthalene	ND		0.376	0.0870	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Chlorophenol	ND		0.190	0.0779	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Methylnaphthalene	ND		0.0760	0.0562	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
2-Nitrophenol	ND		0.190	0.0676	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
3,3'-Dichlorobenzidine	ND		0.376	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0676	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Chloro-3-methylphenol	ND		0.376	0.0736	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Nitroaniline	ND		0.190	0.0601	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Acenaphthene	ND		0.0760	0.0606	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Acenaphthylene	ND		0.0760	0.0499	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Acetophenone	ND		0.190	0.0464	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Anthracene	ND		0.0760	0.0440	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0642	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzidine	ND		0.752	0.111	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[a]anthracene	ND		0.0760	0.0427	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[a]pyrene	ND		0.0760	0.0544	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[b]fluoranthene	ND		0.0760	0.0630	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[g,h,i]perylene	ND		0.0760	0.0594	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzo[k]fluoranthene	ND		0.0760	0.0592	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Benzyl alcohol	ND		0.376	0.0682	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0654	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0847	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Butyl benzyl phthalate	ND		0.376	0.0377	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Carbazole	ND		0.190	0.0498	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Chrysene	ND		0.0760	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Dibenz(a,h)anthracene	ND		0.0760	0.0580	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Dibenzofuran	ND		0.190	0.0659	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Diethyl phthalate	ND		0.376	0.0413	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Di-n-octyl phthalate	ND		0.376	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Fluoranthene	ND		0.0760	0.0446	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Fluorene	ND		0.0760	0.0694	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Hexachlorobenzene	ND		0.190	0.0528	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Hexachlorobutadiene	ND		0.190	0.0950	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0727	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Hexachloroethane	ND		0.190	0.0748	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Indeno[1,2,3-cd]pyrene	ND		0.0760	0.0645	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Isophorone	ND		0.190	0.0521	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Naphthalene	ND		0.0760	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Nitrobenzene	ND		0.190	0.0879	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0758	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
N-Nitrosodiphenylamine	ND		0.376	0.0480	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pentachloronitrobenzene	ND		0.376	0.0594	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Phenanthrene	ND		0.0760	0.0431	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Phenol	ND		0.376	0.0775	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pyrene	ND		0.0760	0.0419	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1
Pyridine	ND		0.376	0.0890	mg/Kg	☼	03/15/23 09:29	03/16/23 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
2-Fluorophenol (Surr)	*81*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
Phenol-d5 (Surr)	*58*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:20*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:20*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.234	0.120	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.234	0.100	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Ethylbenzene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Methyl tert-butyl ether	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
m,p-Xylene	ND		0.0936	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Naphthalene	ND		0.0468	0.0318	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
o-Xylene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
Toluene	ND		0.0468	0.00936	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
C5-C8 Aliphatics (unadjusted)	ND		0.234	0.120	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
C9-C10 Aromatics	ND		0.234	0.0327	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1
C9-C12 Aliphatics (unadjusted)	ND		0.234	0.100	mg/Kg	☼	03/09/23 07:17	03/09/23 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:59*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 12:59*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1221	ND		0.0225	0.00666	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1232	ND		0.0225	0.00624	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0225	0.00356	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1248	ND		0.0225	0.00704	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1254	ND		0.0225	0.0175	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1262	ND		0.0225	0.00525	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1260	ND		0.0225	0.00485	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1
PCB-1268	ND		0.0225	0.00480	mg/Kg	☼	03/09/23 15:27	03/14/23 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/09/23 15:27*	*03/14/23 04:48*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.422**	**J**	0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoroheptanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorononanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorodecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorotridecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorotetradecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorobutanesulfonic acid	ND		2.23	0.446	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorohexanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NEtFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NMeFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
10:2 FTS	ND		2.23	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoropentanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoroheptanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorononanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorodecanesulfonic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctanesulfonamide	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorohexadecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorooctadecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorobutanoic acid	ND		2.23	0.893	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoropentanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NMeFOSE	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NMeFOSA	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NEtFOSE	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
NEtFOSA	ND		2.23	0.558	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
HFPODA	ND		2.23	1.12	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
DONA	ND		3.35	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
9Cl-PF3ONS	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
11Cl-PF3OUdS	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluorododecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
4:2 Fluorotelomer sulfonic acid	ND		2.23	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
Perfluoroundecanoic acid	ND		0.670	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.23	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1
8:2 Fluorotelomer sulfonic acid	ND		3.35	0.670	ug/Kg	☼	03/20/23 00:33	03/21/23 07:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*138*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
M2-8:2 FTS	*126*		*15 - 200*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
M2-6:2 FTS	*142*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C5 PFHxA	*154*		*10 - 174*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C4 PFHpA	*157*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C8 PFOA	*146*		*26 - 159*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C9 PFNA	*135*		*26 - 165*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C6 PFDA	*149*		*26 - 161*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C7 PFUnA	*146*		*12 - 173*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C2-PFDoDA	*144*		*11 - 166*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C2 PFTeDA	*146*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C3 PFBS	*141*		*27 - 179*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C3 PFHxS	*155*		*24 - 171*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C8 PFOS	*137*		*41 - 154*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d3-NMeFOSAA	*138*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d5-NEtFOSAA	*138*		*10 - 193*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C8 FOSA	*137*		*14 - 163*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C4 PFBA	*146*		*28 - 153*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C5 PFPeA	*135*		*24 - 161*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d7-N-MeFOSE-M	*138*		*10 - 179*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d3-NMePFOSA	*120*		*10 - 175*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d9-N-EtFOSE-M	*134*		*10 - 185*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
d5-NEtPFOSA	*124*		*10 - 180*	*03/20/23 00:33*	*03/21/23 07:27*	*1*
13C3 HFPO-DA	*128*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:27*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.32	1.81	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Arsenic	**2.29**	**J**	3.19	1.49	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Barium	**21.9**		0.532	0.160	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Beryllium	**0.285**	**J**	0.532	0.106	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Cadmium	ND		0.532	0.106	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Chromium	**5.90**		1.60	0.373	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Lead	**3.46**		1.60	0.639	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Nickel	**3.16**		1.06	0.277	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Selenium	ND		5.32	1.60	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Silver	ND	^3+	1.06	0.426	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Thallium	ND		3.19	1.38	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Vanadium	**9.08**		1.06	0.458	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1
Zinc	**14.6**		2.13	0.852	mg/Kg	☼	03/07/23 13:12	03/09/23 09:57	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0668	0.0223	mg/Kg	☼	03/07/23 13:21	03/08/23 11:47	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-0810' **Lab Sample ID: 620-10117-37**
Date Collected: 03/03/23 11:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.0**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.0		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	87.0		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-1012'
Date Collected: 03/03/23 12:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-38
Matrix: Solid
Percent Solids: 88.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00428	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Acetone	ND		0.0428	0.00959	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Acrylonitrile	ND		0.00428	0.00257	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Benzene	ND		0.00428	0.00286	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromobenzene	ND		0.00428	0.00285	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromochloromethane	ND		0.00428	0.00243	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromodichloromethane	ND		0.00428	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromoform	ND		0.00428	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Bromomethane	ND	*+	0.00856	0.00534	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2-Butanone (MEK)	ND		0.00856	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
n-Butylbenzene	ND		0.00856	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
sec-Butylbenzene	ND		0.00428	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
tert-Butylbenzene	ND		0.00428	0.00337	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Carbon disulfide	ND		0.00856	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Carbon tetrachloride	ND		0.00428	0.00270	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chlorobenzene	ND		0.00428	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chloroethane	ND		0.00856	0.00314	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chloroform	ND		0.00428	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Chloromethane	ND		0.00856	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2-Chlorotoluene	ND		0.00428	0.00341	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
4-Chlorotoluene	ND		0.00428	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dibromo-3-Chloropropane	ND		0.00856	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Dibromochloromethane	ND		0.00428	0.00283	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dibromoethane (EDB)	ND		0.00428	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Dibromomethane	ND		0.00428	0.00252	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dichlorobenzene	ND		0.00428	0.00397	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3-Dichlorobenzene	ND		0.00428	0.00343	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,4-Dichlorobenzene	ND		0.00428	0.00406	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.00856	0.00230	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1-Dichloroethane	ND		0.00428	0.00290	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dichloroethane	ND		0.00428	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1-Dichloroethene	ND		0.00428	0.00262	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
cis-1,2-Dichloroethene	ND		0.00428	0.00248	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
trans-1,2-Dichloroethene	ND		0.00428	0.00266	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2-Dichloropropane	ND		0.00428	0.00283	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3-Dichloropropane	ND		0.00428	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2,2-Dichloropropane	ND		0.00428	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1-Dichloropropene	ND		0.00428	0.00291	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
cis-1,3-Dichloropropene	ND		0.00428	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
trans-1,3-Dichloropropene	ND		0.00428	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethylbenzene	ND		0.00428	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Hexachlorobutadiene	ND		0.00856	0.00431	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
2-Hexanone (MBK)	ND		0.00856	0.00252	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Isopropylbenzene	ND		0.00428	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
4-Isopropyltoluene	ND		0.00428	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Methyl tert-butyl ether	ND		0.00428	0.00247	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.00856	0.00277	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Methylene Chloride	ND		0.00856	0.00230	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Naphthalene	ND		0.00428	0.00387	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00428	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Styrene	ND		0.00428	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,1,2-Tetrachloroethane	ND		0.00428	0.00321	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,2,2-Tetrachloroethane	ND		0.00428	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Tetrachloroethene	ND		0.00428	0.00238	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Toluene	ND		0.00428	0.00272	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,3-Trichlorobenzene	ND		0.00428	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,4-Trichlorobenzene	ND		0.00428	0.00395	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3,5-Trichlorobenzene	ND		0.00428	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,1-Trichloroethane	ND		0.00428	0.00292	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,1,2-Trichloroethane	ND		0.00428	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Trichloroethene	ND		0.00428	0.00288	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00428	0.00327	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,3-Trichloropropane	ND		0.00428	0.00380	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,2,4-Trimethylbenzene	ND		0.00428	0.00362	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3,5-Trimethylbenzene	ND		0.00428	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Vinyl chloride	ND		0.00428	0.00261	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
m,p-Xylene	ND		0.00428	0.00585	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
o-Xylene	ND		0.00428	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Tetrahydrofuran	ND		0.00856	0.00217	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethyl ether	ND		0.00428	0.00225	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Tert-amyl methyl ether	ND		0.00428	0.00338	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethyl tert-butyl ether	ND		0.00428	0.00282	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
di-Isopropyl ether	ND		0.00428	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
tert-Butanol	ND		0.0856	0.0230	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,4-Dioxane	ND		0.0856	0.0266	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
trans-1,4-Dichloro-2-butene	ND		0.0214	0.00316	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Ethanol	ND		0.856	0.0531	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
1,3-Dichloropropene, Total	ND		0.00428	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1
Xylenes, Total	ND		0.0128	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:18*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.374	0.0666	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,2,4-Trichlorobenzene	ND		0.374	0.0858	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,2-Dichlorobenzene	ND		0.374	0.0722	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,3-Dichlorobenzene	ND		0.374	0.0907	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1,4-Dichlorobenzene	ND		0.374	0.0882	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
1-Methylnaphthalene	ND		0.0757	0.0635	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4,5-Trichlorophenol	ND		0.374	0.0429	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4,6-Trichlorophenol	ND		0.189	0.0463	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4-Dichlorophenol	ND		0.189	0.0755	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4-Dimethylphenol	ND		0.374	0.0549	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,4-Dinitrophenol	ND		0.374	0.0985	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-1012'
Date Collected: 03/03/23 12:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-38
Matrix: Solid
Percent Solids: 88.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.189	0.0444	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2,6-Dinitrotoluene	ND		0.189	0.0444	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Chloronaphthalene	ND		0.374	0.0866	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Chlorophenol	ND		0.189	0.0775	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Methylnaphthalene	ND		0.0757	0.0559	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Methylphenol	ND		0.374	0.0547	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Nitroaniline	ND		0.374	0.0356	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
2-Nitrophenol	ND		0.189	0.0673	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
3 & 4 Methylphenol	ND		0.374	0.0709	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
3,3'-Dichlorobenzidine	ND		0.374	0.0618	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
3-Nitroaniline	ND		0.374	0.0335	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4,6-Dinitro-2-methylphenol	ND		0.374	0.0673	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Bromophenyl phenyl ether	ND		0.374	0.0423	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Chloro-3-methylphenol	ND		0.374	0.0733	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Chloroaniline	ND		0.189	0.0287	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Chlorophenyl phenyl ether	ND		0.374	0.0401	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Nitroaniline	ND		0.189	0.0598	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
4-Nitrophenol	ND		0.374	0.130	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Acenaphthene	ND		0.0757	0.0604	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Acenaphthylene	ND		0.0757	0.0497	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Acetophenone	ND		0.189	0.0462	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Aniline	ND		0.374	0.0287	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Anthracene	ND		0.0757	0.0438	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Azobenzene/Diphenyldiazene	ND		0.374	0.0639	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzidine	ND		0.749	0.111	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[a]anthracene	ND		0.0757	0.0425	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[a]pyrene	ND		0.0757	0.0541	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[b]fluoranthene	ND		0.0757	0.0627	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[g,h,i]perylene	ND		0.0757	0.0591	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzo[k]fluoranthene	ND		0.0757	0.0589	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzoic acid	ND		0.374	0.258	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Benzyl alcohol	ND		0.374	0.0679	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Bis(2-chloroethoxy)methane	ND		0.374	0.0651	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Bis(2-chloroethyl)ether	ND		0.189	0.0620	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
bis (2-chloroisopropyl) ether	ND		0.189	0.0843	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Bis(2-ethylhexyl) phthalate	ND		0.189	0.0482	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Butyl benzyl phthalate	ND		0.374	0.0376	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Carbazole	ND		0.189	0.0496	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Chrysene	ND		0.0757	0.0428	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Dibenz(a,h)anthracene	ND		0.0757	0.0578	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Dibenzofuran	ND		0.189	0.0656	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Diethyl phthalate	ND		0.374	0.0411	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Dimethyl phthalate	ND		0.374	0.0488	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Di-n-butyl phthalate	ND		0.374	0.0401	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Di-n-octyl phthalate	ND		0.374	0.0618	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Fluoranthene	ND		0.0757	0.0444	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Fluorene	ND		0.0757	0.0691	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Hexachlorobenzene	ND		0.189	0.0525	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Hexachlorobutadiene	ND		0.189	0.0945	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.189	0.0724	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Hexachloroethane	ND		0.189	0.0744	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Indeno[1,2,3-cd]pyrene	ND		0.0757	0.0642	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Isophorone	ND		0.189	0.0519	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Naphthalene	ND		0.0757	0.0726	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Nitrobenzene	ND		0.189	0.0875	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
N-Nitrosodimethylamine	ND		0.189	0.0497	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
N-Nitrosodi-n-propylamine	ND		0.189	0.0755	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
N-Nitrosodiphenylamine	ND		0.374	0.0478	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pentachloronitrobenzene	ND		0.374	0.0591	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pentachlorophenol	ND		0.374	0.153	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Phenanthrene	ND		0.0757	0.0429	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Phenol	ND		0.374	0.0772	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pyrene	ND		0.0757	0.0418	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1
Pyridine	ND		0.374	0.0886	mg/Kg	☼	03/15/23 09:29	03/16/23 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/15/23 09:29*	*03/16/23 20:49*	*1*
Terphenyl-d14	*66*		*30 - 130*	*03/15/23 09:29*	*03/16/23 20:49*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.218	0.112	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.218	0.0934	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Ethylbenzene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Methyl tert-butyl ether	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
m,p-Xylene	ND		0.0873	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Naphthalene	ND		0.0437	0.0297	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
o-Xylene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
Toluene	ND		0.0437	0.00873	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
C5-C8 Aliphatics (unadjusted)	ND		0.218	0.112	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
C9-C10 Aromatics	ND		0.218	0.0306	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1
C9-C12 Aliphatics (unadjusted)	ND		0.218	0.0934	mg/Kg	☼	03/09/23 07:17	03/09/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 13:38*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 13:38*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1254	**0.0202**	**J**	0.0218	0.0170	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	03/09/23 15:27	03/11/23 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*
Tetrachloro-m-xylene	*51*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*
DCB Decachlorobiphenyl (Surr)	*37*		*30 - 150*	*03/09/23 15:27*	*03/11/23 13:03*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.491**	**J**	0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoroheptanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorononanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorodecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorotridecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorotetradecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorobutanesulfonic acid	ND		2.21	0.441	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorohexanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NEtFOSAA	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NMeFOSAA	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
10:2 FTS	ND		2.21	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoropentanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoroheptanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorononanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorodecanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctanesulfonamide	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorohexadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorooctadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorobutanoic acid	ND		2.21	0.882	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoropentanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NMeFOSE	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NMeFOSA	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NEtFOSE	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
NEtFOSA	ND		2.21	0.551	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
HFPODA	ND		2.21	1.10	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
DONA	ND		3.31	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
9Cl-PF3ONS	ND		2.21	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
11Cl-PF3OUdS	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluorododecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
4:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
Perfluoroundecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1
8:2 Fluorotelomer sulfonic acid	ND		3.31	0.662	ug/Kg	☼	03/20/23 00:33	03/21/23 07:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*139*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
M2-8:2 FTS	*144*		*15 - 200*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
M2-6:2 FTS	*141*		*10 - 200*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C5 PFHxA	*151*		*10 - 174*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C4 PFHpA	*157*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C8 PFOA	*149*		*26 - 159*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C9 PFNA	*142*		*26 - 165*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C6 PFDA	*147*		*26 - 161*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C7 PFUnA	*146*		*12 - 173*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C2-PFDoDA	*147*		*11 - 166*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C2 PFTeDA	*149*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C3 PFBS	*146*		*27 - 179*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C3 PFHxS	*163*		*24 - 171*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C8 PFOS	*146*		*41 - 154*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d3-NMeFOSAA	*113*		*10 - 178*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d5-NEtFOSAA	*118*		*10 - 193*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C8 FOSA	*133*		*14 - 163*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C4 PFBA	*146*		*28 - 153*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C5 PFPeA	*141*		*24 - 161*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d7-N-MeFOSE-M	*125*		*10 - 179*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d3-NMePFOSA	*116*		*10 - 175*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d9-N-EtFOSE-M	*131*		*10 - 185*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
d5-NEtPFOSA	*125*		*10 - 180*	*03/20/23 00:33*	*03/21/23 07:38*	*1*
13C3 HFPO-DA	*141*		*10 - 169*	*03/20/23 00:33*	*03/21/23 07:38*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.30	1.46	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Arsenic	**1.99**	**J**	2.58	1.20	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Barium	**18.2**		0.430	0.129	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Beryllium	**0.229**	**J**	0.430	0.0860	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Cadmium	ND		0.430	0.0860	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Chromium	**5.14**		1.29	0.301	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Lead	**2.69**		1.29	0.516	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Nickel	**2.33**		0.860	0.224	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Selenium	ND		4.30	1.29	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Silver	ND	^3+	0.860	0.344	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Thallium	ND		2.58	1.12	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Vanadium	**8.56**		0.860	0.370	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1
Zinc	**38.9**	**^5-**	1.72	0.688	mg/Kg	☼	03/07/23 20:22	03/08/23 22:20	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0629	0.0210	mg/Kg	☼	03/08/23 00:46	03/09/23 07:50	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-1012' **Lab Sample ID: 620-10117-38**
Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.9		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	88.1		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -05

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Bromomethane	ND	*+	0.0100	0.00623	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/10/23 09:34	03/10/23 13:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -05

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:14	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/10/23 09:34	03/10/23 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:14*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -06

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-40

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Bromomethane	ND	*+	0.0100	0.00623	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/10/23 09:34	03/10/23 13:40	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: Trip Blank -06

Date Collected: 03/03/23 00:00
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-40

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 13:40	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/10/23 09:34	03/10/23 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/10/23 09:34*	*03/10/23 13:40*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0002'
Date Collected: 03/03/23 13:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-41
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00618	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Acetone	ND		0.0618	0.0138	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Acrylonitrile	ND		0.00618	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Benzene	ND		0.00618	0.00413	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromobenzene	ND		0.00618	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromochloromethane	ND		0.00618	0.00351	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromodichloromethane	ND		0.00618	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromoform	ND		0.00618	0.00472	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Bromomethane	ND	*+	0.0124	0.00770	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2-Butanone (MEK)	ND		0.0124	0.00492	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
n-Butylbenzene	ND	*3	0.0124	0.00662	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
sec-Butylbenzene	ND		0.00618	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
tert-Butylbenzene	ND		0.00618	0.00487	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Carbon disulfide	ND		0.0124	0.00434	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Carbon tetrachloride	ND		0.00618	0.00389	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chlorobenzene	ND		0.00618	0.00452	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chloroethane	ND		0.0124	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chloroform	ND		0.00618	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Chloromethane	ND		0.0124	0.00474	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2-Chlorotoluene	ND		0.00618	0.00492	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
4-Chlorotoluene	ND		0.00618	0.00536	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0124	0.00524	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Dibromochloromethane	ND		0.00618	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dibromoethane (EDB)	ND		0.00618	0.00444	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Dibromomethane	ND		0.00618	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dichlorobenzene	ND	*3	0.00618	0.00573	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3-Dichlorobenzene	ND		0.00618	0.00496	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,4-Dichlorobenzene	ND	*3	0.00618	0.00586	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Dichlorodifluoromethane (Freon 12)	ND		0.0124	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1-Dichloroethane	ND		0.00618	0.00419	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dichloroethane	ND		0.00618	0.00416	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1-Dichloroethene	ND		0.00618	0.00378	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
cis-1,2-Dichloroethene	ND		0.00618	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
trans-1,2-Dichloroethene	ND		0.00618	0.00384	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2-Dichloropropane	ND		0.00618	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3-Dichloropropane	ND		0.00618	0.00472	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2,2-Dichloropropane	ND		0.00618	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1-Dichloropropene	ND		0.00618	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
cis-1,3-Dichloropropene	ND		0.00618	0.00403	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
trans-1,3-Dichloropropene	ND		0.00618	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethylbenzene	ND		0.00618	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Hexachlorobutadiene	ND	*3	0.0124	0.00622	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
2-Hexanone (MBK)	ND		0.0124	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Isopropylbenzene	ND		0.00618	0.00467	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
4-Isopropyltoluene	ND	*3	0.00618	0.00607	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Methyl tert-butyl ether	ND		0.00618	0.00356	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
4-Methyl-2-pentanone (MIBK)	ND		0.0124	0.00399	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Methylene Chloride	ND		0.0124	0.00331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Naphthalene	ND	*3	0.00618	0.00559	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1

Client Sample ID: 2023-SB-05-0002' **Lab Sample ID: 620-10117-41**
Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00618	0.00523	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Styrene	ND		0.00618	0.00478	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,1,2-Tetrachloroethane	ND		0.00618	0.00463	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,2,2-Tetrachloroethane	ND		0.00618	0.00566	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Tetrachloroethene	ND		0.00618	0.00344	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Toluene	ND		0.00618	0.00392	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,3-Trichlorobenzene	ND	*3	0.00618	0.00521	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,4-Trichlorobenzene	ND		0.00618	0.00570	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3,5-Trichlorobenzene	ND	*3	0.00618	0.00587	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,1-Trichloroethane	ND		0.00618	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,1,2-Trichloroethane	ND		0.00618	0.00466	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Trichloroethene	ND		0.00618	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Trichlorofluoromethane (Freon 11)	ND		0.00618	0.00472	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,3-Trichloropropane	ND		0.00618	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,2,4-Trimethylbenzene	ND		0.00618	0.00523	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3,5-Trimethylbenzene	ND		0.00618	0.00525	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Vinyl chloride	ND		0.00618	0.00377	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
m,p-Xylene	ND		0.00618	0.00844	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
o-Xylene	ND		0.00618	0.00451	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Tetrahydrofuran	ND		0.0124	0.00313	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethyl ether	ND		0.00618	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Tert-amyl methyl ether	ND		0.00618	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethyl tert-butyl ether	ND		0.00618	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
di-Isopropyl ether	ND		0.00618	0.00441	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
tert-Butanol	ND		0.124	0.0331	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,4-Dioxane	ND		0.124	0.0384	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
trans-1,4-Dichloro-2-butene	ND		0.0309	0.00456	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Ethanol	ND		1.24	0.0766	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
1,3-Dichloropropene, Total	ND		0.00618	0.00470	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1
Xylenes, Total	ND		0.0185	0.00618	mg/Kg	☼	03/10/23 09:34	03/10/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*03/10/23 09:34*	*03/10/23 19:44*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00501	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Acetone	ND		0.0501	0.0112	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Acrylonitrile	ND		0.00501	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Benzene	ND		0.00501	0.00335	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromobenzene	ND		0.00501	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromochloromethane	ND		0.00501	0.00285	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromodichloromethane	ND		0.00501	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromoform	ND		0.00501	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Bromomethane	ND	*+	0.0100	0.00625	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2-Butanone (MEK)	ND		0.0100	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0002'
Date Collected: 03/03/23 13:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-41
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0100	0.00537	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
sec-Butylbenzene	ND		0.00501	0.00404	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
tert-Butylbenzene	ND		0.00501	0.00395	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Carbon disulfide	ND		0.0100	0.00352	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Carbon tetrachloride	ND		0.00501	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chlorobenzene	ND		0.00501	0.00367	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chloroethane	ND	*+	0.0100	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chloroform	ND		0.00501	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Chloromethane	ND		0.0100	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2-Chlorotoluene	ND		0.00501	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
4-Chlorotoluene	ND		0.00501	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0100	0.00425	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Dibromochloromethane	ND		0.00501	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dibromoethane (EDB)	ND		0.00501	0.00360	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Dibromomethane	ND		0.00501	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dichlorobenzene	ND	*3	0.00501	0.00465	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3-Dichlorobenzene	ND		0.00501	0.00402	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,4-Dichlorobenzene	ND	*3	0.00501	0.00475	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00269	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1-Dichloroethane	ND		0.00501	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dichloroethane	ND		0.00501	0.00338	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1-Dichloroethene	ND		0.00501	0.00307	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
cis-1,2-Dichloroethene	ND		0.00501	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
trans-1,2-Dichloroethene	ND		0.00501	0.00312	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2-Dichloropropane	ND		0.00501	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3-Dichloropropane	ND		0.00501	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2,2-Dichloropropane	ND		0.00501	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1-Dichloropropene	ND		0.00501	0.00341	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
cis-1,3-Dichloropropene	ND		0.00501	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
trans-1,3-Dichloropropene	ND		0.00501	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethylbenzene	ND		0.00501	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Hexachlorobutadiene	ND	*3	0.0100	0.00504	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
2-Hexanone (MBK)	ND		0.0100	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Isopropylbenzene	ND		0.00501	0.00379	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
4-Isopropyltoluene	ND	*3	0.00501	0.00492	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Methyl tert-butyl ether	ND		0.00501	0.00289	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00324	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Methylene Chloride	ND		0.0100	0.00269	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Naphthalene	ND	*3	0.00501	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
N-Propylbenzene	ND		0.00501	0.00424	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Styrene	ND		0.00501	0.00388	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1,1,2-Tetrachloroethane	ND		0.00501	0.00376	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1,2,2-Tetrachloroethane	ND		0.00501	0.00459	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Tetrachloroethene	ND		0.00501	0.00279	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Toluene	ND		0.00501	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,3-Trichlorobenzene	ND	*3	0.00501	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,4-Trichlorobenzene	ND		0.00501	0.00462	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3,5-Trichlorobenzene	ND	*3	0.00501	0.00476	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,1,1-Trichloroethane	ND		0.00501	0.00342	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1

Client Sample ID: 2023-SB-05-0002' **Lab Sample ID: 620-10117-41**
Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00501	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Trichloroethene	ND		0.00501	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Trichlorofluoromethane (Freon 11)	ND		0.00501	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,3-Trichloropropane	ND		0.00501	0.00445	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,2,4-Trimethylbenzene	ND		0.00501	0.00424	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3,5-Trimethylbenzene	ND		0.00501	0.00426	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Vinyl chloride	ND		0.00501	0.00306	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
m,p-Xylene	ND		0.00501	0.00685	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
o-Xylene	ND		0.00501	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Tetrahydrofuran	ND		0.0100	0.00254	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethyl ether	ND		0.00501	0.00264	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Tert-amyl methyl ether	ND		0.00501	0.00396	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethyl tert-butyl ether	ND		0.00501	0.00330	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
di-Isopropyl ether	ND		0.00501	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
tert-Butanol	ND		0.100	0.0269	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,4-Dioxane	ND		0.100	0.0312	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
trans-1,4-Dichloro-2-butene	ND		0.0251	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Ethanol	ND		1.00	0.0622	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
1,3-Dichloropropene, Total	ND		0.00501	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1
Xylenes, Total	ND		0.0150	0.00501	mg/Kg	☼	03/13/23 09:42	03/13/23 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:43*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.365	0.0649	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,2,4-Trichlorobenzene	ND		0.365	0.0836	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,2-Dichlorobenzene	ND		0.365	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,3-Dichlorobenzene	ND		0.365	0.0884	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1,4-Dichlorobenzene	ND		0.365	0.0859	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
1-Methylnaphthalene	ND		0.0738	0.0619	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4,5-Trichlorophenol	ND		0.365	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4,6-Trichlorophenol	ND		0.185	0.0451	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dichlorophenol	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dimethylphenol	ND		0.365	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dinitrophenol	ND		0.365	0.0960	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,4-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2,6-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Chloronaphthalene	ND		0.365	0.0844	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Chlorophenol	ND		0.185	0.0755	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Methylnaphthalene	ND		0.0738	0.0545	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Methylphenol	ND		0.365	0.0533	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Nitroaniline	ND		0.365	0.0347	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
2-Nitrophenol	ND		0.185	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
3 & 4 Methylphenol	ND		0.365	0.0691	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
3,3'-Dichlorobenzidine	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0002'
Date Collected: 03/03/23 13:10
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-41
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.365	0.0326	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4,6-Dinitro-2-methylphenol	ND		0.365	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Bromophenyl phenyl ether	ND		0.365	0.0412	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Chloro-3-methylphenol	ND		0.365	0.0714	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Chloroaniline	ND		0.185	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Chlorophenyl phenyl ether	ND		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Nitroaniline	ND		0.185	0.0583	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
4-Nitrophenol	ND		0.365	0.127	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Acenaphthene	ND		0.0738	0.0588	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Acenaphthylene	**0.0579**	**J**	0.0738	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Acetophenone	ND		0.185	0.0450	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Aniline	ND		0.365	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Anthracene	**0.0468**	**J**	0.0738	0.0427	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Azobenzene/Diphenyldiazene	ND		0.365	0.0623	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzidine	ND		0.730	0.108	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[a]anthracene	**0.122**		0.0738	0.0415	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[a]pyrene	**0.157**		0.0738	0.0527	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[b]fluoranthene	**0.185**		0.0738	0.0611	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[g,h,i]perylene	**0.152**		0.0738	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzo[k]fluoranthene	**0.159**		0.0738	0.0574	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzoic acid	ND		0.365	0.251	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Benzyl alcohol	ND		0.365	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Bis(2-chloroethoxy)methane	ND		0.365	0.0635	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Bis(2-chloroethyl)ether	ND		0.185	0.0604	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
bis (2-chloroisopropyl) ether	ND		0.185	0.0822	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Bis(2-ethylhexyl) phthalate	**0.418**		0.185	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Butyl benzyl phthalate	ND		0.365	0.0366	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Carbazole	ND		0.185	0.0483	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Chrysene	**0.184**		0.0738	0.0417	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Dibenz(a,h)anthracene	**0.0575**	**J**	0.0738	0.0563	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Dibenzofuran	ND		0.185	0.0639	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Diethyl phthalate	ND		0.365	0.0400	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Dimethyl phthalate	ND		0.365	0.0475	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Di-n-butyl phthalate	**3.07**		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Di-n-octyl phthalate	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Fluoranthene	**0.263**		0.0738	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Fluorene	ND		0.0738	0.0673	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachlorobenzene	ND		0.185	0.0512	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachlorobutadiene	ND		0.185	0.0921	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachlorocyclopentadiene	ND		0.185	0.0705	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Hexachloroethane	ND		0.185	0.0725	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Indeno[1,2,3-cd]pyrene	**0.135**		0.0738	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Isophorone	ND		0.185	0.0505	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Naphthalene	ND		0.0738	0.0708	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Nitrobenzene	ND		0.185	0.0853	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
N-Nitrosodimethylamine	ND		0.185	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
N-Nitrosodi-n-propylamine	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
N-Nitrosodiphenylamine	ND		0.365	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Pentachloronitrobenzene	ND		0.365	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1

Client Sample ID: 2023-SB-05-0002' Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.365	0.149	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Phenanthrene	**0.124**		0.0738	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Phenol	ND		0.365	0.0752	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Pyrene	**0.299**		0.0738	0.0407	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1
Pyridine	ND		0.365	0.0864	mg/Kg	☼	03/15/23 09:29	03/17/23 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
2-Fluorophenol (Surr)	*73*		*15 - 110*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/15/23 09:29*	*03/17/23 17:08*	*1*
Terphenyl-d14	*64*		*30 - 130*	*03/15/23 09:29*	*03/17/23 17:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.217**	**J**	0.256	0.131	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	**0.418**		0.256	0.110	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Ethylbenzene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Methyl tert-butyl ether	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Naphthalene	ND		0.0512	0.0348	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
o-Xylene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
Toluene	ND		0.0512	0.0102	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
C5-C8 Aliphatics (unadjusted)	**0.217**	**J**	0.256	0.131	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
C9-C10 Aromatics	**0.180**	**J**	0.256	0.0358	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1
C9-C12 Aliphatics (unadjusted)	**0.598**		0.256	0.110	mg/Kg	☼	03/09/23 07:17	03/09/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/09/23 07:17*	*03/09/23 14:17*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/09/23 07:17*	*03/09/23 14:17*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.110	0.0795	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1221	ND		0.110	0.0326	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1232	ND		0.110	0.0306	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1242	ND		0.110	0.0174	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1248	ND		0.110	0.0345	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1254	**1.99**		0.110	0.0858	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1262	ND		0.110	0.0257	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1260	ND		0.110	0.0237	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5
PCB-1268	ND		0.110	0.0235	mg/Kg	☼	03/09/23 15:27	03/14/23 12:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:58*	*5*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/09/23 15:27*	*03/14/23 12:58*	*5*

Client Sample ID: 2023-SB-05-0002' **Lab Sample ID: 620-10117-41**
Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		30 - 150	03/09/23 15:27	03/14/23 12:58	5
DCB Decachlorobiphenyl (Surr)	94		30 - 150	03/09/23 15:27	03/14/23 12:58	5

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoroheptanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorononanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorodecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorotridecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorotetradecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorobutanesulfonic acid	ND		2.23	0.445	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorohexanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NEtFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NMeFOSAA	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
10:2 FTS	ND		2.23	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoropentanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoroheptanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorononanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorodecanesulfonic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctanesulfonamide	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorohexadecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorooctadecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorobutanoic acid	ND		2.23	0.891	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoropentanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NMeFOSE	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NMeFOSA	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NEtFOSE	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
NEtFOSA	ND		2.23	0.557	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
HFPODA	ND		2.23	1.11	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
DONA	ND		3.34	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
9Cl-PF3ONS	ND		2.23	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
11Cl-PF3OUdS	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluorododecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.23	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
Perfluoroundecanoic acid	ND		0.668	0.223	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
6:2 Fluorotelomer sulfonic acid	ND		2.23	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.34	0.668	ug/Kg	☼	03/20/23 00:33	03/21/23 07:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	144		10 - 200	03/20/23 00:33	03/21/23 07:50	1
M2-8:2 FTS	207	*5+	15 - 200	03/20/23 00:33	03/21/23 07:50	1
M2-6:2 FTS	171		10 - 200	03/20/23 00:33	03/21/23 07:50	1
13C5 PFHxA	113		10 - 174	03/20/23 00:33	03/21/23 07:50	1
13C4 PFHpA	120		10 - 178	03/20/23 00:33	03/21/23 07:50	1
13C8 PFOA	118		26 - 159	03/20/23 00:33	03/21/23 07:50	1

Client Sample ID: 2023-SB-05-0002' Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	142		26 - 165	03/20/23 00:33	03/21/23 07:50	1
13C6 PFDA	131		26 - 161	03/20/23 00:33	03/21/23 07:50	1
13C7 PFUnA	84		12 - 173	03/20/23 00:33	03/21/23 07:50	1
13C2-PFDoDA	136		11 - 166	03/20/23 00:33	03/21/23 07:50	1
13C2 PFTeDA	144		10 - 169	03/20/23 00:33	03/21/23 07:50	1
13C3 PFBS	137		27 - 179	03/20/23 00:33	03/21/23 07:50	1
13C3 PFHxS	138		24 - 171	03/20/23 00:33	03/21/23 07:50	1
13C8 PFOS	138		41 - 154	03/20/23 00:33	03/21/23 07:50	1
d3-NMeFOSAA	122		10 - 178	03/20/23 00:33	03/21/23 07:50	1
d5-NEtFOSAA	96		10 - 193	03/20/23 00:33	03/21/23 07:50	1
13C8 FOSA	95		14 - 163	03/20/23 00:33	03/21/23 07:50	1
13C4 PFBA	111		28 - 153	03/20/23 00:33	03/21/23 07:50	1
13C5 PFPeA	109		24 - 161	03/20/23 00:33	03/21/23 07:50	1
d7-N-MeFOSE-M	93		10 - 179	03/20/23 00:33	03/21/23 07:50	1
d3-NMePFOSA	72		10 - 175	03/20/23 00:33	03/21/23 07:50	1
d9-N-EtFOSE-M	101		10 - 185	03/20/23 00:33	03/21/23 07:50	1
d5-NEtPFOSA	77		10 - 180	03/20/23 00:33	03/21/23 07:50	1
13C3 HFPO-DA	83		10 - 169	03/20/23 00:33	03/21/23 07:50	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.16	1.75	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Arsenic	**2.32**	**J**	3.10	1.44	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Barium	**57.0**		0.516	0.155	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Beryllium	**0.267**	**J**	0.516	0.103	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Cadmium	ND		0.516	0.103	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Chromium	**4.50**		1.55	0.361	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Lead	**26.8**		1.55	0.619	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Nickel	**3.30**		1.03	0.268	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Selenium	ND		5.16	1.55	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Silver	ND		1.03	0.413	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Thallium	ND		3.10	1.34	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Vanadium	**5.90**		1.03	0.444	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1
Zinc	**81.0**		2.06	0.825	mg/Kg	☼	03/15/23 14:43	03/16/23 15:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0411**	**J**	0.0633	0.0211	mg/Kg	☼	03/15/23 14:55	03/16/23 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.1**		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	**88.9**		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'
Date Collected: 03/03/23 13:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-42
Matrix: Solid
Percent Solids: 65.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00729	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Acetone	ND		0.0729	0.0163	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Acrylonitrile	ND		0.00729	0.00437	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Benzene	ND		0.00729	0.00487	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromobenzene	ND		0.00729	0.00485	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromochloromethane	ND		0.00729	0.00414	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromodichloromethane	ND		0.00729	0.00535	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromoform	ND		0.00729	0.00557	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Bromomethane	ND	*+	0.0146	0.00908	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2-Butanone (MEK)	ND		0.0146	0.00580	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
n-Butylbenzene	ND		0.0146	0.00781	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
sec-Butylbenzene	ND		0.00729	0.00587	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
tert-Butylbenzene	ND		0.00729	0.00574	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Carbon disulfide	ND		0.0146	0.00512	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Carbon tetrachloride	ND		0.00729	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chlorobenzene	ND		0.00729	0.00533	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chloroethane	ND		0.0146	0.00535	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chloroform	ND		0.00729	0.00490	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Chloromethane	ND		0.0146	0.00560	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2-Chlorotoluene	ND		0.00729	0.00580	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
4-Chlorotoluene	ND		0.00729	0.00633	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dibromo-3-Chloropropane	ND		0.0146	0.00618	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Dibromochloromethane	ND		0.00729	0.00482	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dibromoethane (EDB)	ND		0.00729	0.00523	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Dibromomethane	ND		0.00729	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dichlorobenzene	ND		0.00729	0.00676	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3-Dichlorobenzene	ND		0.00729	0.00584	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,4-Dichlorobenzene	ND		0.00729	0.00691	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.0146	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1-Dichloroethane	ND		0.00729	0.00494	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dichloroethane	ND		0.00729	0.00491	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1-Dichloroethene	ND		0.00729	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
cis-1,2-Dichloroethene	ND		0.00729	0.00421	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
trans-1,2-Dichloroethene	ND		0.00729	0.00453	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2-Dichloropropane	ND		0.00729	0.00482	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3-Dichloropropane	ND		0.00729	0.00557	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2,2-Dichloropropane	ND		0.00729	0.00503	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1-Dichloropropene	ND		0.00729	0.00496	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
cis-1,3-Dichloropropene	ND		0.00729	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
trans-1,3-Dichloropropene	ND		0.00729	0.00554	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethylbenzene	ND		0.00729	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Hexachlorobutadiene	ND		0.0146	0.00733	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
2-Hexanone (MBK)	ND		0.0146	0.00428	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Isopropylbenzene	ND		0.00729	0.00551	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
4-Isopropyltoluene	ND		0.00729	0.00716	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Methyl tert-butyl ether	ND		0.00729	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.0146	0.00471	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Methylene Chloride	ND		0.0146	0.00391	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Naphthalene	ND		0.00729	0.00659	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00729	0.00617	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Styrene	ND		0.00729	0.00564	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,1,2-Tetrachloroethane	ND		0.00729	0.00547	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,2,2-Tetrachloroethane	ND		0.00729	0.00668	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Tetrachloroethene	ND		0.00729	0.00405	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Toluene	ND		0.00729	0.00462	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,3-Trichlorobenzene	ND		0.00729	0.00615	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,4-Trichlorobenzene	ND		0.00729	0.00672	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3,5-Trichlorobenzene	ND		0.00729	0.00692	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,1-Trichloroethane	ND		0.00729	0.00497	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,1,2-Trichloroethane	ND		0.00729	0.00549	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Trichloroethene	ND		0.00729	0.00490	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00729	0.00557	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,3-Trichloropropane	ND		0.00729	0.00647	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,2,4-Trimethylbenzene	ND		0.00729	0.00617	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3,5-Trimethylbenzene	ND		0.00729	0.00619	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Vinyl chloride	ND		0.00729	0.00445	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
m,p-Xylene	ND		0.00729	0.00995	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
o-Xylene	ND		0.00729	0.00532	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Tetrahydrofuran	ND		0.0146	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethyl ether	ND		0.00729	0.00383	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Tert-amyl methyl ether	ND		0.00729	0.00576	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethyl tert-butyl ether	ND		0.00729	0.00480	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
di-Isopropyl ether	ND		0.00729	0.00520	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
tert-Butanol	ND		0.146	0.0391	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,4-Dioxane	ND		0.146	0.0453	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
trans-1,4-Dichloro-2-butene	ND		0.0364	0.00538	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Ethanol	ND		1.46	0.0904	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
1,3-Dichloropropene, Total	ND		0.00729	0.00554	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1
Xylenes, Total	ND		0.0219	0.00729	mg/Kg	☼	03/10/23 09:34	03/10/23 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.498	0.0886	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,2,4-Trichlorobenzene	ND		0.498	0.114	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,2-Dichlorobenzene	ND		0.498	0.0960	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,3-Dichlorobenzene	ND		0.498	0.121	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1,4-Dichlorobenzene	ND		0.498	0.117	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
1-Methylnaphthalene	ND		0.101	0.0845	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4,5-Trichlorophenol	ND		0.498	0.0570	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4,6-Trichlorophenol	ND		0.252	0.0616	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4-Dichlorophenol	ND		0.252	0.100	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4-Dimethylphenol	ND		0.498	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,4-Dinitrophenol	ND		0.498	0.131	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'
Date Collected: 03/03/23 13:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-42
Matrix: Solid
Percent Solids: 65.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.252	0.0590	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2,6-Dinitrotoluene	ND		0.252	0.0590	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Chloronaphthalene	ND		0.498	0.115	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Chlorophenol	ND		0.252	0.103	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Methylnaphthalene	ND		0.101	0.0744	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Methylphenol	ND		0.498	0.0727	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Nitroaniline	ND		0.498	0.0474	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
2-Nitrophenol	ND		0.252	0.0895	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
3 & 4 Methylphenol	ND		0.498	0.0943	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
3,3'-Dichlorobenzidine	ND		0.498	0.0822	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
3-Nitroaniline	ND		0.498	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4,6-Dinitro-2-methylphenol	ND		0.498	0.0895	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Bromophenyl phenyl ether	ND		0.498	0.0563	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Chloro-3-methylphenol	ND		0.498	0.0975	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Chloroaniline	ND		0.252	0.0382	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Chlorophenyl phenyl ether	ND		0.498	0.0533	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Nitroaniline	ND		0.252	0.0795	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
4-Nitrophenol	ND		0.498	0.174	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Acenaphthene	ND		0.101	0.0803	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Acenaphthylene	ND		0.101	0.0661	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Acetophenone	ND		0.252	0.0614	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Aniline	ND		0.498	0.0382	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Anthracene	ND		0.101	0.0583	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Azobenzene/Diphenyldiazene	ND		0.498	0.0850	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzidine	ND		0.996	0.147	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[a]anthracene	ND		0.101	0.0566	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[a]pyrene	ND		0.101	0.0720	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[b]fluoranthene	ND		0.101	0.0835	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[g,h,i]perylene	ND		0.101	0.0786	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzo[k]fluoranthene	ND		0.101	0.0783	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzoic acid	ND		0.498	0.343	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Benzyl alcohol	ND		0.498	0.0902	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Bis(2-chloroethoxy)methane	ND		0.498	0.0866	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Bis(2-chloroethyl)ether	ND		0.252	0.0824	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
bis (2-chloroisopropyl) ether	ND		0.252	0.112	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Bis(2-ethylhexyl) phthalate	ND		0.252	0.0641	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Butyl benzyl phthalate	ND		0.498	0.0500	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Carbazole	ND		0.252	0.0659	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Chrysene	ND		0.101	0.0569	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Dibenz(a,h)anthracene	ND		0.101	0.0768	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Dibenzofuran	ND		0.252	0.0872	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Diethyl phthalate	ND		0.498	0.0546	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Dimethyl phthalate	ND		0.498	0.0649	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Di-n-butyl phthalate	ND		0.498	0.0533	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Di-n-octyl phthalate	ND		0.498	0.0822	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Fluoranthene	**0.0778**	**J**	0.101	0.0590	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Fluorene	ND		0.101	0.0919	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Hexachlorobenzene	ND		0.252	0.0699	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Hexachlorobutadiene	ND		0.252	0.126	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.252	0.0963	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Hexachloroethane	ND		0.252	0.0990	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Indeno[1,2,3-cd]pyrene	ND		0.101	0.0854	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Isophorone	ND		0.252	0.0690	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Naphthalene	ND		0.101	0.0966	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Nitrobenzene	ND		0.252	0.116	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
N-Nitrosodimethylamine	ND		0.252	0.0661	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
N-Nitrosodi-n-propylamine	ND		0.252	0.100	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
N-Nitrosodiphenylamine	ND		0.498	0.0635	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pentachloronitrobenzene	ND		0.498	0.0786	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pentachlorophenol	ND		0.498	0.204	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Phenanthrene	ND		0.101	0.0570	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Phenol	ND		0.498	0.103	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pyrene	**0.0678**	**J**	0.101	0.0555	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1
Pyridine	ND		0.498	0.118	mg/Kg	☼	03/15/23 09:29	03/16/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
2-Fluorophenol (Surr)	*73*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
Phenol-d5 (Surr)	*55*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:17*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.380	0.194	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.380	0.162	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Ethylbenzene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Methyl tert-butyl ether	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
m,p-Xylene	ND		0.152	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Naphthalene	**0.0572**	**J B**	0.0759	0.0516	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
o-Xylene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
Toluene	ND		0.0759	0.0152	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
C5-C8 Aliphatics (unadjusted)	ND		0.380	0.194	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
C9-C10 Aromatics	ND		0.380	0.0531	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1
C9-C12 Aliphatics (unadjusted)	ND		0.380	0.162	mg/Kg	☼	03/09/23 07:17	03/09/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/09/23 07:17*	*03/09/23 15:36*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 15:36*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0288	0.0208	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1221	ND		0.0288	0.00852	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1232	ND		0.0288	0.00799	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0288	0.00456	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1248	ND		0.0288	0.00901	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1254	ND		0.0288	0.0224	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1262	ND		0.0288	0.00672	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1260	ND		0.0288	0.00620	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1
PCB-1268	ND		0.0288	0.00614	mg/Kg	☼	03/09/23 15:30	03/13/23 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*03/09/23 15:30*	*03/13/23 18:16*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoroheptanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorononanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorodecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorotridecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorotetradecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorobutanesulfonic acid	ND		2.87	0.574	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorohexanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NEtFOSAA	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NMeFOSAA	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
10:2 FTS	ND		2.87	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoropentanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoroheptanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorononanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorodecanesulfonic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctanesulfonamide	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorohexadecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorooctadecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorobutanoic acid	ND		2.87	1.15	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoropentanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NMeFOSE	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NMeFOSA	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NEtFOSE	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
NEtFOSA	ND		2.87	0.717	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
HFPODA	ND		2.87	1.43	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
DONA	ND		4.30	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
9Cl-PF3ONS	ND		2.87	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
11Cl-PF3OUdS	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluorododecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.87	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
Perfluoroundecanoic acid	ND		0.861	0.287	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1

Client Sample ID: 2023-SB-05-0204' **Lab Sample ID: 620-10117-42**
Date Collected: 03/03/23 13:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 65.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.87	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1
8:2 Fluorotelomer sulfonic acid	ND		4.30	0.861	ug/Kg	☼	03/20/23 00:33	03/21/23 08:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*134*		*10 - 200*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
M2-8:2 FTS	*178*		*15 - 200*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
M2-6:2 FTS	*164*		*10 - 200*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C4 PFHpA	*129*		*10 - 178*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C8 PFOA	*126*		*26 - 159*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C9 PFNA	*129*		*26 - 165*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C6 PFDA	*128*		*26 - 161*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C7 PFUnA	*87*		*12 - 173*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C2-PFDoDA	*146*		*11 - 166*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C2 PFTeDA	*157*		*10 - 169*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C3 PFHxS	*143*		*24 - 171*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C8 PFOS	*130*		*41 - 154*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d3-NMeFOSAA	*140*		*10 - 178*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d5-NEtFOSAA	*104*		*10 - 193*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C4 PFBA	*119*		*28 - 153*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C5 PFPeA	*116*		*24 - 161*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d9-N-EtFOSE-M	*107*		*10 - 185*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/20/23 00:33*	*03/21/23 08:01*	*1*
13C3 HFPO-DA	*103*		*10 - 169*	*03/20/23 00:33*	*03/21/23 08:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		7.38	2.51	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Arsenic	**3.22**	**J**	4.43	2.07	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Barium	**45.7**		0.738	0.221	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Beryllium	**0.691**	**J**	0.738	0.148	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Cadmium	ND		0.738	0.148	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Chromium	**6.85**		2.21	0.517	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Lead	**23.3**		2.21	0.886	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Nickel	**4.20**		1.48	0.384	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Selenium	ND		7.38	2.21	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Silver	ND	^3+	1.48	0.590	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Thallium	ND		4.43	1.92	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Vanadium	**10.5**		1.48	0.635	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1
Zinc	**140**		2.95	1.18	mg/Kg	☼	03/07/23 13:12	03/09/23 10:13	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0464**	**J**	0.0850	0.0283	mg/Kg	☼	03/07/23 13:21	03/08/23 11:53	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'
Date Collected: 03/03/23 13:15
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-42
Matrix: Solid
Percent Solids: 65.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	34.9		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	65.1		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0406'
Date Collected: 03/03/23 13:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-43
Matrix: Solid
Percent Solids: 84.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.00484	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Acetone	ND		0.0484	0.0108	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Acrylonitrile	ND		0.00484	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Benzene	ND		0.00484	0.00323	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromobenzene	ND		0.00484	0.00322	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromochloromethane	ND	F1	0.00484	0.00275	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromodichloromethane	ND	F1	0.00484	0.00355	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromoform	ND		0.00484	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Bromomethane	ND	*+	0.00968	0.00603	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2-Butanone (MEK)	ND		0.00968	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
n-Butylbenzene	ND		0.00968	0.00519	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
sec-Butylbenzene	ND		0.00484	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
tert-Butylbenzene	ND		0.00484	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Carbon disulfide	ND		0.00968	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Carbon tetrachloride	ND		0.00484	0.00305	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chlorobenzene	ND		0.00484	0.00354	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chloroethane	ND	*+ F1	0.00968	0.00355	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chloroform	ND		0.00484	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Chloromethane	ND		0.00968	0.00372	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2-Chlorotoluene	ND		0.00484	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
4-Chlorotoluene	ND		0.00484	0.00420	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dibromo-3-Chloropropane	ND		0.00968	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Dibromochloromethane	ND	F1	0.00484	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dibromoethane (EDB)	ND		0.00484	0.00348	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Dibromomethane	ND		0.00484	0.00285	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dichlorobenzene	ND		0.00484	0.00449	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3-Dichlorobenzene	ND		0.00484	0.00388	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,4-Dichlorobenzene	ND		0.00484	0.00459	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Dichlorodifluoromethane (Freon 12)	ND		0.00968	0.00259	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1-Dichloroethane	ND	F1	0.00484	0.00328	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dichloroethane	ND		0.00484	0.00326	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1-Dichloroethene	ND	F1	0.00484	0.00296	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
cis-1,2-Dichloroethene	ND		0.00484	0.00280	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
trans-1,2-Dichloroethene	ND	F1	0.00484	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2-Dichloropropane	ND	F1	0.00484	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3-Dichloropropane	ND		0.00484	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2,2-Dichloropropane	ND		0.00484	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1-Dichloropropene	ND		0.00484	0.00329	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
cis-1,3-Dichloropropene	ND		0.00484	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
trans-1,3-Dichloropropene	ND		0.00484	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethylbenzene	ND		0.00484	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Hexachlorobutadiene	ND		0.00968	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
2-Hexanone (MBK)	ND	F1	0.00968	0.00285	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Isopropylbenzene	ND		0.00484	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
4-Isopropyltoluene	ND		0.00484	0.00475	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Methyl tert-butyl ether	ND		0.00484	0.00279	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.00968	0.00313	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Methylene Chloride	ND		0.00968	0.00259	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Naphthalene	ND	F1	0.00484	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00484	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Styrene	ND		0.00484	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,1,2-Tetrachloroethane	ND		0.00484	0.00363	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,2,2-Tetrachloroethane	ND	F1	0.00484	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Tetrachloroethene	ND		0.00484	0.00269	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Toluene	ND	F1	0.00484	0.00307	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,3-Trichlorobenzene	ND		0.00484	0.00409	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,4-Trichlorobenzene	ND		0.00484	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3,5-Trichlorobenzene	ND		0.00484	0.00460	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,1-Trichloroethane	ND		0.00484	0.00330	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,1,2-Trichloroethane	ND	F1	0.00484	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Trichloroethene	ND		0.00484	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Trichlorofluoromethane (Freon 11)	ND	F1	0.00484	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,3-Trichloropropane	ND		0.00484	0.00430	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,2,4-Trimethylbenzene	ND		0.00484	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3,5-Trimethylbenzene	ND		0.00484	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Vinyl chloride	ND		0.00484	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
m,p-Xylene	ND		0.00484	0.00661	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
o-Xylene	ND		0.00484	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Tetrahydrofuran	ND		0.00968	0.00245	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethyl ether	ND		0.00484	0.00255	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Tert-amyl methyl ether	ND		0.00484	0.00382	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethyl tert-butyl ether	ND		0.00484	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
di-Isopropyl ether	ND		0.00484	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
tert-Butanol	ND		0.0968	0.0259	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,4-Dioxane	ND		0.0968	0.0301	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Ethanol	ND		0.968	0.0600	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
1,3-Dichloropropene, Total	ND		0.00484	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1
Xylenes, Total	ND		0.0145	0.00484	mg/Kg	☼	03/13/23 09:42	03/13/23 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*03/13/23 09:42*	*03/13/23 15:02*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.389	0.0692	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,2,4-Trichlorobenzene	ND		0.389	0.0891	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,2-Dichlorobenzene	ND		0.389	0.0749	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,3-Dichlorobenzene	ND		0.389	0.0941	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1,4-Dichlorobenzene	ND		0.389	0.0915	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
1-Methylnaphthalene	ND		0.0786	0.0660	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4,5-Trichlorophenol	ND		0.389	0.0445	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4,6-Trichlorophenol	ND		0.197	0.0481	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4-Dichlorophenol	ND		0.197	0.0783	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4-Dimethylphenol	ND		0.389	0.0570	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,4-Dinitrophenol	ND		0.389	0.102	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0406'
Date Collected: 03/03/23 13:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-43
Matrix: Solid
Percent Solids: 84.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.197	0.0461	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2,6-Dinitrotoluene	ND		0.197	0.0461	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Chloronaphthalene	ND		0.389	0.0899	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Chlorophenol	ND		0.197	0.0805	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Methylnaphthalene	ND		0.0786	0.0581	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Methylphenol	ND		0.389	0.0568	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Nitroaniline	ND		0.389	0.0370	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
2-Nitrophenol	ND		0.197	0.0699	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
3 & 4 Methylphenol	ND		0.389	0.0736	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
3,3'-Dichlorobenzidine	ND		0.389	0.0642	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
3-Nitroaniline	ND		0.389	0.0348	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4,6-Dinitro-2-methylphenol	ND		0.389	0.0699	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Bromophenyl phenyl ether	ND		0.389	0.0439	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Chloro-3-methylphenol	ND		0.389	0.0761	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Chloroaniline	ND		0.197	0.0298	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Chlorophenyl phenyl ether	ND		0.389	0.0416	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Nitroaniline	ND		0.197	0.0621	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
4-Nitrophenol	ND		0.389	0.135	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Acenaphthene	ND		0.0786	0.0627	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Acenaphthylene	ND		0.0786	0.0516	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Acetophenone	ND		0.197	0.0480	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Aniline	ND		0.389	0.0298	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Anthracene	ND		0.0786	0.0455	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Azobenzene/Diphenyldiazene	ND		0.389	0.0663	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzidine	ND	F1 F2	0.778	0.115	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[a]anthracene	ND		0.0786	0.0442	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[a]pyrene	ND		0.0786	0.0562	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[b]fluoranthene	ND		0.0786	0.0652	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[g,h,i]perylene	ND		0.0786	0.0614	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzo[k]fluoranthene	ND		0.0786	0.0611	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzoic acid	**1.35**	**F1**	0.389	0.267	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Benzyl alcohol	ND		0.389	0.0705	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Bis(2-chloroethoxy)methane	ND		0.389	0.0676	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Bis(2-chloroethyl)ether	ND		0.197	0.0643	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
bis (2-chloroisopropyl) ether	ND		0.197	0.0875	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Bis(2-ethylhexyl) phthalate	ND		0.197	0.0501	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Butyl benzyl phthalate	ND		0.389	0.0390	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Carbazole	ND		0.197	0.0515	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Chrysene	ND		0.0786	0.0444	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Dibenz(a,h)anthracene	ND		0.0786	0.0600	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Dibenzofuran	ND		0.197	0.0681	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Diethyl phthalate	ND		0.389	0.0426	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Dimethyl phthalate	ND		0.389	0.0507	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Di-n-butyl phthalate	ND		0.389	0.0416	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Di-n-octyl phthalate	ND		0.389	0.0642	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Fluoranthene	ND		0.0786	0.0461	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Fluorene	ND		0.0786	0.0717	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Hexachlorobenzene	ND		0.197	0.0545	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Hexachlorobutadiene	ND		0.197	0.0981	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.197	0.0752	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Hexachloroethane	ND		0.197	0.0773	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0786	0.0667	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Isophorone	ND		0.197	0.0538	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Naphthalene	ND		0.0786	0.0754	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Nitrobenzene	ND		0.197	0.0908	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
N-Nitrosodimethylamine	ND		0.197	0.0516	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
N-Nitrosodi-n-propylamine	ND		0.197	0.0783	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
N-Nitrosodiphenylamine	ND		0.389	0.0496	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pentachloronitrobenzene	ND		0.389	0.0614	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pentachlorophenol	**0.327**	**J B**	0.389	0.159	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Phenanthrene	ND		0.0786	0.0445	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Phenol	ND		0.389	0.0801	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pyrene	ND		0.0786	0.0434	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1
Pyridine	ND		0.389	0.0920	mg/Kg	☼	03/15/23 09:29	03/15/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
2-Fluorophenol (Surr)	*101*		*15 - 110*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
Phenol-d5 (Surr)	*90*		*15 - 110*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/15/23 09:29*	*03/15/23 19:11*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/15/23 09:29*	*03/15/23 19:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.263	0.135	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.263	0.113	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Ethylbenzene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Methyl tert-butyl ether	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Naphthalene	**0.0380**	**J B**	0.0526	0.0357	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
o-Xylene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
Toluene	ND		0.0526	0.0105	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
C5-C8 Aliphatics (unadjusted)	ND		0.263	0.135	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
C9-C10 Aromatics	ND		0.263	0.0368	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1
C9-C12 Aliphatics (unadjusted)	ND		0.263	0.113	mg/Kg	☼	03/09/23 07:17	03/09/23 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/09/23 07:17*	*03/09/23 10:21*	*1*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*	*03/09/23 07:17*	*03/09/23 10:21*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1221	ND		0.0232	0.00685	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1232	ND		0.0232	0.00643	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0232	0.00367	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1248	ND		0.0232	0.00725	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1254	**0.0557**		0.0232	0.0180	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1262	ND		0.0232	0.00540	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1260	ND		0.0232	0.00499	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1
PCB-1268	ND		0.0232	0.00494	mg/Kg	☼	03/09/23 15:30	03/11/23 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*03/09/23 15:30*	*03/11/23 06:50*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoroheptanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorononanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorodecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorotridecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorotetradecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorobutanesulfonic acid	ND		2.33	0.467	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorohexanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NEtFOSAA	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NMeFOSAA	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
10:2 FTS	ND		2.33	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoropentanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoroheptanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorononanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorodecanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctanesulfonamide	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorohexadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorooctadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorobutanoic acid	ND		2.33	0.933	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoropentanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NMeFOSE	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NMeFOSA	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NEtFOSE	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
NEtFOSA	ND		2.33	0.583	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
HFPODA	ND		2.33	1.17	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
DONA	ND		3.50	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
9Cl-PF3ONS	ND		2.33	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
11Cl-PF3OUdS	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluorododecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
Perfluoroundecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1

Client Sample ID: 2023-SB-05-0406' **Lab Sample ID: 620-10117-43**
Date Collected: 03/03/23 13:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.50	0.700	ug/Kg	☼	03/07/23 22:50	03/22/23 11:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
M2-8:2 FTS	*110*		*15 - 200*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
M2-6:2 FTS	*138*		*10 - 200*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C5 PFHxA	*126*		*10 - 174*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C8 PFOA	*124*		*26 - 159*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C6 PFDA	*111*		*26 - 161*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C7 PFUnA	*126*		*12 - 173*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C2 PFTeDA	*110*		*10 - 169*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C3 PFBS	*112*		*27 - 179*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C3 PFHxS	*118*		*24 - 171*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C8 PFOS	*115*		*41 - 154*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d3-NMeFOSAA	*74*		*10 - 178*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d5-NEtFOSAA	*110*		*10 - 193*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C8 FOSA	*101*		*14 - 163*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C4 PFBA	*121*		*28 - 153*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C5 PFPeA	*115*		*24 - 161*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d7-N-MeFOSE-M	*95*		*10 - 179*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d3-NMePFOSA	*75*		*10 - 175*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
d5-NEtPFOSA	*73*		*10 - 180*	*03/07/23 22:50*	*03/22/23 11:46*	*1*
13C3 HFPO-DA	*118*		*10 - 169*	*03/07/23 22:50*	*03/22/23 11:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.99	1.36	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Arsenic	**1.43**	**J**	2.40	1.12	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Barium	**26.3**	**F2**	0.399	0.120	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Beryllium	**0.285**	**J**	0.399	0.0799	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Cadmium	ND		0.399	0.0799	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Chromium	**5.42**		1.20	0.280	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Lead	**4.16**		1.20	0.479	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Nickel	**2.81**		0.799	0.208	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Selenium	ND	F2	3.99	1.20	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Silver	ND	^3+	0.799	0.319	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Vanadium	**6.68**		0.799	0.343	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1
Zinc	**44.1**		1.60	0.639	mg/Kg	☼	03/07/23 19:52	03/09/23 05:45	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0659	0.0220	mg/Kg	☼	03/07/23 20:58	03/08/23 12:03	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0406'
Date Collected: 03/03/23 13:20
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-43
Matrix: Solid
Percent Solids: 84.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.0		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	84.0		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0608'
Date Collected: 03/03/23 13:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-44
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00540	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Acetone	**0.0179**	**J B**	0.0540	0.0121	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Acrylonitrile	ND		0.00540	0.00324	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Benzene	ND		0.00540	0.00361	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromobenzene	ND		0.00540	0.00359	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromochloromethane	ND		0.00540	0.00307	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromodichloromethane	ND		0.00540	0.00396	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromoform	ND		0.00540	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Bromomethane	ND	*+	0.0108	0.00673	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2-Butanone (MEK)	ND		0.0108	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
n-Butylbenzene	ND		0.0108	0.00579	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
sec-Butylbenzene	ND		0.00540	0.00435	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
tert-Butylbenzene	ND		0.00540	0.00425	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Carbon disulfide	ND		0.0108	0.00379	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Carbon tetrachloride	ND		0.00540	0.00340	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chlorobenzene	ND		0.00540	0.00395	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chloroethane	ND		0.0108	0.00396	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chloroform	ND		0.00540	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Chloromethane	ND		0.0108	0.00415	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2-Chlorotoluene	ND		0.00540	0.00430	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
4-Chlorotoluene	ND		0.00540	0.00469	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dibromo-3-Chloropropane	ND		0.0108	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Dibromochloromethane	ND		0.00540	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dibromoethane (EDB)	ND		0.00540	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Dibromomethane	ND		0.00540	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dichlorobenzene	ND		0.00540	0.00501	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3-Dichlorobenzene	ND		0.00540	0.00433	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,4-Dichlorobenzene	ND		0.00540	0.00512	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Dichlorodifluoromethane (Freon 12)	ND		0.0108	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1-Dichloroethane	ND		0.00540	0.00366	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dichloroethane	ND		0.00540	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1-Dichloroethene	ND		0.00540	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
cis-1,2-Dichloroethene	ND		0.00540	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
trans-1,2-Dichloroethene	ND		0.00540	0.00336	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2-Dichloropropane	ND		0.00540	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3-Dichloropropane	ND		0.00540	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2,2-Dichloropropane	ND		0.00540	0.00372	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1-Dichloropropene	ND		0.00540	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
cis-1,3-Dichloropropene	ND		0.00540	0.00352	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
trans-1,3-Dichloropropene	ND		0.00540	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethylbenzene	ND		0.00540	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Hexachlorobutadiene	ND		0.0108	0.00543	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
2-Hexanone (MBK)	ND		0.0108	0.00317	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Isopropylbenzene	ND		0.00540	0.00408	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
4-Isopropyltoluene	ND		0.00540	0.00530	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Methyl tert-butyl ether	ND		0.00540	0.00311	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.0108	0.00349	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Methylene Chloride	**0.00665**	**J B**	0.0108	0.00289	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Naphthalene	ND		0.00540	0.00488	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00540	0.00457	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Styrene	ND		0.00540	0.00418	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,1,2-Tetrachloroethane	ND		0.00540	0.00405	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,2,2-Tetrachloroethane	ND		0.00540	0.00494	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Tetrachloroethene	ND		0.00540	0.00300	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Toluene	ND		0.00540	0.00342	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,3-Trichlorobenzene	ND		0.00540	0.00456	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,4-Trichlorobenzene	ND		0.00540	0.00498	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3,5-Trichlorobenzene	ND		0.00540	0.00513	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,1-Trichloroethane	ND		0.00540	0.00368	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,1,2-Trichloroethane	ND		0.00540	0.00407	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Trichloroethene	ND		0.00540	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Trichlorofluoromethane (Freon 11)	ND		0.00540	0.00412	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,3-Trichloropropane	ND		0.00540	0.00479	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,2,4-Trimethylbenzene	ND		0.00540	0.00457	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3,5-Trimethylbenzene	ND		0.00540	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Vinyl chloride	ND		0.00540	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
m,p-Xylene	ND		0.00540	0.00737	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
o-Xylene	ND		0.00540	0.00394	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Tetrahydrofuran	ND		0.0108	0.00273	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethyl ether	ND		0.00540	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Tert-amyl methyl ether	ND		0.00540	0.00426	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethyl tert-butyl ether	ND		0.00540	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
di-Isopropyl ether	ND		0.00540	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
tert-Butanol	ND		0.108	0.0289	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,4-Dioxane	ND		0.108	0.0336	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
trans-1,4-Dichloro-2-butene	ND		0.0270	0.00398	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Ethanol	ND		1.08	0.0669	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
1,3-Dichloropropene, Total	ND		0.00540	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1
Xylenes, Total	ND		0.0162	0.00540	mg/Kg	☼	03/10/23 09:34	03/10/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/10/23 09:34*	*03/10/23 20:36*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.385	0.0686	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,2,4-Trichlorobenzene	ND		0.385	0.0883	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,2-Dichlorobenzene	ND		0.385	0.0743	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,3-Dichlorobenzene	ND		0.385	0.0933	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1,4-Dichlorobenzene	ND		0.385	0.0907	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
1-Methylnaphthalene	ND		0.0779	0.0654	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4,5-Trichlorophenol	ND		0.385	0.0441	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4,6-Trichlorophenol	ND		0.195	0.0477	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4-Dichlorophenol	ND		0.195	0.0777	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4-Dimethylphenol	ND		0.385	0.0565	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,4-Dinitrophenol	ND		0.385	0.101	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0608'
Date Collected: 03/03/23 13:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-44
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2,6-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Chloronaphthalene	ND		0.385	0.0891	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Chlorophenol	ND		0.195	0.0798	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Methylnaphthalene	ND		0.0779	0.0576	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Methylphenol	ND		0.385	0.0563	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Nitroaniline	ND		0.385	0.0367	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
2-Nitrophenol	ND		0.195	0.0693	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
3 & 4 Methylphenol	ND		0.385	0.0730	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
3,3'-Dichlorobenzidine	ND		0.385	0.0637	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
3-Nitroaniline	ND		0.385	0.0345	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4,6-Dinitro-2-methylphenol	ND		0.385	0.0693	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Bromophenyl phenyl ether	ND		0.385	0.0436	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Chloro-3-methylphenol	ND		0.385	0.0754	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Chloroaniline	ND		0.195	0.0295	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Chlorophenyl phenyl ether	ND		0.385	0.0412	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Nitroaniline	ND		0.195	0.0615	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
4-Nitrophenol	ND		0.385	0.134	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Acenaphthene	ND		0.0779	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Acenaphthylene	ND		0.0779	0.0512	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Acetophenone	ND		0.195	0.0475	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Aniline	ND		0.385	0.0295	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Anthracene	ND		0.0779	0.0451	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Azobenzene/Diphenyldiazene	ND		0.385	0.0658	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzidine	ND		0.771	0.114	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[a]anthracene	ND		0.0779	0.0438	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[a]pyrene	ND		0.0779	0.0557	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[b]fluoranthene	ND		0.0779	0.0646	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[g,h,i]perylene	ND		0.0779	0.0608	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzo[k]fluoranthene	ND		0.0779	0.0606	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzoic acid	ND		0.385	0.265	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Benzyl alcohol	ND		0.385	0.0698	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Bis(2-chloroethoxy)methane	ND		0.385	0.0670	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Bis(2-chloroethyl)ether	ND		0.195	0.0638	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
bis (2-chloroisopropyl) ether	ND		0.195	0.0868	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Bis(2-ethylhexyl) phthalate	ND		0.195	0.0496	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Butyl benzyl phthalate	ND		0.385	0.0387	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Carbazole	ND		0.195	0.0510	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Chrysene	ND		0.0779	0.0440	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Dibenz(a,h)anthracene	ND		0.0779	0.0594	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Dibenzofuran	ND		0.195	0.0675	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Diethyl phthalate	ND		0.385	0.0423	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Dimethyl phthalate	ND		0.385	0.0502	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Di-n-butyl phthalate	ND		0.385	0.0412	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Di-n-octyl phthalate	ND		0.385	0.0637	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Fluoranthene	ND		0.0779	0.0457	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Fluorene	ND		0.0779	0.0711	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Hexachlorobenzene	ND		0.195	0.0541	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Hexachlorobutadiene	ND		0.195	0.0973	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.195	0.0745	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Hexachloroethane	ND		0.195	0.0766	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0779	0.0661	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Isophorone	ND		0.195	0.0534	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Naphthalene	ND		0.0779	0.0747	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Nitrobenzene	ND		0.195	0.0900	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
N-Nitrosodimethylamine	ND		0.195	0.0512	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
N-Nitrosodi-n-propylamine	ND		0.195	0.0777	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
N-Nitrosodiphenylamine	ND		0.385	0.0492	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pentachloronitrobenzene	ND		0.385	0.0608	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pentachlorophenol	ND		0.385	0.158	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Phenanthrene	ND		0.0779	0.0441	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Phenol	ND		0.385	0.0794	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pyrene	ND		0.0779	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1
Pyridine	ND		0.385	0.0912	mg/Kg	☼	03/15/23 09:29	03/16/23 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
Nitrobenzene-d5 (Surr)	*89*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/15/23 09:29*	*03/16/23 21:45*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/15/23 09:29*	*03/16/23 21:45*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Ethylbenzene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Methyl tert-butyl ether	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
m,p-Xylene	ND		0.0972	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Naphthalene	ND		0.0486	0.0330	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
o-Xylene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
Toluene	ND		0.0486	0.00972	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/09/23 07:17	03/09/23 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:16*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1221	ND		0.0223	0.00659	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1232	ND		0.0223	0.00618	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1248	ND		0.0223	0.00697	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1254	ND		0.0223	0.0173	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1262	ND		0.0223	0.00520	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1260	ND		0.0223	0.00479	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1
PCB-1268	ND		0.0223	0.00475	mg/Kg	☼	03/09/23 15:30	03/13/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:08*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoroheptanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorononanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorodecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorotridecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorotetradecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorobutanesulfonic acid	ND		2.30	0.459	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorohexanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NEtFOSAA	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NMeFOSAA	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
10:2 FTS	ND		2.30	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoropentanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoroheptanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorononanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorodecanesulfonic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctanesulfonamide	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorohexadecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorooctadecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorobutanoic acid	ND		2.30	0.918	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoropentanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NMeFOSE	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NMeFOSA	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NEtFOSE	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
NEtFOSA	ND		2.30	0.574	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
HFPODA	ND		2.30	1.15	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
DONA	ND		3.44	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
9Cl-PF3ONS	ND		2.30	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
11Cl-PF3OUdS	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluorododecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
4:2 Fluorotelomer sulfonic acid	ND		2.30	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
Perfluoroundecanoic acid	ND		0.689	0.230	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1

Client Sample ID: 2023-SB-05-0608' **Lab Sample ID: 620-10117-44**
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.30	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.689	ug/Kg	☼	03/19/23 19:30	03/21/23 10:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
M2-8:2 FTS	*130*		*15 - 200*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C5 PFHxA	*133*		*10 - 174*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C4 PFHpA	*132*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C8 PFOA	*142*		*26 - 159*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C9 PFNA	*127*		*26 - 165*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C6 PFDA	*126*		*26 - 161*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C2-PFDoDA	*128*		*11 - 166*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C2 PFTeDA	*150*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C3 PFBS	*132*		*27 - 179*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C3 PFHxS	*136*		*24 - 171*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C8 PFOS	*132*		*41 - 154*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d3-NMeFOSAA	*120*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d5-NEtFOSAA	*112*		*10 - 193*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C8 FOSA	*136*		*14 - 163*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C4 PFBA	*141*		*28 - 153*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C5 PFPeA	*129*		*24 - 161*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d7-N-MeFOSE-M	*119*		*10 - 179*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
d5-NEtPFOSA	*79*		*10 - 180*	*03/19/23 19:30*	*03/21/23 10:18*	*1*
13C3 HFPO-DA	*160*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:18*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.09	1.73	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Arsenic	ND		3.05	1.43	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Barium	**27.4**		0.509	0.153	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Beryllium	**0.243**	**J**	0.509	0.102	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Cadmium	ND		0.509	0.102	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Chromium	**4.65**		1.53	0.356	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Lead	**2.90**		1.53	0.611	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Nickel	**3.58**		1.02	0.265	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Selenium	ND		5.09	1.53	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Silver	ND	^3+	1.02	0.407	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Thallium	ND		3.05	1.32	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Vanadium	**6.57**		1.02	0.438	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1
Zinc	**19.2**		2.04	0.815	mg/Kg	☼	03/07/23 13:12	03/09/23 07:59	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0703	0.0234	mg/Kg	☼	03/07/23 13:21	03/08/23 11:10	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0608'
Date Collected: 03/03/23 13:25
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-44
Matrix: Solid
Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00435	0.00284	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Acetone	ND		0.0435	0.00975	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Acrylonitrile	ND		0.00435	0.00261	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Benzene	ND		0.00435	0.00291	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromobenzene	ND		0.00435	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromochloromethane	ND		0.00435	0.00247	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromodichloromethane	ND		0.00435	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromoform	ND		0.00435	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Bromomethane	ND	*+	0.00871	0.00543	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2-Butanone (MEK)	ND		0.00871	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
n-Butylbenzene	ND		0.00871	0.00467	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
sec-Butylbenzene	ND		0.00435	0.00351	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
tert-Butylbenzene	ND		0.00435	0.00343	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Carbon disulfide	ND		0.00871	0.00306	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Carbon tetrachloride	ND		0.00435	0.00274	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chlorobenzene	ND		0.00435	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chloroethane	ND	*+	0.00871	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chloroform	ND		0.00435	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Chloromethane	ND		0.00871	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2-Chlorotoluene	ND		0.00435	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
4-Chlorotoluene	ND		0.00435	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00871	0.00369	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Dibromochloromethane	ND		0.00435	0.00288	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dibromoethane (EDB)	ND		0.00435	0.00313	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Dibromomethane	ND		0.00435	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dichlorobenzene	ND		0.00435	0.00404	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3-Dichlorobenzene	ND		0.00435	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,4-Dichlorobenzene	ND		0.00435	0.00413	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.00871	0.00233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1-Dichloroethane	ND		0.00435	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dichloroethane	ND		0.00435	0.00294	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1-Dichloroethene	ND		0.00435	0.00267	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
cis-1,2-Dichloroethene	ND		0.00435	0.00252	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
trans-1,2-Dichloroethene	ND		0.00435	0.00271	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2-Dichloropropane	ND		0.00435	0.00288	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3-Dichloropropane	ND		0.00435	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2,2-Dichloropropane	ND		0.00435	0.00300	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1-Dichloropropene	ND		0.00435	0.00296	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
cis-1,3-Dichloropropene	ND		0.00435	0.00284	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
trans-1,3-Dichloropropene	ND		0.00435	0.00331	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethylbenzene	ND		0.00435	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Hexachlorobutadiene	ND		0.00871	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
2-Hexanone (MBK)	ND		0.00871	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Isopropylbenzene	ND		0.00435	0.00329	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
4-Isopropyltoluene	ND		0.00435	0.00428	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Methyl tert-butyl ether	ND		0.00435	0.00251	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00871	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Methylene Chloride	ND		0.00871	0.00233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Naphthalene	ND		0.00435	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00435	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Styrene	ND		0.00435	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,1,2-Tetrachloroethane	ND		0.00435	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,2,2-Tetrachloroethane	ND		0.00435	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Tetrachloroethene	ND		0.00435	0.00242	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Toluene	ND		0.00435	0.00276	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,3-Trichlorobenzene	ND		0.00435	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,4-Trichlorobenzene	ND		0.00435	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3,5-Trichlorobenzene	ND		0.00435	0.00414	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,1-Trichloroethane	ND		0.00435	0.00297	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,1,2-Trichloroethane	ND		0.00435	0.00328	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Trichloroethene	ND		0.00435	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00435	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,3-Trichloropropane	ND		0.00435	0.00387	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,2,4-Trimethylbenzene	ND		0.00435	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3,5-Trimethylbenzene	ND		0.00435	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Vinyl chloride	ND		0.00435	0.00266	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
m,p-Xylene	ND		0.00435	0.00595	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
o-Xylene	ND		0.00435	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Tetrahydrofuran	ND		0.00871	0.00220	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethyl ether	ND		0.00435	0.00229	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Tert-amyl methyl ether	ND		0.00435	0.00344	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethyl tert-butyl ether	ND		0.00435	0.00287	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
di-Isopropyl ether	ND		0.00435	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
tert-Butanol	ND		0.0871	0.0233	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,4-Dioxane	ND		0.0871	0.0271	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
trans-1,4-Dichloro-2-butene	ND		0.0218	0.00321	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Ethanol	ND		0.871	0.0540	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
1,3-Dichloropropene, Total	ND		0.00435	0.00331	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1
Xylenes, Total	ND		0.0131	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/13/23 09:42*	*03/13/23 14:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0668	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,2,4-Trichlorobenzene	ND		0.375	0.0860	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,2-Dichlorobenzene	ND		0.375	0.0724	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,3-Dichlorobenzene	ND		0.375	0.0909	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1,4-Dichlorobenzene	ND		0.375	0.0884	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
1-Methylnaphthalene	ND		0.0759	0.0637	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4,5-Trichlorophenol	ND		0.375	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4-Dichlorophenol	ND		0.190	0.0757	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4-Dimethylphenol	ND		0.375	0.0551	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,4-Dinitrophenol	ND		0.375	0.0988	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Chloronaphthalene	ND		0.375	0.0868	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Chlorophenol	ND		0.190	0.0777	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Methylnaphthalene	ND		0.0759	0.0561	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Methylphenol	ND		0.375	0.0548	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Nitroaniline	ND		0.375	0.0357	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
2-Nitrophenol	ND		0.190	0.0675	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
3 & 4 Methylphenol	ND		0.375	0.0711	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
3,3'-Dichlorobenzidine	ND		0.375	0.0620	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
3-Nitroaniline	ND		0.375	0.0336	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0675	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Bromophenyl phenyl ether	ND		0.375	0.0424	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Chloro-3-methylphenol	ND		0.375	0.0735	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Nitroaniline	ND		0.190	0.0600	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Acenaphthene	ND		0.0759	0.0605	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Acenaphthylene	ND		0.0759	0.0498	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Aniline	ND		0.375	0.0288	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Anthracene	ND		0.0759	0.0439	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0641	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzidine	ND		0.751	0.111	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[a]anthracene	ND		0.0759	0.0427	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[a]pyrene	ND		0.0759	0.0543	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[b]fluoranthene	ND		0.0759	0.0629	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[g,h,i]perylene	ND		0.0759	0.0593	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzo[k]fluoranthene	ND		0.0759	0.0591	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzoic acid	ND		0.375	0.258	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Benzyl alcohol	ND		0.375	0.0680	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0653	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Bis(2-chloroethyl)ether	ND		0.190	0.0621	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0845	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Butyl benzyl phthalate	ND		0.375	0.0377	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Chrysene	ND		0.0759	0.0429	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Dibenz(a,h)anthracene	ND		0.0759	0.0579	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Dibenzofuran	ND		0.190	0.0658	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Diethyl phthalate	ND		0.375	0.0412	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Dimethyl phthalate	ND		0.375	0.0489	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Di-n-butyl phthalate	ND		0.375	0.0402	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Di-n-octyl phthalate	ND		0.375	0.0620	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Fluoranthene	ND		0.0759	0.0445	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Fluorene	ND		0.0759	0.0693	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Hexachlorobenzene	ND		0.190	0.0527	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Hexachlorobutadiene	ND		0.190	0.0948	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1

Client Sample ID: 2023-SB-05-0810' **Lab Sample ID: 620-10117-45**
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0726	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Hexachloroethane	ND		0.190	0.0746	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0759	0.0644	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Isophorone	ND		0.190	0.0520	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Naphthalene	ND		0.0759	0.0728	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Nitrobenzene	ND		0.190	0.0877	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
N-Nitrosodimethylamine	ND		0.190	0.0498	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0757	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
N-Nitrosodiphenylamine	ND		0.375	0.0479	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pentachloronitrobenzene	ND		0.375	0.0593	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pentachlorophenol	ND		0.375	0.154	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Phenanthrene	ND		0.0759	0.0430	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Phenol	ND		0.375	0.0774	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pyrene	ND		0.0759	0.0419	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1
Pyridine	ND		0.375	0.0889	mg/Kg	☼	03/15/23 09:29	03/16/23 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*15 - 110*	*03/15/23 09:29*	*03/16/23 22:14*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/15/23 09:29*	*03/16/23 22:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.247	0.126	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.247	0.106	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Ethylbenzene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Methyl tert-butyl ether	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
m,p-Xylene	ND		0.0987	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Naphthalene	ND		0.0493	0.0336	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
o-Xylene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
Toluene	ND		0.0493	0.00987	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
C5-C8 Aliphatics (unadjusted)	ND		0.247	0.126	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
C9-C10 Aromatics	ND		0.247	0.0345	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1
C9-C12 Aliphatics (unadjusted)	ND		0.247	0.106	mg/Kg	☼	03/09/23 07:17	03/09/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:55*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 16:55*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1221	ND		0.0223	0.00660	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1232	ND		0.0223	0.00618	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1

Client Sample ID: 2023-SB-05-0810' **Lab Sample ID: 620-10117-45**
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00353	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1248	ND		0.0223	0.00698	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1254	ND		0.0223	0.0174	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1262	ND		0.0223	0.00520	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1260	ND		0.0223	0.00480	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1
PCB-1268	ND		0.0223	0.00476	mg/Kg	☼	03/09/23 15:30	03/11/23 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*
Tetrachloro-m-xylene	*47*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*
DCB Decachlorobiphenyl (Surr)	*43*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*
DCB Decachlorobiphenyl (Surr)	*35*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoroheptanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorononanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorodecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorotridecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorotetradecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorobutanesulfonic acid	ND		2.22	0.444	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorohexanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
10:2 FTS	ND		2.22	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoropentanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoroheptanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorononanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorodecanesulfonic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctanesulfonamide	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorohexadecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorooctadecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorobutanoic acid	ND		2.22	0.888	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoropentanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NMeFOSE	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NMeFOSA	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NEtFOSE	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
NEtFOSA	ND		2.22	0.555	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
DONA	ND		3.33	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
11Cl-PF3OUdS	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluorododecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
Perfluoroundecanoic acid	ND		0.666	0.222	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1

Client Sample ID: 2023-SB-05-0810' **Lab Sample ID: 620-10117-45**
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1
8:2 Fluorotelomer sulfonic acid	ND		3.33	0.666	ug/Kg	☼	03/19/23 19:30	03/21/23 10:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
M2-8:2 FTS	*140*		*15 - 200*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
M2-6:2 FTS	*123*		*10 - 200*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C5 PFHxA	*140*		*10 - 174*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C4 PFHpA	*147*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C8 PFOA	*148*		*26 - 159*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C9 PFNA	*151*		*26 - 165*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C6 PFDA	*137*		*26 - 161*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C2-PFDoDA	*127*		*11 - 166*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C2 PFTeDA	*142*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C3 PFBS	*147*		*27 - 179*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C3 PFHxS	*147*		*24 - 171*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C8 PFOS	*149*		*41 - 154*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d3-NMeFOSAA	*122*		*10 - 178*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d5-NEtFOSAA	*119*		*10 - 193*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C8 FOSA	*137*		*14 - 163*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C4 PFBA	*153*		*28 - 153*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C5 PFPeA	*149*		*24 - 161*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d7-N-MeFOSE-M	*120*		*10 - 179*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d9-N-EtFOSE-M	*121*		*10 - 185*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
d5-NEtPFOSA	*111*		*10 - 180*	*03/19/23 19:30*	*03/21/23 10:52*	*1*
13C3 HFPO-DA	*151*		*10 - 169*	*03/19/23 19:30*	*03/21/23 10:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.96	1.35	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Arsenic	**1.54**	**J**	2.38	1.11	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Barium	**33.6**		0.396	0.119	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Beryllium	**0.276**	**J**	0.396	0.0793	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Cadmium	ND		0.396	0.0793	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Chromium	**5.74**		1.19	0.277	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Lead	**2.77**		1.19	0.476	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Nickel	**4.37**		0.793	0.206	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Selenium	ND		3.96	1.19	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Silver	ND	^3+	0.793	0.317	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Thallium	ND		2.38	1.03	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Vanadium	**8.82**		0.793	0.341	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1
Zinc	**17.1**		1.59	0.634	mg/Kg	☼	03/07/23 13:12	03/09/23 08:28	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0666	0.0222	mg/Kg	☼	03/07/23 13:21	03/08/23 11:26	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0810'
Date Collected: 03/03/23 13:30
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-45
Matrix: Solid
Percent Solids: 85.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.2		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	85.8		0.1	0.1	%			03/06/23 11:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-1012'
Date Collected: 03/03/23 13:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-46
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00483	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Acetone	ND		0.0483	0.0108	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Acrylonitrile	ND		0.00483	0.00290	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Benzene	ND		0.00483	0.00323	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromobenzene	ND		0.00483	0.00322	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromochloromethane	ND		0.00483	0.00275	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromodichloromethane	ND		0.00483	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromoform	ND		0.00483	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Bromomethane	ND	*+	0.00967	0.00602	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2-Butanone (MEK)	ND		0.00967	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
n-Butylbenzene	ND		0.00967	0.00518	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
sec-Butylbenzene	ND		0.00483	0.00390	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
tert-Butylbenzene	ND		0.00483	0.00381	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Carbon disulfide	ND		0.00967	0.00339	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Carbon tetrachloride	ND		0.00483	0.00305	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chlorobenzene	ND		0.00483	0.00354	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chloroethane	ND		0.00967	0.00355	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chloroform	ND		0.00483	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Chloromethane	ND		0.00967	0.00371	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2-Chlorotoluene	ND		0.00483	0.00385	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
4-Chlorotoluene	ND		0.00483	0.00420	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dibromo-3-Chloropropane	ND		0.00967	0.00410	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Dibromochloromethane	ND		0.00483	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dibromoethane (EDB)	ND		0.00483	0.00347	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Dibromomethane	ND		0.00483	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dichlorobenzene	ND		0.00483	0.00449	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3-Dichlorobenzene	ND		0.00483	0.00388	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,4-Dichlorobenzene	ND		0.00483	0.00458	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Dichlorodifluoromethane (Freon 12)	ND		0.00967	0.00259	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1-Dichloroethane	ND		0.00483	0.00328	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dichloroethane	ND		0.00483	0.00326	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1-Dichloroethene	ND		0.00483	0.00296	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
cis-1,2-Dichloroethene	ND		0.00483	0.00279	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
trans-1,2-Dichloroethene	ND		0.00483	0.00301	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2-Dichloropropane	ND		0.00483	0.00320	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3-Dichloropropane	ND		0.00483	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2,2-Dichloropropane	ND		0.00483	0.00334	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1-Dichloropropene	ND		0.00483	0.00329	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
cis-1,3-Dichloropropene	ND		0.00483	0.00315	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
trans-1,3-Dichloropropene	ND		0.00483	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethylbenzene	ND		0.00483	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Hexachlorobutadiene	ND		0.00967	0.00486	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
2-Hexanone (MBK)	ND		0.00967	0.00284	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Isopropylbenzene	ND		0.00483	0.00365	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
4-Isopropyltoluene	ND		0.00483	0.00475	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Methyl tert-butyl ether	ND		0.00483	0.00278	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.00967	0.00312	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Methylene Chloride	ND		0.00967	0.00259	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Naphthalene	ND		0.00483	0.00437	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Styrene	ND		0.00483	0.00374	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,1,2-Tetrachloroethane	ND		0.00483	0.00363	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,2,2-Tetrachloroethane	ND		0.00483	0.00443	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Tetrachloroethene	ND		0.00483	0.00269	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Toluene	ND		0.00483	0.00306	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,3-Trichlorobenzene	ND		0.00483	0.00408	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,4-Trichlorobenzene	ND		0.00483	0.00446	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3,5-Trichlorobenzene	ND		0.00483	0.00459	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,1-Trichloroethane	ND		0.00483	0.00330	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,1,2-Trichloroethane	ND		0.00483	0.00364	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Trichloroethene	ND		0.00483	0.00325	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Trichlorofluoromethane (Freon 11)	ND		0.00483	0.00369	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,3-Trichloropropane	ND		0.00483	0.00429	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,2,4-Trimethylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3,5-Trimethylbenzene	ND		0.00483	0.00411	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Vinyl chloride	ND		0.00483	0.00295	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
m,p-Xylene	ND		0.00483	0.00660	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
o-Xylene	ND		0.00483	0.00353	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Tetrahydrofuran	ND		0.00967	0.00245	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethyl ether	ND		0.00483	0.00254	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Tert-amyl methyl ether	ND		0.00483	0.00382	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethyl tert-butyl ether	ND		0.00483	0.00318	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
di-Isopropyl ether	ND		0.00483	0.00345	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
tert-Butanol	ND		0.0967	0.0259	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,4-Dioxane	ND		0.0967	0.0301	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00357	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Ethanol	ND		0.967	0.0599	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
1,3-Dichloropropene, Total	ND		0.00483	0.00367	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1
Xylenes, Total	ND		0.0145	0.00483	mg/Kg	☼	03/10/23 09:34	03/10/23 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/10/23 09:34*	*03/10/23 21:27*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.391	0.0695	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,2,4-Trichlorobenzene	ND		0.391	0.0895	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,2-Dichlorobenzene	ND		0.391	0.0753	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,3-Dichlorobenzene	ND		0.391	0.0946	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1,4-Dichlorobenzene	ND		0.391	0.0920	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
1-Methylnaphthalene	ND		0.0790	0.0663	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4,5-Trichlorophenol	ND		0.391	0.0448	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4,6-Trichlorophenol	ND		0.198	0.0483	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4-Dichlorophenol	ND		0.198	0.0788	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4-Dimethylphenol	ND		0.391	0.0573	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,4-Dinitrophenol	ND		0.391	0.103	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-1012'
Date Collected: 03/03/23 13:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-46
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2,6-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Chloronaphthalene	ND		0.391	0.0904	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Chlorophenol	ND		0.198	0.0809	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Methylnaphthalene	ND		0.0790	0.0584	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Methylphenol	ND		0.391	0.0571	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Nitroaniline	ND		0.391	0.0372	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
2-Nitrophenol	ND		0.198	0.0702	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
3 & 4 Methylphenol	ND		0.391	0.0740	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
3,3'-Dichlorobenzidine	ND		0.391	0.0646	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
3-Nitroaniline	ND		0.391	0.0349	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4,6-Dinitro-2-methylphenol	ND		0.391	0.0702	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Bromophenyl phenyl ether	ND		0.391	0.0442	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Chloro-3-methylphenol	ND		0.391	0.0765	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Chloroaniline	ND		0.198	0.0300	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Chlorophenyl phenyl ether	ND		0.391	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Nitroaniline	ND		0.198	0.0624	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
4-Nitrophenol	ND		0.391	0.136	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Acenaphthene	ND		0.0790	0.0630	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Acenaphthylene	ND		0.0790	0.0519	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Acetophenone	ND		0.198	0.0482	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Aniline	ND		0.391	0.0300	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Anthracene	ND		0.0790	0.0457	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Azobenzene/Diphenyldiazene	ND		0.391	0.0667	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzidine	ND		0.782	0.116	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[a]anthracene	ND		0.0790	0.0444	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[a]pyrene	ND		0.0790	0.0565	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[b]fluoranthene	ND		0.0790	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[g,h,i]perylene	ND		0.0790	0.0617	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzo[k]fluoranthene	ND		0.0790	0.0615	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzoic acid	ND		0.391	0.269	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Benzyl alcohol	ND		0.391	0.0708	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Bis(2-chloroethoxy)methane	ND		0.391	0.0680	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Bis(2-chloroethyl)ether	ND		0.198	0.0647	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
bis (2-chloroisopropyl) ether	ND		0.198	0.0880	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Bis(2-ethylhexyl) phthalate	**0.111**	**J**	0.198	0.0503	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Butyl benzyl phthalate	ND		0.391	0.0392	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Carbazole	ND		0.198	0.0518	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Chrysene	ND		0.0790	0.0447	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Dibenz(a,h)anthracene	ND		0.0790	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Dibenzofuran	ND		0.198	0.0685	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Diethyl phthalate	ND		0.391	0.0429	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Dimethyl phthalate	ND		0.391	0.0509	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Di-n-butyl phthalate	ND		0.391	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Di-n-octyl phthalate	ND		0.391	0.0646	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Fluoranthene	ND		0.0790	0.0463	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Fluorene	ND		0.0790	0.0721	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Hexachlorobenzene	ND		0.198	0.0548	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Hexachlorobutadiene	ND		0.198	0.0987	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.198	0.0756	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Hexachloroethane	ND		0.198	0.0777	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0790	0.0670	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Isophorone	ND		0.198	0.0541	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Naphthalene	ND		0.0790	0.0758	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Nitrobenzene	ND		0.198	0.0913	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
N-Nitrosodimethylamine	ND		0.198	0.0519	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
N-Nitrosodi-n-propylamine	ND		0.198	0.0788	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
N-Nitrosodiphenylamine	ND		0.391	0.0499	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pentachloronitrobenzene	ND		0.391	0.0617	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pentachlorophenol	ND		0.391	0.160	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Phenanthrene	ND		0.0790	0.0448	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Phenol	ND		0.391	0.0805	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pyrene	ND		0.0790	0.0436	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1
Pyridine	ND		0.391	0.0925	mg/Kg	☼	03/15/23 09:29	03/17/23 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*30 - 130*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
Phenol-d5 (Surr)	*88*		*15 - 110*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*	*03/15/23 09:29*	*03/17/23 16:39*	*1*
Terphenyl-d14	*97*		*30 - 130*	*03/15/23 09:29*	*03/17/23 16:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.226	0.116	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.226	0.0966	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Ethylbenzene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Methyl tert-butyl ether	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
m,p-Xylene	ND		0.0903	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Naphthalene	ND		0.0451	0.0307	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
o-Xylene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
Toluene	ND		0.0451	0.00903	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.226	0.116	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
C9-C10 Aromatics	ND		0.226	0.0316	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.226	0.0966	mg/Kg	☼	03/09/23 07:17	03/09/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/09/23 07:17*	*03/09/23 17:34*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 17:34*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0165	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1221	ND		0.0230	0.00679	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1232	ND		0.0230	0.00636	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00363	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1248	ND		0.0230	0.00718	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1254	**0.0354**		0.0230	0.0179	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1262	ND		0.0230	0.00535	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1260	ND		0.0230	0.00494	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1
PCB-1268	ND		0.0230	0.00489	mg/Kg	☼	03/09/23 15:30	03/13/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:26*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoroheptanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorononanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorodecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorotridecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorotetradecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorobutanesulfonic acid	ND		2.20	0.439	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorohexanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NEtFOSAA	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NMeFOSAA	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
10:2 FTS	ND		2.20	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoropentanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoroheptanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorononanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorodecanesulfonic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctanesulfonamide	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorohexadecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorooctadecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorobutanoic acid	ND		2.20	0.879	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoropentanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NMeFOSE	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NMeFOSA	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NEtFOSE	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
NEtFOSA	ND		2.20	0.549	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
HFPODA	ND		2.20	1.10	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
DONA	ND		3.30	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
9Cl-PF3ONS	ND		2.20	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
11Cl-PF3OUdS	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluorododecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
4:2 Fluorotelomer sulfonic acid	ND		2.20	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
Perfluoroundecanoic acid	ND		0.659	0.220	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1

Client Sample ID: 2023-SB-05-1012' **Lab Sample ID: 620-10117-46**
Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.20	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1
8:2 Fluorotelomer sulfonic acid	ND		3.30	0.659	ug/Kg	☼	03/19/23 19:30	03/21/23 11:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
M2-8:2 FTS	*134*		*15 - 200*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
M2-6:2 FTS	*132*		*10 - 200*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C5 PFHxA	*147*		*10 - 174*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C4 PFHpA	*140*		*10 - 178*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C8 PFOA	*142*		*26 - 159*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C9 PFNA	*146*		*26 - 165*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C6 PFDA	*148*		*26 - 161*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C7 PFUnA	*137*		*12 - 173*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C2-PFDoDA	*135*		*11 - 166*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C2 PFTeDA	*156*		*10 - 169*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C3 PFBS	*135*		*27 - 179*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C3 PFHxS	*142*		*24 - 171*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C8 PFOS	*145*		*41 - 154*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d3-NMeFOSAA	*123*		*10 - 178*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d5-NEtFOSAA	*145*		*10 - 193*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C8 FOSA	*125*		*14 - 163*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C4 PFBA	*146*		*28 - 153*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C5 PFPeA	*138*		*24 - 161*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d7-N-MeFOSE-M	*121*		*10 - 179*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d3-NMePFOSA	*87*		*10 - 175*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d9-N-EtFOSE-M	*126*		*10 - 185*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
d5-NEtPFOSA	*88*		*10 - 180*	*03/19/23 19:30*	*03/21/23 11:03*	*1*
13C3 HFPO-DA	*160*		*10 - 169*	*03/19/23 19:30*	*03/21/23 11:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.60	1.56	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Arsenic	**1.85**	**J**	2.76	1.29	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Barium	**19.4**		0.460	0.138	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Beryllium	**0.235**	**J**	0.460	0.0920	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Cadmium	ND		0.460	0.0920	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Chromium	**4.84**		1.38	0.322	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Lead	**2.97**		1.38	0.552	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Nickel	**2.84**		0.920	0.239	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Selenium	ND		4.60	1.38	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Silver	ND	^3+	0.920	0.368	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Thallium	ND		2.76	1.20	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Vanadium	**5.78**		0.920	0.395	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1
Zinc	**15.0**		1.84	0.736	mg/Kg	☼	03/07/23 13:12	03/09/23 08:25	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0667	0.0222	mg/Kg	☼	03/07/23 13:21	03/08/23 11:24	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-1012'
Date Collected: 03/03/23 13:35
Date Received: 03/03/23 16:09

Lab Sample ID: 620-10117-46
Matrix: Solid
Percent Solids: 84.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.7		0.1	0.1	%			03/06/23 11:52	1
Percent Solids (EPA Moisture)	84.3		0.1	0.1	%			03/06/23 11:52	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10117-1	2023-MW-06-0002'	95	103	95	100
620-10117-2	2023-MW-06-0204'	97	103	96	103
620-10117-3	2023-MW-06-0406'	98	102	93	101
620-10117-4	2023-MW-06-0608'	97	102	92	99
620-10117-5	2023-MW-06-0810'	96	103	94	102
620-10117-6	2023-MW-06-1012'	98	103	92	101
620-10117-7	2023-SB-08-0002'	89	102	93	106
620-10117-8	2023-SB-08-0204'	95	103	94	103
620-10117-9	2023-SB-08-0406'	98	102	94	103
620-10117-10	2023-SB-08-0608'	95	103	94	104
620-10117-11	2023-SB-08-0810'	95 *3	103 *3	116 *3	115 *3
620-10117-11 - RA	2023-SB-08-0810'	91 *3	101 *3	115 *3	120 *3
620-10117-12	2023-SB-08-1012'	78 *3	102 *3	150 S1+ *3	147 S1+ *3
620-10117-12 - RA	2023-SB-08-1012'	77 *3	99 *3	152 *3 S1+	153 *3 S1+
620-10117-13	2023-SB-12-0002'	95	102	93	103
620-10117-14	2023-SB-12-0204'	94	103	90	101
620-10117-15	2023-SB-12-0406'	94	102	90	100
620-10117-16	2023-SB-12-0608'	95	102	90	104
620-10117-17	2023-SB-12-0810'	97	103	96	103
620-10117-18	2023-SB-12-1012'	77 *3	96 *3	165 S1+ *3	154 S1+ *3
620-10117-18 - RA	2023-SB-12-1012'	70 *3	89 *3	158 *3 S1+	137 *3 S1+
620-10117-18 MS	2023-SB-12-1012'	102	105	85	104
620-10117-18 MSD	2023-SB-12-1012'	102	105	92	106
620-10117-19	2023-SB-07-0002'	96	103	93	98
620-10117-20	2023-SB-07-0204'	94	103	92	102
620-10117-21	2023-SB-07-0406'	84 *3	102 *3	131 S1+ *3	133 S1+ *3
620-10117-21 - RA	2023-SB-07-0406'	85 *3	105 *3	121 *3	125 *3
620-10117-22	2023-SB-07-0608'	100	101	96	103
620-10117-23	2023-SB-07-0810'	98	101	96	103
620-10117-24	2023-SB-07-1012'	98	102	93	101
620-10117-25	2023-MW-05-0002'	90	99	94	102
620-10117-26	2023-MW-05-0204'	89	100	95	104
620-10117-27	2023-MW-05-0608'	97	103	92	102
620-10117-28	2023-MW-05-0810'	95	102	93	104
620-10117-29	2023-MW-05-1012'	95	103	92	103
620-10117-30	2023-MW-05-0406'	77 *3	97	100	109
620-10117-30 - RA	2023-MW-05-0406'	83	101	99	108
620-10117-31	2023-FD-06	94	103	92	103
620-10117-32	2023-FD-07	95	104	92	104
620-10117-33	2023-SB-06-0002'	93	104	92	102
620-10117-34	2023-SB-06-0204'	96	103	95	104
620-10117-35	2023-SB-06-0406'	95	104	92	105
620-10117-36	2023-SB-06-0608'	96	103	91	104
620-10117-37	2023-SB-06-0810'	97	103	93	103
620-10117-38	2023-SB-06-1012'	95	104	91	105
620-10117-39	Trip Blank -05	96	102	91	103

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10117-40	Trip Blank -06	97	100	91	103
620-10117-41	2023-SB-05-0002'	68 S1-	95	95	107
620-10117-41 - RA	2023-SB-05-0002'	80	98	91	109
620-10117-42	2023-SB-05-0204'	94	104	94	104
620-10117-43	2023-SB-05-0406'	97	105	94	106
620-10117-43 MS	2023-SB-05-0406'	98	103	92	106
620-10117-43 MSD	2023-SB-05-0406'	101	104	92	106
620-10117-44	2023-SB-05-0608'	97	104	92	105
620-10117-45	2023-SB-05-0810'	98	102	90	104
620-10117-46	2023-SB-05-1012'	96	105	93	104
LCS 620-20327/1-A	Lab Control Sample	102	102	94	100
LCS 620-20360/1-A	Lab Control Sample	101	103	92	102
LCS 620-20408/1-A	Lab Control Sample	102	103	93	103
LCS 620-20432/1-A	Lab Control Sample	101	103	90	103
LCS 620-20472/1-A	Lab Control Sample	103	103	92	103
LCS 620-20516/1-A	Lab Control Sample	96	96	92	99
LCSD 620-20327/2-A	Lab Control Sample Dup	101	101	94	99
LCSD 620-20360/2-A	Lab Control Sample Dup	103	102	94	101
LCSD 620-20408/2-A	Lab Control Sample Dup	102	103	93	101
LCSD 620-20432/2-A	Lab Control Sample Dup	101	102	90	102
LCSD 620-20472/2-A	Lab Control Sample Dup	103	103	93	103
LCSD 620-20516/2-A	Lab Control Sample Dup	96	95	92	98
MB 620-20327/3-A	Method Blank	100	101	94	99
MB 620-20360/3-A	Method Blank	100	103	94	102
MB 620-20408/3-A	Method Blank	98	103	94	101
MB 620-20432/3-A	Method Blank	100	101	92	102
MB 620-20472/3-A	Method Blank	100	102	94	106
MB 620-20516/3-A	Method Blank	93	95	95	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10117-1	2023-MW-06-0002'	71	89	78	82	82	78
620-10117-2	2023-MW-06-0204'	77	98	82	85	74	82
620-10117-3	2023-MW-06-0406'	77	100	78	85	74	83
620-10117-4	2023-MW-06-0608'	81	105	86	91	76	84
620-10117-5	2023-MW-06-0810'	91	115 S1+	96	101	85	88
620-10117-6	2023-MW-06-1012'	87	109	79	97	83	88
620-10117-7	2023-SB-08-0002'	79	87	85	57	71	85
620-10117-8	2023-SB-08-0204'	88	108	94	97	82	93
620-10117-9	2023-SB-08-0406'	74	95	81	83	77	80
620-10117-10	2023-SB-08-0608'	86	99	80	90	79	94

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10117-11	2023-SB-08-0810'	82	99	83	89	68	87
620-10117-12	2023-SB-08-1012'	84	102	86	93	78	94
620-10117-13	2023-SB-12-0002'	70	20	76	21	37	74
620-10117-13	2023-SB-12-0002'	52	66	59	37	101	50
620-10117-14	2023-SB-12-0204'	77	87	85	61	59	85
620-10117-15	2023-SB-12-0406'	78	93	81	63	67	88
620-10117-16	2023-SB-12-0608'	77	92	89	62	69	89
620-10117-17	2023-SB-12-0810'	83	108	105	72	80	99
620-10117-18	2023-SB-12-1012'	62	74	52	50	70	92
620-10117-18 MS	2023-SB-12-1012'	86	86	86	83	92	88
620-10117-18 MSD	2023-SB-12-1012'	79	81	79	75	85	84
620-10117-19	2023-SB-07-0002'	84	77	83	63	51	99
620-10117-19	2023-SB-07-0002'	70	73	73	57	57	77
620-10117-20	2023-SB-07-0204'	82	101	87	69	72	83
620-10117-21	2023-SB-07-0406'	81	89	83	78	80	79
620-10117-21	2023-SB-07-0406'	55	60	58	62	80	48
620-10117-22	2023-SB-07-0608'	89	106	86	94	90	94
620-10117-23	2023-SB-07-0810'	84	106	94	93	82	98
620-10117-24	2023-SB-07-1012'	92	110	80	97	89	102
620-10117-25	2023-MW-05-0002'	75	76	75	65	71	66
620-10117-25	2023-MW-05-0002'	65	71	67	67	68	67
620-10117-26	2023-MW-05-0204'	78	88	79	73	70	83
620-10117-27	2023-MW-05-0608'	84	106	88	88	82	95
620-10117-28	2023-MW-05-0810'	80	102	85	87	86	101
620-10117-29	2023-MW-05-1012'	94	106	86	98	86	101
620-10117-30	2023-MW-05-0406'	73	90	72	76	76	77
620-10117-31	2023-FD-06	62	80	68	59	66	62
620-10117-31	2023-FD-06	82	108	85	94	86	79
620-10117-32	2023-FD-07	84	108	80	86	77	100
620-10117-33	2023-SB-06-0002'	60	76	68	69	75	64
620-10117-34	2023-SB-06-0204'	87	65	75	56	70	92
620-10117-34	2023-SB-06-0204'	57	68	62	59	84	56
620-10117-35	2023-SB-06-0406'	75	98	73	71	83	86
620-10117-36	2023-SB-06-0608'	84	87	90	62	70	94
620-10117-37	2023-SB-06-0810'	76	81	74	58	66	88
620-10117-38	2023-SB-06-1012'	83	95	83	66	75	66
620-10117-41	2023-SB-05-0002'	66	73	71	69	63	64
620-10117-42	2023-SB-05-0204'	78	73	67	55	67	81
620-10117-43	2023-SB-05-0406'	80	101	81	90	83	88
620-10117-43 MS	2023-SB-05-0406'	79	91	80	89	91	78
620-10117-43 MSD	2023-SB-05-0406'	75	82	71	80	97	84
620-10117-44	2023-SB-05-0608'	81	95	89	67	80	93
620-10117-45	2023-SB-05-0810'	70	86	88	62	73	89
620-10117-46	2023-SB-05-1012'	92	90	82	88	68	97
LCS 620-20475/2-A	Lab Control Sample	76	93	79	83	79	76
LCS 620-20520/2-A	Lab Control Sample	71	79	72	77	79	82
LCS 620-20546/2-A	Lab Control Sample	79	93	84	88	85	82
LCSD 620-20475/3-A	Lab Control Sample Dup	76	91	79	82	76	75
LCSD 620-20520/3-A	Lab Control Sample Dup	80	91	82	88	85	82
LCSD 620-20546/3-A	Lab Control Sample Dup	77	93	84	85	79	76

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
MB 620-20475/1-A	Method Blank	66	81	68	69	46	70
MB 620-20520/1-A	Method Blank	58	71	64	62	50	76
MB 620-20546/1-A	Method Blank	69	86	75	78	60	79

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT-F1	TFT-P2
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10117-1	2023-MW-06-0002'	102	100
620-10117-2	2023-MW-06-0204'	98	96
620-10117-3	2023-MW-06-0406'	97	96
620-10117-4	2023-MW-06-0608'	96	94
620-10117-5	2023-MW-06-0810'	97	95
620-10117-6	2023-MW-06-1012'	97	96
620-10117-7	2023-SB-08-0002'	95	93
620-10117-8	2023-SB-08-0204'	96	96
620-10117-9	2023-SB-08-0406'	95	94
620-10117-10	2023-SB-08-0608'	97	97
620-10117-11	2023-SB-08-0810'	96	95
620-10117-12	2023-SB-08-1012'	94	94
620-10117-13	2023-SB-12-0002'	90	107
620-10117-14	2023-SB-12-0204'	96	96
620-10117-15	2023-SB-12-0406'	95	95
620-10117-16	2023-SB-12-0608'	96	95
620-10117-17	2023-SB-12-0810'	97	96
620-10117-18	2023-SB-12-1012'	97	98
620-10117-18 MS	2023-SB-12-1012'	98	99
620-10117-18 MSD	2023-SB-12-1012'	97	98
620-10117-19	2023-SB-07-0002'	98	98
620-10117-20	2023-SB-07-0204'	96	96
620-10117-21	2023-SB-07-0406'	96	95
620-10117-22	2023-SB-07-0608'	96	95
620-10117-23	2023-SB-07-0810'	94	93
620-10117-24	2023-SB-07-1012'	96	95
620-10117-25	2023-MW-05-0002'	95	94
620-10117-26	2023-MW-05-0204'	94	92
620-10117-27	2023-MW-05-0608'	92	92
620-10117-28	2023-MW-05-0810'	92	92
620-10117-29	2023-MW-05-1012'	99	99
620-10117-30	2023-MW-05-0406'	101	100
620-10117-31	2023-FD-06	100	100

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT-F1 (70-130)	TFT-P2 (70-130)
620-10117-32	2023-FD-07	97	96
620-10117-33	2023-SB-06-0002'	99	99
620-10117-34	2023-SB-06-0204'	99	99
620-10117-35	2023-SB-06-0406'	96	96
620-10117-36	2023-SB-06-0608'	100	99
620-10117-37	2023-SB-06-0810'	99	98
620-10117-38	2023-SB-06-1012'	99	98
620-10117-41	2023-SB-05-0002'	102	99
620-10117-42	2023-SB-05-0204'	100	98
620-10117-43	2023-SB-05-0406'	101	101
620-10117-43 MS	2023-SB-05-0406'	102	102
620-10117-43 MSD	2023-SB-05-0406'	102	102
620-10117-44	2023-SB-05-0608'	98	96
620-10117-45	2023-SB-05-0810'	97	96
620-10117-46	2023-SB-05-1012'	98	96
LCS 480-660655/2-A	Lab Control Sample	98	99
LCS 480-660799/2-A	Lab Control Sample	96	97
LCS 480-660942/2-A	Lab Control Sample	98	99
LCSD 480-660655/3-A	Lab Control Sample Dup	98	97
LCSD 480-660799/3-A	Lab Control Sample Dup	95	96
LCSD 480-660942/3-A	Lab Control Sample Dup	98	98
MB 480-660655/1-A	Method Blank	118	116
MB 480-660799/1-A	Method Blank	99	99
MB 480-660942/1-A	Method Blank	115	114

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)
TFT-P = a,a,a-Trifluorotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)
620-10117-1	2023-MW-06-0002'	101	101	113	117
620-10117-2	2023-MW-06-0204'	101	103	112	117
620-10117-3	2023-MW-06-0406'	99	102	110	114
620-10117-4	2023-MW-06-0608'	94	97	103	107
620-10117-5	2023-MW-06-0810'	81	68	96	80
620-10117-6	2023-MW-06-1012'	92	93	99	99
620-10117-7	2023-SB-08-0002'	98	102	115	117
620-10117-8	2023-SB-08-0204'	109	111	121	124
620-10117-9	2023-SB-08-0406'	94	97	110	116
620-10117-10	2023-SB-08-0608'	69	71	81	84
620-10117-11	2023-SB-08-0810'	99	106	117	123
620-10117-12	2023-SB-08-1012'	96	99	104	109
620-10117-13	2023-SB-12-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-14	2023-SB-12-0204'	94	96	95	103
620-10117-15	2023-SB-12-0406'	87	89	94	102
620-10117-16	2023-SB-12-0608'	96	98	102	105

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10117-17	2023-SB-12-0810'	60	62	67	70
620-10117-18	2023-SB-12-1012'	88	92	101	107
620-10117-18 MS	2023-SB-12-1012'	57	59	68	73
620-10117-18 MSD	2023-SB-12-1012'	102	106	116	123
620-10117-19	2023-SB-07-0002'	104	107	137	150
620-10117-20	2023-SB-07-0204'	105	91	96	73
620-10117-21	2023-SB-07-0406'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-22	2023-SB-07-0608'	45	44	42	43
620-10117-23	2023-SB-07-0810'	107	101	101	95
620-10117-24	2023-SB-07-1012'	144	134	142	136
620-10117-25	2023-MW-05-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-26	2023-MW-05-0204'	90	85	102	96
620-10117-27	2023-MW-05-0608'	91	85	97	88
620-10117-28	2023-MW-05-0810'	98	95	97	92
620-10117-29	2023-MW-05-1012'	96	89	94	93
620-10117-30	2023-MW-05-0406'	94	90	91	74
620-10117-31	2023-FD-06	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-32	2023-FD-07	95	69	97	70
620-10117-33	2023-SB-06-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-34	2023-SB-06-0204'	0 S1-	0 S1-	0 S1-	0 S1-
620-10117-35	2023-SB-06-0406'	90	88	91	77
620-10117-36	2023-SB-06-0608'	105	99	116	82
620-10117-37	2023-SB-06-0810'	97	89	90	75
620-10117-38	2023-SB-06-1012'	55	51	42	37
620-10117-41	2023-SB-05-0002'	82	78	96	94
620-10117-42	2023-SB-05-0204'	62	60	61	62
620-10117-43	2023-SB-05-0406'	86	78	89	64
620-10117-43 MS	2023-SB-05-0406'	99	100	107	108
620-10117-43 MSD	2023-SB-05-0406'	90	90	95	92
620-10117-44	2023-SB-05-0608'	99	92	95	96
620-10117-45	2023-SB-05-0810'	48	47	43	35
620-10117-46	2023-SB-05-1012'	101	94	101	100
LCS 620-20414/2-A	Lab Control Sample	76	79	106	114
LCS 620-20415/2-A	Lab Control Sample	72	67	84	72
LCS 620-20416/2-A	Lab Control Sample	81	77	95	88
LCS 620-20535/2-A	Lab Control Sample	107	105	112	102
LCSD 620-20414/3-A	Lab Control Sample Dup	91	94	116	123
LCSD 620-20415/3-A	Lab Control Sample Dup	86	81	103	94
LCSD 620-20416/3-A	Lab Control Sample Dup	90	82	101	92
LCSD 620-20535/3-A	Lab Control Sample Dup	111	106	120	111
MB 620-20414/1-A	Method Blank	92	95	120	125
MB 620-20415/1-A	Method Blank	70	65	77	67
MB 620-20416/1-A	Method Blank	62	59	60	58
MB 620-20535/1-A	Method Blank	107	109	132	122

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10117-1	2023-MW-06-0002'	80	91	94	76	84	95	95	95
620-10117-2	2023-MW-06-0204'	72	80	95	88	92	94	97	95
620-10117-3	2023-MW-06-0406'	92	92	108	100	102	111	110	104
620-10117-4	2023-MW-06-0608'	93	104	102	108	111	109	114	110
620-10117-5	2023-MW-06-0810'	86	97	99	107	111	117	109	108
620-10117-6	2023-MW-06-1012'	88	87	105	103	106	114	106	100
620-10117-7	2023-SB-08-0002'	80	98	98	94	99	107	103	104
620-10117-8	2023-SB-08-0204'	80	94	100	97	98	107	97	104
620-10117-9	2023-SB-08-0406'	74	80	88	92	96	103	102	98
620-10117-10	2023-SB-08-0608'	78	84	88	105	110	112	104	102
620-10117-11	2023-SB-08-0810'	78	82	101	98	105	111	103	91
620-10117-12	2023-SB-08-1012'	93	99	105	100	113	116	108	107
620-10117-13	2023-SB-12-0002'	21	25	26	27	29	31	30	30
620-10117-14	2023-SB-12-0204'	67	59	76	80	82	83	75	71
620-10117-15	2023-SB-12-0406'	85	94	98	96	106	105	104	103
620-10117-16	2023-SB-12-0608'	90	103	111	109	110	112	107	107
620-10117-17	2023-SB-12-0810'	88	102	102	107	106	116	109	108
620-10117-18	2023-SB-12-1012'	103	111	124	119	130	129	117	122
620-10117-18 MS	2023-SB-12-1012'	91	96	103	107	111	119	113	113
620-10117-18 MSD	2023-SB-12-1012'	92	105	105	110	107	113	115	119
620-10117-19	2023-SB-07-0002'	106	120	120	115	118	123	119	122
620-10117-20	2023-SB-07-0204'	100	109	121	124	121	129	118	120
620-10117-21	2023-SB-07-0406'	102	120	120	120	127	127	128	121
620-10117-22	2023-SB-07-0608'	103	111	119	123	128	127	129	121
620-10117-23	2023-SB-07-0810'	104	107	123	127	126	131	127	120
620-10117-24	2023-SB-07-1012'	100	117	123	117	116	125	118	126
620-10117-25	2023-MW-05-0002'	83	95	101	92	98	96	94	96
620-10117-26	2023-MW-05-0204'	95	103	116	106	110	105	112	104
620-10117-27	2023-MW-05-0608'	102	119	120	120	124	125	115	115
620-10117-28	2023-MW-05-0810'	103	118	118	115	123	127	109	120
620-10117-29	2023-MW-05-1012'	103	109	121	120	109	126	123	117
620-10117-30	2023-MW-05-0406'	112	128	131	124	127	130	122	123
620-10117-31	2023-FD-06	107	112	126	122	127	129	119	113
620-10117-32	2023-FD-07	116	129	132	134	134	137	137	133
620-10117-33	2023-SB-06-0002'	106	127	127	113	120	126	119	121
620-10117-34	2023-SB-06-0204'	100	118	118	120	120	129	125	123
620-10117-35	2023-SB-06-0406'	94	106	112	112	115	117	118	113
620-10117-36	2023-SB-06-0608'	130	164	128	141	149	139	137	150
620-10117-36 MS	2023-SB-06-0608'	131	133	135	142	144	138	132	136
620-10117-36 MSD	2023-SB-06-0608'	133	118	127	144	143	143	138	145
620-10117-37	2023-SB-06-0810'	138	126	142	154	157	146	135	149
620-10117-38	2023-SB-06-1012'	139	144	141	151	157	149	142	147
620-10117-41	2023-SB-05-0002'	144	207 *5+	171	113	120	118	142	131
620-10117-42	2023-SB-05-0204'	134	178	164	120	129	126	129	128
620-10117-43	2023-SB-05-0406'	117	110	138	126	128	124	114	111
620-10117-43 MS	2023-SB-05-0406'	97	111	105	112	105	109	108	108
620-10117-43 MSD	2023-SB-05-0406'	99	96	108	109	109	108	108	104
620-10117-44	2023-SB-05-0608'	109	130	124	133	132	142	127	126
620-10117-44 MS	2023-SB-05-0608'	105	128	119	127	129	128	127	126

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10117-44 MSD	2023-SB-05-0608'	99	130	120	133	128	128	125	137
620-10117-45	2023-SB-05-0810'	115	140	123	140	147	148	151	137
620-10117-46	2023-SB-05-1012'	117	134	132	147	140	142	146	148
LCS 410-351126/2-B	Lab Control Sample	97	99	111	109	112	113	111	112
LCS 410-351204/2-B	Lab Control Sample	105	110	110	115	109	114	107	118
LCS 410-351205/2-B	Lab Control Sample	101	101	108	110	111	112	116	107
LCS 410-355124/2-B	Lab Control Sample	108	135	113	139	130	130	133	140
LCS 410-355125/2-B	Lab Control Sample	115	126	117	129	129	130	126	131
MB 410-351126/1-B	Method Blank	90	100	109	106	108	113	111	106
MB 410-351204/1-B	Method Blank	110	114	127	120	115	114	111	114
MB 410-351205/1-B	Method Blank	88	99	113	107	113	114	114	105
MB 410-355124/1-B	Method Blank	117	129	118	129	127	138	138	133
MB 410-355125/1-B	Method Blank	127	130	139	136	146	144	131	136

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10117-1	2023-MW-06-0002'	97	95	114	113	110	112	20	25
620-10117-2	2023-MW-06-0204'	102	90	115	111	92	113	20	27
620-10117-3	2023-MW-06-0406'	121	112	130	117	111	119	44	54
620-10117-4	2023-MW-06-0608'	117	107	128	117	112	115	69	73
620-10117-5	2023-MW-06-0810'	115	110	125	124	115	116	41	42
620-10117-6	2023-MW-06-1012'	117	100	124	109	107	110	59	74
620-10117-7	2023-SB-08-0002'	112	99	131	116	113	120	36	47
620-10117-8	2023-SB-08-0204'	115	107	131	112	111	112	38	53
620-10117-9	2023-SB-08-0406'	113	99	119	110	110	113	17	27
620-10117-10	2023-SB-08-0608'	114	108	126	115	112	114	23	30
620-10117-11	2023-SB-08-0810'	100	87	105	118	115	108	19	25
620-10117-12	2023-SB-08-1012'	112	105	125	112	112	110	63	71
620-10117-13	2023-SB-12-0002'	32	30	37	45	43	43	7 *5-	11
620-10117-14	2023-SB-12-0204'	76	65	84	96	98	88	25	31
620-10117-15	2023-SB-12-0406'	114	102	124	105	107	107	62	69
620-10117-16	2023-SB-12-0608'	107	109	132	107	96	110	87	94
620-10117-17	2023-SB-12-0810'	124	114	135	114	112	113	21	25
620-10117-18	2023-SB-12-1012'	136	126	151	129	120	122	71	81
620-10117-18 MS	2023-SB-12-1012'	127	110	143	123	119	122	54	64
620-10117-18 MSD	2023-SB-12-1012'	121	115	149	121	111	120	66	72
620-10117-19	2023-SB-07-0002'	124	114	143	125	120	121	83	91
620-10117-20	2023-SB-07-0204'	134	121	143	124	125	119	77	90
620-10117-21	2023-SB-07-0406'	148	126	157	135	123	130	102	115
620-10117-22	2023-SB-07-0608'	137	122	155	126	117	126	105	111
620-10117-23	2023-SB-07-0810'	135	128	158	129	123	128	120	124
620-10117-24	2023-SB-07-1012'	129	127	146	131	117	120	114	121
620-10117-25	2023-MW-05-0002'	117	105	127	116	114	111	16	24
620-10117-26	2023-MW-05-0204'	122	108	131	113	113	110	73	87
620-10117-27	2023-MW-05-0608'	137	119	153	125	125	124	94	105
620-10117-28	2023-MW-05-0810'	137	118	144	131	122	119	108	107
620-10117-29	2023-MW-05-1012'	135	122	144	137	122	128	106	114
620-10117-30	2023-MW-05-0406'	127	128	154	136	129	132	81	92
620-10117-31	2023-FD-06	125	116	141	131	126	122	97	99
620-10117-32	2023-FD-07	140	137	164	137	138	132	98	105

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10117-33	2023-SB-06-0002'	133	121	156	125	123	122	78	86
620-10117-34	2023-SB-06-0204'	134	131	146	132	120	126	44	52
620-10117-35	2023-SB-06-0406'	125	107	131	123	112	119	77	85
620-10117-36	2023-SB-06-0608'	142	139	149	134	148	142	134	135
620-10117-36 MS	2023-SB-06-0608'	140	136	148	141	152	136	139	133
620-10117-36 MSD	2023-SB-06-0608'	147	140	154	136	149	142	137	144
620-10117-37	2023-SB-06-0810'	146	144	146	141	155	137	138	138
620-10117-38	2023-SB-06-1012'	146	147	149	146	163	146	113	118
620-10117-41	2023-SB-05-0002'	84	136	144	137	138	138	122	96
620-10117-42	2023-SB-05-0204'	87	146	157	134	143	130	140	104
620-10117-43	2023-SB-05-0406'	126	114	110	112	118	115	74	110
620-10117-43 MS	2023-SB-05-0406'	110	105	112	110	106	106	66	101
620-10117-43 MSD	2023-SB-05-0406'	113	103	101	102	104	110	67	88
620-10117-44	2023-SB-05-0608'	128	128	150	132	136	132	120	112
620-10117-44 MS	2023-SB-05-0608'	121	121	139	129	138	131	117	113
620-10117-44 MSD	2023-SB-05-0608'	143	135	156	136	141	129	134	133
620-10117-45	2023-SB-05-0810'	135	127	142	147	147	149	122	119
620-10117-46	2023-SB-05-1012'	137	135	156	135	142	145	123	145
LCS 410-351126/2-B	Lab Control Sample	118	111	142	123	116	116	96	102
LCS 410-351204/2-B	Lab Control Sample	119	116	117	114	112	111	98	103
LCS 410-351205/2-B	Lab Control Sample	120	118	139	118	113	115	97	104
LCS 410-355124/2-B	Lab Control Sample	136	139	164	132	141	130	147	130
LCS 410-355125/2-B	Lab Control Sample	138	130	139	136	139	133	123	126
MB 410-351126/1-B	Method Blank	114	103	126	112	111	109	88	98
MB 410-351204/1-B	Method Blank	116	114	109	109	116	114	90	97
MB 410-351205/1-B	Method Blank	115	112	126	115	114	114	87	95
MB 410-355124/1-B	Method Blank	138	134	139	133	138	143	127	129
MB 410-355125/1-B	Method Blank	139	138	139	134	150	136	114	114

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10117-1	2023-MW-06-0002'	74	73	69	79	62	80	67	67
620-10117-2	2023-MW-06-0204'	100	89	83	106	78	109	83	88
620-10117-3	2023-MW-06-0406'	76	89	86	77	65	86	67	82
620-10117-4	2023-MW-06-0608'	109	108	112	114	112	123	114	95
620-10117-5	2023-MW-06-0810'	111	114	106	115	113	120	114	93
620-10117-6	2023-MW-06-1012'	102	103	97	104	85	115	90	96
620-10117-7	2023-SB-08-0002'	90	88	81	94	85	98	90	79
620-10117-8	2023-SB-08-0204'	82	89	83	83	79	89	86	77
620-10117-9	2023-SB-08-0406'	94	87	87	97	93	100	94	79
620-10117-10	2023-SB-08-0608'	109	108	104	117	99	115	108	106
620-10117-11	2023-SB-08-0810'	88	93	91	82	77	89	80	88
620-10117-12	2023-SB-08-1012'	88	105	101	97	74	102	77	88
620-10117-13	2023-SB-12-0002'	76	27 *5-	25	80	63	87	66	29
620-10117-14	2023-SB-12-0204'	93	76	70	93	74	102	80	74
620-10117-15	2023-SB-12-0406'	96	100	94	101	68	108	73	88
620-10117-16	2023-SB-12-0608'	109	104	99	112	101	114	111	94
620-10117-17	2023-SB-12-0810'	117	104	95	123	111	130	118	83
620-10117-18	2023-SB-12-1012'	122	121	110	136	120	138	129	102
620-10117-18 MS	2023-SB-12-1012'	114	112	102	125	114	136	122	88

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10117-18 MSD	2023-SB-12-1012'	115	116	109	125	114	132	123	100
620-10117-19	2023-SB-07-0002'	104	119	108	110	96	115	102	96
620-10117-20	2023-SB-07-0204'	105	120	109	117	104	120	108	96
620-10117-21	2023-SB-07-0406'	114	131	116	125	106	135	114	112
620-10117-22	2023-SB-07-0608'	111	127	114	119	102	125	112	103
620-10117-23	2023-SB-07-0810'	120	129	120	124	114	135	126	98
620-10117-24	2023-SB-07-1012'	120	126	114	126	121	127	123	107
620-10117-25	2023-MW-05-0002'	114	93	92	119	102	129	113	78
620-10117-26	2023-MW-05-0204'	93	102	101	103	83	108	89	87
620-10117-27	2023-MW-05-0608'	115	120	111	115	102	121	110	100
620-10117-28	2023-MW-05-0810'	113	118	112	119	114	130	119	100
620-10117-29	2023-MW-05-1012'	115	123	119	119	116	128	122	95
620-10117-30	2023-MW-05-0406'	113	129	121	125	97	127	105	101
620-10117-31	2023-FD-06	108	125	112	117	100	119	102	104
620-10117-32	2023-FD-07	123	131	131	131	119	138	122	107
620-10117-33	2023-SB-06-0002'	108	111	108	122	95	128	105	91
620-10117-34	2023-SB-06-0204'	114	124	118	126	112	134	119	97
620-10117-35	2023-SB-06-0406'	105	117	108	113	101	117	110	88
620-10117-36	2023-SB-06-0608'	132	141	137	126	111	129	117	128
620-10117-36 MS	2023-SB-06-0608'	134	140	135	121	114	130	117	138
620-10117-36 MSD	2023-SB-06-0608'	135	141	138	130	113	136	110	120
620-10117-37	2023-SB-06-0810'	137	146	135	138	120	134	124	128
620-10117-38	2023-SB-06-1012'	133	146	141	125	116	131	125	141
620-10117-41	2023-SB-05-0002'	95	111	109	93	72	101	77	83
620-10117-42	2023-SB-05-0204'	104	119	116	103	85	107	89	103
620-10117-43	2023-SB-05-0406'	101	121	115	95	75	96	73	118
620-10117-43 MS	2023-SB-05-0406'	94	111	107	99	68	91	73	94
620-10117-43 MSD	2023-SB-05-0406'	93	108	104	92	72	86	71	100
620-10117-44	2023-SB-05-0608'	136	141	129	119	74	117	79	160
620-10117-44 MS	2023-SB-05-0608'	130	132	127	117	71	115	73	148
620-10117-44 MSD	2023-SB-05-0608'	146	138	132	137	122	132	125	135
620-10117-45	2023-SB-05-0810'	137	153	149	120	104	121	111	151
620-10117-46	2023-SB-05-1012'	125	146	138	121	87	126	88	160
LCS 410-351126/2-B	Lab Control Sample	100	113	104	108	97	113	100	95
LCS 410-351204/2-B	Lab Control Sample	99	110	109	99	81	96	85	97
LCS 410-351205/2-B	Lab Control Sample	91	107	113	95	69	97	68	94
LCS 410-355124/2-B	Lab Control Sample	129	132	131	126	103	122	101	144
LCS 410-355125/2-B	Lab Control Sample	76	118	120	69	53	79	50	112
MB 410-351126/1-B	Method Blank	93	106	97	99	88	103	90	94
MB 410-351204/1-B	Method Blank	83	103	102	83	57	80	54	106
MB 410-351205/1-B	Method Blank	76	97	92	82	74	88	76	93
MB 410-355124/1-B	Method Blank	87	110	114	89	64	91	66	135
MB 410-355125/1-B	Method Blank	77	114	118	68	25	73	26	124

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acetone	0.02699	J	0.0500	0.0112	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01999		mg/Kg		100	70 - 130
Acetone	0.0200	0.01764	J	mg/Kg		88	70 - 130
Acrylonitrile	0.0200	0.01974		mg/Kg		99	70 - 130
Benzene	0.0200	0.02049		mg/Kg		102	70 - 130
Bromobenzene	0.0200	0.01990		mg/Kg		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.02008		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.01974		mg/Kg		99	70 - 130
Bromoform	0.0200	0.02004		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02232		mg/Kg		112	70 - 130
2-Butanone (MEK)	0.0200	0.01883		mg/Kg		94	70 - 130
n-Butylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
sec-Butylbenzene	0.0200	0.02100		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0200	0.01988		mg/Kg		99	70 - 130
Carbon disulfide	0.0200	0.02084		mg/Kg		104	70 - 130
Carbon tetrachloride	0.0200	0.01948		mg/Kg		97	70 - 130
Chlorobenzene	0.0200	0.02049		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.02218		mg/Kg		111	70 - 130
Chloroform	0.0200	0.02035		mg/Kg		102	70 - 130
Chloromethane	0.0200	0.01937		mg/Kg		97	70 - 130
2-Chlorotoluene	0.0200	0.02091		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02002		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.01989		mg/Kg		99	70 - 130
1,2-Dichlorobenzene	0.0200	0.02019		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02098		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02058		mg/Kg		103	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01662		mg/Kg		83	70 - 130
1,1-Dichloroethane	0.0200	0.01992		mg/Kg		100	70 - 130
1,2-Dichloroethane	0.0200	0.01955		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01916		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01938		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.01916		mg/Kg		96	70 - 130
1,3-Dichloropropane	0.0200	0.02057		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01874		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01903		mg/Kg		95	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01846		mg/Kg		92	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01971		mg/Kg		99	70 - 130
Ethylbenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Hexachlorobutadiene	0.0200	0.01850		mg/Kg		93	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
4-Isopropyltoluene	0.0200	0.01938		mg/Kg		97	70 - 130
Methyl tert-butyl ether	0.0200	0.01825		mg/Kg		91	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01719		mg/Kg		86	70 - 130
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130
Naphthalene	0.0200	0.02003		mg/Kg		100	70 - 130
N-Propylbenzene	0.0200	0.02091		mg/Kg		105	70 - 130
Styrene	0.0200	0.02054		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02172		mg/Kg		109	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.01869		mg/Kg		93	70 - 130
Toluene	0.0200	0.02058		mg/Kg		103	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01954		mg/Kg		98	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01966		mg/Kg		98	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01991		mg/Kg		100	70 - 130
1,1,1-Trichloroethane	0.0200	0.01933		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0200	0.02138		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02068		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01910		mg/Kg		95	70 - 130
1,2,3-Trichloropropane	0.0200	0.02101		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02072		mg/Kg		104	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02044		mg/Kg		102	70 - 130
Vinyl chloride	0.0200	0.01947		mg/Kg		97	70 - 130
m,p-Xylene	0.0200	0.01982		mg/Kg		99	70 - 130
o-Xylene	0.0200	0.01928		mg/Kg		96	70 - 130
Tetrahydrofuran	0.0200	0.01673		mg/Kg		84	70 - 130
Ethyl ether	0.0200	0.01904		mg/Kg		95	70 - 130
Tert-amyl methyl ether	0.0200	0.01763		mg/Kg		88	70 - 130
Ethyl tert-butyl ether	0.0200	0.01748		mg/Kg		87	70 - 130
di-Isopropyl ether	0.0200	0.01755		mg/Kg		88	70 - 130
tert-Butanol	0.200	0.1754		mg/Kg		88	70 - 130
1,4-Dioxane	0.200	0.1699		mg/Kg		85	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02037	J	mg/Kg		102	70 - 130
Ethanol	0.400	0.4083	J	mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
Acetone	0.0200	0.02125	J	mg/Kg		106	70 - 130	19	30
Acrylonitrile	0.0200	0.02073		mg/Kg		104	70 - 130	5	30
Benzene	0.0200	0.02034		mg/Kg		102	70 - 130	1	30
Bromobenzene	0.0200	0.01934		mg/Kg		97	70 - 130	3	30
Bromochloromethane	0.0200	0.02001		mg/Kg		100	70 - 130	0	30
Bromodichloromethane	0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Bromoform	0.0200	0.01998		mg/Kg		100	70 - 130	0	30
Bromomethane	0.0200	0.02216		mg/Kg		111	70 - 130	1	30
2-Butanone (MEK)	0.0200	0.02057		mg/Kg		103	70 - 130	9	30
n-Butylbenzene	0.0200	0.01974		mg/Kg		99	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	0.0200	0.02023		mg/Kg		101	70 - 130	4	30
tert-Butylbenzene	0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Carbon disulfide	0.0200	0.02062		mg/Kg		103	70 - 130	1	30
Carbon tetrachloride	0.0200	0.01930		mg/Kg		96	70 - 130	1	30
Chlorobenzene	0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Chloroethane	0.0200	0.02316		mg/Kg		116	70 - 130	4	30
Chloroform	0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloromethane	0.0200	0.01938		mg/Kg		97	70 - 130	0	30
2-Chlorotoluene	0.0200	0.01922		mg/Kg		96	70 - 130	8	30
4-Chlorotoluene	0.0200	0.02018		mg/Kg		101	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Dibromochloromethane	0.0200	0.02003		mg/Kg		100	70 - 130	0	30
1,2-Dibromoethane (EDB)	0.0200	0.02050		mg/Kg		103	70 - 130	2	30
Dibromomethane	0.0200	0.02024		mg/Kg		101	70 - 130	2	30
1,2-Dichlorobenzene	0.0200	0.02011		mg/Kg		101	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.02043		mg/Kg		102	70 - 130	3	30
1,4-Dichlorobenzene	0.0200	0.01993		mg/Kg		100	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01643		mg/Kg		82	70 - 130	1	30
1,1-Dichloroethane	0.0200	0.01996		mg/Kg		100	70 - 130	0	30
1,2-Dichloroethane	0.0200	0.01943		mg/Kg		97	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.01925		mg/Kg		96	70 - 130	0	30
cis-1,2-Dichloroethene	0.0200	0.01915		mg/Kg		96	70 - 130	1	30
trans-1,2-Dichloroethene	0.0200	0.01933		mg/Kg		97	70 - 130	0	30
1,2-Dichloropropane	0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3-Dichloropropane	0.0200	0.02026		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane	0.0200	0.01859		mg/Kg		93	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.01904		mg/Kg		95	70 - 130	0	30
cis-1,3-Dichloropropene	0.0200	0.01863		mg/Kg		93	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02004		mg/Kg		100	70 - 130	2	30
Ethylbenzene	0.0200	0.01993		mg/Kg		100	70 - 130	4	30
Hexachlorobutadiene	0.0200	0.01892		mg/Kg		95	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01777		mg/Kg		89	70 - 130	8	30
Isopropylbenzene	0.0200	0.01954		mg/Kg		98	70 - 130	1	30
4-Isopropyltoluene	0.0200	0.01909		mg/Kg		95	70 - 130	2	30
Methyl tert-butyl ether	0.0200	0.01870		mg/Kg		93	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01816		mg/Kg		91	70 - 130	6	30
Methylene Chloride	0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Naphthalene	0.0200	0.02173		mg/Kg		109	70 - 130	8	30
N-Propylbenzene	0.0200	0.02026		mg/Kg		101	70 - 130	3	30
Styrene	0.0200	0.02016		mg/Kg		101	70 - 130	2	30
1,1,1,2-Tetrachloroethane	0.0200	0.01989		mg/Kg		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02216		mg/Kg		111	70 - 130	2	30
Tetrachloroethene	0.0200	0.01808		mg/Kg		90	70 - 130	3	30
Toluene	0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,2,3-Trichlorobenzene	0.0200	0.02039		mg/Kg		102	70 - 130	4	30
1,2,4-Trichlorobenzene	0.0200	0.02030		mg/Kg		101	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.02008		mg/Kg		100	70 - 130	1	30
1,1,1-Trichloroethane	0.0200	0.01923		mg/Kg		96	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02106		mg/Kg		105	70 - 130	1	30
Trichloroethene			0.0200	0.01959		mg/Kg		98	70 - 130	5	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01868		mg/Kg		93	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02133		mg/Kg		107	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02025		mg/Kg		101	70 - 130	2	30
1,3,5-Trimethylbenzene			0.0200	0.01990		mg/Kg		99	70 - 130	3	30
Vinyl chloride			0.0200	0.01934		mg/Kg		97	70 - 130	1	30
m,p-Xylene			0.0200	0.01933		mg/Kg		97	70 - 130	2	30
o-Xylene			0.0200	0.01913		mg/Kg		96	70 - 130	1	30
Tetrahydrofuran			0.0200	0.01835		mg/Kg		92	70 - 130	9	30
Ethyl ether			0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Tert-amyl methyl ether			0.0200	0.01803		mg/Kg		90	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01797		mg/Kg		90	70 - 130	3	30
di-Isopropyl ether			0.0200	0.01826		mg/Kg		91	70 - 130	4	30
tert-Butanol			0.200	0.1724		mg/Kg		86	70 - 130	2	30
1,4-Dioxane			0.200	0.1765		mg/Kg		88	70 - 130	4	30
trans-1,4-Dichloro-2-butene			0.0200	0.02041	J	mg/Kg		102	70 - 130	0	30
Ethanol			0.400	0.3934	J	mg/Kg		98	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Acetone	0.02060	J	0.0500	0.0112	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Methylene Chloride	0.003636	J	0.0100	0.00268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02199		mg/Kg		110	70 - 130
Acetone	0.0200	0.01937	J	mg/Kg		97	70 - 130
Acrylonitrile	0.0200	0.01972		mg/Kg		99	70 - 130
Benzene	0.0200	0.02156		mg/Kg		108	70 - 130
Bromobenzene	0.0200	0.01982		mg/Kg		99	70 - 130
Bromochloromethane	0.0200	0.02105		mg/Kg		105	70 - 130
Bromodichloromethane	0.0200	0.02053		mg/Kg		103	70 - 130
Bromoform	0.0200	0.02002		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02461		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.01737		mg/Kg		87	70 - 130
n-Butylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0200	0.02140		mg/Kg		107	70 - 130
tert-Butylbenzene	0.0200	0.02108		mg/Kg		105	70 - 130
Carbon disulfide	0.0200	0.02248		mg/Kg		112	70 - 130
Carbon tetrachloride	0.0200	0.02046		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02054		mg/Kg		103	70 - 130
Chloroethane	0.0200	0.02482		mg/Kg		124	70 - 130
Chloroform	0.0200	0.02120		mg/Kg		106	70 - 130
Chloromethane	0.0200	0.02004		mg/Kg		100	70 - 130
2-Chlorotoluene	0.0200	0.02108		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02085		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01960		mg/Kg		98	70 - 130
Dibromochloromethane	0.0200	0.02081		mg/Kg		104	70 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0200	0.02028		mg/Kg		101	70 - 130
Dibromomethane	0.0200	0.02089		mg/Kg		104	70 - 130
1,2-Dichlorobenzene	0.0200	0.02012		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02080		mg/Kg		104	70 - 130
1,4-Dichlorobenzene	0.0200	0.02095		mg/Kg		105	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01749		mg/Kg		87	70 - 130
1,1-Dichloroethane	0.0200	0.02097		mg/Kg		105	70 - 130
1,2-Dichloroethane	0.0200	0.02016		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0200	0.02167		mg/Kg		108	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02037		mg/Kg		102	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dichloropropane	0.0200	0.02060		mg/Kg		103	70 - 130
1,3-Dichloropropane	0.0200	0.02066		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01960		mg/Kg		98	70 - 130
1,1-Dichloropropene	0.0200	0.02003		mg/Kg		100	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01875		mg/Kg		94	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02041		mg/Kg		102	70 - 130
Ethylbenzene	0.0200	0.02094		mg/Kg		105	70 - 130
Hexachlorobutadiene	0.0200	0.02010		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01661		mg/Kg		83	70 - 130
Isopropylbenzene	0.0200	0.02009		mg/Kg		100	70 - 130
4-Isopropyltoluene	0.0200	0.02017		mg/Kg		101	70 - 130
Methyl tert-butyl ether	0.0200	0.01870		mg/Kg		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01744		mg/Kg		87	70 - 130
Methylene Chloride	0.0200	0.02164		mg/Kg		108	70 - 130
Naphthalene	0.0200	0.02025		mg/Kg		101	70 - 130
N-Propylbenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Styrene	0.0200	0.02065		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02070		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02177		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01956		mg/Kg		98	70 - 130
Toluene	0.0200	0.02141		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02066		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02041		mg/Kg		102	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02050		mg/Kg		102	70 - 130
1,1,1-Trichloroethane	0.0200	0.02041		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02206		mg/Kg		110	70 - 130
Trichloroethene	0.0200	0.02132		mg/Kg		107	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02027		mg/Kg		101	70 - 130
1,2,3-Trichloropropane	0.0200	0.02128		mg/Kg		106	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02076		mg/Kg		104	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02097		mg/Kg		105	70 - 130
Vinyl chloride	0.0200	0.02063		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02006		mg/Kg		100	70 - 130
o-Xylene	0.0200	0.01932		mg/Kg		97	70 - 130
Tetrahydrofuran	0.0200	0.01772		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.02043		mg/Kg		102	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0200	0.01794		mg/Kg		90	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01770		mg/Kg		88	70 - 130		
di-Isopropyl ether			0.0200	0.01848		mg/Kg		92	70 - 130		
tert-Butanol			0.200	0.1648		mg/Kg		82	70 - 130		
1,4-Dioxane			0.200	0.1786		mg/Kg		89	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02076	J	mg/Kg		104	70 - 130		
Ethanol			0.400	0.3842	J	mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02089		mg/Kg		104	70 - 130	5	30
Acetone			0.0200	0.01744	J	mg/Kg		87	70 - 130	10	30
Acrylonitrile			0.0200	0.02036		mg/Kg		102	70 - 130	3	30
Benzene			0.0200	0.02117		mg/Kg		106	70 - 130	2	30
Bromobenzene			0.0200	0.01956		mg/Kg		98	70 - 130	1	30
Bromochloromethane			0.0200	0.02030		mg/Kg		102	70 - 130	4	30
Bromodichloromethane			0.0200	0.02077		mg/Kg		104	70 - 130	1	30
Bromoform			0.0200	0.02029		mg/Kg		101	70 - 130	1	30
Bromomethane			0.0200	0.02301		mg/Kg		115	70 - 130	7	30
2-Butanone (MEK)			0.0200	0.01880		mg/Kg		94	70 - 130	8	30
n-Butylbenzene			0.0200	0.02062		mg/Kg		103	70 - 130	1	30
sec-Butylbenzene			0.0200	0.02134		mg/Kg		107	70 - 130	0	30
tert-Butylbenzene			0.0200	0.02097		mg/Kg		105	70 - 130	1	30
Carbon disulfide			0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Carbon tetrachloride			0.0200	0.02055		mg/Kg		103	70 - 130	0	30
Chlorobenzene			0.0200	0.02064		mg/Kg		103	70 - 130	1	30
Chloroethane			0.0200	0.02387		mg/Kg		119	70 - 130	4	30
Chloroform			0.0200	0.02073		mg/Kg		104	70 - 130	2	30
Chloromethane			0.0200	0.01938		mg/Kg		97	70 - 130	3	30
2-Chlorotoluene			0.0200	0.02125		mg/Kg		106	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02081		mg/Kg		104	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02086		mg/Kg		104	70 - 130	6	30
Dibromochloromethane			0.0200	0.02025		mg/Kg		101	70 - 130	3	30
1,2-Dibromoethane (EDB)			0.0200	0.02073		mg/Kg		104	70 - 130	2	30
Dibromomethane			0.0200	0.02136		mg/Kg		107	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02042		mg/Kg		102	70 - 130	2	30
1,3-Dichlorobenzene			0.0200	0.02087		mg/Kg		104	70 - 130	0	30
1,4-Dichlorobenzene			0.0200	0.02038		mg/Kg		102	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0200	0.01708		mg/Kg		85	70 - 130	2	30
1,1-Dichloroethane	0.0200	0.02091		mg/Kg		105	70 - 130	0	30
1,2-Dichloroethane	0.0200	0.01993		mg/Kg		100	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.02078		mg/Kg		104	70 - 130	4	30
cis-1,2-Dichloroethene	0.0200	0.01995		mg/Kg		100	70 - 130	2	30
trans-1,2-Dichloroethene	0.0200	0.02028		mg/Kg		101	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02011		mg/Kg		101	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02080		mg/Kg		104	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01971		mg/Kg		99	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.02002		mg/Kg		100	70 - 130	0	30
cis-1,3-Dichloropropene	0.0200	0.01908		mg/Kg		95	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Ethylbenzene	0.0200	0.02088		mg/Kg		104	70 - 130	0	30
Hexachlorobutadiene	0.0200	0.01975		mg/Kg		99	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01748		mg/Kg		87	70 - 130	5	30
Isopropylbenzene	0.0200	0.02016		mg/Kg		101	70 - 130	0	30
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130	1	30
Methyl tert-butyl ether	0.0200	0.01852		mg/Kg		93	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01787		mg/Kg		89	70 - 130	2	30
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130	1	30
Naphthalene	0.0200	0.02120		mg/Kg		106	70 - 130	5	30
N-Propylbenzene	0.0200	0.02113		mg/Kg		106	70 - 130	1	30
Styrene	0.0200	0.02076		mg/Kg		104	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02045		mg/Kg		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02231		mg/Kg		112	70 - 130	2	30
Tetrachloroethene	0.0200	0.01951		mg/Kg		98	70 - 130	0	30
Toluene	0.0200	0.02118		mg/Kg		106	70 - 130	1	30
1,2,3-Trichlorobenzene	0.0200	0.02163		mg/Kg		108	70 - 130	5	30
1,2,4-Trichlorobenzene	0.0200	0.02076		mg/Kg		104	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0200	0.02063		mg/Kg		103	70 - 130	1	30
1,1,1-Trichloroethane	0.0200	0.02031		mg/Kg		102	70 - 130	0	30
1,1,2-Trichloroethane	0.0200	0.02130		mg/Kg		106	70 - 130	4	30
Trichloroethene	0.0200	0.02140		mg/Kg		107	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	0.0200	0.01972		mg/Kg		99	70 - 130	3	30
1,2,3-Trichloropropane	0.0200	0.02125		mg/Kg		106	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02079		mg/Kg		104	70 - 130	0	30
1,3,5-Trimethylbenzene	0.0200	0.02083		mg/Kg		104	70 - 130	1	30
Vinyl chloride	0.0200	0.02017		mg/Kg		101	70 - 130	2	30
m,p-Xylene	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
o-Xylene	0.0200	0.01955		mg/Kg		98	70 - 130	1	30
Tetrahydrofuran	0.0200	0.01674		mg/Kg		84	70 - 130	6	30
Ethyl ether	0.0200	0.02038		mg/Kg		102	70 - 130	0	30
Tert-amyl methyl ether	0.0200	0.01849		mg/Kg		92	70 - 130	3	30
Ethyl tert-butyl ether	0.0200	0.01797		mg/Kg		90	70 - 130	2	30
di-Isopropyl ether	0.0200	0.01870		mg/Kg		94	70 - 130	1	30
tert-Butanol	0.200	0.1734		mg/Kg		87	70 - 130	5	30
1,4-Dioxane	0.200	0.1667		mg/Kg		83	70 - 130	7	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0200	0.02109	J	mg/Kg		105	70 - 130	2	30
Ethanol			0.400	0.3939	J	mg/Kg		98	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 620-20408/3-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Acetone	0.02825	J	0.0500	0.0112	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/09/23 11:00	03/09/23 13:10	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20408/3-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Methylene Chloride	0.006374	J	0.0100	0.00268	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/09/23 11:00	03/09/23 13:10	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/09/23 11:00	03/09/23 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20408/3-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20408

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/09/23 11:00*	*03/09/23 13:10*	*1*

Lab Sample ID: LCS 620-20408/1-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01769		mg/Kg		88	70 - 130
Acetone	0.0200	0.01620	J	mg/Kg		81	70 - 130
Acrylonitrile	0.0200	0.01861		mg/Kg		93	70 - 130
Benzene	0.0200	0.01786		mg/Kg		89	70 - 130
Bromobenzene	0.0200	0.01716		mg/Kg		86	70 - 130
Bromochloromethane	0.0200	0.01859		mg/Kg		93	70 - 130
Bromodichloromethane	0.0200	0.01828		mg/Kg		91	70 - 130
Bromoform	0.0200	0.01854		mg/Kg		93	70 - 130
Bromomethane	0.0200	0.02028		mg/Kg		101	70 - 130
2-Butanone (MEK)	0.0200	0.01826		mg/Kg		91	70 - 130
n-Butylbenzene	0.0200	0.01660		mg/Kg		83	70 - 130
sec-Butylbenzene	0.0200	0.01762		mg/Kg		88	70 - 130
tert-Butylbenzene	0.0200	0.01742		mg/Kg		87	70 - 130
Carbon disulfide	0.0200	0.01793		mg/Kg		90	70 - 130
Carbon tetrachloride	0.0200	0.01675		mg/Kg		84	70 - 130
Chlorobenzene	0.0200	0.01759		mg/Kg		88	70 - 130
Chloroethane	0.0200	0.01953		mg/Kg		98	70 - 130
Chloroform	0.0200	0.01795		mg/Kg		90	70 - 130
Chloromethane	0.0200	0.01599		mg/Kg		80	70 - 130
2-Chlorotoluene	0.0200	0.01732		mg/Kg		87	70 - 130
4-Chlorotoluene	0.0200	0.01735		mg/Kg		87	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01873		mg/Kg		94	70 - 130
Dibromochloromethane	0.0200	0.01842		mg/Kg		92	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.01860		mg/Kg		93	70 - 130
Dibromomethane	0.0200	0.01875		mg/Kg		94	70 - 130
1,2-Dichlorobenzene	0.0200	0.01730		mg/Kg		87	70 - 130
1,3-Dichlorobenzene	0.0200	0.01810		mg/Kg		91	70 - 130
1,4-Dichlorobenzene	0.0200	0.01755		mg/Kg		88	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01304	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0200	0.01744		mg/Kg		87	70 - 130
1,2-Dichloroethane	0.0200	0.01765		mg/Kg		88	70 - 130
1,1-Dichloroethene	0.0200	0.01679		mg/Kg		84	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01630		mg/Kg		81	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01616		mg/Kg		81	70 - 130
1,2-Dichloropropane	0.0200	0.01741		mg/Kg		87	70 - 130
1,3-Dichloropropane	0.0200	0.01871		mg/Kg		94	70 - 130
2,2-Dichloropropane	0.0200	0.01563		mg/Kg		78	70 - 130
1,1-Dichloropropene	0.0200	0.01523		mg/Kg		76	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20408/1-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0200	0.01582		mg/Kg		79	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01814		mg/Kg		91	70 - 130
Ethylbenzene	0.0200	0.01720		mg/Kg		86	70 - 130
Hexachlorobutadiene	0.0200	0.01610		mg/Kg		80	70 - 130
2-Hexanone (MBK)	0.0200	0.01478		mg/Kg		74	70 - 130
Isopropylbenzene	0.0200	0.01631		mg/Kg		82	70 - 130
4-Isopropyltoluene	0.0200	0.01599		mg/Kg		80	70 - 130
Methyl tert-butyl ether	0.0200	0.01658		mg/Kg		83	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01587		mg/Kg		79	70 - 130
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130
Naphthalene	0.0200	0.01806		mg/Kg		90	70 - 130
N-Propylbenzene	0.0200	0.01745		mg/Kg		87	70 - 130
Styrene	0.0200	0.01734		mg/Kg		87	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01754		mg/Kg		88	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02119		mg/Kg		106	70 - 130
Tetrachloroethene	0.0200	0.01560		mg/Kg		78	70 - 130
Toluene	0.0200	0.01804		mg/Kg		90	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01720		mg/Kg		86	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01693		mg/Kg		85	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01677		mg/Kg		84	70 - 130
1,1,1-Trichloroethane	0.0200	0.01659		mg/Kg		83	70 - 130
1,1,2-Trichloroethane	0.0200	0.02001		mg/Kg		100	70 - 130
Trichloroethene	0.0200	0.01762		mg/Kg		88	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01668		mg/Kg		83	70 - 130
1,2,3-Trichloropropane	0.0200	0.02047		mg/Kg		102	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01750		mg/Kg		87	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01740		mg/Kg		87	70 - 130
Vinyl chloride	0.0200	0.01590		mg/Kg		80	70 - 130
m,p-Xylene	0.0200	0.01600		mg/Kg		80	70 - 130
o-Xylene	0.0200	0.01552		mg/Kg		78	70 - 130
Tetrahydrofuran	0.0200	0.01561		mg/Kg		78	70 - 130
Ethyl ether	0.0200	0.01781		mg/Kg		89	70 - 130
Tert-amyl methyl ether	0.0200	0.01542		mg/Kg		77	70 - 130
Ethyl tert-butyl ether	0.0200	0.01486		mg/Kg		74	70 - 130
di-Isopropyl ether	0.0200	0.01479		mg/Kg		74	70 - 130
tert-Butanol	0.200	0.1609		mg/Kg		80	70 - 130
1,4-Dioxane	0.200	0.1483		mg/Kg		74	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.01927	J	mg/Kg		96	70 - 130
Ethanol	0.400	0.3720	J	mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20408/2-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20408

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01837		mg/Kg		92	70 - 130	4	30
Acetone	0.0200	0.01809	J	mg/Kg		90	70 - 130	11	30
Acrylonitrile	0.0200	0.01742		mg/Kg		87	70 - 130	7	30
Benzene	0.0200	0.01815		mg/Kg		91	70 - 130	2	30
Bromobenzene	0.0200	0.01727		mg/Kg		86	70 - 130	1	30
Bromochloromethane	0.0200	0.01918		mg/Kg		96	70 - 130	3	30
Bromodichloromethane	0.0200	0.01879		mg/Kg		94	70 - 130	3	30
Bromoform	0.0200	0.01861		mg/Kg		93	70 - 130	0	30
Bromomethane	0.0200	0.02080		mg/Kg		104	70 - 130	3	30
2-Butanone (MEK)	0.0200	0.01699		mg/Kg		85	70 - 130	7	30
n-Butylbenzene	0.0200	0.01664		mg/Kg		83	70 - 130	0	30
sec-Butylbenzene	0.0200	0.01794		mg/Kg		90	70 - 130	2	30
tert-Butylbenzene	0.0200	0.01762		mg/Kg		88	70 - 130	1	30
Carbon disulfide	0.0200	0.01849		mg/Kg		92	70 - 130	3	30
Carbon tetrachloride	0.0200	0.01730		mg/Kg		86	70 - 130	3	30
Chlorobenzene	0.0200	0.01797		mg/Kg		90	70 - 130	2	30
Chloroethane	0.0200	0.02055		mg/Kg		103	70 - 130	5	30
Chloroform	0.0200	0.01836		mg/Kg		92	70 - 130	2	30
Chloromethane	0.0200	0.01635		mg/Kg		82	70 - 130	2	30
2-Chlorotoluene	0.0200	0.01799		mg/Kg		90	70 - 130	4	30
4-Chlorotoluene	0.0200	0.01766		mg/Kg		88	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.01900		mg/Kg		95	70 - 130	1	30
Dibromochloromethane	0.0200	0.01878		mg/Kg		94	70 - 130	2	30
1,2-Dibromoethane (EDB)	0.0200	0.01887		mg/Kg		94	70 - 130	1	30
Dibromomethane	0.0200	0.01923		mg/Kg		96	70 - 130	3	30
1,2-Dichlorobenzene	0.0200	0.01809		mg/Kg		90	70 - 130	4	30
1,3-Dichlorobenzene	0.0200	0.01807		mg/Kg		90	70 - 130	0	30
1,4-Dichlorobenzene	0.0200	0.01793		mg/Kg		90	70 - 130	2	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01351	*-	mg/Kg		68	70 - 130	4	30
1,1-Dichloroethane	0.0200	0.01783		mg/Kg		89	70 - 130	2	30
1,2-Dichloroethane	0.0200	0.01834		mg/Kg		92	70 - 130	4	30
1,1-Dichloroethene	0.0200	0.01711		mg/Kg		86	70 - 130	2	30
cis-1,2-Dichloroethene	0.0200	0.01684		mg/Kg		84	70 - 130	3	30
trans-1,2-Dichloroethene	0.0200	0.01697		mg/Kg		85	70 - 130	5	30
1,2-Dichloropropane	0.0200	0.01748		mg/Kg		87	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.01873		mg/Kg		94	70 - 130	0	30
2,2-Dichloropropane	0.0200	0.01622		mg/Kg		81	70 - 130	4	30
1,1-Dichloropropene	0.0200	0.01607		mg/Kg		80	70 - 130	5	30
cis-1,3-Dichloropropene	0.0200	0.01622		mg/Kg		81	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.01825		mg/Kg		91	70 - 130	1	30
Ethylbenzene	0.0200	0.01773		mg/Kg		89	70 - 130	3	30
Hexachlorobutadiene	0.0200	0.01583		mg/Kg		79	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01462		mg/Kg		73	70 - 130	1	30
Isopropylbenzene	0.0200	0.01673		mg/Kg		84	70 - 130	3	30
4-Isopropyltoluene	0.0200	0.01646		mg/Kg		82	70 - 130	3	30
Methyl tert-butyl ether	0.0200	0.01726		mg/Kg		86	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01601		mg/Kg		80	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20408/2-A
Matrix: Solid
Analysis Batch: 20396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20408

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			0.0200	0.02281		mg/Kg		114	70 - 130	6	30
Naphthalene			0.0200	0.01887		mg/Kg		94	70 - 130	4	30
N-Propylbenzene			0.0200	0.01783		mg/Kg		89	70 - 130	2	30
Styrene			0.0200	0.01746		mg/Kg		87	70 - 130	1	30
1,1,1,2-Tetrachloroethane			0.0200	0.01807		mg/Kg		90	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.02101		mg/Kg		105	70 - 130	1	30
Tetrachloroethene			0.0200	0.01618		mg/Kg		81	70 - 130	4	30
Toluene			0.0200	0.01864		mg/Kg		93	70 - 130	3	30
1,2,3-Trichlorobenzene			0.0200	0.01840		mg/Kg		92	70 - 130	7	30
1,2,4-Trichlorobenzene			0.0200	0.01712		mg/Kg		86	70 - 130	1	30
1,3,5-Trichlorobenzene			0.0200	0.01720		mg/Kg		86	70 - 130	3	30
1,1,1-Trichloroethane			0.0200	0.01745		mg/Kg		87	70 - 130	5	30
1,1,2-Trichloroethane			0.0200	0.02030		mg/Kg		101	70 - 130	1	30
Trichloroethene			0.0200	0.01800		mg/Kg		90	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01707		mg/Kg		85	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02051		mg/Kg		103	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0200	0.01759		mg/Kg		88	70 - 130	1	30
1,3,5-Trimethylbenzene			0.0200	0.01766		mg/Kg		88	70 - 130	1	30
Vinyl chloride			0.0200	0.01651		mg/Kg		83	70 - 130	4	30
m,p-Xylene			0.0200	0.01650		mg/Kg		83	70 - 130	3	30
o-Xylene			0.0200	0.01612		mg/Kg		81	70 - 130	4	30
Tetrahydrofuran			0.0200	0.01650		mg/Kg		83	70 - 130	6	30
Ethyl ether			0.0200	0.01828		mg/Kg		91	70 - 130	3	30
Tert-amyl methyl ether			0.0200	0.01617		mg/Kg		81	70 - 130	5	30
Ethyl tert-butyl ether			0.0200	0.01560		mg/Kg		78	70 - 130	5	30
di-Isopropyl ether			0.0200	0.01541		mg/Kg		77	70 - 130	4	30
tert-Butanol			0.200	0.1628		mg/Kg		81	70 - 130	1	30
1,4-Dioxane			0.200	0.1670		mg/Kg		83	70 - 130	12	30
trans-1,4-Dichloro-2-butene			0.0200	0.01947	J	mg/Kg		97	70 - 130	1	30
Ethanol			0.400	0.3599	J	mg/Kg		90	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 620-20432/3-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Acetone	0.01284	J	0.0500	0.0112	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/10/23 09:34	03/10/23 12:23	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20432/3-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Methylene Chloride	0.004929	J	0.0100	0.00268	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/10/23 09:34	03/10/23 12:23	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20432/3-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.00500	0.00317	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/10/23 09:34	03/10/23 12:23	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/10/23 09:34	03/10/23 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/10/23 09:34*	*03/10/23 12:23*	*1*

Lab Sample ID: LCS 620-20432/1-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02340		mg/Kg		117	70 - 130
Acetone	0.0200	0.02079	J	mg/Kg		104	70 - 130
Acrylonitrile	0.0200	0.02117		mg/Kg		106	70 - 130
Benzene	0.0200	0.02295		mg/Kg		115	70 - 130
Bromobenzene	0.0200	0.02128		mg/Kg		106	70 - 130
Bromochloromethane	0.0200	0.02400		mg/Kg		120	70 - 130
Bromodichloromethane	0.0200	0.02274		mg/Kg		114	70 - 130
Bromoform	0.0200	0.02237		mg/Kg		112	70 - 130
Bromomethane	0.0200	0.02683	*+	mg/Kg		134	70 - 130
2-Butanone (MEK)	0.0200	0.02265		mg/Kg		113	70 - 130
n-Butylbenzene	0.0200	0.02109		mg/Kg		105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20432/1-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	0.0200	0.02205		mg/Kg		110	70 - 130
tert-Butylbenzene	0.0200	0.02205		mg/Kg		110	70 - 130
Carbon disulfide	0.0200	0.02411		mg/Kg		121	70 - 130
Carbon tetrachloride	0.0200	0.02177		mg/Kg		109	70 - 130
Chlorobenzene	0.0200	0.02233		mg/Kg		112	70 - 130
Chloroethane	0.0200	0.02512		mg/Kg		126	70 - 130
Chloroform	0.0200	0.02278		mg/Kg		114	70 - 130
Chloromethane	0.0200	0.02062		mg/Kg		103	70 - 130
2-Chlorotoluene	0.0200	0.02195		mg/Kg		110	70 - 130
4-Chlorotoluene	0.0200	0.02219		mg/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02116		mg/Kg		106	70 - 130
Dibromochloromethane	0.0200	0.02239		mg/Kg		112	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02268		mg/Kg		113	70 - 130
Dibromomethane	0.0200	0.02251		mg/Kg		113	70 - 130
1,2-Dichlorobenzene	0.0200	0.02158		mg/Kg		108	70 - 130
1,3-Dichlorobenzene	0.0200	0.02246		mg/Kg		112	70 - 130
1,4-Dichlorobenzene	0.0200	0.02170		mg/Kg		109	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01735		mg/Kg		87	70 - 130
1,1-Dichloroethane	0.0200	0.02179		mg/Kg		109	70 - 130
1,2-Dichloroethane	0.0200	0.02126		mg/Kg		106	70 - 130
1,1-Dichloroethene	0.0200	0.02267		mg/Kg		113	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02137		mg/Kg		107	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02218		mg/Kg		111	70 - 130
1,2-Dichloropropane	0.0200	0.02141		mg/Kg		107	70 - 130
1,3-Dichloropropane	0.0200	0.02223		mg/Kg		111	70 - 130
2,2-Dichloropropane	0.0200	0.02036		mg/Kg		102	70 - 130
1,1-Dichloropropene	0.0200	0.02052		mg/Kg		103	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01969		mg/Kg		98	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02185		mg/Kg		109	70 - 130
Ethylbenzene	0.0200	0.02176		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.01929		mg/Kg		96	70 - 130
2-Hexanone (MBK)	0.0200	0.01794		mg/Kg		90	70 - 130
Isopropylbenzene	0.0200	0.02085		mg/Kg		104	70 - 130
4-Isopropyltoluene	0.0200	0.02014		mg/Kg		101	70 - 130
Methyl tert-butyl ether	0.0200	0.01919		mg/Kg		96	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01867		mg/Kg		93	70 - 130
Methylene Chloride	0.0200	0.02503		mg/Kg		125	70 - 130
Naphthalene	0.0200	0.02118		mg/Kg		106	70 - 130
N-Propylbenzene	0.0200	0.02192		mg/Kg		110	70 - 130
Styrene	0.0200	0.02167		mg/Kg		108	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02174		mg/Kg		109	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02417		mg/Kg		121	70 - 130
Tetrachloroethene	0.0200	0.02109		mg/Kg		105	70 - 130
Toluene	0.0200	0.02313		mg/Kg		116	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02079		mg/Kg		104	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02086		mg/Kg		104	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02113		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02135		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20432/1-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichloroethane			0.0200	0.02378		mg/Kg		119	70 - 130		
Trichloroethene			0.0200	0.02299		mg/Kg		115	70 - 130		
Trichlorofluoromethane (Freon 11)			0.0200	0.02208		mg/Kg		110	70 - 130		
1,2,3-Trichloropropane			0.0200	0.02286		mg/Kg		114	70 - 130		
1,2,4-Trimethylbenzene			0.0200	0.02176		mg/Kg		109	70 - 130		
1,3,5-Trimethylbenzene			0.0200	0.02167		mg/Kg		108	70 - 130		
Vinyl chloride			0.0200	0.02151		mg/Kg		108	70 - 130		
m,p-Xylene			0.0200	0.02045		mg/Kg		102	70 - 130		
o-Xylene			0.0200	0.01975		mg/Kg		99	70 - 130		
Tetrahydrofuran			0.0200	0.01684		mg/Kg		84	70 - 130		
Ethyl ether			0.0200	0.02140		mg/Kg		107	70 - 130		
Tert-amyl methyl ether			0.0200	0.01837		mg/Kg		92	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01788		mg/Kg		89	70 - 130		
di-Isopropyl ether			0.0200	0.01823		mg/Kg		91	70 - 130		
tert-Butanol			0.200	0.1774		mg/Kg		89	70 - 130		
1,4-Dioxane			0.200	0.1574		mg/Kg		79	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02142	J	mg/Kg		107	70 - 130		
Ethanol			0.400	0.4752	J	mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-20432/2-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02373		mg/Kg		119	70 - 130	1	30
Acetone			0.0200	0.01780	J	mg/Kg		89	70 - 130	15	30
Acrylonitrile			0.0200	0.02077		mg/Kg		104	70 - 130	2	30
Benzene			0.0200	0.02367		mg/Kg		118	70 - 130	3	30
Bromobenzene			0.0200	0.02204		mg/Kg		110	70 - 130	4	30
Bromochloromethane			0.0200	0.02419		mg/Kg		121	70 - 130	1	30
Bromodichloromethane			0.0200	0.02351		mg/Kg		118	70 - 130	3	30
Bromoform			0.0200	0.02256		mg/Kg		113	70 - 130	1	30
Bromomethane			0.0200	0.02740	*+	mg/Kg		137	70 - 130	2	30
2-Butanone (MEK)			0.0200	0.02028		mg/Kg		101	70 - 130	11	30
n-Butylbenzene			0.0200	0.02173		mg/Kg		109	70 - 130	3	30
sec-Butylbenzene			0.0200	0.02305		mg/Kg		115	70 - 130	4	30
tert-Butylbenzene			0.0200	0.02277		mg/Kg		114	70 - 130	3	30
Carbon disulfide			0.0200	0.02400		mg/Kg		120	70 - 130	0	30
Carbon tetrachloride			0.0200	0.02259		mg/Kg		113	70 - 130	4	30
Chlorobenzene			0.0200	0.02299		mg/Kg		115	70 - 130	3	30
Chloroethane			0.0200	0.02580		mg/Kg		129	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20432/2-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform			0.0200	0.02321		mg/Kg		116	70 - 130	2	30
Chloromethane			0.0200	0.02081		mg/Kg		104	70 - 130	1	30
2-Chlorotoluene			0.0200	0.02307		mg/Kg		115	70 - 130	5	30
4-Chlorotoluene			0.0200	0.02273		mg/Kg		114	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02153		mg/Kg		108	70 - 130	2	30
Dibromochloromethane			0.0200	0.02300		mg/Kg		115	70 - 130	3	30
1,2-Dibromoethane (EDB)			0.0200	0.02267		mg/Kg		113	70 - 130	0	30
Dibromomethane			0.0200	0.02320		mg/Kg		116	70 - 130	3	30
1,2-Dichlorobenzene			0.0200	0.02210		mg/Kg		111	70 - 130	2	30
1,3-Dichlorobenzene			0.0200	0.02306		mg/Kg		115	70 - 130	3	30
1,4-Dichlorobenzene			0.0200	0.02256		mg/Kg		113	70 - 130	4	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01770		mg/Kg		89	70 - 130	2	30
1,1-Dichloroethane			0.0200	0.02254		mg/Kg		113	70 - 130	3	30
1,2-Dichloroethane			0.0200	0.02157		mg/Kg		108	70 - 130	1	30
1,1-Dichloroethene			0.0200	0.02369		mg/Kg		118	70 - 130	4	30
cis-1,2-Dichloroethene			0.0200	0.02250		mg/Kg		113	70 - 130	5	30
trans-1,2-Dichloroethene			0.0200	0.02273		mg/Kg		114	70 - 130	2	30
1,2-Dichloropropane			0.0200	0.02240		mg/Kg		112	70 - 130	5	30
1,3-Dichloropropane			0.0200	0.02293		mg/Kg		115	70 - 130	3	30
2,2-Dichloropropane			0.0200	0.02089		mg/Kg		104	70 - 130	3	30
1,1-Dichloropropene			0.0200	0.02124		mg/Kg		106	70 - 130	3	30
cis-1,3-Dichloropropene			0.0200	0.02069		mg/Kg		103	70 - 130	5	30
trans-1,3-Dichloropropene			0.0200	0.02208		mg/Kg		110	70 - 130	1	30
Ethylbenzene			0.0200	0.02284		mg/Kg		114	70 - 130	5	30
Hexachlorobutadiene			0.0200	0.02091		mg/Kg		105	70 - 130	8	30
2-Hexanone (MBK)			0.0200	0.01731		mg/Kg		87	70 - 130	4	30
Isopropylbenzene			0.0200	0.02189		mg/Kg		109	70 - 130	5	30
4-Isopropyltoluene			0.0200	0.02116		mg/Kg		106	70 - 130	5	30
Methyl tert-butyl ether			0.0200	0.02041		mg/Kg		102	70 - 130	6	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.01857		mg/Kg		93	70 - 130	0	30
Methylene Chloride			0.0200	0.02582		mg/Kg		129	70 - 130	3	30
Naphthalene			0.0200	0.02187		mg/Kg		109	70 - 130	3	30
N-Propylbenzene			0.0200	0.02302		mg/Kg		115	70 - 130	5	30
Styrene			0.0200	0.02256		mg/Kg		113	70 - 130	4	30
1,1,1,2-Tetrachloroethane			0.0200	0.02253		mg/Kg		113	70 - 130	4	30
1,1,2,2-Tetrachloroethane			0.0200	0.02425		mg/Kg		121	70 - 130	0	30
Tetrachloroethene			0.0200	0.02173		mg/Kg		109	70 - 130	3	30
Toluene			0.0200	0.02349		mg/Kg		117	70 - 130	2	30
1,2,3-Trichlorobenzene			0.0200	0.02223		mg/Kg		111	70 - 130	7	30
1,2,4-Trichlorobenzene			0.0200	0.02172		mg/Kg		109	70 - 130	4	30
1,3,5-Trichlorobenzene			0.0200	0.02208		mg/Kg		110	70 - 130	4	30
1,1,1-Trichloroethane			0.0200	0.02243		mg/Kg		112	70 - 130	5	30
1,1,2-Trichloroethane			0.0200	0.02415		mg/Kg		121	70 - 130	2	30
Trichloroethene			0.0200	0.02356		mg/Kg		118	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02227		mg/Kg		111	70 - 130	1	30
1,2,3-Trichloropropane			0.0200	0.02322		mg/Kg		116	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02275		mg/Kg		114	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20432/2-A
Matrix: Solid
Analysis Batch: 20433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0200	0.02275		mg/Kg		114	70 - 130	5	30
Vinyl chloride			0.0200	0.02206		mg/Kg		110	70 - 130	3	30
m,p-Xylene			0.0200	0.02184		mg/Kg		109	70 - 130	7	30
o-Xylene			0.0200	0.02114		mg/Kg		106	70 - 130	7	30
Tetrahydrofuran			0.0200	0.01701		mg/Kg		85	70 - 130	1	30
Ethyl ether			0.0200	0.02247		mg/Kg		112	70 - 130	5	30
Tert-amyl methyl ether			0.0200	0.01947		mg/Kg		97	70 - 130	6	30
Ethyl tert-butyl ether			0.0200	0.01889		mg/Kg		94	70 - 130	5	30
di-Isopropyl ether			0.0200	0.01973		mg/Kg		99	70 - 130	8	30
tert-Butanol			0.200	0.1785		mg/Kg		89	70 - 130	1	30
1,4-Dioxane			0.200	0.1724		mg/Kg		86	70 - 130	9	30
trans-1,4-Dichloro-2-butene			0.0200	0.02221	J	mg/Kg		111	70 - 130	4	30
Ethanol			0.400	0.4259	J	mg/Kg		106	70 - 130	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02433		mg/Kg		122	70 - 130
Acetone	0.0200	0.02159	J	mg/Kg		108	70 - 130
Acrylonitrile	0.0200	0.02263		mg/Kg		113	70 - 130
Benzene	0.0200	0.02352		mg/Kg		118	70 - 130
Bromobenzene	0.0200	0.02206		mg/Kg		110	70 - 130
Bromochloromethane	0.0200	0.02398		mg/Kg		120	70 - 130
Bromodichloromethane	0.0200	0.02331		mg/Kg		117	70 - 130
Bromoform	0.0200	0.02313		mg/Kg		116	70 - 130
Bromomethane	0.0200	0.02468		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.02143		mg/Kg		107	70 - 130
n-Butylbenzene	0.0200	0.02023		mg/Kg		101	70 - 130
sec-Butylbenzene	0.0200	0.02254		mg/Kg		113	70 - 130
tert-Butylbenzene	0.0200	0.02329		mg/Kg		116	70 - 130
Carbon disulfide	0.0200	0.02434		mg/Kg		122	70 - 130
Carbon tetrachloride	0.0200	0.02243		mg/Kg		112	70 - 130
Chlorobenzene	0.0200	0.02244		mg/Kg		112	70 - 130
Chloroethane	0.0200	0.02485		mg/Kg		124	70 - 130
Chloroform	0.0200	0.02362		mg/Kg		118	70 - 130
Chloromethane	0.0200	0.02105		mg/Kg		105	70 - 130
2-Chlorotoluene	0.0200	0.02252		mg/Kg		113	70 - 130
4-Chlorotoluene	0.0200	0.02216		mg/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02175		mg/Kg		109	70 - 130
Dibromochloromethane	0.0200	0.02329		mg/Kg		116	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02330		mg/Kg		116	70 - 130
Dibromomethane	0.0200	0.02376		mg/Kg		119	70 - 130
1,2-Dichlorobenzene	0.0200	0.02130		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02323		mg/Kg		116	70 - 130
1,4-Dichlorobenzene	0.0200	0.02149		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane (Freon 12)	0.0200	0.01553		mg/Kg		78	70 - 130
1,1-Dichloroethane	0.0200	0.02258		mg/Kg		113	70 - 130
1,2-Dichloroethane	0.0200	0.02210		mg/Kg		111	70 - 130
1,1-Dichloroethene	0.0200	0.02395		mg/Kg		120	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02220		mg/Kg		111	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02265		mg/Kg		113	70 - 130
1,2-Dichloropropane	0.0200	0.02190		mg/Kg		110	70 - 130
1,3-Dichloropropane	0.0200	0.02291		mg/Kg		115	70 - 130
2,2-Dichloropropane	0.0200	0.02134		mg/Kg		107	70 - 130
1,1-Dichloropropene	0.0200	0.02125		mg/Kg		106	70 - 130
cis-1,3-Dichloropropene	0.0200	0.02017		mg/Kg		101	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02237		mg/Kg		112	70 - 130
Ethylbenzene	0.0200	0.02182		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.02030		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01935		mg/Kg		97	70 - 130
Isopropylbenzene	0.0200	0.02134		mg/Kg		107	70 - 130
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130
Methyl tert-butyl ether	0.0200	0.02011		mg/Kg		101	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02012		mg/Kg		101	70 - 130
Methylene Chloride	0.0200	0.02358		mg/Kg		118	70 - 130
Naphthalene	0.0200	0.02169		mg/Kg		108	70 - 130
N-Propylbenzene	0.0200	0.02260		mg/Kg		113	70 - 130
Styrene	0.0200	0.02232		mg/Kg		112	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02220		mg/Kg		111	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02480		mg/Kg		124	70 - 130
Tetrachloroethene	0.0200	0.02262		mg/Kg		113	70 - 130
Toluene	0.0200	0.02380		mg/Kg		119	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02095		mg/Kg		105	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02193		mg/Kg		110	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02112		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02266		mg/Kg		113	70 - 130
1,1,2-Trichloroethane	0.0200	0.02455		mg/Kg		123	70 - 130
Trichloroethene	0.0200	0.02382		mg/Kg		119	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02290		mg/Kg		115	70 - 130
1,2,3-Trichloropropane	0.0200	0.02297		mg/Kg		115	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02258		mg/Kg		113	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02228		mg/Kg		111	70 - 130
Vinyl chloride	0.0200	0.02059		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02099		mg/Kg		105	70 - 130
o-Xylene	0.0200	0.02037		mg/Kg		102	70 - 130
Tetrahydrofuran	0.0200	0.01986		mg/Kg		99	70 - 130
Ethyl ether	0.0200	0.02235		mg/Kg		112	70 - 130
Tert-amyl methyl ether	0.0200	0.01939		mg/Kg		97	70 - 130
Ethyl tert-butyl ether	0.0200	0.01880		mg/Kg		94	70 - 130
di-Isopropyl ether	0.0200	0.01936		mg/Kg		97	70 - 130
tert-Butanol	0.200	0.1977		mg/Kg		99	70 - 130
1,4-Dioxane	0.200	0.1927		mg/Kg		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
trans-1,4-Dichloro-2-butene			0.0200	0.02300	J	mg/Kg		115	70 - 130		
Ethanol			0.400	0.4909	J	mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02484		mg/Kg		124	70 - 130	2	30
Acetone			0.0200	0.01999	J	mg/Kg		100	70 - 130	8	30
Acrylonitrile			0.0200	0.02333		mg/Kg		117	70 - 130	3	30
Benzene			0.0200	0.02444		mg/Kg		122	70 - 130	4	30
Bromobenzene			0.0200	0.02254		mg/Kg		113	70 - 130	2	30
Bromochloromethane			0.0200	0.02501		mg/Kg		125	70 - 130	4	30
Bromodichloromethane			0.0200	0.02411		mg/Kg		121	70 - 130	3	30
Bromoform			0.0200	0.02327		mg/Kg		116	70 - 130	1	30
Bromomethane			0.0200	0.02625	*+	mg/Kg		131	70 - 130	6	30
2-Butanone (MEK)			0.0200	0.02068		mg/Kg		103	70 - 130	4	30
n-Butylbenzene			0.0200	0.02082		mg/Kg		104	70 - 130	3	30
sec-Butylbenzene			0.0200	0.02269		mg/Kg		113	70 - 130	1	30
tert-Butylbenzene			0.0200	0.02365		mg/Kg		118	70 - 130	2	30
Carbon disulfide			0.0200	0.02478		mg/Kg		124	70 - 130	2	30
Carbon tetrachloride			0.0200	0.02356		mg/Kg		118	70 - 130	5	30
Chlorobenzene			0.0200	0.02280		mg/Kg		114	70 - 130	2	30
Chloroethane			0.0200	0.02645	*+	mg/Kg		132	70 - 130	6	30
Chloroform			0.0200	0.02414		mg/Kg		121	70 - 130	2	30
Chloromethane			0.0200	0.02155		mg/Kg		108	70 - 130	2	30
2-Chlorotoluene			0.0200	0.02279		mg/Kg		114	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02197		mg/Kg		110	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02282		mg/Kg		114	70 - 130	5	30
Dibromochloromethane			0.0200	0.02444		mg/Kg		122	70 - 130	5	30
1,2-Dibromoethane (EDB)			0.0200	0.02420		mg/Kg		121	70 - 130	4	30
Dibromomethane			0.0200	0.02413		mg/Kg		121	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02210		mg/Kg		110	70 - 130	4	30
1,3-Dichlorobenzene			0.0200	0.02325		mg/Kg		116	70 - 130	0	30
1,4-Dichlorobenzene			0.0200	0.02204		mg/Kg		110	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01619		mg/Kg		81	70 - 130	4	30
1,1-Dichloroethane			0.0200	0.02378		mg/Kg		119	70 - 130	5	30
1,2-Dichloroethane			0.0200	0.02275		mg/Kg		114	70 - 130	3	30
1,1-Dichloroethene			0.0200	0.02463		mg/Kg		123	70 - 130	3	30
cis-1,2-Dichloroethene			0.0200	0.02325		mg/Kg		116	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.0200	0.02361		mg/Kg		118	70 - 130	4	30
1,2-Dichloropropane	0.0200	0.02283		mg/Kg		114	70 - 130	4	30
1,3-Dichloropropane	0.0200	0.02395		mg/Kg		120	70 - 130	4	30
2,2-Dichloropropane	0.0200	0.02210		mg/Kg		111	70 - 130	3	30
1,1-Dichloropropene	0.0200	0.02249		mg/Kg		112	70 - 130	6	30
cis-1,3-Dichloropropene	0.0200	0.02132		mg/Kg		107	70 - 130	6	30
trans-1,3-Dichloropropene	0.0200	0.02325		mg/Kg		116	70 - 130	4	30
Ethylbenzene	0.0200	0.02225		mg/Kg		111	70 - 130	2	30
Hexachlorobutadiene	0.0200	0.02149		mg/Kg		107	70 - 130	6	30
2-Hexanone (MBK)	0.0200	0.01925		mg/Kg		96	70 - 130	0	30
Isopropylbenzene	0.0200	0.02175		mg/Kg		109	70 - 130	2	30
4-Isopropyltoluene	0.0200	0.02060		mg/Kg		103	70 - 130	3	30
Methyl tert-butyl ether	0.0200	0.02119		mg/Kg		106	70 - 130	5	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Methylene Chloride	0.0200	0.02439		mg/Kg		122	70 - 130	3	30
Naphthalene	0.0200	0.02322		mg/Kg		116	70 - 130	7	30
N-Propylbenzene	0.0200	0.02262		mg/Kg		113	70 - 130	0	30
Styrene	0.0200	0.02260		mg/Kg		113	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02274		mg/Kg		114	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02427		mg/Kg		121	70 - 130	2	30
Tetrachloroethene	0.0200	0.02304		mg/Kg		115	70 - 130	2	30
Toluene	0.0200	0.02472		mg/Kg		124	70 - 130	4	30
1,2,3-Trichlorobenzene	0.0200	0.02266		mg/Kg		113	70 - 130	8	30
1,2,4-Trichlorobenzene	0.0200	0.02237		mg/Kg		112	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0200	0.02244		mg/Kg		112	70 - 130	6	30
1,1,1-Trichloroethane	0.0200	0.02338		mg/Kg		117	70 - 130	3	30
1,1,2-Trichloroethane	0.0200	0.02524		mg/Kg		126	70 - 130	3	30
Trichloroethene	0.0200	0.02439		mg/Kg		122	70 - 130	2	30
Trichlorofluoromethane (Freon 11)	0.0200	0.02363		mg/Kg		118	70 - 130	3	30
1,2,3-Trichloropropane	0.0200	0.02342		mg/Kg		117	70 - 130	2	30
1,2,4-Trimethylbenzene	0.0200	0.02270		mg/Kg		113	70 - 130	1	30
1,3,5-Trimethylbenzene	0.0200	0.02255		mg/Kg		113	70 - 130	1	30
Vinyl chloride	0.0200	0.02145		mg/Kg		107	70 - 130	4	30
m,p-Xylene	0.0200	0.02123		mg/Kg		106	70 - 130	1	30
o-Xylene	0.0200	0.02094		mg/Kg		105	70 - 130	3	30
Tetrahydrofuran	0.0200	0.01813		mg/Kg		91	70 - 130	9	30
Ethyl ether	0.0200	0.02268		mg/Kg		113	70 - 130	1	30
Tert-amyl methyl ether	0.0200	0.02009		mg/Kg		100	70 - 130	4	30
Ethyl tert-butyl ether	0.0200	0.01990		mg/Kg		100	70 - 130	6	30
di-Isopropyl ether	0.0200	0.02076		mg/Kg		104	70 - 130	7	30
tert-Butanol	0.200	0.1985		mg/Kg		99	70 - 130	0	30
1,4-Dioxane	0.200	0.1734		mg/Kg		87	70 - 130	11	30
trans-1,4-Dichloro-2-butene	0.0200	0.02306	J	mg/Kg		115	70 - 130	0	30
Ethanol	0.400	0.4703	J	mg/Kg		118	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.0189	0.02412		mg/Kg	☼	127	70 - 130
Acetone	ND	*3 F1 F2	0.0189	0.01305	J F1	mg/Kg	☼	69	70 - 130
Acrylonitrile	ND	*3 F1 F2	0.0189	0.01307	F1	mg/Kg	☼	69	70 - 130
Benzene	ND	*3	0.0189	0.02277		mg/Kg	☼	120	70 - 130
Bromobenzene	ND	*3	0.0189	0.01965		mg/Kg	☼	104	70 - 130
Bromochloromethane	ND	*3	0.0189	0.02102		mg/Kg	☼	111	70 - 130
Bromodichloromethane	ND	*3	0.0189	0.02360		mg/Kg	☼	125	70 - 130
Bromoform	ND	*3	0.0189	0.01833		mg/Kg	☼	97	70 - 130
Bromomethane	ND	*3 *+	0.0189	0.02374		mg/Kg	☼	125	70 - 130
2-Butanone (MEK)	ND	*3	0.0189	0.01344		mg/Kg	☼	71	70 - 130
n-Butylbenzene	ND	*3	0.0189	0.02162		mg/Kg	☼	114	70 - 130
sec-Butylbenzene	ND	*3	0.0189	0.02293		mg/Kg	☼	121	70 - 130
tert-Butylbenzene	ND	*3	0.0189	0.02261		mg/Kg	☼	119	70 - 130
Carbon disulfide	ND	*3	0.0189	0.02311		mg/Kg	☼	122	70 - 130
Carbon tetrachloride	ND	*3 F1	0.0189	0.02249		mg/Kg	☼	119	70 - 130
Chlorobenzene	ND	*3	0.0189	0.02359		mg/Kg	☼	125	70 - 130
Chloroethane	ND	*3 F1 *+	0.0189	0.02651	F1	mg/Kg	☼	140	70 - 130
Chloroform	ND	*3	0.0189	0.02208		mg/Kg	☼	117	70 - 130
Chloromethane	ND	*3	0.0189	0.02200		mg/Kg	☼	116	70 - 130
2-Chlorotoluene	ND	*3	0.0189	0.02189		mg/Kg	☼	116	70 - 130
4-Chlorotoluene	ND	*3	0.0189	0.02175		mg/Kg	☼	115	70 - 130
1,2-Dibromo-3-Chloropropane	ND	*3 F1 F2	0.0189	0.01049	F1	mg/Kg	☼	55	70 - 130
Dibromochloromethane	ND	*3	0.0189	0.02123		mg/Kg	☼	112	70 - 130
1,2-Dibromoethane (EDB)	ND	*3	0.0189	0.01775		mg/Kg	☼	94	70 - 130
Dibromomethane	ND	*3	0.0189	0.01889		mg/Kg	☼	100	70 - 130
1,2-Dichlorobenzene	ND	*3	0.0189	0.01944		mg/Kg	☼	103	70 - 130
1,3-Dichlorobenzene	ND	*3	0.0189	0.02224		mg/Kg	☼	118	70 - 130
1,4-Dichlorobenzene	ND	*3	0.0189	0.02127		mg/Kg	☼	112	70 - 130
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0189	0.01592		mg/Kg	☼	84	70 - 130
1,1-Dichloroethane	ND	*3	0.0189	0.02287		mg/Kg	☼	121	70 - 130
1,2-Dichloroethane	ND	*3	0.0189	0.01846		mg/Kg	☼	98	70 - 130
1,1-Dichloroethene	ND	*3	0.0189	0.02238		mg/Kg	☼	118	70 - 130
cis-1,2-Dichloroethene	ND	*3	0.0189	0.02088		mg/Kg	☼	110	70 - 130
trans-1,2-Dichloroethene	ND	*3	0.0189	0.02327		mg/Kg	☼	123	70 - 130
1,2-Dichloropropane	ND	*3	0.0189	0.02225		mg/Kg	☼	118	70 - 130
1,3-Dichloropropane	ND	*3	0.0189	0.01786		mg/Kg	☼	94	70 - 130
2,2-Dichloropropane	ND	*3	0.0189	0.02011		mg/Kg	☼	106	70 - 130
1,1-Dichloropropene	ND	*3	0.0189	0.01868		mg/Kg	☼	99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	ND	*3	0.0189	0.01657		mg/Kg	☼	88	70 - 130
trans-1,3-Dichloropropene	ND	*3	0.0189	0.01837		mg/Kg	☼	97	70 - 130
Ethylbenzene	ND	*3	0.0189	0.02266		mg/Kg	☼	120	70 - 130
Hexachlorobutadiene	ND	*3	0.0189	0.01810		mg/Kg	☼	96	70 - 130
2-Hexanone (MBK)	ND	*3 F1 F2	0.0189	0.009520	F1	mg/Kg	☼	50	70 - 130
Isopropylbenzene	ND	*3	0.0189	0.02045		mg/Kg	☼	108	70 - 130
4-Isopropyltoluene	ND	*3	0.0189	0.01955		mg/Kg	☼	103	70 - 130
Methyl tert-butyl ether	ND	*3	0.0189	0.01324		mg/Kg	☼	70	70 - 130
4-Methyl-2-pentanone (MIBK)	ND	*3 F1	0.0189	0.01138	F1	mg/Kg	☼	60	70 - 130
Methylene Chloride	ND	*3	0.0189	0.02163		mg/Kg	☼	114	70 - 130
Naphthalene	ND	*3 F1 F2	0.0189	0.008346	F1	mg/Kg	☼	44	70 - 130
N-Propylbenzene	ND	*3	0.0189	0.02336		mg/Kg	☼	123	70 - 130
Styrene	ND	*3	0.0189	0.02113		mg/Kg	☼	112	70 - 130
1,1,1,2-Tetrachloroethane	ND	*3	0.0189	0.02066		mg/Kg	☼	109	70 - 130
1,1,2,2-Tetrachloroethane	ND	*3	0.0189	0.01874		mg/Kg	☼	99	70 - 130
Tetrachloroethene	ND	*3	0.0189	0.02231		mg/Kg	☼	118	70 - 130
Toluene	ND	*3	0.0189	0.02378		mg/Kg	☼	126	70 - 130
1,2,3-Trichlorobenzene	ND	*3	0.0189	0.01373		mg/Kg	☼	73	70 - 130
1,2,4-Trichlorobenzene	ND	*3	0.0189	0.01560		mg/Kg	☼	82	70 - 130
1,3,5-Trichlorobenzene	ND	*3	0.0189	0.01771		mg/Kg	☼	94	70 - 130
1,1,1-Trichloroethane	ND	*3	0.0189	0.02211		mg/Kg	☼	117	70 - 130
1,1,2-Trichloroethane	ND	*3	0.0189	0.02210		mg/Kg	☼	117	70 - 130
Trichloroethene	ND	*3	0.0189	0.02141		mg/Kg	☼	113	70 - 130
Trichlorofluoromethane (Freon 11)	ND	*3	0.0189	0.02282		mg/Kg	☼	121	70 - 130
1,2,3-Trichloropropane	ND	*3	0.0189	0.01570		mg/Kg	☼	83	70 - 130
1,2,4-Trimethylbenzene	ND	*3	0.0189	0.02185		mg/Kg	☼	115	70 - 130
1,3,5-Trimethylbenzene	ND	*3	0.0189	0.02223		mg/Kg	☼	117	70 - 130
Vinyl chloride	ND	*3	0.0189	0.02161		mg/Kg	☼	114	70 - 130
m,p-Xylene	ND	*3	0.0378	0.04633		mg/Kg	☼	122	70 - 130
o-Xylene	ND	*3	0.0189	0.01974		mg/Kg	☼	104	70 - 130
Tetrahydrofuran	ND	*3 F1 F2	0.0189	0.01093	F1	mg/Kg	☼	58	70 - 130
Ethyl ether	ND	*3	0.0189	0.01549		mg/Kg	☼	82	70 - 130
Tert-amyl methyl ether	ND	*3	0.0189	0.01446		mg/Kg	☼	76	70 - 130
Ethyl tert-butyl ether	ND	*3	0.0189	0.01353		mg/Kg	☼	72	70 - 130
di-Isopropyl ether	ND	*3	0.0189	0.01468		mg/Kg	☼	78	70 - 130
tert-Butanol	ND	*3 F1 F2	0.189	0.1010	F1	mg/Kg	☼	53	70 - 130
1,4-Dioxane	ND	*3 F1 F2	0.189	0.09031	J F1	mg/Kg	☼	48	70 - 130
trans-1,4-Dichloro-2-butene	ND	*3	0.0189	0.01610	J	mg/Kg	☼	85	70 - 130
Ethanol	ND	*3 F1 F2	0.378	0.2413	J F1	mg/Kg	☼	64	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.0190	0.02347		mg/Kg	☼	123	70 - 130	3	30
Acetone	ND	*3 F1 F2	0.0190	0.01966	J F2	mg/Kg	☼	103	70 - 130	40	30
Acrylonitrile	ND	*3 F1 F2	0.0190	0.01855	F2	mg/Kg	☼	97	70 - 130	35	30
Benzene	ND	*3	0.0190	0.02240		mg/Kg	☼	118	70 - 130	2	30
Bromobenzene	ND	*3	0.0190	0.01939		mg/Kg	☼	102	70 - 130	1	30
Bromochloromethane	ND	*3	0.0190	0.02166		mg/Kg	☼	114	70 - 130	3	30
Bromodichloromethane	ND	*3	0.0190	0.02374		mg/Kg	☼	125	70 - 130	1	30
Bromoform	ND	*3	0.0190	0.02158		mg/Kg	☼	113	70 - 130	16	30
Bromomethane	ND	*3 *+	0.0190	0.02238		mg/Kg	☼	118	70 - 130	6	30
2-Butanone (MEK)	ND	*3	0.0190	0.01559		mg/Kg	☼	82	70 - 130	15	30
n-Butylbenzene	ND	*3	0.0190	0.02100		mg/Kg	☼	110	70 - 130	3	30
sec-Butylbenzene	ND	*3	0.0190	0.02165		mg/Kg	☼	114	70 - 130	6	30
tert-Butylbenzene	ND	*3	0.0190	0.02191		mg/Kg	☼	115	70 - 130	3	30
Carbon disulfide	ND	*3	0.0190	0.02243		mg/Kg	☼	118	70 - 130	3	30
Carbon tetrachloride	ND	*3 F1	0.0190	ND	F1	mg/Kg	☼	0	70 - 130	NC	30
Chlorobenzene	ND	*3	0.0190	0.02271		mg/Kg	☼	119	70 - 130	4	30
Chloroethane	ND	*3 F1 *+	0.0190	0.02321		mg/Kg	☼	122	70 - 130	13	30
Chloroform	ND	*3	0.0190	0.02170		mg/Kg	☼	114	70 - 130	2	30
Chloromethane	ND	*3	0.0190	0.02178		mg/Kg	☼	114	70 - 130	1	30
2-Chlorotoluene	ND	*3	0.0190	0.02111		mg/Kg	☼	111	70 - 130	4	30
4-Chlorotoluene	ND	*3	0.0190	0.02070		mg/Kg	☼	109	70 - 130	5	30
1,2-Dibromo-3-Chloropropane	ND	*3 F1 F2	0.0190	0.01600	F2	mg/Kg	☼	84	70 - 130	42	30
Dibromochloromethane	ND	*3	0.0190	0.02251		mg/Kg	☼	118	70 - 130	6	30
1,2-Dibromoethane (EDB)	ND	*3	0.0190	0.02076		mg/Kg	☼	109	70 - 130	16	30
Dibromomethane	ND	*3	0.0190	0.02120		mg/Kg	☼	111	70 - 130	12	30
1,2-Dichlorobenzene	ND	*3	0.0190	0.02026		mg/Kg	☼	106	70 - 130	4	30
1,3-Dichlorobenzene	ND	*3	0.0190	0.02179		mg/Kg	☼	114	70 - 130	2	30
1,4-Dichlorobenzene	ND	*3	0.0190	0.02098		mg/Kg	☼	110	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0190	0.01466		mg/Kg	☼	77	70 - 130	8	30
1,1-Dichloroethane	ND	*3	0.0190	0.02260		mg/Kg	☼	119	70 - 130	1	30
1,2-Dichloroethane	ND	*3	0.0190	0.01952		mg/Kg	☼	103	70 - 130	6	30
1,1-Dichloroethene	ND	*3	0.0190	0.02325		mg/Kg	☼	122	70 - 130	4	30
cis-1,2-Dichloroethene	ND	*3	0.0190	0.02140		mg/Kg	☼	112	70 - 130	2	30
trans-1,2-Dichloroethene	ND	*3	0.0190	0.02284		mg/Kg	☼	120	70 - 130	2	30
1,2-Dichloropropane	ND	*3	0.0190	0.02253		mg/Kg	☼	118	70 - 130	1	30
1,3-Dichloropropane	ND	*3	0.0190	0.01950		mg/Kg	☼	102	70 - 130	9	30
2,2-Dichloropropane	ND	*3	0.0190	0.01968		mg/Kg	☼	103	70 - 130	2	30
1,1-Dichloropropene	ND	*3	0.0190	0.01887		mg/Kg	☼	99	70 - 130	1	30
cis-1,3-Dichloropropene	ND	*3	0.0190	0.01736		mg/Kg	☼	91	70 - 130	5	30
trans-1,3-Dichloropropene	ND	*3	0.0190	0.01978		mg/Kg	☼	104	70 - 130	7	30
Ethylbenzene	ND	*3	0.0190	0.02167		mg/Kg	☼	114	70 - 130	4	30
Hexachlorobutadiene	ND	*3	0.0190	0.01841		mg/Kg	☼	97	70 - 130	2	30
2-Hexanone (MBK)	ND	*3 F1 F2	0.0190	0.01388	F2	mg/Kg	☼	73	70 - 130	37	30
Isopropylbenzene	ND	*3	0.0190	0.01979		mg/Kg	☼	104	70 - 130	3	30
4-Isopropyltoluene	ND	*3	0.0190	0.01916		mg/Kg	☼	101	70 - 130	2	30
Methyl tert-butyl ether	ND	*3	0.0190	0.01532		mg/Kg	☼	80	70 - 130	15	30
4-Methyl-2-pentanone (MIBK)	ND	*3 F1	0.0190	0.01517		mg/Kg	☼	80	70 - 130	29	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	ND	*3	0.0190	0.02395		mg/Kg	☼	126	70 - 130	10	30
Naphthalene	ND	*3 F1 F2	0.0190	0.01294	F1 F2	mg/Kg	☼	68	70 - 130	43	30
N-Propylbenzene	ND	*3	0.0190	0.02224		mg/Kg	☼	117	70 - 130	5	30
Styrene	ND	*3	0.0190	0.02059		mg/Kg	☼	108	70 - 130	3	30
1,1,1,2-Tetrachloroethane	ND	*3	0.0190	0.02032		mg/Kg	☼	107	70 - 130	2	30
1,1,2,2-Tetrachloroethane	ND	*3	0.0190	0.02300		mg/Kg	☼	121	70 - 130	20	30
Tetrachloroethene	ND	*3	0.0190	0.02233		mg/Kg	☼	117	70 - 130	0	30
Toluene	ND	*3	0.0190	0.02324		mg/Kg	☼	122	70 - 130	2	30
1,2,3-Trichlorobenzene	ND	*3	0.0190	0.01650		mg/Kg	☼	87	70 - 130	18	30
1,2,4-Trichlorobenzene	ND	*3	0.0190	0.01737		mg/Kg	☼	91	70 - 130	11	30
1,3,5-Trichlorobenzene	ND	*3	0.0190	0.01845		mg/Kg	☼	97	70 - 130	4	30
1,1,1-Trichloroethane	ND	*3	0.0190	0.02179		mg/Kg	☼	114	70 - 130	1	30
1,1,2-Trichloroethane	ND	*3	0.0190	0.02410		mg/Kg	☼	127	70 - 130	9	30
Trichloroethene	ND	*3	0.0190	0.02121		mg/Kg	☼	111	70 - 130	1	30
Trichlorofluoromethane (Freon 11)	ND	*3	0.0190	0.02319		mg/Kg	☼	122	70 - 130	2	30
1,2,3-Trichloropropane	ND	*3	0.0190	0.01957		mg/Kg	☼	103	70 - 130	22	30
1,2,4-Trimethylbenzene	ND	*3	0.0190	0.02081		mg/Kg	☼	109	70 - 130	5	30
1,3,5-Trimethylbenzene	ND	*3	0.0190	0.02128		mg/Kg	☼	112	70 - 130	4	30
Vinyl chloride	ND	*3	0.0190	0.02040		mg/Kg	☼	107	70 - 130	6	30
m,p-Xylene	ND	*3	0.0381	0.04404		mg/Kg	☼	116	70 - 130	5	30
o-Xylene	ND	*3	0.0190	0.01916		mg/Kg	☼	101	70 - 130	3	30
Tetrahydrofuran	ND	*3 F1 F2	0.0190	0.01544	F2	mg/Kg	☼	81	70 - 130	34	30
Ethyl ether	ND	*3	0.0190	0.01728		mg/Kg	☼	91	70 - 130	11	30
Tert-amyl methyl ether	ND	*3	0.0190	0.01613		mg/Kg	☼	85	70 - 130	11	30
Ethyl tert-butyl ether	ND	*3	0.0190	0.01494		mg/Kg	☼	78	70 - 130	10	30
di-Isopropyl ether	ND	*3	0.0190	0.01554		mg/Kg	☼	82	70 - 130	6	30
tert-Butanol	ND	*3 F1 F2	0.190	0.1691	F2	mg/Kg	☼	89	70 - 130	50	30
1,4-Dioxane	ND	*3 F1 F2	0.190	0.1446	F2	mg/Kg	☼	76	70 - 130	46	30
trans-1,4-Dichloro-2-butene	ND	*3	0.0190	0.02075	J	mg/Kg	☼	109	70 - 130	25	30
Ethanol	ND	*3 F1 F2	0.381	0.4028	J F2	mg/Kg	☼	106	70 - 130	50	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.0212	0.02924	F1	mg/Kg	☼	138	70 - 130
Acetone	ND		0.0212	0.02148	J	mg/Kg	☼	101	70 - 130
Acrylonitrile	ND		0.0212	0.02288		mg/Kg	☼	108	70 - 130
Benzene	ND		0.0212	0.02737		mg/Kg	☼	129	70 - 130
Bromobenzene	ND		0.0212	0.02235		mg/Kg	☼	105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	ND	F1	0.0212	0.02774	F1	mg/Kg	☼	131	70 - 130
Bromodichloromethane	ND	F1	0.0212	0.02925	F1	mg/Kg	☼	138	70 - 130
Bromoform	ND		0.0212	0.02571		mg/Kg	☼	121	70 - 130
Bromomethane	ND	*+	0.0212	0.02645		mg/Kg	☼	124	70 - 130
2-Butanone (MEK)	ND		0.0212	0.02105		mg/Kg	☼	99	70 - 130
n-Butylbenzene	ND		0.0212	0.02465		mg/Kg	☼	116	70 - 130
sec-Butylbenzene	ND		0.0212	0.02467		mg/Kg	☼	116	70 - 130
tert-Butylbenzene	ND		0.0212	0.02491		mg/Kg	☼	117	70 - 130
Carbon disulfide	ND		0.0212	0.02757		mg/Kg	☼	130	70 - 130
Carbon tetrachloride	ND		0.0212	0.02702		mg/Kg	☼	127	70 - 130
Chlorobenzene	ND		0.0212	0.02713		mg/Kg	☼	128	70 - 130
Chloroethane	ND	*+ F1	0.0212	0.02827	F1	mg/Kg	☼	133	70 - 130
Chloroform	ND		0.0212	0.02662		mg/Kg	☼	125	70 - 130
Chloromethane	ND		0.0212	0.02568		mg/Kg	☼	121	70 - 130
2-Chlorotoluene	ND		0.0212	0.02430		mg/Kg	☼	114	70 - 130
4-Chlorotoluene	ND		0.0212	0.02329		mg/Kg	☼	110	70 - 130
1,2-Dibromo-3-Chloropropane	ND		0.0212	0.02137		mg/Kg	☼	101	70 - 130
Dibromochloromethane	ND	F1	0.0212	0.02775	F1	mg/Kg	☼	131	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0212	0.02550		mg/Kg	☼	120	70 - 130
Dibromomethane	ND		0.0212	0.02618		mg/Kg	☼	123	70 - 130
1,2-Dichlorobenzene	ND		0.0212	0.02327		mg/Kg	☼	110	70 - 130
1,3-Dichlorobenzene	ND		0.0212	0.02287		mg/Kg	☼	108	70 - 130
1,4-Dichlorobenzene	ND		0.0212	0.02471		mg/Kg	☼	116	70 - 130
Dichlorodifluoromethane (Freon 12)	ND		0.0212	0.01773		mg/Kg	☼	83	70 - 130
1,1-Dichloroethane	ND	F1	0.0212	0.02831	F1	mg/Kg	☼	133	70 - 130
1,2-Dichloroethane	ND		0.0212	0.02434		mg/Kg	☼	115	70 - 130
1,1-Dichloroethene	ND	F1	0.0212	0.02853	F1	mg/Kg	☼	134	70 - 130
cis-1,2-Dichloroethene	ND		0.0212	0.02605		mg/Kg	☼	123	70 - 130
trans-1,2-Dichloroethene	ND	F1	0.0212	0.02843	F1	mg/Kg	☼	134	70 - 130
1,2-Dichloropropane	ND	F1	0.0212	0.02835	F1	mg/Kg	☼	133	70 - 130
1,3-Dichloropropane	ND		0.0212	0.02406		mg/Kg	☼	113	70 - 130
2,2-Dichloropropane	ND		0.0212	0.02439		mg/Kg	☼	115	70 - 130
1,1-Dichloropropene	ND		0.0212	0.02320		mg/Kg	☼	109	70 - 130
cis-1,3-Dichloropropene	ND		0.0212	0.02122		mg/Kg	☼	100	70 - 130
trans-1,3-Dichloropropene	ND		0.0212	0.02396		mg/Kg	☼	113	70 - 130
Ethylbenzene	ND		0.0212	0.02608		mg/Kg	☼	123	70 - 130
Hexachlorobutadiene	ND		0.0212	0.01928		mg/Kg	☼	91	70 - 130
2-Hexanone (MBK)	ND	F1	0.0212	0.01616		mg/Kg	☼	76	70 - 130
Isopropylbenzene	ND		0.0212	0.02382		mg/Kg	☼	112	70 - 130
4-Isopropyltoluene	ND		0.0212	0.02333		mg/Kg	☼	110	70 - 130
Methyl tert-butyl ether	ND		0.0212	0.02025		mg/Kg	☼	95	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		0.0212	0.01917		mg/Kg	☼	90	70 - 130
Methylene Chloride	ND		0.0212	0.02619		mg/Kg	☼	123	70 - 130
Naphthalene	ND	F1	0.0212	0.01221	F1	mg/Kg	☼	57	70 - 130
N-Propylbenzene	ND		0.0212	0.02599		mg/Kg	☼	122	70 - 130
Styrene	ND		0.0212	0.02317		mg/Kg	☼	109	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0212	0.02537		mg/Kg	☼	119	70 - 130
1,1,2,2-Tetrachloroethane	ND	F1	0.0212	0.02775	F1	mg/Kg	☼	131	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	ND		0.0212	0.02665		mg/Kg	☼	125	70 - 130
Toluene	ND	F1	0.0212	0.02796	F1	mg/Kg	☼	132	70 - 130
1,2,3-Trichlorobenzene	ND		0.0212	0.01577		mg/Kg	☼	74	70 - 130
1,2,4-Trichlorobenzene	ND		0.0212	0.01570		mg/Kg	☼	74	70 - 130
1,3,5-Trichlorobenzene	ND		0.0212	0.01979		mg/Kg	☼	93	70 - 130
1,1,1-Trichloroethane	ND		0.0212	0.02654		mg/Kg	☼	125	70 - 130
1,1,2-Trichloroethane	ND	F1	0.0212	0.02895	F1	mg/Kg	☼	136	70 - 130
Trichloroethene	ND		0.0212	0.02574		mg/Kg	☼	121	70 - 130
Trichlorofluoromethane (Freon 11)	ND	F1	0.0212	0.02786	F1	mg/Kg	☼	131	70 - 130
1,2,3-Trichloropropane	ND		0.0212	0.02365		mg/Kg	☼	111	70 - 130
1,2,4-Trimethylbenzene	ND		0.0212	0.02400		mg/Kg	☼	113	70 - 130
1,3,5-Trimethylbenzene	ND		0.0212	0.02452		mg/Kg	☼	115	70 - 130
Vinyl chloride	ND		0.0212	0.02470		mg/Kg	☼	116	70 - 130
m,p-Xylene	ND		0.0425	0.05268		mg/Kg	☼	124	70 - 130
o-Xylene	ND		0.0212	0.02313		mg/Kg	☼	109	70 - 130
Tetrahydrofuran	ND		0.0212	0.01936		mg/Kg	☼	91	70 - 130
Ethyl ether	ND		0.0212	0.02211		mg/Kg	☼	104	70 - 130
Tert-amyl methyl ether	ND		0.0212	0.02078		mg/Kg	☼	98	70 - 130
Ethyl tert-butyl ether	ND		0.0212	0.01954		mg/Kg	☼	92	70 - 130
di-Isopropyl ether	ND		0.0212	0.02020		mg/Kg	☼	95	70 - 130
tert-Butanol	ND		0.212	0.2140		mg/Kg	☼	101	70 - 130
1,4-Dioxane	ND		0.212	0.2235		mg/Kg	☼	105	70 - 130
trans-1,4-Dichloro-2-butene	ND		0.0212	0.02264	J	mg/Kg	☼	107	70 - 130
Ethanol	ND		0.425	0.5172	J	mg/Kg	☼	122	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.0195	0.02464		mg/Kg	☼	126	70 - 130	17	30
Acetone	ND		0.0195	0.01891	J	mg/Kg	☼	97	70 - 130	13	30
Acrylonitrile	ND		0.0195	0.02017		mg/Kg	☼	103	70 - 130	13	30
Benzene	ND		0.0195	0.02302		mg/Kg	☼	118	70 - 130	17	30
Bromobenzene	ND		0.0195	0.01964		mg/Kg	☼	101	70 - 130	13	30
Bromochloromethane	ND	F1	0.0195	0.02247		mg/Kg	☼	115	70 - 130	21	30
Bromodichloromethane	ND	F1	0.0195	0.02425		mg/Kg	☼	124	70 - 130	19	30
Bromoform	ND		0.0195	0.02203		mg/Kg	☼	113	70 - 130	15	30
Bromomethane	ND	*+	0.0195	0.02159		mg/Kg	☼	111	70 - 130	20	30
2-Butanone (MEK)	ND		0.0195	0.01668		mg/Kg	☼	85	70 - 130	23	30
n-Butylbenzene	ND		0.0195	0.02080		mg/Kg	☼	107	70 - 130	17	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	ND		0.0195	0.02134		mg/Kg	☼	109	70 - 130	14	30
tert-Butylbenzene	ND		0.0195	0.02196		mg/Kg	☼	112	70 - 130	13	30
Carbon disulfide	ND		0.0195	0.02276		mg/Kg	☼	117	70 - 130	19	30
Carbon tetrachloride	ND		0.0195	0.02256		mg/Kg	☼	116	70 - 130	18	30
Chlorobenzene	ND		0.0195	0.02352		mg/Kg	☼	120	70 - 130	14	30
Chloroethane	ND	*+ F1	0.0195	0.02422		mg/Kg	☼	124	70 - 130	15	30
Chloroform	ND		0.0195	0.02230		mg/Kg	☼	114	70 - 130	18	30
Chloromethane	ND		0.0195	0.02114		mg/Kg	☼	108	70 - 130	19	30
2-Chlorotoluene	ND		0.0195	0.02120		mg/Kg	☼	109	70 - 130	14	30
4-Chlorotoluene	ND		0.0195	0.02045		mg/Kg	☼	105	70 - 130	13	30
1,2-Dibromo-3-Chloropropane	ND		0.0195	0.01758		mg/Kg	☼	90	70 - 130	19	30
Dibromochloromethane	ND	F1	0.0195	0.02385		mg/Kg	☼	122	70 - 130	15	30
1,2-Dibromoethane (EDB)	ND		0.0195	0.02158		mg/Kg	☼	111	70 - 130	17	30
Dibromomethane	ND		0.0195	0.02239		mg/Kg	☼	115	70 - 130	16	30
1,2-Dichlorobenzene	ND		0.0195	0.02039		mg/Kg	☼	104	70 - 130	13	30
1,3-Dichlorobenzene	ND		0.0195	0.02086		mg/Kg	☼	107	70 - 130	9	30
1,4-Dichlorobenzene	ND		0.0195	0.02119		mg/Kg	☼	108	70 - 130	15	30
Dichlorodifluoromethane (Freon 12)	ND		0.0195	0.01407		mg/Kg	☼	72	70 - 130	23	30
1,1-Dichloroethane	ND	F1	0.0195	0.02309		mg/Kg	☼	118	70 - 130	20	30
1,2-Dichloroethane	ND		0.0195	0.02029		mg/Kg	☼	104	70 - 130	18	30
1,1-Dichloroethene	ND	F1	0.0195	0.02413		mg/Kg	☼	124	70 - 130	17	30
cis-1,2-Dichloroethene	ND		0.0195	0.02210		mg/Kg	☼	113	70 - 130	16	30
trans-1,2-Dichloroethene	ND	F1	0.0195	0.02381		mg/Kg	☼	122	70 - 130	18	30
1,2-Dichloropropane	ND	F1	0.0195	0.02293		mg/Kg	☼	117	70 - 130	21	30
1,3-Dichloropropane	ND		0.0195	0.02052		mg/Kg	☼	105	70 - 130	16	30
2,2-Dichloropropane	ND		0.0195	0.02043		mg/Kg	☼	105	70 - 130	18	30
1,1-Dichloropropene	ND		0.0195	0.01973		mg/Kg	☼	101	70 - 130	16	30
cis-1,3-Dichloropropene	ND		0.0195	0.01838		mg/Kg	☼	94	70 - 130	14	30
trans-1,3-Dichloropropene	ND		0.0195	0.02054		mg/Kg	☼	105	70 - 130	15	30
Ethylbenzene	ND		0.0195	0.02229		mg/Kg	☼	114	70 - 130	16	30
Hexachlorobutadiene	ND		0.0195	0.01552		mg/Kg	☼	79	70 - 130	22	30
2-Hexanone (MBK)	ND	F1	0.0195	0.01275	F1	mg/Kg	☼	65	70 - 130	24	30
Isopropylbenzene	ND		0.0195	0.02048		mg/Kg	☼	105	70 - 130	15	30
4-Isopropyltoluene	ND		0.0195	0.01938		mg/Kg	☼	99	70 - 130	18	30
Methyl tert-butyl ether	ND		0.0195	0.01696		mg/Kg	☼	87	70 - 130	18	30
4-Methyl-2-pentanone (MIBK)	ND		0.0195	0.01580		mg/Kg	☼	81	70 - 130	19	30
Methylene Chloride	ND		0.0195	0.02239		mg/Kg	☼	115	70 - 130	16	30
Naphthalene	ND	F1	0.0195	0.01133	F1	mg/Kg	☼	58	70 - 130	7	30
N-Propylbenzene	ND		0.0195	0.02228		mg/Kg	☼	114	70 - 130	15	30
Styrene	ND		0.0195	0.02039		mg/Kg	☼	104	70 - 130	13	30
1,1,1,2-Tetrachloroethane	ND		0.0195	0.02157		mg/Kg	☼	110	70 - 130	16	30
1,1,2,2-Tetrachloroethane	ND	F1	0.0195	0.02373		mg/Kg	☼	122	70 - 130	16	30
Tetrachloroethene	ND		0.0195	0.02254		mg/Kg	☼	115	70 - 130	17	30
Toluene	ND	F1	0.0195	0.02346		mg/Kg	☼	120	70 - 130	17	30
1,2,3-Trichlorobenzene	ND		0.0195	0.01369		mg/Kg	☼	70	70 - 130	14	30
1,2,4-Trichlorobenzene	ND		0.0195	0.01438		mg/Kg	☼	74	70 - 130	9	30
1,3,5-Trichlorobenzene	ND		0.0195	0.01691		mg/Kg	☼	87	70 - 130	16	30
1,1,1-Trichloroethane	ND		0.0195	0.02270		mg/Kg	☼	116	70 - 130	16	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND	F1	0.0195	0.02533		mg/Kg	☼	130	70 - 130	13	30
Trichloroethene	ND		0.0195	0.02176		mg/Kg	☼	111	70 - 130	17	30
Trichlorofluoromethane (Freon 11)	ND	F1	0.0195	0.02305		mg/Kg	☼	118	70 - 130	19	30
1,2,3-Trichloropropane	ND		0.0195	0.02003		mg/Kg	☼	103	70 - 130	17	30
1,2,4-Trimethylbenzene	ND		0.0195	0.02066		mg/Kg	☼	106	70 - 130	15	30
1,3,5-Trimethylbenzene	ND		0.0195	0.02130		mg/Kg	☼	109	70 - 130	14	30
Vinyl chloride	ND		0.0195	0.02060		mg/Kg	☼	105	70 - 130	18	30
m,p-Xylene	ND		0.0391	0.04538		mg/Kg	☼	116	70 - 130	15	30
o-Xylene	ND		0.0195	0.02038		mg/Kg	☼	104	70 - 130	13	30
Tetrahydrofuran	ND		0.0195	0.01607		mg/Kg	☼	82	70 - 130	19	30
Ethyl ether	ND		0.0195	0.01843		mg/Kg	☼	94	70 - 130	18	30
Tert-amyl methyl ether	ND		0.0195	0.01730		mg/Kg	☼	89	70 - 130	18	30
Ethyl tert-butyl ether	ND		0.0195	0.01634		mg/Kg	☼	84	70 - 130	18	30
di-Isopropyl ether	ND		0.0195	0.01663		mg/Kg	☼	85	70 - 130	19	30
tert-Butanol	ND		0.195	0.1824		mg/Kg	☼	93	70 - 130	16	30
1,4-Dioxane	ND		0.195	0.1745		mg/Kg	☼	89	70 - 130	25	30
trans-1,4-Dichloro-2-butene	ND		0.0195	0.02120	J	mg/Kg	☼	109	70 - 130	7	30
Ethanol	ND		0.391	0.4422	J	mg/Kg	☼	113	70 - 130	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Acetone	0.03405	J	0.0500	0.0112	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0160	0.01715		mg/Kg		107	70 - 130
Acetone	0.0160	0.01632	J	mg/Kg		102	70 - 130
Acrylonitrile	0.0160	0.01596		mg/Kg		100	70 - 130
Benzene	0.0160	0.01683		mg/Kg		105	70 - 130
Bromobenzene	0.0160	0.01937		mg/Kg		121	70 - 130
Bromochloromethane	0.0160	0.01781		mg/Kg		111	70 - 130
Bromodichloromethane	0.0160	0.01660		mg/Kg		104	70 - 130
Bromoform	0.0160	0.02043		mg/Kg		128	70 - 130
Bromomethane	0.0160	0.01949		mg/Kg		122	70 - 130
2-Butanone (MEK)	0.0160	0.01668		mg/Kg		104	70 - 130
n-Butylbenzene	0.0160	0.01893		mg/Kg		118	70 - 130
sec-Butylbenzene	0.0160	0.01948		mg/Kg		122	70 - 130
tert-Butylbenzene	0.0160	0.01646		mg/Kg		103	70 - 130
Carbon disulfide	0.0160	0.01708		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0160	0.01610		mg/Kg		101	70 - 130
Chlorobenzene	0.0160	0.02004		mg/Kg		125	70 - 130
Chloroethane	0.0160	0.01791		mg/Kg		112	70 - 130
Chloroform	0.0160	0.01671		mg/Kg		104	70 - 130
Chloromethane	0.0160	0.01352		mg/Kg		84	70 - 130
2-Chlorotoluene	0.0160	0.01939		mg/Kg		121	70 - 130
4-Chlorotoluene	0.0160	0.01906		mg/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	0.0160	0.02222	*+	mg/Kg		139	70 - 130
Dibromochloromethane	0.0160	0.01716		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0160	0.01737		mg/Kg		109	70 - 130
Dibromomethane	0.0160	0.01698		mg/Kg		106	70 - 130
1,2-Dichlorobenzene	0.0160	0.02056		mg/Kg		128	70 - 130
1,3-Dichlorobenzene	0.0160	0.02015		mg/Kg		126	70 - 130
1,4-Dichlorobenzene	0.0160	0.02080		mg/Kg		130	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0160	0.01044	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0160	0.01612		mg/Kg		101	70 - 130
1,2-Dichloroethane	0.0160	0.01594		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0160	0.01637		mg/Kg		102	70 - 130
cis-1,2-Dichloroethene	0.0160	0.01557		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0160	0.01632		mg/Kg		102	70 - 130
1,2-Dichloropropane	0.0160	0.01585		mg/Kg		99	70 - 130
1,3-Dichloropropane	0.0160	0.01650		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0160	0.01484		mg/Kg		93	70 - 130
1,1-Dichloropropene	0.0160	0.01492		mg/Kg		93	70 - 130
cis-1,3-Dichloropropene	0.0160	0.01418		mg/Kg		89	70 - 130
trans-1,3-Dichloropropene	0.0160	0.01617		mg/Kg		101	70 - 130
Ethylbenzene	0.0160	0.01900		mg/Kg		119	70 - 130
Hexachlorobutadiene	0.0160	0.01870		mg/Kg		117	70 - 130
2-Hexanone (MBK)	0.0160	0.01280		mg/Kg		80	70 - 130
Isopropylbenzene	0.0160	0.01835		mg/Kg		115	70 - 130
4-Isopropyltoluene	0.0160	0.01851		mg/Kg		116	70 - 130
Methyl tert-butyl ether	0.0160	0.01422		mg/Kg		89	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0160	0.01422		mg/Kg		89	70 - 130
Methylene Chloride	0.0160	0.01650		mg/Kg		103	70 - 130
Naphthalene	0.0160	0.01950		mg/Kg		122	70 - 130
N-Propylbenzene	0.0160	0.01959		mg/Kg		122	70 - 130
Styrene	0.0160	0.01935		mg/Kg		121	70 - 130
1,1,1,2-Tetrachloroethane	0.0160	0.01982		mg/Kg		124	70 - 130
1,1,2,2-Tetrachloroethane	0.0160	0.02161	*+	mg/Kg		135	70 - 130
Tetrachloroethene	0.0160	0.01598		mg/Kg		100	70 - 130
Toluene	0.0160	0.01722		mg/Kg		108	70 - 130
1,2,3-Trichlorobenzene	0.0160	0.02006		mg/Kg		125	70 - 130
1,2,4-Trichlorobenzene	0.0160	0.01833		mg/Kg		115	70 - 130
1,3,5-Trichlorobenzene	0.0160	0.02037		mg/Kg		127	70 - 130
1,1,1-Trichloroethane	0.0160	0.01610		mg/Kg		101	70 - 130
1,1,2-Trichloroethane	0.0160	0.01792		mg/Kg		112	70 - 130
Trichloroethene	0.0160	0.01724		mg/Kg		108	70 - 130
Trichlorofluoromethane (Freon 11)	0.0160	0.01590		mg/Kg		99	70 - 130
1,2,3-Trichloropropane	0.0160	0.02047		mg/Kg		128	70 - 130
1,2,4-Trimethylbenzene	0.0160	0.01932		mg/Kg		121	70 - 130
1,3,5-Trimethylbenzene	0.0160	0.01929		mg/Kg		121	70 - 130
Vinyl chloride	0.0160	0.01462		mg/Kg		91	70 - 130
m,p-Xylene	0.0160	0.01789		mg/Kg		112	70 - 130
o-Xylene	0.0160	0.01724		mg/Kg		108	70 - 130
Tetrahydrofuran	0.0160	0.01358		mg/Kg		85	70 - 130
Ethyl ether	0.0160	0.01581		mg/Kg		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0160	0.01394		mg/Kg		87	70 - 130		
Ethyl tert-butyl ether			0.0160	0.01296		mg/Kg		81	70 - 130		
di-Isopropyl ether			0.0160	0.01332		mg/Kg		83	70 - 130		
tert-Butanol			0.160	0.1420		mg/Kg		89	70 - 130		
1,4-Dioxane			0.160	0.1189		mg/Kg		74	70 - 130		
trans-1,4-Dichloro-2-butene			0.0160	0.01631	J	mg/Kg		102	70 - 130		
Ethanol			0.320	0.3117	J	mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0160	0.01667		mg/Kg		104	70 - 130	3	30
Acetone			0.0160	0.01605	J	mg/Kg		100	70 - 130	2	30
Acrylonitrile			0.0160	0.01566		mg/Kg		98	70 - 130	2	30
Benzene			0.0160	0.01629		mg/Kg		102	70 - 130	3	30
Bromobenzene			0.0160	0.01889		mg/Kg		118	70 - 130	3	30
Bromochloromethane			0.0160	0.01722		mg/Kg		108	70 - 130	3	30
Bromodichloromethane			0.0160	0.01610		mg/Kg		101	70 - 130	3	30
Bromoform			0.0160	0.02043		mg/Kg		128	70 - 130	0	30
Bromomethane			0.0160	0.01893		mg/Kg		118	70 - 130	3	30
2-Butanone (MEK)			0.0160	0.01654		mg/Kg		103	70 - 130	1	30
n-Butylbenzene			0.0160	0.01794		mg/Kg		112	70 - 130	5	30
sec-Butylbenzene			0.0160	0.01889		mg/Kg		118	70 - 130	3	30
tert-Butylbenzene			0.0160	0.01608		mg/Kg		101	70 - 130	2	30
Carbon disulfide			0.0160	0.01653		mg/Kg		103	70 - 130	3	30
Carbon tetrachloride			0.0160	0.01571		mg/Kg		98	70 - 130	2	30
Chlorobenzene			0.0160	0.01940		mg/Kg		121	70 - 130	3	30
Chloroethane			0.0160	0.01767		mg/Kg		110	70 - 130	1	30
Chloroform			0.0160	0.01646		mg/Kg		103	70 - 130	2	30
Chloromethane			0.0160	0.01304		mg/Kg		82	70 - 130	4	30
2-Chlorotoluene			0.0160	0.01870		mg/Kg		117	70 - 130	4	30
4-Chlorotoluene			0.0160	0.01838		mg/Kg		115	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			0.0160	0.02251	*+	mg/Kg		141	70 - 130	1	30
Dibromochloromethane			0.0160	0.01721		mg/Kg		108	70 - 130	0	30
1,2-Dibromoethane (EDB)			0.0160	0.01651		mg/Kg		103	70 - 130	5	30
Dibromomethane			0.0160	0.01656		mg/Kg		104	70 - 130	2	30
1,2-Dichlorobenzene			0.0160	0.02022		mg/Kg		126	70 - 130	2	30
1,3-Dichlorobenzene			0.0160	0.01964		mg/Kg		123	70 - 130	3	30
1,4-Dichlorobenzene			0.0160	0.01997		mg/Kg		125	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0160	0.009832	J *-	mg/Kg		61	70 - 130	6	30
1,1-Dichloroethane	0.0160	0.01578		mg/Kg		99	70 - 130	2	30
1,2-Dichloroethane	0.0160	0.01544		mg/Kg		97	70 - 130	3	30
1,1-Dichloroethene	0.0160	0.01598		mg/Kg		100	70 - 130	2	30
cis-1,2-Dichloroethene	0.0160	0.01552		mg/Kg		97	70 - 130	0	30
trans-1,2-Dichloroethene	0.0160	0.01570		mg/Kg		98	70 - 130	4	30
1,2-Dichloropropane	0.0160	0.01531		mg/Kg		96	70 - 130	3	30
1,3-Dichloropropane	0.0160	0.01620		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane	0.0160	0.01469		mg/Kg		92	70 - 130	1	30
1,1-Dichloropropene	0.0160	0.01487		mg/Kg		93	70 - 130	0	30
cis-1,3-Dichloropropene	0.0160	0.01434		mg/Kg		90	70 - 130	1	30
trans-1,3-Dichloropropene	0.0160	0.01554		mg/Kg		97	70 - 130	4	30
Ethylbenzene	0.0160	0.01884		mg/Kg		118	70 - 130	1	30
Hexachlorobutadiene	0.0160	0.01868		mg/Kg		117	70 - 130	0	30
2-Hexanone (MBK)	0.0160	0.01305		mg/Kg		82	70 - 130	2	30
Isopropylbenzene	0.0160	0.01806		mg/Kg		113	70 - 130	2	30
4-Isopropyltoluene	0.0160	0.01822		mg/Kg		114	70 - 130	2	30
Methyl tert-butyl ether	0.0160	0.01431		mg/Kg		89	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0160	0.01368		mg/Kg		85	70 - 130	4	30
Methylene Chloride	0.0160	0.01616		mg/Kg		101	70 - 130	2	30
Naphthalene	0.0160	0.02025		mg/Kg		127	70 - 130	4	30
N-Propylbenzene	0.0160	0.01875		mg/Kg		117	70 - 130	4	30
Styrene	0.0160	0.01881		mg/Kg		118	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0160	0.01947		mg/Kg		122	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0160	0.02100	*+	mg/Kg		131	70 - 130	3	30
Tetrachloroethene	0.0160	0.01583		mg/Kg		99	70 - 130	1	30
Toluene	0.0160	0.01689		mg/Kg		106	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0160	0.01961		mg/Kg		123	70 - 130	2	30
1,2,4-Trichlorobenzene	0.0160	0.01800		mg/Kg		113	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0160	0.01945		mg/Kg		122	70 - 130	5	30
1,1,1-Trichloroethane	0.0160	0.01583		mg/Kg		99	70 - 130	2	30
1,1,2-Trichloroethane	0.0160	0.01757		mg/Kg		110	70 - 130	2	30
Trichloroethene	0.0160	0.01656		mg/Kg		104	70 - 130	4	30
Trichlorofluoromethane (Freon 11)	0.0160	0.01549		mg/Kg		97	70 - 130	3	30
1,2,3-Trichloropropane	0.0160	0.02035		mg/Kg		127	70 - 130	1	30
1,2,4-Trimethylbenzene	0.0160	0.01861		mg/Kg		116	70 - 130	4	30
1,3,5-Trimethylbenzene	0.0160	0.01886		mg/Kg		118	70 - 130	2	30
Vinyl chloride	0.0160	0.01406		mg/Kg		88	70 - 130	4	30
m,p-Xylene	0.0160	0.01762		mg/Kg		110	70 - 130	2	30
o-Xylene	0.0160	0.01700		mg/Kg		106	70 - 130	1	30
Tetrahydrofuran	0.0160	0.01385		mg/Kg		87	70 - 130	2	30
Ethyl ether	0.0160	0.01566		mg/Kg		98	70 - 130	1	30
Tert-amyl methyl ether	0.0160	0.01370		mg/Kg		86	70 - 130	2	30
Ethyl tert-butyl ether	0.0160	0.01300		mg/Kg		81	70 - 130	0	30
di-Isopropyl ether	0.0160	0.01372		mg/Kg		86	70 - 130	3	30
tert-Butanol	0.160	0.1448		mg/Kg		91	70 - 130	2	30
1,4-Dioxane	0.160	0.1136		mg/Kg		71	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0160	0.01563	J	mg/Kg		98	70 - 130	4	30
Ethanol			0.320	0.3615	J	mg/Kg		113	70 - 130	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Aniline	ND		0.330	0.0253	mg/Kg		03/13/23 11:00	03/13/23 20:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.0667	0.0386	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Phenol	ND		0.330	0.0680	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/13/23 11:00	03/13/23 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
2-Fluorophenol (Surr)	*81*		*15 - 110*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/13/23 11:00*	*03/13/23 20:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	46		15 - 110	03/13/23 11:00	03/13/23 20:30	1
Terphenyl-d14	70		30 - 130	03/13/23 11:00	03/13/23 20:30	1

Lab Sample ID: LCS 620-20475/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.038		mg/Kg		62	40 - 140
1,2,4-Trichlorobenzene	1.67	1.338		mg/Kg		80	40 - 140
1,2-Dichlorobenzene	1.67	1.248		mg/Kg		75	40 - 140
1,3-Dichlorobenzene	1.67	1.271		mg/Kg		76	40 - 140
1,4-Dichlorobenzene	1.67	1.235		mg/Kg		74	40 - 140
1-Methylnaphthalene	1.67	1.376		mg/Kg		83	40 - 140
2,4,5-Trichlorophenol	1.67	1.319		mg/Kg		79	30 - 130
2,4,6-Trichlorophenol	1.67	1.424		mg/Kg		85	30 - 130
2,4-Dichlorophenol	1.67	1.294		mg/Kg		78	30 - 130
2,4-Dimethylphenol	1.67	1.256		mg/Kg		75	30 - 130
2,4-Dinitrophenol	1.67	1.737		mg/Kg		104	30 - 130
2,4-Dinitrotoluene	1.67	1.424		mg/Kg		85	40 - 140
2,6-Dinitrotoluene	1.67	1.385		mg/Kg		83	40 - 140
2-Chloronaphthalene	1.67	1.343		mg/Kg		81	40 - 140
2-Chlorophenol	1.67	1.309		mg/Kg		79	30 - 130
2-Methylnaphthalene	1.67	1.387		mg/Kg		83	40 - 140
2-Methylphenol	1.67	1.410		mg/Kg		85	30 - 130
2-Nitroaniline	1.67	1.402		mg/Kg		84	40 - 140
2-Nitrophenol	1.67	1.368		mg/Kg		82	30 - 130
3 & 4 Methylphenol	1.67	1.396		mg/Kg		84	30 - 130
3,3'-Dichlorobenzidine	1.67	1.894		mg/Kg		114	40 - 140
3-Nitroaniline	1.67	0.9997		mg/Kg		60	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.156		mg/Kg		69	30 - 130
4-Bromophenyl phenyl ether	1.67	1.419		mg/Kg		85	40 - 140
4-Chloro-3-methylphenol	1.67	1.421		mg/Kg		85	30 - 130
4-Chloroaniline	1.67	0.8748		mg/Kg		52	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.334		mg/Kg		80	40 - 140
4-Nitroaniline	1.67	1.313		mg/Kg		79	40 - 140
4-Nitrophenol	1.67	1.187		mg/Kg		71	30 - 130
Acenaphthene	1.67	1.304		mg/Kg		78	40 - 140
Acenaphthylene	1.67	1.322		mg/Kg		79	40 - 140
Acetophenone	1.67	1.366		mg/Kg		82	40 - 140
Aniline	1.67	1.065		mg/Kg		64	40 - 140
Anthracene	1.67	1.588		mg/Kg		95	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.396		mg/Kg		84	40 - 140
Benzidine	1.67	1.022		mg/Kg		61	40 - 140
Benzo[a]anthracene	1.67	1.533		mg/Kg		92	40 - 140
Benzo[a]pyrene	1.67	1.383		mg/Kg		83	40 - 140
Benzo[b]fluoranthene	1.67	1.523		mg/Kg		91	40 - 140
Benzo[g,h,i]perylene	1.67	1.427		mg/Kg		86	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20475/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[k]fluoranthene	1.67	1.254		mg/Kg		75	40 - 140
Benzoic acid	1.67	0.5241		mg/Kg		31	30 - 130
Benzyl alcohol	1.67	1.195		mg/Kg		72	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.226		mg/Kg		74	40 - 140
Bis(2-chloroethyl)ether	1.67	1.255		mg/Kg		75	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.129		mg/Kg		68	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.577		mg/Kg		95	40 - 140
Butyl benzyl phthalate	1.67	1.492		mg/Kg		90	40 - 140
Carbazole	1.67	1.451		mg/Kg		87	40 - 140
Chrysene	1.67	1.530		mg/Kg		92	40 - 140
Dibenz(a,h)anthracene	1.67	1.317		mg/Kg		79	40 - 140
Dibenzofuran	1.67	1.432		mg/Kg		86	40 - 140
Diethyl phthalate	1.67	1.337		mg/Kg		80	40 - 140
Dimethyl phthalate	1.67	1.408		mg/Kg		84	40 - 140
Di-n-butyl phthalate	1.67	1.587		mg/Kg		95	40 - 140
Di-n-octyl phthalate	1.67	1.546		mg/Kg		93	40 - 140
Fluoranthene	1.67	1.524		mg/Kg		91	40 - 140
Fluorene	1.67	1.284		mg/Kg		77	40 - 140
Hexachlorobenzene	1.67	1.412		mg/Kg		85	40 - 140
Hexachlorobutadiene	1.67	1.134		mg/Kg		68	40 - 140
Hexachlorocyclopentadiene	1.67	1.436		mg/Kg		86	40 - 140
Hexachloroethane	1.67	1.262		mg/Kg		76	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.284		mg/Kg		77	40 - 140
Isophorone	1.67	1.051		mg/Kg		63	40 - 140
Naphthalene	1.67	1.323		mg/Kg		79	40 - 140
Nitrobenzene	1.67	1.361		mg/Kg		82	40 - 140
N-Nitrosodimethylamine	1.67	1.148		mg/Kg		69	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.300		mg/Kg		78	40 - 140
N-Nitrosodiphenylamine	1.67	1.484		mg/Kg		89	40 - 140
Pentachloronitrobenzene	1.67	1.034		mg/Kg		62	40 - 140
Pentachlorophenol	1.67	1.122		mg/Kg		67	30 - 130
Phenanthrene	1.67	1.427		mg/Kg		86	40 - 140
Phenol	1.67	1.380		mg/Kg		83	40 - 140
Pyrene	1.67	1.568		mg/Kg		94	40 - 140
Pyridine	1.67	0.9719		mg/Kg		58	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*83*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*76*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20475/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.034		mg/Kg		62	40 - 140	0	30
1,2,4-Trichlorobenzene			1.67	1.327		mg/Kg		80	40 - 140	1	30
1,2-Dichlorobenzene			1.67	1.233		mg/Kg		74	40 - 140	1	30
1,3-Dichlorobenzene			1.67	1.261		mg/Kg		76	40 - 140	1	30
1,4-Dichlorobenzene			1.67	1.217		mg/Kg		73	40 - 140	1	30
1-Methylnaphthalene			1.67	1.364		mg/Kg		82	40 - 140	1	30
2,4,5-Trichlorophenol			1.67	1.271		mg/Kg		76	30 - 130	4	30
2,4,6-Trichlorophenol			1.67	1.395		mg/Kg		84	30 - 130	2	30
2,4-Dichlorophenol			1.67	1.264		mg/Kg		76	30 - 130	2	30
2,4-Dimethylphenol			1.67	1.252		mg/Kg		75	30 - 130	0	30
2,4-Dinitrophenol			1.67	1.679		mg/Kg		101	30 - 130	3	30
2,4-Dinitrotoluene			1.67	1.352		mg/Kg		81	40 - 140	5	30
2,6-Dinitrotoluene			1.67	1.349		mg/Kg		81	40 - 140	3	30
2-Chloronaphthalene			1.67	1.313		mg/Kg		79	40 - 140	2	30
2-Chlorophenol			1.67	1.306		mg/Kg		78	30 - 130	0	30
2-Methylnaphthalene			1.67	1.353		mg/Kg		81	40 - 140	2	30
2-Methylphenol			1.67	1.392		mg/Kg		84	30 - 130	1	30
2-Nitroaniline			1.67	1.345		mg/Kg		81	40 - 140	4	30
2-Nitrophenol			1.67	1.342		mg/Kg		81	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.408		mg/Kg		85	30 - 130	1	30
3,3'-Dichlorobenzidine			1.67	1.965		mg/Kg		118	40 - 140	4	30
3-Nitroaniline			1.67	1.078		mg/Kg		65	40 - 140	8	30
4,6-Dinitro-2-methylphenol			1.67	1.155		mg/Kg		69	30 - 130	0	30
4-Bromophenyl phenyl ether			1.67	1.385		mg/Kg		83	40 - 140	2	30
4-Chloro-3-methylphenol			1.67	1.372		mg/Kg		82	30 - 130	3	30
4-Chloroaniline			1.67	1.014		mg/Kg		61	40 - 140	15	30
4-Chlorophenyl phenyl ether			1.67	1.312		mg/Kg		79	40 - 140	2	30
4-Nitroaniline			1.67	1.286		mg/Kg		77	40 - 140	2	30
4-Nitrophenol			1.67	1.147		mg/Kg		69	30 - 130	3	30
Acenaphthene			1.67	1.276		mg/Kg		77	40 - 140	2	30
Acenaphthylene			1.67	1.301		mg/Kg		78	40 - 140	2	30
Acetophenone			1.67	1.345		mg/Kg		81	40 - 140	1	30
Aniline			1.67	1.174		mg/Kg		70	40 - 140	10	30
Anthracene			1.67	1.579		mg/Kg		95	40 - 140	1	30
Azobenzene/Diphenyldiazene			1.67	1.359		mg/Kg		82	40 - 140	3	30
Benzidine			1.67	1.063		mg/Kg		64	40 - 140	4	30
Benzo[a]anthracene			1.67	1.521		mg/Kg		91	40 - 140	1	30
Benzo[a]pyrene			1.67	1.375		mg/Kg		82	40 - 140	1	30
Benzo[b]fluoranthene			1.67	1.503		mg/Kg		90	40 - 140	1	30
Benzo[g,h,i]perylene			1.67	1.434		mg/Kg		86	40 - 140	0	30
Benzo[k]fluoranthene			1.67	1.257		mg/Kg		75	40 - 140	0	30
Benzoic acid			1.67	0.3648	*- *1	mg/Kg		22	30 - 130	36	30
Benzyl alcohol			1.67	1.203		mg/Kg		72	40 - 140	1	30
Bis(2-chloroethoxy)methane			1.67	1.240		mg/Kg		74	40 - 140	1	30
Bis(2-chloroethyl)ether			1.67	1.268		mg/Kg		76	40 - 140	1	30
bis (2-chloroisopropyl) ether			1.67	0.9673		mg/Kg		58	40 - 140	15	30
Bis(2-ethylhexyl) phthalate			1.67	1.589		mg/Kg		95	40 - 140	1	30
Butyl benzyl phthalate			1.67	1.480		mg/Kg		89	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20475/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbazole			1.67	1.443		mg/Kg		87	40 - 140	1	30
Chrysene			1.67	1.519		mg/Kg		91	40 - 140	1	30
Dibenz(a,h)anthracene			1.67	1.331		mg/Kg		80	40 - 140	1	30
Dibenzofuran			1.67	1.388		mg/Kg		83	40 - 140	3	30
Diethyl phthalate			1.67	1.306		mg/Kg		78	40 - 140	2	30
Dimethyl phthalate			1.67	1.377		mg/Kg		83	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.558		mg/Kg		93	40 - 140	2	30
Di-n-octyl phthalate			1.67	1.543		mg/Kg		93	40 - 140	0	30
Fluoranthene			1.67	1.507		mg/Kg		90	40 - 140	1	30
Fluorene			1.67	1.262		mg/Kg		76	40 - 140	2	30
Hexachlorobenzene			1.67	1.405		mg/Kg		84	40 - 140	0	30
Hexachlorobutadiene			1.67	1.164		mg/Kg		70	40 - 140	3	30
Hexachlorocyclopentadiene			1.67	1.399		mg/Kg		84	40 - 140	3	30
Hexachloroethane			1.67	1.255		mg/Kg		75	40 - 140	1	30
Indeno[1,2,3-cd]pyrene			1.67	1.302		mg/Kg		78	40 - 140	1	30
Isophorone			1.67	1.052		mg/Kg		63	40 - 140	0	30
Naphthalene			1.67	1.323		mg/Kg		79	40 - 140	0	30
Nitrobenzene			1.67	1.355		mg/Kg		81	40 - 140	0	30
N-Nitrosodimethylamine			1.67	1.106		mg/Kg		66	40 - 140	4	30
N-Nitrosodi-n-propylamine			1.67	1.296		mg/Kg		78	40 - 140	0	30
N-Nitrosodiphenylamine			1.67	1.449		mg/Kg		87	40 - 140	2	30
Pentachloronitrobenzene			1.67	1.008		mg/Kg		60	40 - 140	3	30
Pentachlorophenol			1.67	1.117		mg/Kg		67	30 - 130	0	30
Phenanthrene			1.67	1.380		mg/Kg		83	40 - 140	3	30
Phenol			1.67	1.379		mg/Kg		83	40 - 140	0	30
Pyrene			1.67	1.557		mg/Kg		93	40 - 140	1	30
Pyridine			1.67	0.9389		mg/Kg		56	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*82*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*
Terphenyl-d14	*75*		*30 - 130*

Lab Sample ID: MB 620-20520/1-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/14/23 10:48	03/14/23 13:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20520/1-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Aniline	ND		0.330	0.0253	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/14/23 10:48	03/14/23 13:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20520/1-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pentachlorophenol	0.1521	J	0.330	0.135	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Phenol	ND		0.330	0.0680	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/14/23 10:48	03/14/23 13:42	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/14/23 10:48	03/14/23 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*30 - 130*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
2-Fluorophenol (Surr)	*71*		*15 - 110*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
2,4,6-Tribromophenol (Surr)	*50*		*15 - 110*	*03/14/23 10:48*	*03/14/23 13:42*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/14/23 10:48*	*03/14/23 13:42*	*1*

Lab Sample ID: LCS 620-20520/2-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9177		mg/Kg		55	40 - 140
1,2,4-Trichlorobenzene	1.67	1.126		mg/Kg		68	40 - 140
1,2-Dichlorobenzene	1.67	1.073		mg/Kg		64	40 - 140
1,3-Dichlorobenzene	1.67	1.094		mg/Kg		66	40 - 140
1,4-Dichlorobenzene	1.67	1.089		mg/Kg		65	40 - 140
1-Methylnaphthalene	1.67	1.242		mg/Kg		75	40 - 140
2,4,5-Trichlorophenol	1.67	1.237		mg/Kg		74	30 - 130
2,4,6-Trichlorophenol	1.67	1.314		mg/Kg		79	30 - 130
2,4-Dichlorophenol	1.67	1.130		mg/Kg		68	30 - 130
2,4-Dimethylphenol	1.67	1.148		mg/Kg		69	30 - 130
2,4-Dinitrophenol	1.67	1.523		mg/Kg		91	30 - 130
2,4-Dinitrotoluene	1.67	1.433		mg/Kg		86	40 - 140
2,6-Dinitrotoluene	1.67	1.309		mg/Kg		79	40 - 140
2-Chloronaphthalene	1.67	1.221		mg/Kg		73	40 - 140
2-Chlorophenol	1.67	1.170		mg/Kg		70	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20520/2-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.67	1.209		mg/Kg		73	40 - 140
2-Methylphenol	1.67	1.322		mg/Kg		79	30 - 130
2-Nitroaniline	1.67	1.321		mg/Kg		79	40 - 140
2-Nitrophenol	1.67	1.202		mg/Kg		72	30 - 130
3 & 4 Methylphenol	1.67	1.312		mg/Kg		79	30 - 130
3,3'-Dichlorobenzidine	1.67	1.962		mg/Kg		118	40 - 140
3-Nitroaniline	1.67	1.062		mg/Kg		64	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.7863		mg/Kg		47	30 - 130
4-Bromophenyl phenyl ether	1.67	1.327		mg/Kg		80	40 - 140
4-Chloro-3-methylphenol	1.67	1.275		mg/Kg		76	30 - 130
4-Chloroaniline	1.67	0.8223		mg/Kg		49	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.229		mg/Kg		74	40 - 140
4-Nitroaniline	1.67	1.423		mg/Kg		85	40 - 140
4-Nitrophenol	1.67	1.304		mg/Kg		78	30 - 130
Acenaphthene	1.67	1.186		mg/Kg		71	40 - 140
Acenaphthylene	1.67	1.187		mg/Kg		71	40 - 140
Acetophenone	1.67	1.297		mg/Kg		78	40 - 140
Aniline	1.67	1.035		mg/Kg		62	40 - 140
Anthracene	1.67	1.601		mg/Kg		96	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.292		mg/Kg		77	40 - 140
Benzidine	1.67	0.7759		mg/Kg		47	40 - 140
Benzo[a]anthracene	1.67	1.646		mg/Kg		99	40 - 140
Benzo[a]pyrene	1.67	1.458		mg/Kg		87	40 - 140
Benzo[b]fluoranthene	1.67	1.573		mg/Kg		94	40 - 140
Benzo[g,h,i]perylene	1.67	1.495		mg/Kg		90	40 - 140
Benzo[k]fluoranthene	1.67	1.452		mg/Kg		87	40 - 140
Benzoic acid	1.67	0.4950		mg/Kg		30	30 - 130
Benzyl alcohol	1.67	1.125		mg/Kg		68	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.108		mg/Kg		66	40 - 140
Bis(2-chloroethyl)ether	1.67	1.173		mg/Kg		70	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.114		mg/Kg		67	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.688		mg/Kg		101	40 - 140
Butyl benzyl phthalate	1.67	1.622		mg/Kg		97	40 - 140
Carbazole	1.67	1.539		mg/Kg		92	40 - 140
Chrysene	1.67	1.630		mg/Kg		98	40 - 140
Dibenz(a,h)anthracene	1.67	1.435		mg/Kg		86	40 - 140
Dibenzofuran	1.67	1.262		mg/Kg		76	40 - 140
Diethyl phthalate	1.67	1.328		mg/Kg		80	40 - 140
Dimethyl phthalate	1.67	1.274		mg/Kg		76	40 - 140
Di-n-butyl phthalate	1.67	1.736		mg/Kg		104	40 - 140
Di-n-octyl phthalate	1.67	1.702		mg/Kg		102	40 - 140
Fluoranthene	1.67	1.599		mg/Kg		96	40 - 140
Fluorene	1.67	1.180		mg/Kg		71	40 - 140
Hexachlorobenzene	1.67	1.358		mg/Kg		81	40 - 140
Hexachlorobutadiene	1.67	0.9607		mg/Kg		58	40 - 140
Hexachlorocyclopentadiene	1.67	1.148		mg/Kg		69	40 - 140
Hexachloroethane	1.67	1.108		mg/Kg		67	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.390		mg/Kg		83	40 - 140
Isophorone	1.67	0.9765		mg/Kg		59	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20520/2-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			1.67	1.147		mg/Kg		69	40 - 140		
Nitrobenzene			1.67	1.223		mg/Kg		73	40 - 140		
N-Nitrosodimethylamine			1.67	1.153		mg/Kg		69	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.268		mg/Kg		76	40 - 140		
N-Nitrosodiphenylamine			1.67	1.463		mg/Kg		88	40 - 140		
Pentachloronitrobenzene			1.67	1.079		mg/Kg		65	40 - 140		
Pentachlorophenol			1.67	0.9527		mg/Kg		57	30 - 130		
Phenanthrene			1.67	1.423		mg/Kg		85	40 - 140		
Phenol			1.67	1.287		mg/Kg		77	40 - 140		
Pyrene			1.67	1.658		mg/Kg		99	40 - 140		
Pyridine			1.67	0.9719		mg/Kg		58	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*
2-Fluorophenol (Surr)	*79*		*15 - 110*
Nitrobenzene-d5 (Surr)	*72*		*30 - 130*
Phenol-d5 (Surr)	*77*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: LCSD 620-20520/3-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.073		mg/Kg		64	40 - 140	16	30
1,2,4-Trichlorobenzene			1.67	1.343		mg/Kg		81	40 - 140	18	30
1,2-Dichlorobenzene			1.67	1.282		mg/Kg		77	40 - 140	18	30
1,3-Dichlorobenzene			1.67	1.278		mg/Kg		77	40 - 140	16	30
1,4-Dichlorobenzene			1.67	1.281		mg/Kg		77	40 - 140	16	30
1-Methylnaphthalene			1.67	1.430		mg/Kg		86	40 - 140	14	30
2,4,5-Trichlorophenol			1.67	1.402		mg/Kg		84	30 - 130	12	30
2,4,6-Trichlorophenol			1.67	1.479		mg/Kg		89	30 - 130	12	30
2,4-Dichlorophenol			1.67	1.273		mg/Kg		76	30 - 130	12	30
2,4-Dimethylphenol			1.67	1.333		mg/Kg		80	30 - 130	15	30
2,4-Dinitrophenol			1.67	1.672		mg/Kg		100	30 - 130	9	30
2,4-Dinitrotoluene			1.67	1.537		mg/Kg		92	40 - 140	7	30
2,6-Dinitrotoluene			1.67	1.462		mg/Kg		88	40 - 140	11	30
2-Chloronaphthalene			1.67	1.406		mg/Kg		84	40 - 140	14	30
2-Chlorophenol			1.67	1.370		mg/Kg		82	30 - 130	16	30
2-Methylnaphthalene			1.67	1.446		mg/Kg		87	40 - 140	18	30
2-Methylphenol			1.67	1.486		mg/Kg		89	30 - 130	12	30
2-Nitroaniline			1.67	1.517		mg/Kg		91	40 - 140	14	30
2-Nitrophenol			1.67	1.405		mg/Kg		84	30 - 130	16	30
3 & 4 Methylphenol			1.67	1.478		mg/Kg		89	30 - 130	12	30
3,3'-Dichlorobenzidine			1.67	1.983		mg/Kg		119	40 - 140	1	30
3-Nitroaniline			1.67	1.127		mg/Kg		68	40 - 140	6	30
4,6-Dinitro-2-methylphenol			1.67	0.7785		mg/Kg		47	30 - 130	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20520/3-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	1.67	1.482		mg/Kg		89	40 - 140	11	30
4-Chloro-3-methylphenol	1.67	1.454		mg/Kg		87	30 - 130	13	30
4-Chloroaniline	1.67	0.9679		mg/Kg		58	40 - 140	16	30
4-Chlorophenyl phenyl ether	1.67	1.380		mg/Kg		83	40 - 140	12	30
4-Nitroaniline	1.67	1.510		mg/Kg		91	40 - 140	6	30
4-Nitrophenol	1.67	1.387		mg/Kg		83	30 - 130	6	30
Acenaphthene	1.67	1.348		mg/Kg		81	40 - 140	13	30
Acenaphthylene	1.67	1.373		mg/Kg		82	40 - 140	15	30
Acetophenone	1.67	1.466		mg/Kg		88	40 - 140	12	30
Aniline	1.67	1.199		mg/Kg		72	40 - 140	15	30
Anthracene	1.67	1.768		mg/Kg		106	40 - 140	10	30
Azobenzene/Diphenyldiazene	1.67	1.465		mg/Kg		88	40 - 140	13	30
Benzidine	1.67	0.8631		mg/Kg		52	40 - 140	11	30
Benzo[a]anthracene	1.67	1.702		mg/Kg		102	40 - 140	3	30
Benzo[a]pyrene	1.67	1.544		mg/Kg		93	40 - 140	6	30
Benzo[b]fluoranthene	1.67	1.800		mg/Kg		108	40 - 140	13	30
Benzo[g,h,i]perylene	1.67	1.565		mg/Kg		94	40 - 140	5	30
Benzo[k]fluoranthene	1.67	1.399		mg/Kg		84	40 - 140	4	30
Benzoic acid	1.67	0.5512		mg/Kg		33	30 - 130	11	30
Benzyl alcohol	1.67	1.317		mg/Kg		79	40 - 140	16	30
Bis(2-chloroethoxy)methane	1.67	1.332		mg/Kg		80	40 - 140	18	30
Bis(2-chloroethyl)ether	1.67	1.349		mg/Kg		81	40 - 140	14	30
bis (2-chloroisopropyl) ether	1.67	1.268		mg/Kg		76	40 - 140	13	30
Bis(2-ethylhexyl) phthalate	1.67	1.775		mg/Kg		107	40 - 140	5	30
Butyl benzyl phthalate	1.67	1.685		mg/Kg		101	40 - 140	4	30
Carbazole	1.67	1.667		mg/Kg		100	40 - 140	8	30
Chrysene	1.67	1.708		mg/Kg		102	40 - 140	5	30
Dibenz(a,h)anthracene	1.67	1.479		mg/Kg		89	40 - 140	3	30
Dibenzofuran	1.67	1.480		mg/Kg		89	40 - 140	16	30
Diethyl phthalate	1.67	1.489		mg/Kg		89	40 - 140	11	30
Dimethyl phthalate	1.67	1.454		mg/Kg		87	40 - 140	13	30
Di-n-butyl phthalate	1.67	1.867		mg/Kg		112	40 - 140	7	30
Di-n-octyl phthalate	1.67	1.779		mg/Kg		107	40 - 140	4	30
Fluoranthene	1.67	1.721		mg/Kg		103	40 - 140	7	30
Fluorene	1.67	1.327		mg/Kg		80	40 - 140	12	30
Hexachlorobenzene	1.67	1.479		mg/Kg		89	40 - 140	9	30
Hexachlorobutadiene	1.67	1.127		mg/Kg		68	40 - 140	16	30
Hexachlorocyclopentadiene	1.67	1.303		mg/Kg		78	40 - 140	13	30
Hexachloroethane	1.67	1.289		mg/Kg		77	40 - 140	15	30
Indeno[1,2,3-cd]pyrene	1.67	1.439		mg/Kg		86	40 - 140	4	30
Isophorone	1.67	1.152		mg/Kg		69	40 - 140	16	30
Naphthalene	1.67	1.368		mg/Kg		82	40 - 140	18	30
Nitrobenzene	1.67	1.453		mg/Kg		87	40 - 140	17	30
N-Nitrosodimethylamine	1.67	1.172		mg/Kg		70	40 - 140	2	30
N-Nitrosodi-n-propylamine	1.67	1.462		mg/Kg		88	40 - 140	14	30
N-Nitrosodiphenylamine	1.67	1.598		mg/Kg		96	40 - 140	9	30
Pentachloronitrobenzene	1.67	1.185		mg/Kg		71	40 - 140	9	30
Pentachlorophenol	1.67	1.078		mg/Kg		65	30 - 130	12	30
Phenanthrene	1.67	1.578		mg/Kg		95	40 - 140	10	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20520/3-A
Matrix: Solid
Analysis Batch: 20503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol			1.67	1.496		mg/Kg		90	40 - 140	15	30
Pyrene			1.67	1.727		mg/Kg		104	40 - 140	4	30
Pyridine			1.67	0.9556		mg/Kg		57	40 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*
Phenol-d5 (Surr)	*88*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.86	1.228		mg/Kg	☼	66	40 - 140
1,2,4-Trichlorobenzene	ND		1.86	1.546		mg/Kg	☼	83	40 - 140
1,2-Dichlorobenzene	ND		1.86	1.422		mg/Kg	☼	76	40 - 140
1,3-Dichlorobenzene	ND		1.86	1.456		mg/Kg	☼	78	40 - 140
1,4-Dichlorobenzene	ND		1.86	1.428		mg/Kg	☼	77	40 - 140
1-Methylnaphthalene	ND		1.86	1.754		mg/Kg	☼	94	40 - 140
2,4,5-Trichlorophenol	ND		1.86	1.632		mg/Kg	☼	88	30 - 130
2,4,6-Trichlorophenol	ND		1.86	1.669		mg/Kg	☼	90	30 - 130
2,4-Dichlorophenol	ND		1.86	1.424		mg/Kg	☼	76	30 - 130
2,4-Dimethylphenol	ND		1.86	1.453		mg/Kg	☼	78	30 - 130
2,4-Dinitrophenol	ND		1.86	1.837		mg/Kg	☼	99	30 - 130
2,4-Dinitrotoluene	ND		1.86	1.717		mg/Kg	☼	92	40 - 140
2,6-Dinitrotoluene	ND		1.86	1.597		mg/Kg	☼	86	40 - 140
2-Chloronaphthalene	ND		1.86	1.648		mg/Kg	☼	89	40 - 140
2-Chlorophenol	ND		1.86	1.486		mg/Kg	☼	80	30 - 130
2-Methylnaphthalene	ND		1.86	1.764		mg/Kg	☼	95	40 - 140
2-Methylphenol	ND		1.86	1.483		mg/Kg	☼	80	30 - 130
2-Nitroaniline	ND		1.86	1.740		mg/Kg	☼	93	40 - 140
2-Nitrophenol	ND		1.86	1.516		mg/Kg	☼	81	30 - 130
3 & 4 Methylphenol	ND		1.86	1.396		mg/Kg	☼	75	30 - 130
3,3'-Dichlorobenzidine	ND		1.86	1.893		mg/Kg	☼	102	40 - 140
3-Nitroaniline	ND		1.86	1.082		mg/Kg	☼	58	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.86	1.169		mg/Kg	☼	63	30 - 130
4-Bromophenyl phenyl ether	ND		1.86	1.739		mg/Kg	☼	93	40 - 140
4-Chloro-3-methylphenol	ND		1.86	1.651		mg/Kg	☼	89	30 - 130
4-Chloroaniline	ND		1.86	0.7808		mg/Kg	☼	42	40 - 140
4-Chlorophenyl phenyl ether	ND		1.86	1.570		mg/Kg	☼	84	40 - 140
4-Nitroaniline	ND		1.86	1.508		mg/Kg	☼	81	40 - 140
4-Nitrophenol	ND		1.86	1.392		mg/Kg	☼	75	30 - 130
Acenaphthene	ND		1.86	1.582		mg/Kg	☼	85	40 - 140
Acenaphthylene	ND		1.86	1.635		mg/Kg	☼	88	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	ND		1.86	1.582		mg/Kg	☼	85	40 - 140
Aniline	ND		1.86	1.022		mg/Kg	☼	55	40 - 140
Anthracene	ND		1.86	2.063		mg/Kg	☼	111	40 - 140
Azobenzene/Diphenyldiazene	ND		1.86	1.839		mg/Kg	☼	99	40 - 140
Benzidine	ND	F1	1.86	ND	F1	mg/Kg	☼	0	40 - 140
Benzo[a]anthracene	ND		1.86	1.843		mg/Kg	☼	99	40 - 140
Benzo[a]pyrene	ND		1.86	1.759		mg/Kg	☼	94	40 - 140
Benzo[b]fluoranthene	ND		1.86	1.881		mg/Kg	☼	101	40 - 140
Benzo[g,h,i]perylene	ND		1.86	1.882		mg/Kg	☼	101	40 - 140
Benzo[k]fluoranthene	ND		1.86	1.889		mg/Kg	☼	101	40 - 140
Benzoic acid	ND		1.86	1.027		mg/Kg	☼	55	30 - 130
Benzyl alcohol	ND		1.86	1.332		mg/Kg	☼	72	40 - 140
Bis(2-chloroethoxy)methane	ND		1.86	1.464		mg/Kg	☼	79	40 - 140
Bis(2-chloroethyl)ether	ND		1.86	1.497		mg/Kg	☼	80	40 - 140
bis (2-chloroisopropyl) ether	ND		1.86	1.374		mg/Kg	☼	74	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.86	1.978		mg/Kg	☼	106	40 - 140
Butyl benzyl phthalate	ND		1.86	1.875		mg/Kg	☼	101	40 - 140
Carbazole	ND		1.86	1.825		mg/Kg	☼	98	40 - 140
Chrysene	ND		1.86	1.912		mg/Kg	☼	103	40 - 140
Dibenz(a,h)anthracene	ND		1.86	1.743		mg/Kg	☼	94	40 - 140
Dibenzofuran	ND		1.86	1.650		mg/Kg	☼	89	40 - 140
Diethyl phthalate	ND		1.86	1.736		mg/Kg	☼	93	40 - 140
Dimethyl phthalate	ND		1.86	1.677		mg/Kg	☼	90	40 - 140
Di-n-butyl phthalate	ND		1.86	2.028		mg/Kg	☼	109	40 - 140
Di-n-octyl phthalate	ND		1.86	2.064		mg/Kg	☼	111	40 - 140
Fluoranthene	ND		1.86	1.946		mg/Kg	☼	104	40 - 140
Fluorene	ND		1.86	1.559		mg/Kg	☼	84	40 - 140
Hexachlorobenzene	ND		1.86	1.740		mg/Kg	☼	93	40 - 140
Hexachlorobutadiene	ND		1.86	1.293		mg/Kg	☼	69	40 - 140
Hexachlorocyclopentadiene	ND		1.86	0.9207		mg/Kg	☼	49	40 - 140
Hexachloroethane	ND		1.86	1.420		mg/Kg	☼	76	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.86	1.657		mg/Kg	☼	89	40 - 140
Isophorone	ND		1.86	1.231		mg/Kg	☼	66	40 - 140
Naphthalene	ND		1.86	1.531		mg/Kg	☼	82	40 - 140
Nitrobenzene	ND		1.86	1.607		mg/Kg	☼	86	40 - 140
N-Nitrosodimethylamine	ND		1.86	1.381		mg/Kg	☼	74	40 - 140
N-Nitrosodi-n-propylamine	ND		1.86	1.610		mg/Kg	☼	86	40 - 140
N-Nitrosodiphenylamine	ND		1.86	1.892		mg/Kg	☼	102	40 - 140
Pentachloronitrobenzene	ND		1.86	1.165		mg/Kg	☼	63	40 - 140
Pentachlorophenol	ND		1.86	1.462		mg/Kg	☼	79	30 - 130
Phenanthrene	ND		1.86	1.794		mg/Kg	☼	96	40 - 140
Phenol	ND		1.86	1.495		mg/Kg	☼	80	40 - 140
Pyrene	ND		1.86	2.007		mg/Kg	☼	108	40 - 140
Pyridine	ND		1.86	1.384		mg/Kg	☼	74	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*
2-Fluorophenol (Surr)	*86*		*15 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*
Phenol-d5 (Surr)	*83*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*92*		*15 - 110*
Terphenyl-d14	*88*		*30 - 130*

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.82	1.134		mg/Kg	☼	62	40 - 140	8	30
1,2,4-Trichlorobenzene	ND		1.82	1.412		mg/Kg	☼	77	40 - 140	9	30
1,2-Dichlorobenzene	ND		1.82	1.308		mg/Kg	☼	72	40 - 140	8	30
1,3-Dichlorobenzene	ND		1.82	1.336		mg/Kg	☼	73	40 - 140	9	30
1,4-Dichlorobenzene	ND		1.82	1.319		mg/Kg	☼	72	40 - 140	8	30
1-Methylnaphthalene	ND		1.82	1.581		mg/Kg	☼	87	40 - 140	10	30
2,4,5-Trichlorophenol	ND		1.82	1.533		mg/Kg	☼	84	30 - 130	6	30
2,4,6-Trichlorophenol	ND		1.82	1.551		mg/Kg	☼	85	30 - 130	7	30
2,4-Dichlorophenol	ND		1.82	1.219		mg/Kg	☼	67	30 - 130	15	30
2,4-Dimethylphenol	ND		1.82	1.290		mg/Kg	☼	71	30 - 130	12	30
2,4-Dinitrophenol	ND		1.82	1.882		mg/Kg	☼	103	30 - 130	2	30
2,4-Dinitrotoluene	ND		1.82	1.671		mg/Kg	☼	92	40 - 140	3	30
2,6-Dinitrotoluene	ND		1.82	1.488		mg/Kg	☼	82	40 - 140	7	30
2-Chloronaphthalene	ND		1.82	1.530		mg/Kg	☼	84	40 - 140	7	30
2-Chlorophenol	ND		1.82	1.333		mg/Kg	☼	73	30 - 130	11	30
2-Methylnaphthalene	ND		1.82	1.583		mg/Kg	☼	87	40 - 140	11	30
2-Methylphenol	ND		1.82	1.311		mg/Kg	☼	72	30 - 130	12	30
2-Nitroaniline	ND		1.82	1.614		mg/Kg	☼	89	40 - 140	7	30
2-Nitrophenol	ND		1.82	1.377		mg/Kg	☼	76	30 - 130	10	30
3 & 4 Methylphenol	ND		1.82	1.237		mg/Kg	☼	68	30 - 130	12	30
3,3'-Dichlorobenzidine	ND		1.82	2.187		mg/Kg	☼	120	40 - 140	14	30
3-Nitroaniline	ND		1.82	1.092		mg/Kg	☼	60	40 - 140	1	30
4,6-Dinitro-2-methylphenol	ND		1.82	1.150		mg/Kg	☼	63	30 - 130	2	30
4-Bromophenyl phenyl ether	ND		1.82	1.574		mg/Kg	☼	86	40 - 140	10	30
4-Chloro-3-methylphenol	ND		1.82	1.482		mg/Kg	☼	81	30 - 130	11	30
4-Chloroaniline	ND		1.82	0.7470		mg/Kg	☼	41	40 - 140	4	30
4-Chlorophenyl phenyl ether	ND		1.82	1.477		mg/Kg	☼	81	40 - 140	6	30
4-Nitroaniline	ND		1.82	1.488		mg/Kg	☼	82	40 - 140	1	30
4-Nitrophenol	ND		1.82	1.351		mg/Kg	☼	74	30 - 130	3	30
Acenaphthene	ND		1.82	1.468		mg/Kg	☼	81	40 - 140	7	30
Acenaphthylene	ND		1.82	1.501		mg/Kg	☼	82	40 - 140	9	30
Acetophenone	ND		1.82	1.433		mg/Kg	☼	79	40 - 140	10	30
Aniline	ND		1.82	0.7973		mg/Kg	☼	44	40 - 140	25	30
Anthracene	ND		1.82	1.949		mg/Kg	☼	107	40 - 140	6	30
Azobenzene/Diphenyldiazene	ND		1.82	1.709		mg/Kg	☼	94	40 - 140	7	30
Benzidine	ND	F1	1.82	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Benzo[a]anthracene	ND		1.82	1.852		mg/Kg	☼	102	40 - 140	0	30
Benzo[a]pyrene	ND		1.82	1.783		mg/Kg	☼	98	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene	ND		1.82	2.188		mg/Kg	☼	120	40 - 140	15	30
Benzo[g,h,i]perylene	ND		1.82	1.765		mg/Kg	☼	97	40 - 140	6	30
Benzo[k]fluoranthene	ND		1.82	1.559		mg/Kg	☼	86	40 - 140	19	30
Benzoic acid	ND		1.82	1.051		mg/Kg	☼	58	30 - 130	2	30
Benzyl alcohol	ND		1.82	1.152		mg/Kg	☼	63	40 - 140	15	30
Bis(2-chloroethoxy)methane	ND		1.82	1.281		mg/Kg	☼	70	40 - 140	13	30
Bis(2-chloroethyl)ether	ND		1.82	1.378		mg/Kg	☼	76	40 - 140	8	30
bis (2-chloroisopropyl) ether	ND		1.82	1.231		mg/Kg	☼	68	40 - 140	11	30
Bis(2-ethylhexyl) phthalate	ND		1.82	1.978		mg/Kg	☼	109	40 - 140	0	30
Butyl benzyl phthalate	ND		1.82	1.798		mg/Kg	☼	99	40 - 140	4	30
Carbazole	ND		1.82	1.803		mg/Kg	☼	99	40 - 140	1	30
Chrysene	ND		1.82	1.896		mg/Kg	☼	104	40 - 140	1	30
Dibenz(a,h)anthracene	ND		1.82	1.716		mg/Kg	☼	94	40 - 140	2	30
Dibenzofuran	ND		1.82	1.534		mg/Kg	☼	84	40 - 140	7	30
Diethyl phthalate	ND		1.82	1.687		mg/Kg	☼	93	40 - 140	3	30
Dimethyl phthalate	ND		1.82	1.573		mg/Kg	☼	86	40 - 140	6	30
Di-n-butyl phthalate	ND		1.82	2.069		mg/Kg	☼	114	40 - 140	2	30
Di-n-octyl phthalate	ND		1.82	2.107		mg/Kg	☼	116	40 - 140	2	30
Fluoranthene	ND		1.82	1.897		mg/Kg	☼	104	40 - 140	3	30
Fluorene	ND		1.82	1.458		mg/Kg	☼	80	40 - 140	7	30
Hexachlorobenzene	ND		1.82	1.648		mg/Kg	☼	90	40 - 140	5	30
Hexachlorobutadiene	ND		1.82	1.180		mg/Kg	☼	65	40 - 140	9	30
Hexachlorocyclopentadiene	ND		1.82	0.9198		mg/Kg	☼	50	40 - 140	0	30
Hexachloroethane	ND		1.82	1.291		mg/Kg	☼	71	40 - 140	10	30
Indeno[1,2,3-cd]pyrene	ND		1.82	1.625		mg/Kg	☼	89	40 - 140	2	30
Isophorone	ND		1.82	1.122		mg/Kg	☼	62	40 - 140	9	30
Naphthalene	ND		1.82	1.385		mg/Kg	☼	76	40 - 140	10	30
Nitrobenzene	ND		1.82	1.521		mg/Kg	☼	83	40 - 140	5	30
N-Nitrosodimethylamine	ND		1.82	1.376		mg/Kg	☼	76	40 - 140	0	30
N-Nitrosodi-n-propylamine	ND		1.82	1.434		mg/Kg	☼	79	40 - 140	12	30
N-Nitrosodiphenylamine	ND		1.82	1.751		mg/Kg	☼	96	40 - 140	8	30
Pentachloronitrobenzene	ND		1.82	1.236		mg/Kg	☼	68	40 - 140	6	30
Pentachlorophenol	ND		1.82	1.387		mg/Kg	☼	76	30 - 130	5	30
Phenanthrene	ND		1.82	1.747		mg/Kg	☼	96	40 - 140	3	30
Phenol	ND		1.82	1.360		mg/Kg	☼	75	40 - 140	9	30
Pyrene	ND		1.82	1.867		mg/Kg	☼	102	40 - 140	7	30
Pyridine	ND		1.82	1.430		mg/Kg	☼	78	40 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*81*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*75*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*84*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Aniline	ND		0.330	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.167	0.0437	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachlorophenol	0.1786	J	0.330	0.135	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Phenol	ND		0.330	0.0680	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Terphenyl-d14	*79*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.069		mg/Kg		64	40 - 140
1,2,4-Trichlorobenzene	1.67	1.358		mg/Kg		81	40 - 140
1,2-Dichlorobenzene	1.67	1.310		mg/Kg		79	40 - 140
1,3-Dichlorobenzene	1.67	1.311		mg/Kg		79	40 - 140
1,4-Dichlorobenzene	1.67	1.283		mg/Kg		77	40 - 140
1-Methylnaphthalene	1.67	1.449		mg/Kg		87	40 - 140
2,4,5-Trichlorophenol	1.67	1.331		mg/Kg		80	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	1.67	1.454		mg/Kg		87	30 - 130
2,4-Dichlorophenol	1.67	1.322		mg/Kg		79	30 - 130
2,4-Dimethylphenol	1.67	1.334		mg/Kg		80	30 - 130
2,4-Dinitrophenol	1.67	1.806		mg/Kg		108	30 - 130
2,4-Dinitrotoluene	1.67	1.477		mg/Kg		89	40 - 140
2,6-Dinitrotoluene	1.67	1.457		mg/Kg		87	40 - 140
2-Chloronaphthalene	1.67	1.440		mg/Kg		86	40 - 140
2-Chlorophenol	1.67	1.381		mg/Kg		83	30 - 130
2-Methylnaphthalene	1.67	1.470		mg/Kg		88	40 - 140
2-Methylphenol	1.67	1.501		mg/Kg		90	30 - 130
2-Nitroaniline	1.67	1.463		mg/Kg		88	40 - 140
2-Nitrophenol	1.67	1.405		mg/Kg		84	30 - 130
3 & 4 Methylphenol	1.67	1.515		mg/Kg		91	30 - 130
3,3'-Dichlorobenzidine	1.67	1.974		mg/Kg		118	40 - 140
3-Nitroaniline	1.67	1.047		mg/Kg		63	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.8543		mg/Kg		51	30 - 130
4-Bromophenyl phenyl ether	1.67	1.493		mg/Kg		90	40 - 140
4-Chloro-3-methylphenol	1.67	1.486		mg/Kg		89	30 - 130
4-Chloroaniline	1.67	0.7796		mg/Kg		47	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.358		mg/Kg		81	40 - 140
4-Nitroaniline	1.67	1.510		mg/Kg		91	40 - 140
4-Nitrophenol	1.67	1.370		mg/Kg		82	30 - 130
Acenaphthene	1.67	1.376		mg/Kg		83	40 - 140
Acenaphthylene	1.67	1.390		mg/Kg		83	40 - 140
Acetophenone	1.67	1.453		mg/Kg		87	40 - 140
Aniline	1.67	1.116		mg/Kg		67	40 - 140
Anthracene	1.67	1.770		mg/Kg		106	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.593		mg/Kg		96	40 - 140
Benzidine	1.67	1.169		mg/Kg		70	40 - 140
Benzo[a]anthracene	1.67	1.690		mg/Kg		101	40 - 140
Benzo[a]pyrene	1.67	1.554		mg/Kg		93	40 - 140
Benzo[b]fluoranthene	1.67	1.438		mg/Kg		86	40 - 140
Benzo[g,h,i]perylene	1.67	1.634		mg/Kg		98	40 - 140
Benzo[k]fluoranthene	1.67	1.671		mg/Kg		100	40 - 140
Benzoic acid	1.67	0.6923		mg/Kg		42	30 - 130
Benzyl alcohol	1.67	1.316		mg/Kg		79	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.300		mg/Kg		78	40 - 140
Bis(2-chloroethyl)ether	1.67	1.355		mg/Kg		81	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.084		mg/Kg		65	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.752		mg/Kg		105	40 - 140
Butyl benzyl phthalate	1.67	1.664		mg/Kg		100	40 - 140
Carbazole	1.67	1.659		mg/Kg		100	40 - 140
Chrysene	1.67	1.721		mg/Kg		103	40 - 140
Dibenz(a,h)anthracene	1.67	1.512		mg/Kg		91	40 - 140
Dibenzofuran	1.67	1.508		mg/Kg		90	40 - 140
Diethyl phthalate	1.67	1.507		mg/Kg		90	40 - 140
Dimethyl phthalate	1.67	1.468		mg/Kg		88	40 - 140
Di-n-butyl phthalate	1.67	1.805		mg/Kg		108	40 - 140
Di-n-octyl phthalate	1.67	1.763		mg/Kg		106	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoranthene			1.67	1.699		mg/Kg		102	40 - 140		
Fluorene			1.67	1.344		mg/Kg		81	40 - 140		
Hexachlorobenzene			1.67	1.512		mg/Kg		91	40 - 140		
Hexachlorobutadiene			1.67	1.169		mg/Kg		70	40 - 140		
Hexachlorocyclopentadiene			1.67	1.432		mg/Kg		86	40 - 140		
Hexachloroethane			1.67	1.373		mg/Kg		82	40 - 140		
Indeno[1,2,3-cd]pyrene			1.67	1.453		mg/Kg		87	40 - 140		
Isophorone			1.67	1.151		mg/Kg		69	40 - 140		
Naphthalene			1.67	1.388		mg/Kg		83	40 - 140		
Nitrobenzene			1.67	1.475		mg/Kg		88	40 - 140		
N-Nitrosodimethylamine			1.67	1.341		mg/Kg		80	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.495		mg/Kg		90	40 - 140		
N-Nitrosodiphenylamine			1.67	1.573		mg/Kg		94	40 - 140		
Pentachloronitrobenzene			1.67	1.139		mg/Kg		68	40 - 140		
Pentachlorophenol			1.67	1.002		mg/Kg		60	30 - 130		
Phenanthrene			1.67	1.592		mg/Kg		96	40 - 140		
Phenol			1.67	1.528		mg/Kg		92	40 - 140		
Pyrene			1.67	1.726		mg/Kg		104	40 - 140		
Pyridine			1.67	1.093		mg/Kg		66	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*88*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.063		mg/Kg		64	40 - 140	1	30
1,2,4-Trichlorobenzene			1.67	1.322		mg/Kg		79	40 - 140	3	30
1,2-Dichlorobenzene			1.67	1.266		mg/Kg		76	40 - 140	3	30
1,3-Dichlorobenzene			1.67	1.278		mg/Kg		77	40 - 140	3	30
1,4-Dichlorobenzene			1.67	1.265		mg/Kg		76	40 - 140	1	30
1-Methylnaphthalene			1.67	1.447		mg/Kg		87	40 - 140	0	30
2,4,5-Trichlorophenol			1.67	1.329		mg/Kg		80	30 - 130	0	30
2,4,6-Trichlorophenol			1.67	1.456		mg/Kg		87	30 - 130	0	30
2,4-Dichlorophenol			1.67	1.282		mg/Kg		77	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.324		mg/Kg		79	30 - 130	1	30
2,4-Dinitrophenol			1.67	1.780		mg/Kg		107	30 - 130	1	30
2,4-Dinitrotoluene			1.67	1.493		mg/Kg		90	40 - 140	1	30
2,6-Dinitrotoluene			1.67	1.454		mg/Kg		87	40 - 140	0	30
2-Chloronaphthalene			1.67	1.413		mg/Kg		85	40 - 140	2	30
2-Chlorophenol			1.67	1.348		mg/Kg		81	30 - 130	2	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene			1.67	1.442		mg/Kg		87	40 - 140	2	30
2-Methylphenol			1.67	1.469		mg/Kg		88	30 - 130	2	30
2-Nitroaniline			1.67	1.481		mg/Kg		89	40 - 140	1	30
2-Nitrophenol			1.67	1.379		mg/Kg		83	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.445		mg/Kg		87	30 - 130	5	30
3,3'-Dichlorobenzidine			1.67	1.855		mg/Kg		111	40 - 140	6	30
3-Nitroaniline			1.67	0.9972		mg/Kg		60	40 - 140	5	30
4,6-Dinitro-2-methylphenol			1.67	0.9243		mg/Kg		55	30 - 130	8	30
4-Bromophenyl phenyl ether			1.67	1.436		mg/Kg		86	40 - 140	4	30
4-Chloro-3-methylphenol			1.67	1.457		mg/Kg		87	30 - 130	2	30
4-Chloroaniline			1.67	0.7583		mg/Kg		45	40 - 140	3	30
4-Chlorophenyl phenyl ether			1.67	1.359		mg/Kg		82	40 - 140	0	30
4-Nitroaniline			1.67	1.409		mg/Kg		85	40 - 140	7	30
4-Nitrophenol			1.67	1.238		mg/Kg		74	30 - 130	10	30
Acenaphthene			1.67	1.350		mg/Kg		81	40 - 140	2	30
Acenaphthylene			1.67	1.388		mg/Kg		83	40 - 140	0	30
Acetophenone			1.67	1.417		mg/Kg		85	40 - 140	3	30
Aniline			1.67	1.015		mg/Kg		61	40 - 140	9	30
Anthracene			1.67	1.697		mg/Kg		102	40 - 140	4	30
Azobenzene/Diphenyldiazene			1.67	1.578		mg/Kg		95	40 - 140	1	30
Benzidine			1.67	1.298		mg/Kg		78	40 - 140	11	30
Benzo[a]anthracene			1.67	1.622		mg/Kg		97	40 - 140	4	30
Benzo[a]pyrene			1.67	1.491		mg/Kg		89	40 - 140	4	30
Benzo[b]fluoranthene			1.67	1.450		mg/Kg		87	40 - 140	1	30
Benzo[g,h,i]perylene			1.67	1.611		mg/Kg		97	40 - 140	1	30
Benzo[k]fluoranthene			1.67	1.552		mg/Kg		93	40 - 140	7	30
Benzoic acid			1.67	0.7118		mg/Kg		43	30 - 130	3	30
Benzyl alcohol			1.67	1.267		mg/Kg		76	40 - 140	4	30
Bis(2-chloroethoxy)methane			1.67	1.287		mg/Kg		77	40 - 140	1	30
Bis(2-chloroethyl)ether			1.67	1.316		mg/Kg		79	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.249		mg/Kg		75	40 - 140	14	30
Bis(2-ethylhexyl) phthalate			1.67	1.681		mg/Kg		101	40 - 140	4	30
Butyl benzyl phthalate			1.67	1.563		mg/Kg		94	40 - 140	6	30
Carbazole			1.67	1.586		mg/Kg		95	40 - 140	5	30
Chrysene			1.67	1.596		mg/Kg		96	40 - 140	8	30
Dibenz(a,h)anthracene			1.67	1.500		mg/Kg		90	40 - 140	1	30
Dibenzofuran			1.67	1.500		mg/Kg		90	40 - 140	1	30
Diethyl phthalate			1.67	1.459		mg/Kg		88	40 - 140	3	30
Dimethyl phthalate			1.67	1.437		mg/Kg		86	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.725		mg/Kg		104	40 - 140	5	30
Di-n-octyl phthalate			1.67	1.713		mg/Kg		103	40 - 140	3	30
Fluoranthene			1.67	1.612		mg/Kg		97	40 - 140	5	30
Fluorene			1.67	1.340		mg/Kg		80	40 - 140	0	30
Hexachlorobenzene			1.67	1.480		mg/Kg		89	40 - 140	2	30
Hexachlorobutadiene			1.67	1.146		mg/Kg		69	40 - 140	2	30
Hexachlorocyclopentadiene			1.67	1.443		mg/Kg		87	40 - 140	1	30
Hexachloroethane			1.67	1.349		mg/Kg		81	40 - 140	2	30
Indeno[1,2,3-cd]pyrene			1.67	1.447		mg/Kg		87	40 - 140	0	30
Isophorone			1.67	1.140		mg/Kg		68	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			1.67	1.340		mg/Kg		80	40 - 140	3	30
Nitrobenzene			1.67	1.474		mg/Kg		88	40 - 140	0	30
N-Nitrosodimethylamine			1.67	1.347		mg/Kg		81	40 - 140	0	30
N-Nitrosodi-n-propylamine			1.67	1.423		mg/Kg		85	40 - 140	5	30
N-Nitrosodiphenylamine			1.67	1.536		mg/Kg		92	40 - 140	2	30
Pentachloronitrobenzene			1.67	1.099		mg/Kg		66	40 - 140	4	30
Pentachlorophenol			1.67	1.054		mg/Kg		63	30 - 130	5	30
Phenanthrene			1.67	1.519		mg/Kg		91	40 - 140	5	30
Phenol			1.67	1.488		mg/Kg		89	40 - 140	3	30
Pyrene			1.67	1.615		mg/Kg		97	40 - 140	7	30
Pyridine			1.67	1.154		mg/Kg		69	40 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*85*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*76*		*30 - 130*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.97	1.236		mg/Kg	☼	63	40 - 140
1,2,4-Trichlorobenzene	ND		1.97	1.567		mg/Kg	☼	80	40 - 140
1,2-Dichlorobenzene	ND		1.97	1.514		mg/Kg	☼	77	40 - 140
1,3-Dichlorobenzene	ND		1.97	1.494		mg/Kg	☼	76	40 - 140
1,4-Dichlorobenzene	ND		1.97	1.486		mg/Kg	☼	76	40 - 140
1-Methylnaphthalene	ND		1.97	1.705		mg/Kg	☼	87	40 - 140
2,4,5-Trichlorophenol	ND		1.97	1.711		mg/Kg	☼	87	30 - 130
2,4,6-Trichlorophenol	ND		1.97	1.894		mg/Kg	☼	96	30 - 130
2,4-Dichlorophenol	ND		1.97	1.595		mg/Kg	☼	81	30 - 130
2,4-Dimethylphenol	ND		1.97	1.682		mg/Kg	☼	85	30 - 130
2,4-Dinitrophenol	ND		1.97	2.083		mg/Kg	☼	106	30 - 130
2,4-Dinitrotoluene	ND		1.97	1.818		mg/Kg	☼	92	40 - 140
2,6-Dinitrotoluene	ND		1.97	1.752		mg/Kg	☼	89	40 - 140
2-Chloronaphthalene	ND		1.97	1.741		mg/Kg	☼	89	40 - 140
2-Chlorophenol	ND		1.97	1.640		mg/Kg	☼	83	30 - 130
2-Methylnaphthalene	ND		1.97	1.708		mg/Kg	☼	87	40 - 140
2-Methylphenol	ND		1.97	1.814		mg/Kg	☼	92	30 - 130
2-Nitroaniline	ND		1.97	1.824		mg/Kg	☼	93	40 - 140
2-Nitrophenol	ND		1.97	1.603		mg/Kg	☼	81	30 - 130
3 & 4 Methylphenol	ND		1.97	1.831		mg/Kg	☼	93	30 - 130
3,3'-Dichlorobenzidine	ND		1.97	1.779		mg/Kg	☼	90	40 - 140
3-Nitroaniline	ND		1.97	1.050		mg/Kg	☼	53	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.97	1.399		mg/Kg	☼	71	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Bromophenyl phenyl ether	ND		1.97	1.833		mg/Kg	☼	93	40 - 140
4-Chloro-3-methylphenol	ND		1.97	1.840		mg/Kg	☼	94	30 - 130
4-Chloroaniline	ND		1.97	0.8162		mg/Kg	☼	41	40 - 140
4-Chlorophenyl phenyl ether	ND		1.97	1.690		mg/Kg	☼	86	40 - 140
4-Nitroaniline	ND		1.97	1.671		mg/Kg	☼	85	40 - 140
4-Nitrophenol	ND		1.97	1.732		mg/Kg	☼	88	30 - 130
Acenaphthene	ND		1.97	1.664		mg/Kg	☼	85	40 - 140
Acenaphthylene	ND		1.97	1.722		mg/Kg	☼	88	40 - 140
Acetophenone	ND		1.97	1.737		mg/Kg	☼	88	40 - 140
Aniline	ND		1.97	1.083		mg/Kg	☼	55	40 - 140
Anthracene	ND		1.97	2.186		mg/Kg	☼	111	40 - 140
Azobenzene/Diphenyldiazene	ND		1.97	1.994		mg/Kg	☼	101	40 - 140
Benzidine	ND	F1 F2	1.97	0.2783	J F1	mg/Kg	☼	14	40 - 140
Benzo[a]anthracene	ND		1.97	1.962		mg/Kg	☼	100	40 - 140
Benzo[a]pyrene	ND		1.97	1.786		mg/Kg	☼	91	40 - 140
Benzo[b]fluoranthene	ND		1.97	1.863		mg/Kg	☼	95	40 - 140
Benzo[g,h,i]perylene	ND		1.97	1.821		mg/Kg	☼	93	40 - 140
Benzo[k]fluoranthene	ND		1.97	1.834		mg/Kg	☼	93	40 - 140
Benzoic acid	1.35	F1	1.97	1.774	F1	mg/Kg	☼	21	30 - 130
Benzyl alcohol	ND		1.97	1.562		mg/Kg	☼	79	40 - 140
Bis(2-chloroethoxy)methane	ND		1.97	1.530		mg/Kg	☼	78	40 - 140
Bis(2-chloroethyl)ether	ND		1.97	1.633		mg/Kg	☼	83	40 - 140
bis (2-chloroisopropyl) ether	ND		1.97	1.502		mg/Kg	☼	76	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.97	2.076		mg/Kg	☼	106	40 - 140
Butyl benzyl phthalate	ND		1.97	1.874		mg/Kg	☼	95	40 - 140
Carbazole	ND		1.97	1.965		mg/Kg	☼	100	40 - 140
Chrysene	ND		1.97	2.004		mg/Kg	☼	102	40 - 140
Dibenz(a,h)anthracene	ND		1.97	1.766		mg/Kg	☼	90	40 - 140
Dibenzofuran	ND		1.97	1.836		mg/Kg	☼	93	40 - 140
Diethyl phthalate	ND		1.97	1.837		mg/Kg	☼	93	40 - 140
Dimethyl phthalate	ND		1.97	1.879		mg/Kg	☼	95	40 - 140
Di-n-butyl phthalate	ND		1.97	2.291		mg/Kg	☼	116	40 - 140
Di-n-octyl phthalate	ND		1.97	2.040		mg/Kg	☼	104	40 - 140
Fluoranthene	ND		1.97	1.979		mg/Kg	☼	101	40 - 140
Fluorene	ND		1.97	1.679		mg/Kg	☼	85	40 - 140
Hexachlorobenzene	ND		1.97	1.872		mg/Kg	☼	95	40 - 140
Hexachlorobutadiene	ND		1.97	1.311		mg/Kg	☼	67	40 - 140
Hexachlorocyclopentadiene	ND		1.97	1.315		mg/Kg	☼	67	40 - 140
Hexachloroethane	ND		1.97	1.587		mg/Kg	☼	81	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.97	1.665		mg/Kg	☼	85	40 - 140
Isophorone	ND		1.97	1.360		mg/Kg	☼	69	40 - 140
Naphthalene	ND		1.97	1.604		mg/Kg	☼	82	40 - 140
Nitrobenzene	ND		1.97	1.680		mg/Kg	☼	85	40 - 140
N-Nitrosodimethylamine	ND		1.97	1.468		mg/Kg	☼	75	40 - 140
N-Nitrosodi-n-propylamine	ND		1.97	1.776		mg/Kg	☼	90	40 - 140
N-Nitrosodiphenylamine	ND		1.97	1.987		mg/Kg	☼	101	40 - 140
Pentachloronitrobenzene	ND		1.97	1.385		mg/Kg	☼	70	40 - 140
Pentachlorophenol	0.327	J B	1.97	1.715		mg/Kg	☼	71	30 - 130
Phenanthrene	ND		1.97	1.963		mg/Kg	☼	100	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	ND		1.97	1.800		mg/Kg	☼	91	40 - 140
Pyrene	ND		1.97	2.395		mg/Kg	☼	122	40 - 140
Pyridine	ND		1.97	1.469		mg/Kg	☼	75	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*
Phenol-d5 (Surr)	*89*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*91*		*15 - 110*
Terphenyl-d14	*78*		*30 - 130*

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.97	1.165		mg/Kg	☼	59	40 - 140	6	30
1,2,4-Trichlorobenzene	ND		1.97	1.435		mg/Kg	☼	73	40 - 140	9	30
1,2-Dichlorobenzene	ND		1.97	1.355		mg/Kg	☼	69	40 - 140	11	30
1,3-Dichlorobenzene	ND		1.97	1.344		mg/Kg	☼	68	40 - 140	11	30
1,4-Dichlorobenzene	ND		1.97	1.321		mg/Kg	☼	67	40 - 140	12	30
1-Methylnaphthalene	ND		1.97	1.572		mg/Kg	☼	80	40 - 140	8	30
2,4,5-Trichlorophenol	ND		1.97	1.767		mg/Kg	☼	90	30 - 130	3	30
2,4,6-Trichlorophenol	ND		1.97	1.824		mg/Kg	☼	92	30 - 130	4	30
2,4-Dichlorophenol	ND		1.97	1.518		mg/Kg	☼	77	30 - 130	5	30
2,4-Dimethylphenol	ND		1.97	1.536		mg/Kg	☼	78	30 - 130	9	30
2,4-Dinitrophenol	ND		1.97	2.061		mg/Kg	☼	104	30 - 130	1	30
2,4-Dinitrotoluene	ND		1.97	1.866		mg/Kg	☼	95	40 - 140	3	30
2,6-Dinitrotoluene	ND		1.97	1.766		mg/Kg	☼	89	40 - 140	1	30
2-Chloronaphthalene	ND		1.97	1.621		mg/Kg	☼	82	40 - 140	7	30
2-Chlorophenol	ND		1.97	1.451		mg/Kg	☼	74	30 - 130	12	30
2-Methylnaphthalene	ND		1.97	1.555		mg/Kg	☼	79	40 - 140	9	30
2-Methylphenol	ND		1.97	1.683		mg/Kg	☼	85	30 - 130	7	30
2-Nitroaniline	ND		1.97	1.862		mg/Kg	☼	94	40 - 140	2	30
2-Nitrophenol	ND		1.97	1.446		mg/Kg	☼	73	30 - 130	10	30
3 & 4 Methylphenol	ND		1.97	1.686		mg/Kg	☼	85	30 - 130	8	30
3,3'-Dichlorobenzidine	ND		1.97	1.987		mg/Kg	☼	101	40 - 140	11	30
3-Nitroaniline	ND		1.97	1.106		mg/Kg	☼	56	40 - 140	5	30
4,6-Dinitro-2-methylphenol	ND		1.97	1.467		mg/Kg	☼	74	30 - 130	5	30
4-Bromophenyl phenyl ether	ND		1.97	1.913		mg/Kg	☼	97	40 - 140	4	30
4-Chloro-3-methylphenol	ND		1.97	1.804		mg/Kg	☼	91	30 - 130	2	30
4-Chloroaniline	ND		1.97	0.8386		mg/Kg	☼	42	40 - 140	3	30
4-Chlorophenyl phenyl ether	ND		1.97	1.691		mg/Kg	☼	86	40 - 140	0	30
4-Nitroaniline	ND		1.97	1.704		mg/Kg	☼	86	40 - 140	2	30
4-Nitrophenol	ND		1.97	1.783		mg/Kg	☼	90	30 - 130	3	30
Acenaphthene	ND		1.97	1.619		mg/Kg	☼	82	40 - 140	3	30
Acenaphthylene	ND		1.97	1.615		mg/Kg	☼	82	40 - 140	6	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD **Client Sample ID: 2023-SB-05-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20556 **Prep Batch: 20546**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone	ND		1.97	1.566		mg/Kg	☼	79	40 - 140	10	30
Aniline	ND		1.97	0.9754		mg/Kg	☼	49	40 - 140	11	30
Anthracene	ND		1.97	2.252		mg/Kg	☼	114	40 - 140	3	30
Azobenzene/Diphenyldiazene	ND		1.97	2.005		mg/Kg	☼	102	40 - 140	1	30
Benzidine	ND	F1 F2	1.97	0.1505	J F1 F2	mg/Kg	☼	8	40 - 140	60	30
Benzo[a]anthracene	ND		1.97	2.095		mg/Kg	☼	106	40 - 140	7	30
Benzo[a]pyrene	ND		1.97	1.879		mg/Kg	☼	95	40 - 140	5	30
Benzo[b]fluoranthene	ND		1.97	2.342		mg/Kg	☼	119	40 - 140	23	30
Benzo[g,h,i]perylene	ND		1.97	1.959		mg/Kg	☼	99	40 - 140	7	30
Benzo[k]fluoranthene	ND		1.97	1.927		mg/Kg	☼	98	40 - 140	5	30
Benzoic acid	1.35	F1	1.97	1.822	F1	mg/Kg	☼	24	30 - 130	3	30
Benzyl alcohol	ND		1.97	1.460		mg/Kg	☼	74	40 - 140	7	30
Bis(2-chloroethoxy)methane	ND		1.97	1.383		mg/Kg	☼	70	40 - 140	10	30
Bis(2-chloroethyl)ether	ND		1.97	1.420		mg/Kg	☼	72	40 - 140	14	30
bis (2-chloroisopropyl) ether	ND		1.97	1.117		mg/Kg	☼	57	40 - 140	29	30
Bis(2-ethylhexyl) phthalate	ND		1.97	2.287		mg/Kg	☼	116	40 - 140	10	30
Butyl benzyl phthalate	ND		1.97	1.965		mg/Kg	☼	100	40 - 140	5	30
Carbazole	ND		1.97	2.103		mg/Kg	☼	107	40 - 140	7	30
Chrysene	ND		1.97	2.112		mg/Kg	☼	107	40 - 140	5	30
Dibenz(a,h)anthracene	ND		1.97	1.856		mg/Kg	☼	94	40 - 140	5	30
Dibenzofuran	ND		1.97	1.786		mg/Kg	☼	91	40 - 140	3	30
Diethyl phthalate	ND		1.97	1.869		mg/Kg	☼	95	40 - 140	2	30
Dimethyl phthalate	ND		1.97	1.853		mg/Kg	☼	94	40 - 140	1	30
Di-n-butyl phthalate	ND		1.97	2.389		mg/Kg	☼	121	40 - 140	4	30
Di-n-octyl phthalate	ND		1.97	2.514		mg/Kg	☼	127	40 - 140	21	30
Fluoranthene	ND		1.97	2.093		mg/Kg	☼	106	40 - 140	6	30
Fluorene	ND		1.97	1.676		mg/Kg	☼	85	40 - 140	0	30
Hexachlorobenzene	ND		1.97	1.940		mg/Kg	☼	98	40 - 140	4	30
Hexachlorobutadiene	ND		1.97	1.185		mg/Kg	☼	60	40 - 140	10	30
Hexachlorocyclopentadiene	ND		1.97	1.197		mg/Kg	☼	61	40 - 140	9	30
Hexachloroethane	ND		1.97	1.373		mg/Kg	☼	70	40 - 140	14	30
Indeno[1,2,3-cd]pyrene	ND		1.97	1.768		mg/Kg	☼	90	40 - 140	6	30
Isophorone	ND		1.97	1.225		mg/Kg	☼	62	40 - 140	10	30
Naphthalene	ND		1.97	1.454		mg/Kg	☼	74	40 - 140	10	30
Nitrobenzene	ND		1.97	1.462		mg/Kg	☼	74	40 - 140	14	30
N-Nitrosodimethylamine	ND		1.97	1.189		mg/Kg	☼	60	40 - 140	21	30
N-Nitrosodi-n-propylamine	ND		1.97	1.590		mg/Kg	☼	81	40 - 140	11	30
N-Nitrosodiphenylamine	ND		1.97	2.044		mg/Kg	☼	104	40 - 140	3	30
Pentachloronitrobenzene	ND		1.97	1.424		mg/Kg	☼	72	40 - 140	3	30
Pentachlorophenol	0.327	J B	1.97	1.865		mg/Kg	☼	78	30 - 130	8	30
Phenanthrene	ND		1.97	2.059		mg/Kg	☼	104	40 - 140	5	30
Phenol	ND		1.97	1.651		mg/Kg	☼	84	40 - 140	9	30
Pyrene	ND		1.97	2.540		mg/Kg	☼	129	40 - 140	6	30
Pyridine	ND		1.97	1.200		mg/Kg	☼	61	40 - 140	20	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*82*		*15 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20546

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*
Phenol-d5 (Surr)	*80*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*97*		*15 - 110*
Terphenyl-d14	*84*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660655/1-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Naphthalene	0.03864	J	0.0500	0.0340	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/07/23 07:22	03/07/23 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	*118*		*70 - 130*	*03/07/23 07:22*	*03/07/23 08:40*	*1*
a,a,a-Trifluorotoluene (pid)	*116*		*70 - 130*	*03/07/23 07:22*	*03/07/23 08:40*	*1*

Lab Sample ID: LCS 480-660655/2-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.450		mg/Kg		98	70 - 130
Ethylbenzene	2.50	2.478		mg/Kg		99	70 - 130
Methyl tert-butyl ether	2.50	2.303		mg/Kg		92	70 - 130
m,p-Xylene	5.00	4.957		mg/Kg		99	70 - 130
Naphthalene	2.50	2.250		mg/Kg		90	70 - 130
o-Xylene	2.50	2.458		mg/Kg		98	70 - 130
Toluene	2.50	2.477		mg/Kg		99	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.181		mg/Kg		96	70 - 130
C9-C10 Aromatics	2.50	2.453		mg/Kg		98	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.459		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660655/3-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660655

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.425		mg/Kg		97	70 - 130	1	25
Ethylbenzene			2.50	2.451		mg/Kg		98	70 - 130	1	25
Methyl tert-butyl ether			2.50	2.237		mg/Kg		89	70 - 130	3	25
m,p-Xylene			5.00	4.950		mg/Kg		99	70 - 130	0	25
Naphthalene			2.50	2.476		mg/Kg		99	70 - 130	10	25
o-Xylene			2.50	2.452		mg/Kg		98	70 - 130	0	25
Toluene			2.50	2.462		mg/Kg		98	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	6.774		mg/Kg		90	70 - 130	6	25
C9-C10 Aromatics			2.50	2.441		mg/Kg		98	70 - 130	0	25
C9-C12 Aliphatics (unadjusted)			7.50	7.271		mg/Kg		97	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*

Lab Sample ID: MB 480-660799/1-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Naphthalene	0.03962	J	0.0500	0.0340	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/08/23 06:56	03/08/23 08:14	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/08/23 06:56	03/08/23 08:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 08:14*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/08/23 06:56*	*03/08/23 08:14*	*1*

Lab Sample ID: LCS 480-660799/2-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.50	2.467		mg/Kg		99	70 - 130		
Ethylbenzene			2.50	2.446		mg/Kg		98	70 - 130		
Methyl tert-butyl ether			2.50	2.489		mg/Kg		100	70 - 130		
m,p-Xylene			5.00	4.982		mg/Kg		100	70 - 130		
Naphthalene			2.50	2.331		mg/Kg		93	70 - 130		
o-Xylene			2.50	2.464		mg/Kg		99	70 - 130		
Toluene			2.50	2.472		mg/Kg		99	70 - 130		
C5-C8 Aliphatics (unadjusted)			7.50	7.733		mg/Kg		103	70 - 130		

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-660799/2-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C9-C10 Aromatics			2.50	2.444		mg/Kg		98	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	7.264		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*

Lab Sample ID: LCSD 480-660799/3-A
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660799

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.453		mg/Kg		98	70 - 130	1	25
Ethylbenzene			2.50	2.469		mg/Kg		99	70 - 130	1	25
Methyl tert-butyl ether			2.50	2.462		mg/Kg		98	70 - 130	1	25
m,p-Xylene			5.00	4.921		mg/Kg		98	70 - 130	1	25
Naphthalene			2.50	2.259		mg/Kg		90	70 - 130	3	25
o-Xylene			2.50	2.440		mg/Kg		98	70 - 130	1	25
Toluene			2.50	2.459		mg/Kg		98	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	7.656		mg/Kg		102	70 - 130	1	25
C9-C10 Aromatics			2.50	2.397		mg/Kg		96	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.156		mg/Kg		95	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 660799

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		2.34	2.347		mg/Kg	☼	100	70 - 130		
Ethylbenzene	ND		2.34	2.330		mg/Kg	☼	100	70 - 130		
Methyl tert-butyl ether	ND		2.34	2.485		mg/Kg	☼	106	70 - 130		
m,p-Xylene	ND		4.68	4.700		mg/Kg	☼	101	70 - 130		
Naphthalene	0.0583	J B	2.34	2.098		mg/Kg	☼	87	70 - 130		
o-Xylene	ND		2.34	2.340		mg/Kg	☼	100	70 - 130		
Toluene	ND		2.34	2.358		mg/Kg	☼	101	70 - 130		
C5-C8 Aliphatics (unadjusted)	ND		7.01	7.210		mg/Kg	☼	103	70 - 130		
C9-C10 Aromatics	ND		2.34	2.303		mg/Kg	☼	98	70 - 130		
C9-C12 Aliphatics (unadjusted)	ND		7.01	6.907		mg/Kg	☼	98	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 660808

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 660799

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.48	2.503		mg/Kg	☼	101	70 - 130	6	50
Ethylbenzene	ND		2.48	2.463		mg/Kg	☼	99	70 - 130	6	50
Methyl tert-butyl ether	ND		2.48	2.583		mg/Kg	☼	104	70 - 130	4	50
m,p-Xylene	ND		4.96	5.028		mg/Kg	☼	101	70 - 130	7	50
Naphthalene	0.0583	J B	2.48	2.202		mg/Kg	☼	87	70 - 130	5	50
o-Xylene	ND		2.48	2.477		mg/Kg	☼	100	70 - 130	6	50
Toluene	ND		2.48	2.500		mg/Kg	☼	101	70 - 130	6	50
C5-C8 Aliphatics (unadjusted)	ND		7.43	7.570		mg/Kg	☼	102	70 - 130	5	50
C9-C10 Aromatics	ND		2.48	2.450		mg/Kg	☼	99	70 - 130	6	50
C9-C12 Aliphatics (unadjusted)	ND		7.43	7.382		mg/Kg	☼	99	70 - 130	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Lab Sample ID: MB 480-660942/1-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Naphthalene	0.03635	J	0.0500	0.0340	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/09/23 07:17	03/09/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*115*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*
a,a,a-Trifluorotoluene (pid)	*114*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*

Lab Sample ID: LCS 480-660942/2-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.477		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.462		mg/Kg		98	70 - 130
Methyl tert-butyl ether	2.50	2.412		mg/Kg		96	70 - 130
m,p-Xylene	5.00	4.982		mg/Kg		100	70 - 130
Naphthalene	2.50	2.249		mg/Kg		90	70 - 130
o-Xylene	2.50	2.465		mg/Kg		99	70 - 130
Toluene	2.50	2.480		mg/Kg		99	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.658		mg/Kg		102	70 - 130

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-660942/2-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660942

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C9-C10 Aromatics			2.50	2.460		mg/Kg		98	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	7.320		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Lab Sample ID: LCSD 480-660942/3-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660942

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene			2.50	2.472		mg/Kg		99	70 - 130	0	25
Methyl tert-butyl ether			2.50	2.445		mg/Kg		98	70 - 130	1	25
m,p-Xylene			5.00	4.933		mg/Kg		99	70 - 130	1	25
Naphthalene			2.50	2.324		mg/Kg		93	70 - 130	3	25
o-Xylene			2.50	2.451		mg/Kg		98	70 - 130	1	25
Toluene			2.50	2.465		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	7.534		mg/Kg		100	70 - 130	2	25
C9-C10 Aromatics			2.50	2.414		mg/Kg		97	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.204		mg/Kg		96	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		2.59	2.565		mg/Kg	☼	99	70 - 130		
Ethylbenzene	ND		2.59	2.551		mg/Kg	☼	99	70 - 130		
Methyl tert-butyl ether	ND		2.59	2.567		mg/Kg	☼	99	70 - 130		
m,p-Xylene	ND		5.18	5.199		mg/Kg	☼	100	70 - 130		
Naphthalene	0.0380	J B	2.59	2.252		mg/Kg	☼	86	70 - 130		
o-Xylene	ND		2.59	2.566		mg/Kg	☼	99	70 - 130		
Toluene	ND		2.59	2.580		mg/Kg	☼	100	70 - 130		
C5-C8 Aliphatics (unadjusted)	ND		7.76	8.037		mg/Kg	☼	104	70 - 130		
C9-C10 Aromatics	ND		2.59	2.597		mg/Kg	☼	100	70 - 130		
C9-C12 Aliphatics (unadjusted)	ND		7.76	7.928		mg/Kg	☼	102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*102*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.80	2.778		mg/Kg	☼	99	70 - 130	8	50
Ethylbenzene	ND		2.80	2.774		mg/Kg	☼	99	70 - 130	8	50
Methyl tert-butyl ether	ND		2.80	2.811		mg/Kg	☼	100	70 - 130	9	50
m,p-Xylene	ND		5.60	5.596		mg/Kg	☼	100	70 - 130	7	50
Naphthalene	0.0380	J B	2.80	2.452		mg/Kg	☼	86	70 - 130	9	50
o-Xylene	ND		2.80	2.771		mg/Kg	☼	99	70 - 130	8	50
Toluene	ND		2.80	2.800		mg/Kg	☼	100	70 - 130	8	50
C5-C8 Aliphatics (unadjusted)	ND		8.40	8.741		mg/Kg	☼	104	70 - 130	8	50
C9-C10 Aromatics	ND		2.80	2.779		mg/Kg	☼	99	70 - 130	7	50
C9-C12 Aliphatics (unadjusted)	ND		8.40	8.517		mg/Kg	☼	101	70 - 130	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*102*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20414/1-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:26	03/11/23 00:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
DCB Decachlorobiphenyl (Surr)	*125*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*

Lab Sample ID: LCS 620-20414/2-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.1563		mg/Kg		94	40 - 140
PCB-1016	0.167	0.1575		mg/Kg		94	40 - 140
PCB-1260	0.167	0.1889		mg/Kg		113	40 - 140
PCB-1260	0.167	0.1772		mg/Kg		106	40 - 140

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCS 620-20414/2-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20414

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*30 - 150*
Tetrachloro-m-xylene	*79*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*106*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*114*		*30 - 150*

Lab Sample ID: LCSD 620-20414/3-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20414

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1794		mg/Kg		108	40 - 140	14	30
PCB-1016			0.167	0.1787		mg/Kg		107	40 - 140	13	30
PCB-1260			0.167	0.2095		mg/Kg		126	40 - 140	10	30
PCB-1260			0.167	0.1942		mg/Kg		117	40 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*30 - 150*
Tetrachloro-m-xylene	*94*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*123*		*30 - 150*

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20414

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND	F2	0.190	0.1224		mg/Kg	☼	64	40 - 140
PCB-1260	ND	F2	0.190	0.1496		mg/Kg	☼	79	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*30 - 150*
Tetrachloro-m-xylene	*59*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20414

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND	F2	0.188	0.2132	F2	mg/Kg	☼	113	40 - 140	54	30
PCB-1260	ND	F2	0.188	0.2456	F2	mg/Kg	☼	131	40 - 140	49	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*30 - 150*
Tetrachloro-m-xylene	*106*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 20414

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*123*		*30 - 150*

Lab Sample ID: MB 620-20415/1-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:27	03/11/23 09:19	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:27	03/11/23 09:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/09/23 15:27*	*03/11/23 09:19*	*1*

Lab Sample ID: LCS 620-20415/2-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20415

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1489		mg/Kg		89	40 - 140		
PCB-1016			0.167	0.1633		mg/Kg		98	40 - 140		
PCB-1260			0.167	0.1404		mg/Kg		84	40 - 140		
PCB-1260			0.167	0.1495		mg/Kg		90	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*30 - 150*
Tetrachloro-m-xylene	*67*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*

Lab Sample ID: LCSD 620-20415/3-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20415

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1699		mg/Kg		102	40 - 140	13	30
PCB-1016			0.167	0.1781		mg/Kg		107	40 - 140	9	30
PCB-1260			0.167	0.1801		mg/Kg		108	40 - 140	25	30
PCB-1260			0.167	0.1829		mg/Kg		110	40 - 140	20	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	86		30 - 150
Tetrachloro-m-xylene	81		30 - 150
DCB Decachlorobiphenyl (Surr)	103		30 - 150
DCB Decachlorobiphenyl (Surr)	94		30 - 150

Lab Sample ID: MB 620-20416/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20438 — **Prep Batch: 20416**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:30	03/11/23 10:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		30 - 150	03/09/23 15:30	03/11/23 10:11	1
Tetrachloro-m-xylene	59		30 - 150	03/09/23 15:30	03/11/23 10:11	1
DCB Decachlorobiphenyl (Surr)	60		30 - 150	03/09/23 15:30	03/11/23 10:11	1
DCB Decachlorobiphenyl (Surr)	58		30 - 150	03/09/23 15:30	03/11/23 10:11	1

Lab Sample ID: LCS 620-20416/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20438 — **Prep Batch: 20416**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1627		mg/Kg		98	40 - 140		
PCB-1016			0.167	0.1689		mg/Kg		101	40 - 140		
PCB-1260			0.167	0.1706		mg/Kg		102	40 - 140		
PCB-1260			0.167	0.1685		mg/Kg		101	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	81		30 - 150
Tetrachloro-m-xylene	77		30 - 150
DCB Decachlorobiphenyl (Surr)	95		30 - 150
DCB Decachlorobiphenyl (Surr)	88		30 - 150

Lab Sample ID: LCSD 620-20416/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20438 — **Prep Batch: 20416**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1920		mg/Kg		115	40 - 140	17	30
PCB-1016			0.167	0.1877		mg/Kg		113	40 - 140	11	30
PCB-1260			0.167	0.1752		mg/Kg		105	40 - 140	3	30
PCB-1260			0.167	0.1725		mg/Kg		103	40 - 140	2	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	90		30 - 150
Tetrachloro-m-xylene	82		30 - 150
DCB Decachlorobiphenyl (Surr)	101		30 - 150
DCB Decachlorobiphenyl (Surr)	92		30 - 150

Lab Sample ID: MB 620-20535/1-A
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/14/23 16:24	03/15/23 12:42	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/14/23 16:24	03/15/23 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		30 - 150	03/14/23 16:24	03/15/23 12:42	1
Tetrachloro-m-xylene	109		30 - 150	03/14/23 16:24	03/15/23 12:42	1
DCB Decachlorobiphenyl (Surr)	132		30 - 150	03/14/23 16:24	03/15/23 12:42	1
DCB Decachlorobiphenyl (Surr)	122		30 - 150	03/14/23 16:24	03/15/23 12:42	1

Lab Sample ID: LCS 620-20535/2-A
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.1697		mg/Kg		102	40 - 140
PCB-1016	0.167	0.1641		mg/Kg		98	40 - 140
PCB-1260	0.167	0.1846		mg/Kg		111	40 - 140
PCB-1260	0.167	0.1757		mg/Kg		105	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	107		30 - 150
Tetrachloro-m-xylene	105		30 - 150
DCB Decachlorobiphenyl (Surr)	112		30 - 150
DCB Decachlorobiphenyl (Surr)	102		30 - 150

Lab Sample ID: LCSD 620-20535/3-A
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.167	0.1900		mg/Kg		114	40 - 140	11	30
PCB-1016	0.167	0.1742		mg/Kg		105	40 - 140	6	30
PCB-1260	0.167	0.2008		mg/Kg		120	40 - 140	8	30
PCB-1260	0.167	0.1857		mg/Kg		111	40 - 140	6	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	*111*		*30 - 150*
Tetrachloro-m-xylene	*106*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*111*		*30 - 150*

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.170	0.1782		mg/Kg	☼	105	40 - 140
PCB-1260	ND		0.170	0.2024		mg/Kg	☼	119	40 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*99*		*30 - 150*
Tetrachloro-m-xylene	*100*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*108*		*30 - 150*

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 20557

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 20535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.189	0.1744		mg/Kg	☼	92	40 - 140	2	30
PCB-1260	ND		0.189	0.2126		mg/Kg	☼	112	40 - 140	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*90*		*30 - 150*
Tetrachloro-m-xylene	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-351126/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351126/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351126

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
DONA	ND		3.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 18:02	03/16/23 02:17	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*90*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
M2-8:2 FTS	*100*		*15 - 200*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
M2-6:2 FTS	*109*		*10 - 200*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C5 PFHxA	*106*		*10 - 174*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C4 PFHpA	*108*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C8 PFOA	*113*		*26 - 159*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C9 PFNA	*111*		*26 - 165*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C7 PFUnA	*114*		*12 - 173*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C3 PFBS	*112*		*27 - 179*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C8 PFOS	*109*		*41 - 154*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d3-NMeFOSAA	*88*		*10 - 178*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d5-NEtFOSAA	*98*		*10 - 193*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C4 PFBA	*106*		*28 - 153*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
13C5 PFPeA	*97*		*24 - 161*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d7-N-MeFOSE-M	*99*		*10 - 179*	*03/07/23 18:02*	*03/16/23 02:17*	*1*
d3-NMePFOSA	*88*		*10 - 175*	*03/07/23 18:02*	*03/16/23 02:17*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351126/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351126

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	103		10 - 185	03/07/23 18:02	03/16/23 02:17	1
d5-NEtPFOSA	90		10 - 180	03/07/23 18:02	03/16/23 02:17	1
13C3 HFPO-DA	94		10 - 169	03/07/23 18:02	03/16/23 02:17	1

Lab Sample ID: LCS 410-351126/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.15		ug/Kg		85	59 - 132
Perfluoroheptanoic acid	25.0	20.63		ug/Kg		83	59 - 137
Perfluorooctanoic acid	25.0	20.36		ug/Kg		81	59 - 131
Perfluorononanoic acid	25.0	22.14		ug/Kg		89	61 - 134
Perfluorodecanoic acid	25.0	21.86		ug/Kg		87	56 - 133
Perfluorotridecanoic acid	25.0	22.59		ug/Kg		90	53 - 143
Perfluorotetradecanoic acid	25.0	21.25		ug/Kg		85	62 - 134
Perfluorobutanesulfonic acid	22.1	21.36		ug/Kg		97	54 - 130
Perfluorohexanesulfonic acid	22.8	19.71		ug/Kg		86	59 - 129
Perfluorooctanesulfonic acid	23.1	19.94		ug/Kg		86	61 - 126
NEtFOSAA	25.0	23.78		ug/Kg		95	57 - 127
NMeFOSAA	25.0	24.16		ug/Kg		97	60 - 134
10:2 FTS	24.1	20.98		ug/Kg		87	46 - 143
Perfluoropentanesulfonic acid	23.5	18.99		ug/Kg		81	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.98		ug/Kg		84	59 - 132
Perfluorononanesulfonic acid	24.0	20.11		ug/Kg		84	60 - 132
Perfluorodecanesulfonic acid	24.1	20.43		ug/Kg		85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.33		ug/Kg		80	38 - 145
Perfluorooctanesulfonamide	25.0	22.94		ug/Kg		92	47 - 149
Perfluorohexadecanoic acid	25.0	14.65		ug/Kg		59	38 - 147
Perfluorooctadecanoic acid	25.0	16.99		ug/Kg		68	16 - 160
Perfluorobutanoic acid	25.0	19.02		ug/Kg		76	60 - 128
Perfluoropentanoic acid	25.0	21.73		ug/Kg		87	58 - 134
NMeFOSE	25.0	20.63		ug/Kg		83	60 - 130
NMeFOSA	25.0	21.44		ug/Kg		86	60 - 129
NEtFOSE	25.0	21.02		ug/Kg		84	60 - 126
NEtFOSA	25.0	22.99		ug/Kg		92	60 - 123
HFPODA	25.0	20.94		ug/Kg		84	49 - 135
DONA	23.6	19.42		ug/Kg		82	57 - 137
9Cl-PF3ONS	23.3	19.63		ug/Kg		84	62 - 130
11Cl-PF3OUdS	23.3	18.89		ug/Kg		81	55 - 135
Perfluorododecanoic acid	25.0	21.29		ug/Kg		85	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.38		ug/Kg		87	58 - 131
Perfluoroundecanoic acid	25.0	22.25		ug/Kg		89	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.20		ug/Kg		85	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	23.38		ug/Kg		98	55 - 133

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	97		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351126/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351126

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	99		15 - 200
M2-6:2 FTS	111		10 - 200
13C5 PFHxA	109		10 - 174
13C4 PFHpA	112		10 - 178
13C8 PFOA	113		26 - 159
13C9 PFNA	111		26 - 165
13C6 PFDA	112		26 - 161
13C7 PFUnA	118		12 - 173
13C2-PFDoDA	111		11 - 166
13C2 PFTeDA	142		10 - 169
13C3 PFBS	123		27 - 179
13C3 PFHxS	116		24 - 171
13C8 PFOS	116		41 - 154
d3-NMeFOSAA	96		10 - 178
d5-NEtFOSAA	102		10 - 193
13C8 FOSA	100		14 - 163
13C4 PFBA	113		28 - 153
13C5 PFPeA	104		24 - 161
d7-N-MeFOSE-M	108		10 - 179
d3-NMePFOSA	97		10 - 175
d9-N-EtFOSE-M	113		10 - 185
d5-NEtPFOSA	100		10 - 180
13C3 HFPO-DA	95		10 - 169

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.4	23.45		ug/Kg	☼	86	59 - 132
Perfluoroheptanoic acid	ND		27.4	22.52		ug/Kg	☼	82	59 - 137
Perfluorooctanoic acid	ND		27.4	21.20		ug/Kg	☼	77	59 - 131
Perfluorononanoic acid	ND		27.4	24.49		ug/Kg	☼	89	61 - 134
Perfluorodecanoic acid	ND		27.4	23.66		ug/Kg	☼	86	56 - 133
Perfluorotridecanoic acid	ND		27.4	24.88		ug/Kg	☼	91	53 - 143
Perfluorotetradecanoic acid	ND		27.4	22.51		ug/Kg	☼	82	62 - 134
Perfluorobutanesulfonic acid	ND		24.3	23.12		ug/Kg	☼	95	54 - 130
Perfluorohexanesulfonic acid	ND		25.0	21.58		ug/Kg	☼	86	59 - 129
Perfluorooctanesulfonic acid	ND		25.4	21.71		ug/Kg	☼	86	61 - 126
NEtFOSAA	ND		27.4	25.61		ug/Kg	☼	93	57 - 127
NMeFOSAA	ND		27.4	25.42		ug/Kg	☼	93	60 - 134
10:2 FTS	ND		26.4	24.39		ug/Kg	☼	92	46 - 143
Perfluoropentanesulfonic acid	ND		25.7	20.71		ug/Kg	☼	81	57 - 133
Perfluoroheptanesulfonic acid	ND		26.1	21.72		ug/Kg	☼	83	59 - 132
Perfluorononanesulfonic acid	ND		26.3	21.93		ug/Kg	☼	83	60 - 132
Perfluorodecanesulfonic acid	ND		26.4	22.49		ug/Kg	☼	85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.5	21.77		ug/Kg	☼	82	38 - 145
Perfluorooctanesulfonamide	ND		27.4	24.64		ug/Kg	☼	90	47 - 149

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexadecanoic acid	ND		27.4	15.01		ug/Kg	☼	55	38 - 147
Perfluorooctadecanoic acid	ND		27.4	14.85		ug/Kg	☼	54	16 - 160
Perfluorobutanoic acid	ND		27.4	21.57		ug/Kg	☼	79	60 - 128
Perfluoropentanoic acid	ND		27.4	23.61		ug/Kg	☼	86	58 - 134
NMeFOSE	ND		27.4	24.00		ug/Kg	☼	88	60 - 130
NMeFOSA	ND		27.4	25.03		ug/Kg	☼	91	60 - 129
NEtFOSE	ND		27.4	23.15		ug/Kg	☼	84	60 - 126
NEtFOSA	ND		27.4	24.88		ug/Kg	☼	91	60 - 123
HFPODA	ND		27.4	26.34		ug/Kg	☼	96	49 - 135
DONA	ND		25.9	22.87		ug/Kg	☼	88	57 - 137
9Cl-PF3ONS	ND		25.5	21.50		ug/Kg	☼	84	62 - 130
11Cl-PF3OUdS	ND		25.5	21.30		ug/Kg	☼	84	55 - 135
Perfluorododecanoic acid	ND		27.4	24.89		ug/Kg	☼	91	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.6	22.65		ug/Kg	☼	88	58 - 131
Perfluoroundecanoic acid	ND		27.4	23.24		ug/Kg	☼	85	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.0	22.55		ug/Kg	☼	87	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.3	25.01		ug/Kg	☼	95	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*91*		*10 - 200*
M2-8:2 FTS	*96*		*15 - 200*
M2-6:2 FTS	*103*		*10 - 200*
13C5 PFHxA	*107*		*10 - 174*
13C4 PFHpA	*111*		*10 - 178*
13C8 PFOA	*119*		*26 - 159*
13C9 PFNA	*113*		*26 - 165*
13C6 PFDA	*113*		*26 - 161*
13C7 PFUnA	*127*		*12 - 173*
13C2-PFDoDA	*110*		*11 - 166*
13C2 PFTeDA	*143*		*10 - 169*
13C3 PFBS	*123*		*27 - 179*
13C3 PFHxS	*119*		*24 - 171*
13C8 PFOS	*122*		*41 - 154*
d3-NMeFOSAA	*54*		*10 - 178*
d5-NEtFOSAA	*64*		*10 - 193*
13C8 FOSA	*114*		*14 - 163*
13C4 PFBA	*112*		*28 - 153*
13C5 PFPeA	*102*		*24 - 161*
d7-N-MeFOSE-M	*125*		*10 - 179*
d3-NMePFOSA	*114*		*10 - 175*
d9-N-EtFOSE-M	*136*		*10 - 185*
d5-NEtPFOSA	*122*		*10 - 180*
13C3 HFPO-DA	*88*		*10 - 169*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.7	23.79		ug/Kg	☼	86	59 - 132	1	30
Perfluoroheptanoic acid	ND		27.7	23.66		ug/Kg	☼	86	59 - 137	5	30
Perfluorooctanoic acid	ND		27.7	22.41		ug/Kg	☼	81	59 - 131	6	30
Perfluorononanoic acid	ND		27.7	24.22		ug/Kg	☼	88	61 - 134	1	30
Perfluorodecanoic acid	ND		27.7	24.28		ug/Kg	☼	88	56 - 133	3	30
Perfluorotridecanoic acid	ND		27.7	25.98		ug/Kg	☼	94	53 - 143	4	30
Perfluorotetradecanoic acid	ND		27.7	22.77		ug/Kg	☼	82	62 - 134	1	30
Perfluorobutanesulfonic acid	ND		24.5	23.20		ug/Kg	☼	95	54 - 130	0	30
Perfluorohexanesulfonic acid	ND		25.2	23.15		ug/Kg	☼	92	59 - 129	7	30
Perfluorooctanesulfonic acid	ND		25.6	22.17		ug/Kg	☼	87	61 - 126	2	30
NEtFOSAA	ND		27.7	27.40		ug/Kg	☼	99	57 - 127	7	30
NMeFOSAA	ND		27.7	28.03		ug/Kg	☼	101	60 - 134	10	30
10:2 FTS	ND		26.7	24.76		ug/Kg	☼	93	46 - 143	2	30
Perfluoropentanesulfonic acid	ND		26.0	21.34		ug/Kg	☼	82	57 - 133	3	30
Perfluoroheptanesulfonic acid	ND		26.3	23.03		ug/Kg	☼	87	59 - 132	6	30
Perfluorononanesulfonic acid	ND		26.6	22.51		ug/Kg	☼	85	60 - 132	3	30
Perfluorodecanesulfonic acid	ND		26.7	21.69		ug/Kg	☼	81	57 - 132	4	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.8	21.76		ug/Kg	☼	81	38 - 145	0	30
Perfluorooctanesulfonamide	ND		27.7	24.88		ug/Kg	☼	90	47 - 149	1	30
Perfluorohexadecanoic acid	ND		27.7	15.99		ug/Kg	☼	58	38 - 147	6	30
Perfluorooctadecanoic acid	ND		27.7	17.09		ug/Kg	☼	62	16 - 160	14	30
Perfluorobutanoic acid	ND		27.7	20.61		ug/Kg	☼	74	60 - 128	5	30
Perfluoropentanoic acid	ND		27.7	24.16		ug/Kg	☼	87	58 - 134	2	30
NMeFOSE	ND		27.7	23.92		ug/Kg	☼	86	60 - 130	0	30
NMeFOSA	ND		27.7	24.42		ug/Kg	☼	88	60 - 129	2	30
NEtFOSE	ND		27.7	23.96		ug/Kg	☼	87	60 - 126	3	30
NEtFOSA	ND		27.7	24.78		ug/Kg	☼	90	60 - 123	0	30
HFPODA	ND		27.7	23.61		ug/Kg	☼	85	49 - 135	11	30
DONA	ND		26.2	23.30		ug/Kg	☼	89	57 - 137	2	30
9Cl-PF3ONS	ND		25.7	22.07		ug/Kg	☼	86	62 - 130	3	30
11Cl-PF3OUdS	ND		25.7	22.47		ug/Kg	☼	87	55 - 135	5	30
Perfluorododecanoic acid	ND		27.7	24.30		ug/Kg	☼	88	60 - 135	2	30
4:2 Fluorotelomer sulfonic acid	ND		25.9	23.69		ug/Kg	☼	92	58 - 131	4	30
Perfluoroundecanoic acid	ND		27.7	24.86		ug/Kg	☼	90	60 - 134	7	30
6:2 Fluorotelomer sulfonic acid	ND		26.2	23.47		ug/Kg	☼	89	59 - 135	4	30
8:2 Fluorotelomer sulfonic acid	ND		26.5	23.68		ug/Kg	☼	89	55 - 133	5	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*92*		*10 - 200*
M2-8:2 FTS	*105*		*15 - 200*
M2-6:2 FTS	*105*		*10 - 200*
13C5 PFHxA	*110*		*10 - 174*
13C4 PFHpA	*107*		*10 - 178*
13C8 PFOA	*113*		*26 - 159*
13C9 PFNA	*115*		*26 - 165*
13C6 PFDA	*119*		*26 - 161*
13C7 PFUnA	*121*		*12 - 173*
13C2-PFDoDA	*115*		*11 - 166*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351126

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C2 PFTeDA	*149*		*10 - 169*
13C3 PFBS	*121*		*27 - 179*
13C3 PFHxS	*111*		*24 - 171*
13C8 PFOS	*120*		*41 - 154*
d3-NMeFOSAA	*66*		*10 - 178*
d5-NEtFOSAA	*72*		*10 - 193*
13C8 FOSA	*115*		*14 - 163*
13C4 PFBA	*116*		*28 - 153*
13C5 PFPeA	*109*		*24 - 161*
d7-N-MeFOSE-M	*125*		*10 - 179*
d3-NMePFOSA	*114*		*10 - 175*
d9-N-EtFOSE-M	*132*		*10 - 185*
d5-NEtPFOSA	*123*		*10 - 180*
13C3 HFPO-DA	*100*		*10 - 169*

Lab Sample ID: MB 410-351204/1-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 22:50	03/22/23 08:05	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351204/1-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351204

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	ND		3.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 22:50	03/22/23 08:05	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*110*		*10 - 200*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
M2-6:2 FTS	*127*		*10 - 200*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C9 PFNA	*111*		*26 - 165*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C6 PFDA	*114*		*26 - 161*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C7 PFUnA	*116*		*12 - 173*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C2 PFTeDA	*109*		*10 - 169*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C3 PFHxS	*116*		*24 - 171*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C8 PFOS	*114*		*41 - 154*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d3-NMeFOSAA	*90*		*10 - 178*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d5-NEtFOSAA	*97*		*10 - 193*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C8 FOSA	*83*		*14 - 163*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C4 PFBA	*103*		*28 - 153*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C5 PFPeA	*102*		*24 - 161*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d3-NMePFOSA	*57*		*10 - 175*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
d5-NEtPFOSA	*54*		*10 - 180*	*03/07/23 22:50*	*03/22/23 08:05*	*1*
13C3 HFPO-DA	*106*		*10 - 169*	*03/07/23 22:50*	*03/22/23 08:05*	*1*

Lab Sample ID: LCS 410-351204/2-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	19.78		ug/Kg		79	59 - 132
Perfluoroheptanoic acid	25.0	21.63		ug/Kg		87	59 - 137
Perfluorooctanoic acid	25.0	18.73		ug/Kg		75	59 - 131
Perfluorononanoic acid	25.0	21.62		ug/Kg		86	61 - 134
Perfluorodecanoic acid	25.0	19.40		ug/Kg		78	56 - 133
Perfluorotridecanoic acid	25.0	19.34		ug/Kg		77	53 - 143
Perfluorotetradecanoic acid	25.0	21.39		ug/Kg		86	62 - 134
Perfluorobutanesulfonic acid	22.1	18.06		ug/Kg		82	54 - 130
Perfluorohexanesulfonic acid	22.8	18.79		ug/Kg		82	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351204/2-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351204

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	23.1	18.71		ug/Kg		81	61 - 126
NEtFOSAA	25.0	20.63		ug/Kg		83	57 - 127
NMeFOSAA	25.0	21.92		ug/Kg		88	60 - 134
10:2 FTS	24.1	20.35		ug/Kg		84	46 - 143
Perfluoropentanesulfonic acid	23.5	19.29		ug/Kg		82	57 - 133
Perfluoroheptanesulfonic acid	23.8	20.26		ug/Kg		85	59 - 132
Perfluorononanesulfonic acid	24.0	18.30		ug/Kg		76	60 - 132
Perfluorodecanesulfonic acid	24.1	18.78		ug/Kg		78	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.05		ug/Kg		79	38 - 145
Perfluorooctanesulfonamide	25.0	21.33		ug/Kg		85	47 - 149
Perfluorohexadecanoic acid	25.0	17.85		ug/Kg		71	38 - 147
Perfluorooctadecanoic acid	25.0	18.71		ug/Kg		75	16 - 160
Perfluorobutanoic acid	25.0	18.88		ug/Kg		76	60 - 128
Perfluoropentanoic acid	25.0	18.89		ug/Kg		76	58 - 134
NMeFOSE	25.0	22.22		ug/Kg		89	60 - 130
NMeFOSA	25.0	21.34		ug/Kg		85	60 - 129
NEtFOSE	25.0	21.49		ug/Kg		86	60 - 126
NEtFOSA	25.0	22.38		ug/Kg		90	60 - 123
HFPODA	25.0	20.28		ug/Kg		81	49 - 135
DONA	23.6	19.85		ug/Kg		84	57 - 137
9Cl-PF3ONS	23.3	18.44		ug/Kg		79	62 - 130
11Cl-PF3OUdS	23.3	19.44		ug/Kg		84	55 - 135
Perfluorododecanoic acid	25.0	19.66		ug/Kg		79	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.36		ug/Kg		87	58 - 131
Perfluoroundecanoic acid	25.0	18.96		ug/Kg		76	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.91		ug/Kg		88	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	19.64		ug/Kg		82	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*105*		*10 - 200*
M2-8:2 FTS	*110*		*15 - 200*
M2-6:2 FTS	*110*		*10 - 200*
13C5 PFHxA	*115*		*10 - 174*
13C4 PFHpA	*109*		*10 - 178*
13C8 PFOA	*114*		*26 - 159*
13C9 PFNA	*107*		*26 - 165*
13C6 PFDA	*118*		*26 - 161*
13C7 PFUnA	*119*		*12 - 173*
13C2-PFDoDA	*116*		*11 - 166*
13C2 PFTeDA	*117*		*10 - 169*
13C3 PFBS	*114*		*27 - 179*
13C3 PFHxS	*112*		*24 - 171*
13C8 PFOS	*111*		*41 - 154*
d3-NMeFOSAA	*98*		*10 - 178*
d5-NEtFOSAA	*103*		*10 - 193*
13C8 FOSA	*99*		*14 - 163*
13C4 PFBA	*110*		*28 - 153*
13C5 PFPeA	*109*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351204/2-B
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351204

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d7-N-MeFOSE-M	99		10 - 179
d3-NMePFOSA	81		10 - 175
d9-N-EtFOSE-M	96		10 - 185
d5-NEtPFOSA	85		10 - 180
13C3 HFPO-DA	97		10 - 169

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 355773

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351204

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.5	21.56		ug/Kg	☼	78	59 - 132
Perfluoroheptanoic acid	ND		27.5	24.63		ug/Kg	☼	89	59 - 137
Perfluorooctanoic acid	ND		27.5	20.48		ug/Kg	☼	74	59 - 131
Perfluorononanoic acid	ND		27.5	24.57		ug/Kg	☼	89	61 - 134
Perfluorodecanoic acid	ND		27.5	23.54		ug/Kg	☼	85	56 - 133
Perfluorotridecanoic acid	ND		27.5	23.17		ug/Kg	☼	84	53 - 143
Perfluorotetradecanoic acid	ND		27.5	24.11		ug/Kg	☼	88	62 - 134
Perfluorobutanesulfonic acid	ND		24.4	20.70		ug/Kg	☼	85	54 - 130
Perfluorohexanesulfonic acid	ND		25.1	21.48		ug/Kg	☼	85	59 - 129
Perfluorooctanesulfonic acid	ND		25.5	21.87		ug/Kg	☼	86	61 - 126
NEtFOSAA	ND		27.5	23.68		ug/Kg	☼	86	57 - 127
NMeFOSAA	ND		27.5	25.55		ug/Kg	☼	93	60 - 134
10:2 FTS	ND		26.6	22.34		ug/Kg	☼	84	46 - 143
Perfluoropentanesulfonic acid	ND		25.8	21.65		ug/Kg	☼	84	57 - 133
Perfluoroheptanesulfonic acid	ND		26.2	21.69		ug/Kg	☼	83	59 - 132
Perfluorononanesulfonic acid	ND		26.4	20.77		ug/Kg	☼	79	60 - 132
Perfluorodecanesulfonic acid	ND		26.6	21.40		ug/Kg	☼	81	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.7	22.22		ug/Kg	☼	83	38 - 145
Perfluorooctanesulfonamide	ND		27.5	25.99		ug/Kg	☼	94	47 - 149
Perfluorohexadecanoic acid	ND		27.5	21.89		ug/Kg	☼	79	38 - 147
Perfluorooctadecanoic acid	ND		27.5	22.16		ug/Kg	☼	80	16 - 160
Perfluorobutanoic acid	ND		27.5	21.60		ug/Kg	☼	78	60 - 128
Perfluoropentanoic acid	ND		27.5	22.42		ug/Kg	☼	81	58 - 134
NMeFOSE	ND		27.5	24.44		ug/Kg	☼	89	60 - 130
NMeFOSA	ND		27.5	26.25		ug/Kg	☼	95	60 - 129
NEtFOSE	ND		27.5	26.33		ug/Kg	☼	96	60 - 126
NEtFOSA	ND		27.5	25.99		ug/Kg	☼	94	60 - 123
HFPODA	ND		27.5	23.17		ug/Kg	☼	84	49 - 135
DONA	ND		26.0	21.55		ug/Kg	☼	83	57 - 137
9Cl-PF3ONS	ND		25.6	22.62		ug/Kg	☼	88	62 - 130
11Cl-PF3OUdS	ND		25.6	22.71		ug/Kg	☼	89	55 - 135
Perfluorododecanoic acid	ND		27.5	22.98		ug/Kg	☼	83	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.7	22.73		ug/Kg	☼	88	58 - 131
Perfluoroundecanoic acid	ND		27.5	25.57		ug/Kg	☼	93	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.1	23.71		ug/Kg	☼	91	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.4	22.08		ug/Kg	☼	84	55 - 133

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	97		10 - 200
M2-8:2 FTS	111		15 - 200
M2-6:2 FTS	105		10 - 200
13C5 PFHxA	112		10 - 174
13C4 PFHpA	105		10 - 178
13C8 PFOA	109		26 - 159
13C9 PFNA	108		26 - 165
13C6 PFDA	108		26 - 161
13C7 PFUnA	110		12 - 173
13C2-PFDoDA	105		11 - 166
13C2 PFTeDA	112		10 - 169
13C3 PFBS	110		27 - 179
13C3 PFHxS	106		24 - 171
13C8 PFOS	106		41 - 154
d3-NMeFOSAA	66		10 - 178
d5-NEtFOSAA	101		10 - 193
13C8 FOSA	94		14 - 163
13C4 PFBA	111		28 - 153
13C5 PFPeA	107		24 - 161
d7-N-MeFOSE-M	99		10 - 179
d3-NMePFOSA	68		10 - 175
d9-N-EtFOSE-M	91		10 - 185
d5-NEtPFOSA	73		10 - 180
13C3 HFPO-DA	94		10 - 169

Lab Sample ID: 620-10117-43 MSD — **Client Sample ID: 2023-SB-05-0406'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 355773 — **Prep Batch: 351204**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.3	21.80		ug/Kg	☼	80	59 - 132	1	30
Perfluoroheptanoic acid	ND		27.3	22.78		ug/Kg	☼	83	59 - 137	8	30
Perfluorooctanoic acid	ND		27.3	20.05		ug/Kg	☼	73	59 - 131	2	30
Perfluorononanoic acid	ND		27.3	25.11		ug/Kg	☼	92	61 - 134	2	30
Perfluorodecanoic acid	ND		27.3	22.72		ug/Kg	☼	83	56 - 133	4	30
Perfluorotridecanoic acid	ND		27.3	22.66		ug/Kg	☼	83	53 - 143	2	30
Perfluorotetradecanoic acid	ND		27.3	23.73		ug/Kg	☼	87	62 - 134	2	30
Perfluorobutanesulfonic acid	ND		24.2	20.22		ug/Kg	☼	84	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		24.9	20.81		ug/Kg	☼	84	59 - 129	3	30
Perfluorooctanesulfonic acid	ND		25.3	21.58		ug/Kg	☼	85	61 - 126	1	30
NEtFOSAA	ND		27.3	24.30		ug/Kg	☼	89	57 - 127	3	30
NMeFOSAA	ND		27.3	23.62		ug/Kg	☼	87	60 - 134	8	30
10:2 FTS	ND		26.3	25.00		ug/Kg	☼	95	46 - 143	11	30
Perfluoropentanesulfonic acid	ND		25.6	22.73		ug/Kg	☼	89	57 - 133	5	30
Perfluoroheptanesulfonic acid	ND		26.0	21.54		ug/Kg	☼	83	59 - 132	1	30
Perfluorononanesulfonic acid	ND		26.2	20.77		ug/Kg	☼	79	60 - 132	0	30
Perfluorodecanesulfonic acid	ND		26.3	21.45		ug/Kg	☼	82	57 - 132	0	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.4	20.95		ug/Kg	☼	79	38 - 145	6	30
Perfluorooctanesulfonamide	ND		27.3	24.88		ug/Kg	☼	91	47 - 149	4	30
Perfluorohexadecanoic acid	ND		27.3	22.12		ug/Kg	☼	81	38 - 147	1	30
Perfluorooctadecanoic acid	ND		27.3	23.38		ug/Kg	☼	86	16 - 160	5	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-43 MSD **Client Sample ID: 2023-SB-05-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 355773 **Prep Batch: 351204**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		27.3	20.93		ug/Kg	☼	77	60 - 128	3	30
Perfluoropentanoic acid	ND		27.3	21.72		ug/Kg	☼	80	58 - 134	3	30
NMeFOSE	ND		27.3	25.43		ug/Kg	☼	93	60 - 130	4	30
NMeFOSA	ND		27.3	23.70		ug/Kg	☼	87	60 - 129	10	30
NEtFOSE	ND		27.3	25.09		ug/Kg	☼	92	60 - 126	5	30
NEtFOSA	ND		27.3	25.50		ug/Kg	☼	93	60 - 123	2	30
HFPODA	ND		27.3	20.79		ug/Kg	☼	76	49 - 135	11	30
DONA	ND		25.8	20.87		ug/Kg	☼	81	57 - 137	3	30
9Cl-PF3ONS	ND		25.4	22.32		ug/Kg	☼	88	62 - 130	1	30
11Cl-PF3OUdS	ND		25.4	23.16		ug/Kg	☼	91	55 - 135	2	30
Perfluorododecanoic acid	ND		27.3	23.62		ug/Kg	☼	87	60 - 135	3	30
4:2 Fluorotelomer sulfonic acid	ND		25.5	22.75		ug/Kg	☼	89	58 - 131	0	30
Perfluoroundecanoic acid	ND		27.3	22.86		ug/Kg	☼	84	60 - 134	11	30
6:2 Fluorotelomer sulfonic acid	ND		25.9	23.01		ug/Kg	☼	89	59 - 135	3	30
8:2 Fluorotelomer sulfonic acid	ND		26.1	21.67		ug/Kg	☼	83	55 - 133	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*99*		*10 - 200*
M2-8:2 FTS	*96*		*15 - 200*
M2-6:2 FTS	*108*		*10 - 200*
13C5 PFHxA	*109*		*10 - 174*
13C4 PFHpA	*109*		*10 - 178*
13C8 PFOA	*108*		*26 - 159*
13C9 PFNA	*108*		*26 - 165*
13C6 PFDA	*104*		*26 - 161*
13C7 PFUnA	*113*		*12 - 173*
13C2-PFDoDA	*103*		*11 - 166*
13C2 PFTeDA	*101*		*10 - 169*
13C3 PFBS	*102*		*27 - 179*
13C3 PFHxS	*104*		*24 - 171*
13C8 PFOS	*110*		*41 - 154*
d3-NMeFOSAA	*67*		*10 - 178*
d5-NEtFOSAA	*88*		*10 - 193*
13C8 FOSA	*93*		*14 - 163*
13C4 PFBA	*108*		*28 - 153*
13C5 PFPeA	*104*		*24 - 161*
d7-N-MeFOSE-M	*92*		*10 - 179*
d3-NMePFOSA	*72*		*10 - 175*
d9-N-EtFOSE-M	*86*		*10 - 185*
d5-NEtPFOSA	*71*		*10 - 180*
13C3 HFPO-DA	*100*		*10 - 169*

Lab Sample ID: MB 410-351205/1-B **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 353839 **Prep Batch: 351205**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351205/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
DONA	ND		3.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C4 PFHpA	*113*		*10 - 178*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C6 PFDA	*105*		*26 - 161*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C2-PFDoDA	*112*		*11 - 166*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/07/23 22:53*	*03/15/23 21:18*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351205/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351205

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	114		24 - 171	03/07/23 22:53	03/15/23 21:18	1
13C8 PFOS	114		41 - 154	03/07/23 22:53	03/15/23 21:18	1
d3-NMeFOSAA	87		10 - 178	03/07/23 22:53	03/15/23 21:18	1
d5-NEtFOSAA	95		10 - 193	03/07/23 22:53	03/15/23 21:18	1
13C8 FOSA	76		14 - 163	03/07/23 22:53	03/15/23 21:18	1
13C4 PFBA	97		28 - 153	03/07/23 22:53	03/15/23 21:18	1
13C5 PFPeA	92		24 - 161	03/07/23 22:53	03/15/23 21:18	1
d7-N-MeFOSE-M	82		10 - 179	03/07/23 22:53	03/15/23 21:18	1
d3-NMePFOSA	74		10 - 175	03/07/23 22:53	03/15/23 21:18	1
d9-N-EtFOSE-M	88		10 - 185	03/07/23 22:53	03/15/23 21:18	1
d5-NEtPFOSA	76		10 - 180	03/07/23 22:53	03/15/23 21:18	1
13C3 HFPO-DA	93		10 - 169	03/07/23 22:53	03/15/23 21:18	1

Lab Sample ID: LCS 410-351205/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.03		ug/Kg		84	59 - 132
Perfluoroheptanoic acid	25.0	21.75		ug/Kg		87	59 - 137
Perfluorooctanoic acid	25.0	19.57		ug/Kg		78	59 - 131
Perfluorononanoic acid	25.0	20.78		ug/Kg		83	61 - 134
Perfluorodecanoic acid	25.0	21.39		ug/Kg		86	56 - 133
Perfluorotridecanoic acid	25.0	20.46		ug/Kg		82	53 - 143
Perfluorotetradecanoic acid	25.0	19.83		ug/Kg		79	62 - 134
Perfluorobutanesulfonic acid	22.1	21.27		ug/Kg		96	54 - 130
Perfluorohexanesulfonic acid	22.8	19.74		ug/Kg		87	59 - 129
Perfluorooctanesulfonic acid	23.1	19.78		ug/Kg		85	61 - 126
NEtFOSAA	25.0	22.31		ug/Kg		89	57 - 127
NMeFOSAA	25.0	23.03		ug/Kg		92	60 - 134
10:2 FTS	24.1	24.44		ug/Kg		101	46 - 143
Perfluoropentanesulfonic acid	23.5	18.72		ug/Kg		80	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.22		ug/Kg		89	59 - 132
Perfluorononanesulfonic acid	24.0	20.49		ug/Kg		85	60 - 132
Perfluorodecanesulfonic acid	24.1	20.04		ug/Kg		83	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.91		ug/Kg		82	38 - 145
Perfluorooctanesulfonamide	25.0	21.31		ug/Kg		85	47 - 149
Perfluorohexadecanoic acid	25.0	15.13		ug/Kg		61	38 - 147
Perfluorooctadecanoic acid	25.0	16.80		ug/Kg		67	16 - 160
Perfluorobutanoic acid	25.0	19.29		ug/Kg		77	60 - 128
Perfluoropentanoic acid	25.0	19.09		ug/Kg		76	58 - 134
NMeFOSE	25.0	22.02		ug/Kg		88	60 - 130
NMeFOSA	25.0	22.18		ug/Kg		89	60 - 129
NEtFOSE	25.0	21.47		ug/Kg		86	60 - 126
NEtFOSA	25.0	22.72		ug/Kg		91	60 - 123
HFPODA	25.0	21.81		ug/Kg		87	49 - 135
DONA	23.6	20.30		ug/Kg		86	57 - 137
9Cl-PF3ONS	23.3	19.63		ug/Kg		84	62 - 130

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351205/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	23.3	18.85		ug/Kg		81	55 - 135
Perfluorododecanoic acid	25.0	20.29		ug/Kg		81	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.30		ug/Kg		87	58 - 131
Perfluoroundecanoic acid	25.0	21.39		ug/Kg		86	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	19.77		ug/Kg		83	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	21.13		ug/Kg		88	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*101*		*10 - 200*
M2-8:2 FTS	*101*		*15 - 200*
M2-6:2 FTS	*108*		*10 - 200*
13C5 PFHxA	*110*		*10 - 174*
13C4 PFHpA	*111*		*10 - 178*
13C8 PFOA	*112*		*26 - 159*
13C9 PFNA	*116*		*26 - 165*
13C6 PFDA	*107*		*26 - 161*
13C7 PFUnA	*120*		*12 - 173*
13C2-PFDoDA	*118*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*118*		*27 - 179*
13C3 PFHxS	*113*		*24 - 171*
13C8 PFOS	*115*		*41 - 154*
d3-NMeFOSAA	*97*		*10 - 178*
d5-NEtFOSAA	*104*		*10 - 193*
13C8 FOSA	*91*		*14 - 163*
13C4 PFBA	*107*		*28 - 153*
13C5 PFPeA	*113*		*24 - 161*
d7-N-MeFOSE-M	*95*		*10 - 179*
d3-NMePFOSA	*69*		*10 - 175*
d9-N-EtFOSE-M	*97*		*10 - 185*
d5-NEtPFOSA	*68*		*10 - 180*
13C3 HFPO-DA	*94*		*10 - 169*

Lab Sample ID: MB 410-355124/1-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355124/1-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
HFPODA	ND		2.00	1.00	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
DONA	ND		3.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/19/23 19:30	03/21/23 09:23	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
M2-8:2 FTS	*129*		*15 - 200*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C5 PFHxA	*129*		*10 - 174*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C4 PFHpA	*127*		*10 - 178*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C8 PFOA	*138*		*26 - 159*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C9 PFNA	*138*		*26 - 165*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C6 PFDA	*133*		*26 - 161*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C7 PFUnA	*138*		*12 - 173*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C2-PFDoDA	*134*		*11 - 166*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C3 PFBS	*133*		*27 - 179*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C3 PFHxS	*138*		*24 - 171*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C8 PFOS	*143*		*41 - 154*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d3-NMeFOSAA	*127*		*10 - 178*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d5-NEtFOSAA	*129*		*10 - 193*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C8 FOSA	*87*		*14 - 163*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C4 PFBA	*110*		*28 - 153*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
13C5 PFPeA	*114*		*24 - 161*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/19/23 19:30*	*03/21/23 09:23*	*1*
d3-NMePFOSA	*64*		*10 - 175*	*03/19/23 19:30*	*03/21/23 09:23*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355124/1-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355124

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	91		10 - 185	03/19/23 19:30	03/21/23 09:23	1
d5-NEtPFOSA	66		10 - 180	03/19/23 19:30	03/21/23 09:23	1
13C3 HFPO-DA	135		10 - 169	03/19/23 19:30	03/21/23 09:23	1

Lab Sample ID: LCS 410-355124/2-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	17.81		ug/Kg		71	59 - 132
Perfluoroheptanoic acid	25.0	19.40		ug/Kg		78	59 - 137
Perfluorooctanoic acid	25.0	20.07		ug/Kg		80	59 - 131
Perfluorononanoic acid	25.0	18.13		ug/Kg		73	61 - 134
Perfluorodecanoic acid	25.0	17.82		ug/Kg		71	56 - 133
Perfluorotridecanoic acid	25.0	18.65		ug/Kg		75	53 - 143
Perfluorotetradecanoic acid	25.0	18.94		ug/Kg		76	62 - 134
Perfluorobutanesulfonic acid	22.1	16.78		ug/Kg		76	54 - 130
Perfluorohexanesulfonic acid	22.8	17.04		ug/Kg		75	59 - 129
Perfluorooctanesulfonic acid	23.1	16.97		ug/Kg		73	61 - 126
NEtFOSAA	25.0	21.28		ug/Kg		85	57 - 127
NMeFOSAA	25.0	19.95		ug/Kg		80	60 - 134
10:2 FTS	24.1	16.39		ug/Kg		68	46 - 143
Perfluoropentanesulfonic acid	23.5	17.41		ug/Kg		74	57 - 133
Perfluoroheptanesulfonic acid	23.8	17.16		ug/Kg		72	59 - 132
Perfluorononanesulfonic acid	24.0	17.51		ug/Kg		73	60 - 132
Perfluorodecanesulfonic acid	24.1	16.95		ug/Kg		70	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	16.37		ug/Kg		68	38 - 145
Perfluorooctanesulfonamide	25.0	19.84		ug/Kg		79	47 - 149
Perfluorohexadecanoic acid	25.0	15.30		ug/Kg		61	38 - 147
Perfluorooctadecanoic acid	25.0	16.76		ug/Kg		67	16 - 160
Perfluorobutanoic acid	25.0	17.29		ug/Kg		69	60 - 128
Perfluoropentanoic acid	25.0	17.23		ug/Kg		69	58 - 134
NMeFOSE	25.0	19.41		ug/Kg		78	60 - 130
NMeFOSA	25.0	19.12		ug/Kg		76	60 - 129
NEtFOSE	25.0	19.60		ug/Kg		78	60 - 126
NEtFOSA	25.0	20.35		ug/Kg		81	60 - 123
HFPODA	25.0	17.37		ug/Kg		69	49 - 135
DONA	23.6	19.09		ug/Kg		81	57 - 137
9Cl-PF3ONS	23.3	17.02		ug/Kg		73	62 - 130
11Cl-PF3OUdS	23.3	16.27		ug/Kg		70	55 - 135
Perfluorododecanoic acid	25.0	17.64		ug/Kg		71	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	17.79		ug/Kg		76	58 - 131
Perfluoroundecanoic acid	25.0	20.16		ug/Kg		81	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	18.35		ug/Kg		77	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	16.67		ug/Kg		70	55 - 133

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	108		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355124/2-B
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355124

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	135		15 - 200
M2-6:2 FTS	113		10 - 200
13C5 PFHxA	139		10 - 174
13C4 PFHpA	130		10 - 178
13C8 PFOA	130		26 - 159
13C9 PFNA	133		26 - 165
13C6 PFDA	140		26 - 161
13C7 PFUnA	136		12 - 173
13C2-PFDoDA	139		11 - 166
13C2 PFTeDA	164		10 - 169
13C3 PFBS	132		27 - 179
13C3 PFHxS	141		24 - 171
13C8 PFOS	130		41 - 154
d3-NMeFOSAA	147		10 - 178
d5-NEtFOSAA	130		10 - 193
13C8 FOSA	129		14 - 163
13C4 PFBA	132		28 - 153
13C5 PFPeA	131		24 - 161
d7-N-MeFOSE-M	126		10 - 179
d3-NMePFOSA	103		10 - 175
d9-N-EtFOSE-M	122		10 - 185
d5-NEtPFOSA	101		10 - 180
13C3 HFPO-DA	144		10 - 169

Lab Sample ID: 620-10117-44 MS
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		28.1	20.34		ug/Kg	☼	72	59 - 132
Perfluoroheptanoic acid	ND		28.1	21.47		ug/Kg	☼	76	59 - 137
Perfluorooctanoic acid	ND		28.1	22.26		ug/Kg	☼	79	59 - 131
Perfluorononanoic acid	ND		28.1	20.51		ug/Kg	☼	73	61 - 134
Perfluorodecanoic acid	ND		28.1	21.09		ug/Kg	☼	75	56 - 133
Perfluorotridecanoic acid	ND		28.1	21.66		ug/Kg	☼	77	53 - 143
Perfluorotetradecanoic acid	ND		28.1	22.20		ug/Kg	☼	79	62 - 134
Perfluorobutanesulfonic acid	ND		24.9	19.08		ug/Kg	☼	77	54 - 130
Perfluorohexanesulfonic acid	ND		25.7	18.50		ug/Kg	☼	72	59 - 129
Perfluorooctanesulfonic acid	ND		26.0	18.90		ug/Kg	☼	73	61 - 126
NEtFOSAA	ND		28.1	22.22		ug/Kg	☼	79	57 - 127
NMeFOSAA	ND		28.1	21.40		ug/Kg	☼	76	60 - 134
10:2 FTS	ND		27.1	18.35		ug/Kg	☼	68	46 - 143
Perfluoropentanesulfonic acid	ND		26.4	19.84		ug/Kg	☼	75	57 - 133
Perfluoroheptanesulfonic acid	ND		26.8	18.77		ug/Kg	☼	70	59 - 132
Perfluorononanesulfonic acid	ND		27.0	18.40		ug/Kg	☼	68	60 - 132
Perfluorodecanesulfonic acid	ND		27.1	17.80		ug/Kg	☼	66	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		27.2	18.05		ug/Kg	☼	66	38 - 145
Perfluorooctanesulfonamide	ND		28.1	22.07		ug/Kg	☼	78	47 - 149

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-44 MS
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexadecanoic acid	ND		28.1	18.59		ug/Kg	☼	66	38 - 147
Perfluorooctadecanoic acid	ND		28.1	20.69		ug/Kg	☼	74	16 - 160
Perfluorobutanoic acid	ND		28.1	19.46		ug/Kg	☼	69	60 - 128
Perfluoropentanoic acid	ND		28.1	19.67		ug/Kg	☼	70	58 - 134
NMeFOSE	ND		28.1	21.83		ug/Kg	☼	78	60 - 130
NMeFOSA	ND		28.1	22.65		ug/Kg	☼	80	60 - 129
NEtFOSE	ND		28.1	22.66		ug/Kg	☼	81	60 - 126
NEtFOSA	ND		28.1	22.02		ug/Kg	☼	78	60 - 123
HFPODA	ND		28.1	19.30		ug/Kg	☼	69	49 - 135
DONA	ND		26.6	21.46		ug/Kg	☼	81	57 - 137
9Cl-PF3ONS	ND		26.2	18.39		ug/Kg	☼	70	62 - 130
11Cl-PF3OUdS	ND		26.2	18.08		ug/Kg	☼	69	55 - 135
Perfluorododecanoic acid	ND		28.1	22.01		ug/Kg	☼	78	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		26.3	18.19		ug/Kg	☼	69	58 - 131
Perfluoroundecanoic acid	ND		28.1	22.27		ug/Kg	☼	79	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.7	18.67		ug/Kg	☼	70	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		27.0	18.72		ug/Kg	☼	69	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*105*		*10 - 200*
M2-8:2 FTS	*128*		*15 - 200*
M2-6:2 FTS	*119*		*10 - 200*
13C5 PFHxA	*127*		*10 - 174*
13C4 PFHpA	*129*		*10 - 178*
13C8 PFOA	*128*		*26 - 159*
13C9 PFNA	*127*		*26 - 165*
13C6 PFDA	*126*		*26 - 161*
13C7 PFUnA	*121*		*12 - 173*
13C2-PFDoDA	*121*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*129*		*27 - 179*
13C3 PFHxS	*138*		*24 - 171*
13C8 PFOS	*131*		*41 - 154*
d3-NMeFOSAA	*117*		*10 - 178*
d5-NEtFOSAA	*113*		*10 - 193*
13C8 FOSA	*130*		*14 - 163*
13C4 PFBA	*132*		*28 - 153*
13C5 PFPeA	*127*		*24 - 161*
d7-N-MeFOSE-M	*117*		*10 - 179*
d3-NMePFOSA	*71*		*10 - 175*
d9-N-EtFOSE-M	*115*		*10 - 185*
d5-NEtPFOSA	*73*		*10 - 180*
13C3 HFPO-DA	*148*		*10 - 169*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-44 MSD
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		28.4	20.00		ug/Kg	☼	70	59 - 132	2	30
Perfluoroheptanoic acid	ND		28.4	22.40		ug/Kg	☼	79	59 - 137	4	30
Perfluorooctanoic acid	ND		28.4	23.90		ug/Kg	☼	84	59 - 131	7	30
Perfluorononanoic acid	ND		28.4	22.39		ug/Kg	☼	79	61 - 134	9	30
Perfluorodecanoic acid	ND		28.4	22.02		ug/Kg	☼	77	56 - 133	4	30
Perfluorotridecanoic acid	ND		28.4	20.38		ug/Kg	☼	72	53 - 143	6	30
Perfluorotetradecanoic acid	ND		28.4	21.20		ug/Kg	☼	75	62 - 134	5	30
Perfluorobutanesulfonic acid	ND		25.2	19.08		ug/Kg	☼	76	54 - 130	0	30
Perfluorohexanesulfonic acid	ND		25.9	18.84		ug/Kg	☼	73	59 - 129	2	30
Perfluorooctanesulfonic acid	ND		26.3	19.58		ug/Kg	☼	74	61 - 126	3	30
NEtFOSAA	ND		28.4	22.83		ug/Kg	☼	80	57 - 127	3	30
NMeFOSAA	ND		28.4	23.68		ug/Kg	☼	83	60 - 134	10	30
10:2 FTS	ND		27.4	19.40		ug/Kg	☼	71	46 - 143	6	30
Perfluoropentanesulfonic acid	ND		26.7	19.70		ug/Kg	☼	74	57 - 133	1	30
Perfluoroheptanesulfonic acid	ND		27.1	19.06		ug/Kg	☼	70	59 - 132	2	30
Perfluorononanesulfonic acid	ND		27.3	20.23		ug/Kg	☼	74	60 - 132	9	30
Perfluorodecanesulfonic acid	ND		27.4	18.76		ug/Kg	☼	68	57 - 132	5	30
Perfluorododecanesulfonic acid (PFDoS)	ND		27.5	19.26		ug/Kg	☼	70	38 - 145	6	30
Perfluorooctanesulfonamide	ND		28.4	20.50		ug/Kg	☼	72	47 - 149	7	30
Perfluorohexadecanoic acid	ND		28.4	18.60		ug/Kg	☼	65	38 - 147	0	30
Perfluorooctadecanoic acid	ND		28.4	20.11		ug/Kg	☼	71	16 - 160	3	30
Perfluorobutanoic acid	ND		28.4	19.41		ug/Kg	☼	68	60 - 128	0	30
Perfluoropentanoic acid	ND		28.4	20.08		ug/Kg	☼	71	58 - 134	2	30
NMeFOSE	ND		28.4	21.45		ug/Kg	☼	75	60 - 130	2	30
NMeFOSA	ND		28.4	21.99		ug/Kg	☼	77	60 - 129	3	30
NEtFOSE	ND		28.4	21.84		ug/Kg	☼	77	60 - 126	4	30
NEtFOSA	ND		28.4	22.64		ug/Kg	☼	80	60 - 123	3	30
HFPODA	ND		28.4	21.91		ug/Kg	☼	77	49 - 135	13	30
DONA	ND		26.9	21.67		ug/Kg	☼	81	57 - 137	1	30
9Cl-PF3ONS	ND		26.4	18.84		ug/Kg	☼	71	62 - 130	2	30
11Cl-PF3OUdS	ND		26.4	18.76		ug/Kg	☼	71	55 - 135	4	30
Perfluorododecanoic acid	ND		28.4	21.02		ug/Kg	☼	74	60 - 135	5	30
4:2 Fluorotelomer sulfonic acid	ND		26.5	19.31		ug/Kg	☼	73	58 - 131	6	30
Perfluoroundecanoic acid	ND		28.4	21.38		ug/Kg	☼	75	60 - 134	4	30
6:2 Fluorotelomer sulfonic acid	ND		26.9	19.52		ug/Kg	☼	72	59 - 135	4	30
8:2 Fluorotelomer sulfonic acid	ND		27.2	21.77		ug/Kg	☼	80	55 - 133	15	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*99*		*10 - 200*
M2-8:2 FTS	*130*		*15 - 200*
M2-6:2 FTS	*120*		*10 - 200*
13C5 PFHxA	*133*		*10 - 174*
13C4 PFHpA	*128*		*10 - 178*
13C8 PFOA	*128*		*26 - 159*
13C9 PFNA	*125*		*26 - 165*
13C6 PFDA	*137*		*26 - 161*
13C7 PFUnA	*143*		*12 - 173*
13C2-PFDoDA	*135*		*11 - 166*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-44 MSD
Matrix: Solid
Analysis Batch: 355348

Client Sample ID: 2023-SB-05-0608'
Prep Type: Total/NA
Prep Batch: 355124

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFTeDA	156		10 - 169
13C3 PFBS	136		27 - 179
13C3 PFHxS	141		24 - 171
13C8 PFOS	129		41 - 154
d3-NMeFOSAA	134		10 - 178
d5-NEtFOSAA	133		10 - 193
13C8 FOSA	146		14 - 163
13C4 PFBA	138		28 - 153
13C5 PFPeA	132		24 - 161
d7-N-MeFOSE-M	137		10 - 179
d3-NMePFOSA	122		10 - 175
d9-N-EtFOSE-M	132		10 - 185
d5-NEtPFOSA	125		10 - 180
13C3 HFPO-DA	135		10 - 169

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
HFPODA	ND		2.00	1.00	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DONA	ND		3.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-8:2 FTS	*130*		*15 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-6:2 FTS	*139*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFHxA	*136*		*10 - 174*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFHpA	*146*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOA	*144*		*26 - 159*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C9 PFNA	*131*		*26 - 165*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C6 PFDA	*136*		*26 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C7 PFUnA	*139*		*12 - 173*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2-PFDoDA	*138*		*11 - 166*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFHxS	*150*		*24 - 171*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMeFOSAA	*114*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtFOSAA	*114*		*10 - 193*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 FOSA	*77*		*14 - 163*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFBA	*114*		*28 - 153*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFPeA	*118*		*24 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d7-N-MeFOSE-M	*68*		*10 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMePFOSA	*25*		*10 - 175*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d9-N-EtFOSE-M	*73*		*10 - 185*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtPFOSA	*26*		*10 - 180*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 HFPO-DA	*124*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	18.06		ug/Kg		72	59 - 132
Perfluoroheptanoic acid	25.0	19.47		ug/Kg		78	59 - 137
Perfluorooctanoic acid	25.0	18.41		ug/Kg		74	59 - 131
Perfluorononanoic acid	25.0	20.12		ug/Kg		80	61 - 134
Perfluorodecanoic acid	25.0	18.34		ug/Kg		73	56 - 133
Perfluorotridecanoic acid	25.0	19.39		ug/Kg		78	53 - 143
Perfluorotetradecanoic acid	25.0	18.76		ug/Kg		75	62 - 134
Perfluorobutanesulfonic acid	22.1	17.21		ug/Kg		78	54 - 130
Perfluorohexanesulfonic acid	22.8	16.76		ug/Kg		74	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	23.1	17.28		ug/Kg		75	61 - 126
NEtFOSAA	25.0	20.51		ug/Kg		82	57 - 127
NMeFOSAA	25.0	21.10		ug/Kg		84	60 - 134
10:2 FTS	24.1	16.95		ug/Kg		70	46 - 143
Perfluoropentanesulfonic acid	23.5	17.61		ug/Kg		75	57 - 133
Perfluoroheptanesulfonic acid	23.8	18.09		ug/Kg		76	59 - 132
Perfluorononanesulfonic acid	24.0	18.24		ug/Kg		76	60 - 132
Perfluorodecanesulfonic acid	24.1	19.20		ug/Kg		80	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	18.47		ug/Kg		76	38 - 145
Perfluorooctanesulfonamide	25.0	19.43		ug/Kg		78	47 - 149
Perfluorohexadecanoic acid	25.0	16.54		ug/Kg		66	38 - 147
Perfluorooctadecanoic acid	25.0	17.26		ug/Kg		69	16 - 160
Perfluorobutanoic acid	25.0	17.18		ug/Kg		69	60 - 128
Perfluoropentanoic acid	25.0	17.58		ug/Kg		70	58 - 134
NMeFOSE	25.0	20.91		ug/Kg		84	60 - 130
NMeFOSA	25.0	20.01		ug/Kg		80	60 - 129
NEtFOSE	25.0	18.38		ug/Kg		74	60 - 126
NEtFOSA	25.0	20.72		ug/Kg		83	60 - 123
HFPODA	25.0	19.86		ug/Kg		79	49 - 135
DONA	23.6	17.05		ug/Kg		72	57 - 137
9Cl-PF3ONS	23.3	17.98		ug/Kg		77	62 - 130
11Cl-PF3OUdS	23.3	17.23		ug/Kg		74	55 - 135
Perfluorododecanoic acid	25.0	18.00		ug/Kg		72	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.57		ug/Kg		84	58 - 131
Perfluoroundecanoic acid	25.0	18.88		ug/Kg		76	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	17.47		ug/Kg		74	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.38		ug/Kg		77	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*115*		*10 - 200*
M2-8:2 FTS	*126*		*15 - 200*
M2-6:2 FTS	*117*		*10 - 200*
13C5 PFHxA	*129*		*10 - 174*
13C4 PFHpA	*129*		*10 - 178*
13C8 PFOA	*130*		*26 - 159*
13C9 PFNA	*126*		*26 - 165*
13C6 PFDA	*131*		*26 - 161*
13C7 PFUnA	*138*		*12 - 173*
13C2-PFDoDA	*130*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*136*		*27 - 179*
13C3 PFHxS	*139*		*24 - 171*
13C8 PFOS	*133*		*41 - 154*
d3-NMeFOSAA	*123*		*10 - 178*
d5-NEtFOSAA	*126*		*10 - 193*
13C8 FOSA	*76*		*14 - 163*
13C4 PFBA	*118*		*28 - 153*
13C5 PFPeA	*120*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d7-N-MeFOSE-M	69		10 - 179
d3-NMePFOSA	53		10 - 175
d9-N-EtFOSE-M	79		10 - 185
d5-NEtPFOSA	50		10 - 180
13C3 HFPO-DA	112		10 - 169

Lab Sample ID: 620-10117-36 MS
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: 2023-SB-06-0608'
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.8	20.32		ug/Kg	☼	73	59 - 132
Perfluoroheptanoic acid	ND		27.8	21.13		ug/Kg	☼	76	59 - 137
Perfluorooctanoic acid	ND		27.8	20.25		ug/Kg	☼	73	59 - 131
Perfluorononanoic acid	ND		27.8	21.81		ug/Kg	☼	78	61 - 134
Perfluorodecanoic acid	ND		27.8	21.12		ug/Kg	☼	76	56 - 133
Perfluorotridecanoic acid	ND		27.8	22.37		ug/Kg	☼	80	53 - 143
Perfluorotetradecanoic acid	ND		27.8	20.21		ug/Kg	☼	73	62 - 134
Perfluorobutanesulfonic acid	ND		24.6	19.30		ug/Kg	☼	78	54 - 130
Perfluorohexanesulfonic acid	ND		25.4	18.48		ug/Kg	☼	73	59 - 129
Perfluorooctanesulfonic acid	ND		25.8	19.55		ug/Kg	☼	76	61 - 126
NEtFOSAA	ND		27.8	23.63		ug/Kg	☼	85	57 - 127
NMeFOSAA	ND		27.8	21.54		ug/Kg	☼	77	60 - 134
10:2 FTS	ND		26.8	19.36		ug/Kg	☼	72	46 - 143
Perfluoropentanesulfonic acid	ND		26.1	19.82		ug/Kg	☼	76	57 - 133
Perfluoroheptanesulfonic acid	ND		26.5	19.38		ug/Kg	☼	73	59 - 132
Perfluorononanesulfonic acid	ND		26.7	20.05		ug/Kg	☼	75	60 - 132
Perfluorodecanesulfonic acid	ND		26.8	21.09		ug/Kg	☼	79	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.9	20.14		ug/Kg	☼	75	38 - 145
Perfluorooctanesulfonamide	ND		27.8	21.30		ug/Kg	☼	77	47 - 149
Perfluorohexadecanoic acid	ND		27.8	18.84		ug/Kg	☼	68	38 - 147
Perfluorooctadecanoic acid	ND		27.8	19.86		ug/Kg	☼	71	16 - 160
Perfluorobutanoic acid	ND		27.8	18.86		ug/Kg	☼	68	60 - 128
Perfluoropentanoic acid	ND		27.8	19.31		ug/Kg	☼	69	58 - 134
NMeFOSE	ND		27.8	22.08		ug/Kg	☼	79	60 - 130
NMeFOSA	ND		27.8	23.14		ug/Kg	☼	83	60 - 129
NEtFOSE	ND		27.8	20.91		ug/Kg	☼	75	60 - 126
NEtFOSA	ND		27.8	22.90		ug/Kg	☼	82	60 - 123
HFPODA	ND		27.8	21.05		ug/Kg	☼	76	49 - 135
DONA	ND		26.3	18.60		ug/Kg	☼	71	57 - 137
9Cl-PF3ONS	ND		25.9	19.94		ug/Kg	☼	77	62 - 130
11Cl-PF3OUdS	ND		25.9	19.53		ug/Kg	☼	75	55 - 135
Perfluorododecanoic acid	ND		27.8	21.02		ug/Kg	☼	76	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		26.0	19.76		ug/Kg	☼	76	58 - 131
Perfluoroundecanoic acid	ND		27.8	21.31		ug/Kg	☼	77	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.4	18.58		ug/Kg	☼	70	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.7	21.31		ug/Kg	☼	80	55 - 133

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	131		10 - 200
M2-8:2 FTS	133		15 - 200
M2-6:2 FTS	135		10 - 200
13C5 PFHxA	142		10 - 174
13C4 PFHpA	144		10 - 178
13C8 PFOA	138		26 - 159
13C9 PFNA	132		26 - 165
13C6 PFDA	136		26 - 161
13C7 PFUnA	140		12 - 173
13C2-PFDoDA	136		11 - 166
13C2 PFTeDA	148		10 - 169
13C3 PFBS	141		27 - 179
13C3 PFHxS	152		24 - 171
13C8 PFOS	136		41 - 154
d3-NMeFOSAA	139		10 - 178
d5-NEtFOSAA	133		10 - 193
13C8 FOSA	134		14 - 163
13C4 PFBA	140		28 - 153
13C5 PFPeA	135		24 - 161
d7-N-MeFOSE-M	121		10 - 179
d3-NMePFOSA	114		10 - 175
d9-N-EtFOSE-M	130		10 - 185
d5-NEtPFOSA	117		10 - 180
13C3 HFPO-DA	138		10 - 169

Lab Sample ID: 620-10117-36 MSD
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: 2023-SB-06-0608'
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.1	20.25		ug/Kg	☼	75	59 - 132	0	30
Perfluoroheptanoic acid	ND		27.1	21.10		ug/Kg	☼	78	59 - 137	0	30
Perfluorooctanoic acid	ND		27.1	19.80		ug/Kg	☼	73	59 - 131	2	30
Perfluorononanoic acid	ND		27.1	20.44		ug/Kg	☼	76	61 - 134	6	30
Perfluorodecanoic acid	ND		27.1	20.21		ug/Kg	☼	75	56 - 133	4	30
Perfluorotridecanoic acid	ND		27.1	21.37		ug/Kg	☼	79	53 - 143	5	30
Perfluorotetradecanoic acid	ND		27.1	19.93		ug/Kg	☼	74	62 - 134	1	30
Perfluorobutanesulfonic acid	ND		23.9	19.60		ug/Kg	☼	82	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		24.7	18.39		ug/Kg	☼	75	59 - 129	1	30
Perfluorooctanesulfonic acid	ND		25.0	19.32		ug/Kg	☼	77	61 - 126	1	30
NEtFOSAA	ND		27.1	22.20		ug/Kg	☼	82	57 - 127	6	30
NMeFOSAA	ND		27.1	21.98		ug/Kg	☼	81	60 - 134	2	30
10:2 FTS	ND		26.1	22.61		ug/Kg	☼	87	46 - 143	15	30
Perfluoropentanesulfonic acid	ND		25.4	19.77		ug/Kg	☼	78	57 - 133	0	30
Perfluoroheptanesulfonic acid	ND		25.8	19.56		ug/Kg	☼	76	59 - 132	1	30
Perfluorononanesulfonic acid	ND		26.0	18.48		ug/Kg	☼	71	60 - 132	8	30
Perfluorodecanesulfonic acid	ND		26.1	19.52		ug/Kg	☼	75	57 - 132	8	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.2	19.26		ug/Kg	☼	74	38 - 145	5	30
Perfluorooctanesulfonamide	ND		27.1	20.52		ug/Kg	☼	76	47 - 149	4	30
Perfluorohexadecanoic acid	ND		27.1	18.23		ug/Kg	☼	67	38 - 147	3	30
Perfluorooctadecanoic acid	ND		27.1	19.64		ug/Kg	☼	73	16 - 160	1	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10117-36 MSD
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: 2023-SB-06-0608'
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid	ND		27.1	18.53		ug/Kg	☼	68	60 - 128	2	30
Perfluoropentanoic acid	ND		27.1	19.03		ug/Kg	☼	70	58 - 134	1	30
NMeFOSE	ND		27.1	21.59		ug/Kg	☼	80	60 - 130	2	30
NMeFOSA	ND		27.1	21.75		ug/Kg	☼	80	60 - 129	6	30
NEtFOSE	ND		27.1	20.74		ug/Kg	☼	77	60 - 126	1	30
NEtFOSA	ND		27.1	22.49		ug/Kg	☼	83	60 - 123	2	30
HFPODA	ND		27.1	25.62		ug/Kg	☼	95	49 - 135	20	30
DONA	ND		25.6	19.56		ug/Kg	☼	77	57 - 137	5	30
9Cl-PF3ONS	ND		25.2	19.36		ug/Kg	☼	77	62 - 130	3	30
11Cl-PF3OUdS	ND		25.2	18.72		ug/Kg	☼	74	55 - 135	4	30
Perfluorododecanoic acid	ND		27.1	20.64		ug/Kg	☼	76	60 - 135	2	30
4:2 Fluorotelomer sulfonic acid	ND		25.3	19.20		ug/Kg	☼	76	58 - 131	3	30
Perfluoroundecanoic acid	ND		27.1	19.93		ug/Kg	☼	74	60 - 134	7	30
6:2 Fluorotelomer sulfonic acid	ND		25.7	19.75		ug/Kg	☼	77	59 - 135	6	30
8:2 Fluorotelomer sulfonic acid	ND		25.9	24.94		ug/Kg	☼	96	55 - 133	16	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*133*		*10 - 200*
M2-8:2 FTS	*118*		*15 - 200*
M2-6:2 FTS	*127*		*10 - 200*
13C5 PFHxA	*144*		*10 - 174*
13C4 PFHpA	*143*		*10 - 178*
13C8 PFOA	*143*		*26 - 159*
13C9 PFNA	*138*		*26 - 165*
13C6 PFDA	*145*		*26 - 161*
13C7 PFUnA	*147*		*12 - 173*
13C2-PFDoDA	*140*		*11 - 166*
13C2 PFTeDA	*154*		*10 - 169*
13C3 PFBS	*136*		*27 - 179*
13C3 PFHxS	*149*		*24 - 171*
13C8 PFOS	*142*		*41 - 154*
d3-NMeFOSAA	*137*		*10 - 178*
d5-NEtFOSAA	*144*		*10 - 193*
13C8 FOSA	*135*		*14 - 163*
13C4 PFBA	*141*		*28 - 153*
13C5 PFPeA	*138*		*24 - 161*
d7-N-MeFOSE-M	*130*		*10 - 179*
d3-NMePFOSA	*113*		*10 - 175*
d9-N-EtFOSE-M	*136*		*10 - 185*
d5-NEtPFOSA	*110*		*10 - 180*
13C3 HFPO-DA	*120*		*10 - 169*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-350840/1-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Zinc	ND	^5-	2.00	0.800	mg/Kg		03/07/23 07:56	03/08/23 20:24	1

Lab Sample ID: LCS 410-350840/2-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.625		mg/Kg		96	80 - 120
Arsenic	50.0	47.71		mg/Kg		95	80 - 120
Barium	50.0	49.21		mg/Kg		98	80 - 120
Beryllium	5.00	5.004		mg/Kg		100	80 - 120
Cadmium	5.00	4.922		mg/Kg		98	80 - 120
Chromium	50.0	49.83		mg/Kg		100	80 - 120
Lead	5.00	5.383		mg/Kg		108	80 - 120
Nickel	50.0	50.00		mg/Kg		100	80 - 120
Selenium	10.0	9.752		mg/Kg		98	80 - 120
Silver	5.00	5.211	^3+	mg/Kg		104	80 - 120
Thallium	10.0	10.16		mg/Kg		102	80 - 120
Vanadium	50.0	48.63		mg/Kg		97	80 - 120
Zinc	50.0	47.36	^5-	mg/Kg		95	80 - 120

Lab Sample ID: MB 410-351011/1-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 13:12	03/09/23 07:34	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351011/1-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 13:12	03/09/23 07:34	1
Zinc	ND		2.00	0.800	mg/Kg		03/07/23 13:12	03/09/23 07:34	1

Lab Sample ID: LCS 410-351011/2-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.637		mg/Kg		96	80 - 120
Arsenic	50.0	48.23		mg/Kg		96	80 - 120
Barium	50.0	49.49		mg/Kg		99	80 - 120
Beryllium	5.00	4.966		mg/Kg		99	80 - 120
Cadmium	5.00	4.927		mg/Kg		99	80 - 120
Chromium	50.0	49.28		mg/Kg		99	80 - 120
Lead	5.00	5.525		mg/Kg		111	80 - 120
Nickel	50.0	50.62		mg/Kg		101	80 - 120
Selenium	10.0	9.771		mg/Kg		98	80 - 120
Silver	5.00	5.169	^3+	mg/Kg		103	80 - 120
Thallium	10.0	10.18		mg/Kg		102	80 - 120
Vanadium	50.0	48.42		mg/Kg		97	80 - 120
Zinc	50.0	47.78		mg/Kg		96	80 - 120

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F2	8.24	6.802		mg/Kg	☼	83	75 - 125
Arsenic	3.17	F2	41.2	43.16		mg/Kg	☼	97	75 - 125
Barium	17.6	F1	41.2	103.4	F1	mg/Kg	☼	208	75 - 125
Beryllium	0.348	J	4.12	4.864		mg/Kg	☼	110	75 - 125
Cadmium	ND	F2	4.12	3.766		mg/Kg	☼	91	75 - 125
Chromium	6.59		41.2	54.29		mg/Kg	☼	116	75 - 125
Lead	2.85	F1	4.12	9.338	F1	mg/Kg	☼	157	75 - 125
Nickel	3.47		41.2	45.39		mg/Kg	☼	102	75 - 125
Selenium	ND	F2	8.24	7.277		mg/Kg	☼	88	75 - 125
Silver	ND	F2 ^3+	4.12	4.129	^3+	mg/Kg	☼	100	75 - 125
Thallium	ND	F2 F1	8.24	4.013	F1	mg/Kg	☼	49	75 - 125
Vanadium	9.07	F1	41.2	64.16	F1	mg/Kg	☼	134	75 - 125
Zinc	28.0		41.2	77.58		mg/Kg	☼	120	75 - 125

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F2	11.5	11.12	F2	mg/Kg	☼	97	75 - 125	48	30
Arsenic	3.17	F2	57.5	60.32	F2	mg/Kg	☼	99	75 - 125	33	30
Barium	17.6	F1	57.5	92.54	F1	mg/Kg	☼	130	75 - 125	11	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	0.348	J	5.75	6.236		mg/Kg	☼	102	75 - 125	25	30
Cadmium	ND	F2	5.75	5.525	F2	mg/Kg	☼	96	75 - 125	38	30
Chromium	6.59		57.5	64.86		mg/Kg	☼	101	75 - 125	18	30
Lead	2.85	F1	5.75	9.137		mg/Kg	☼	109	75 - 125	2	30
Nickel	3.47		57.5	60.38		mg/Kg	☼	99	75 - 125	28	30
Selenium	ND	F2	11.5	11.33	F2	mg/Kg	☼	98	75 - 125	44	30
Silver	ND	F2 ^3+	5.75	5.936	^3+ F2	mg/Kg	☼	103	75 - 125	36	30
Thallium	ND	F2 F1	11.5	9.074	F2	mg/Kg	☼	79	75 - 125	77	30
Vanadium	9.07	F1	57.5	69.53		mg/Kg	☼	105	75 - 125	8	30
Zinc	28.0		57.5	82.65		mg/Kg	☼	95	75 - 125	6	30

Lab Sample ID: 620-10117-18 DU
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351011

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	ND	F2		ND		mg/Kg	☼			NC	30
Arsenic	3.17	F2		3.125	J	mg/Kg	☼			2	30
Barium	17.6	F1		18.83		mg/Kg	☼			7	30
Beryllium	0.348	J		0.2824	J	mg/Kg	☼			21	30
Cadmium	ND	F2		ND		mg/Kg	☼			NC	30
Chromium	6.59			6.043		mg/Kg	☼			9	30
Lead	2.85	F1		2.363		mg/Kg	☼			19	30
Nickel	3.47			2.606		mg/Kg	☼			28	30
Selenium	ND	F2		ND		mg/Kg	☼			NC	30
Silver	ND	F2 ^3+		ND	^3+	mg/Kg	☼			NC	30
Thallium	ND	F2 F1		ND		mg/Kg	☼			NC	30
Vanadium	9.07	F1		9.122		mg/Kg	☼			0.6	30
Zinc	28.0			17.16	F3	mg/Kg	☼			48	30

Lab Sample ID: MB 410-351165/1-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 19:52	03/09/23 05:39	1
Zinc	ND		2.00	0.800	mg/Kg		03/07/23 19:52	03/09/23 05:39	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-351165/2-A
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.898		mg/Kg		99	80 - 120
Arsenic	50.0	48.98		mg/Kg		98	80 - 120
Barium	50.0	49.28		mg/Kg		99	80 - 120
Beryllium	5.00	4.981		mg/Kg		100	80 - 120
Cadmium	5.00	4.938		mg/Kg		99	80 - 120
Chromium	50.0	49.77		mg/Kg		100	80 - 120
Lead	5.00	5.429		mg/Kg		109	80 - 120
Nickel	50.0	50.60		mg/Kg		101	80 - 120
Selenium	10.0	9.886		mg/Kg		99	80 - 120
Silver	5.00	5.302	^3+	mg/Kg		106	80 - 120
Thallium	10.0	10.07		mg/Kg		101	80 - 120
Vanadium	50.0	48.49		mg/Kg		97	80 - 120
Zinc	50.0	48.29		mg/Kg		97	80 - 120

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		8.10	7.567		mg/Kg	☼	93	75 - 125
Arsenic	1.43	J	40.5	39.53		mg/Kg	☼	94	75 - 125
Barium	26.3	F2	40.5	59.22		mg/Kg	☼	81	75 - 125
Beryllium	0.285	J	4.05	4.196		mg/Kg	☼	97	75 - 125
Cadmium	ND		4.05	3.848		mg/Kg	☼	95	75 - 125
Chromium	5.42		40.5	46.84		mg/Kg	☼	102	75 - 125
Lead	4.16		4.05	8.028		mg/Kg	☼	96	75 - 125
Nickel	2.81		40.5	44.53		mg/Kg	☼	103	75 - 125
Selenium	ND	F2	8.10	7.700		mg/Kg	☼	95	75 - 125
Silver	ND	^3+	4.05	3.984	^3+	mg/Kg	☼	98	75 - 125
Thallium	ND		8.10	6.957		mg/Kg	☼	86	75 - 125
Vanadium	6.68		40.5	47.10		mg/Kg	☼	100	75 - 125
Zinc	44.1		40.5	78.53		mg/Kg	☼	85	75 - 125

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		10.5	9.755		mg/Kg	☼	93	75 - 125	25	30
Arsenic	1.43	J	52.7	52.40		mg/Kg	☼	97	75 - 125	28	30
Barium	26.3	F2	52.7	85.32	F2	mg/Kg	☼	112	75 - 125	36	30
Beryllium	0.285	J	5.27	5.478		mg/Kg	☼	99	75 - 125	27	30
Cadmium	ND		5.27	5.060		mg/Kg	☼	96	75 - 125	27	30
Chromium	5.42		52.7	57.76		mg/Kg	☼	99	75 - 125	21	30
Lead	4.16		5.27	10.53		mg/Kg	☼	121	75 - 125	27	30
Nickel	2.81		52.7	54.48		mg/Kg	☼	98	75 - 125	20	30
Selenium	ND	F2	10.5	10.85	F2	mg/Kg	☼	103	75 - 125	34	30
Silver	ND	^3+	5.27	5.336	^3+	mg/Kg	☼	101	75 - 125	29	30
Thallium	ND		10.5	8.727		mg/Kg	☼	83	75 - 125	23	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium	6.68		52.7	58.36		mg/Kg	☼	98	75 - 125	21	30
Zinc	44.1		52.7	93.58		mg/Kg	☼	94	75 - 125	17	30

Lab Sample ID: 620-10117-43 DU
Matrix: Solid
Analysis Batch: 351911

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351165

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	1.43	J	ND		mg/Kg	☼	NC	30
Barium	26.3	F2	27.12		mg/Kg	☼	3	30
Beryllium	0.285	J	0.2569	J	mg/Kg	☼	10	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	5.42		5.084		mg/Kg	☼	6	30
Lead	4.16		4.106		mg/Kg	☼	1	30
Nickel	2.81		2.671		mg/Kg	☼	5	30
Selenium	ND	F2	ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30
Vanadium	6.68		6.443		mg/Kg	☼	4	30
Zinc	44.1		40.09		mg/Kg	☼	10	30

Lab Sample ID: MB 410-351221/1-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Barium	ND		0.500	0.150	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Beryllium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Lead	ND		1.50	0.600	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Zinc	ND		2.00	0.800	mg/Kg		03/08/23 00:33	03/10/23 02:42	1

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.640		mg/Kg		96	80 - 120
Arsenic	50.0	50.46		mg/Kg		101	80 - 120
Barium	50.0	50.72		mg/Kg		101	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	5.00	4.958		mg/Kg		99	80 - 120
Cadmium	5.00	4.901		mg/Kg		98	80 - 120
Chromium	50.0	51.79		mg/Kg		104	80 - 120
Lead	5.00	5.429		mg/Kg		109	80 - 120
Nickel	50.0	50.07		mg/Kg		100	80 - 120
Selenium	10.0	9.637		mg/Kg		96	80 - 120
Silver	5.00	5.267	^3+	mg/Kg		105	80 - 120
Thallium	10.0	10.00		mg/Kg		100	80 - 120
Vanadium	50.0	49.21		mg/Kg		98	80 - 120
Zinc	50.0	48.91		mg/Kg		98	80 - 120

Lab Sample ID: 620-10117-17 MS
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	10.1	6.459	F1	mg/Kg	☼	64	75 - 125
Arsenic	7.90		50.4	54.07		mg/Kg	☼	92	75 - 125
Barium	80.1	F1	50.4	164.6	F1	mg/Kg	☼	168	75 - 125
Beryllium	1.17		5.04	6.372		mg/Kg	☼	103	75 - 125
Cadmium	ND		5.04	4.160		mg/Kg	☼	83	75 - 125
Chromium	21.4		50.4	76.83		mg/Kg	☼	110	75 - 125
Lead	7.35	F1	5.04	14.26	F1	mg/Kg	☼	137	75 - 125
Nickel	10.9		50.4	57.95		mg/Kg	☼	94	75 - 125
Selenium	ND		10.1	9.038		mg/Kg	☼	90	75 - 125
Silver	ND	^3+	5.04	5.086	^3+	mg/Kg	☼	101	75 - 125
Vanadium	34.9		50.4	94.67		mg/Kg	☼	119	75 - 125
Zinc	47.7		50.4	106.5		mg/Kg	☼	117	75 - 125

Lab Sample ID: 620-10117-17 MS
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		10.1	ND		mg/Kg	☼	NC	75 - 125

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	10.3	6.604	F1	mg/Kg	☼	64	75 - 125	2	30
Arsenic	7.90		51.7	56.28		mg/Kg	☼	94	75 - 125	4	30
Barium	80.1	F1	51.7	172.1	F1	mg/Kg	☼	178	75 - 125	4	30
Beryllium	1.17		5.17	6.630		mg/Kg	☼	106	75 - 125	4	30
Cadmium	ND		5.17	4.317		mg/Kg	☼	84	75 - 125	4	30
Chromium	21.4		51.7	79.27		mg/Kg	☼	112	75 - 125	3	30
Lead	7.35	F1	5.17	15.28	F1	mg/Kg	☼	153	75 - 125	7	30
Nickel	10.9		51.7	60.02		mg/Kg	☼	95	75 - 125	4	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	ND		10.3	8.715		mg/Kg	☼	84	75 - 125	4	30
Silver	ND	^3+	5.17	5.070	^3+	mg/Kg	☼	98	75 - 125	0	30
Vanadium	34.9		51.7	98.83		mg/Kg	☼	124	75 - 125	4	30
Zinc	47.7		51.7	111.0		mg/Kg	☼	123	75 - 125	4	30

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	ND		10.3	ND		mg/Kg	☼	NC	75 - 125	NC	30

Lab Sample ID: 620-10117-17 DU
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND	F1	ND		mg/Kg	☼	NC	30
Arsenic	7.90		9.021		mg/Kg	☼	13	30
Barium	80.1	F1	87.09		mg/Kg	☼	8	30
Beryllium	1.17		1.359		mg/Kg	☼	15	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	21.4		23.68		mg/Kg	☼	10	30
Lead	7.35	F1	11.60	F3	mg/Kg	☼	45	30
Nickel	10.9		12.29		mg/Kg	☼	12	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Vanadium	34.9		40.07		mg/Kg	☼	14	30
Zinc	47.7		52.59		mg/Kg	☼	10	30

Lab Sample ID: 620-10117-17 DU
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	ND		ND		mg/Kg	☼	NC	30

Lab Sample ID: MB 410-353918/1-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Arsenic	ND		3.00	1.40	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Barium	ND		0.500	0.150	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Beryllium	ND		0.500	0.100	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Cadmium	ND		0.500	0.100	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Chromium	ND		1.50	0.350	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Lead	ND		1.50	0.600	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Nickel	ND		1.00	0.260	mg/Kg		03/15/23 14:43	03/16/23 15:41	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-353918/1-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.00	1.50	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Silver	ND		1.00	0.400	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Thallium	ND		3.00	1.30	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Vanadium	ND		1.00	0.430	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Zinc	ND		2.00	0.800	mg/Kg		03/15/23 14:43	03/16/23 15:41	1

Lab Sample ID: LCS 410-353918/2-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.15		mg/Kg		101	80 - 120
Arsenic	50.0	48.41		mg/Kg		97	80 - 120
Barium	50.0	49.24		mg/Kg		98	80 - 120
Beryllium	5.00	4.832		mg/Kg		97	80 - 120
Cadmium	5.00	5.023		mg/Kg		100	80 - 120
Chromium	50.0	50.35		mg/Kg		101	80 - 120
Lead	5.00	4.082		mg/Kg		82	80 - 120
Nickel	50.0	50.61		mg/Kg		101	80 - 120
Selenium	10.0	10.06		mg/Kg		101	80 - 120
Silver	5.00	4.697		mg/Kg		94	80 - 120
Thallium	10.0	10.57		mg/Kg		106	80 - 120
Vanadium	50.0	49.39		mg/Kg		99	80 - 120
Zinc	50.0	47.49		mg/Kg		95	80 - 120

Lab Sample ID: 620-10117-41 MS
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		10.4	8.882		mg/Kg	☼	85	75 - 125
Arsenic	2.32	J	52.1	50.55		mg/Kg	☼	93	75 - 125
Barium	57.0		52.1	108.4		mg/Kg	☼	99	75 - 125
Beryllium	0.267	J	5.21	5.213		mg/Kg	☼	95	75 - 125
Cadmium	ND		5.21	5.183		mg/Kg	☼	100	75 - 125
Chromium	4.50		52.1	55.35		mg/Kg	☼	98	75 - 125
Lead	26.8		5.21	26.55	4	mg/Kg	☼	-5	75 - 125
Nickel	3.30		52.1	53.26		mg/Kg	☼	96	75 - 125
Selenium	ND		10.4	8.993		mg/Kg	☼	86	75 - 125
Silver	ND		5.21	4.859		mg/Kg	☼	93	75 - 125
Thallium	ND		10.4	11.29		mg/Kg	☼	108	75 - 125
Vanadium	5.90		52.1	56.89		mg/Kg	☼	98	75 - 125
Zinc	81.0		52.1	126.4		mg/Kg	☼	87	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10117-41 MSD
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		10.7	9.644		mg/Kg	☼	90	75 - 125	8	30
Arsenic	2.32	J	53.6	50.68		mg/Kg	☼	90	75 - 125	0	30
Barium	57.0		53.6	106.5		mg/Kg	☼	92	75 - 125	2	30
Beryllium	0.267	J	5.36	5.298		mg/Kg	☼	94	75 - 125	2	30
Cadmium	ND		5.36	5.335		mg/Kg	☼	100	75 - 125	3	30
Chromium	4.50		53.6	57.16		mg/Kg	☼	98	75 - 125	3	30
Lead	26.8		5.36	26.21	4	mg/Kg	☼	-11	75 - 125	1	30
Nickel	3.30		53.6	54.67		mg/Kg	☼	96	75 - 125	3	30
Selenium	ND		10.7	8.745		mg/Kg	☼	82	75 - 125	3	30
Silver	ND		5.36	4.862		mg/Kg	☼	91	75 - 125	0	30
Thallium	ND		10.7	11.27		mg/Kg	☼	105	75 - 125	0	30
Vanadium	5.90		53.6	57.42		mg/Kg	☼	96	75 - 125	1	30
Zinc	81.0		53.6	127.2		mg/Kg	☼	86	75 - 125	1	30

Lab Sample ID: 620-10117-41 DU
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	2.32	J	2.281	J	mg/Kg	☼	2	30
Barium	57.0		64.16		mg/Kg	☼	12	30
Beryllium	0.267	J	0.2419	J	mg/Kg	☼	10	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	4.50		3.492		mg/Kg	☼	25	30
Lead	26.8		20.13		mg/Kg	☼	29	30
Nickel	3.30		2.696		mg/Kg	☼	20	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND		ND		mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30
Vanadium	5.90		5.333		mg/Kg	☼	10	30
Zinc	81.0		74.02		mg/Kg	☼	9	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-351012/1-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/07/23 13:21	03/08/23 10:58	1

Lab Sample ID: LCS 410-351012/2-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1096		mg/Kg		110	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 620-10117-18 MS
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.187	0.2174		mg/Kg	☼	116	75 - 125

Lab Sample ID: 620-10117-18 MSD
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.179	0.2019		mg/Kg	☼	113	75 - 125	7	35

Lab Sample ID: 620-10117-18 DU
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-12-1012'
Prep Type: Total/NA
Prep Batch: 351012

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-351182/1-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/07/23 20:58	03/08/23 11:59	1

Lab Sample ID: LCS 410-351182/2-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1124		mg/Kg		112	80 - 120

Lab Sample ID: 620-10117-43 MS
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.183	0.2167		mg/Kg	☼	118	75 - 125

Lab Sample ID: 620-10117-43 MSD
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.192	0.2232		mg/Kg	☼	116	75 - 125	3	35

Lab Sample ID: 620-10117-43 DU
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: 2023-SB-05-0406'
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-351222/1-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 00:46	03/09/23 07:20	1

Lab Sample ID: LCS 410-351222/2-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1139		mg/Kg		114	80 - 120

Lab Sample ID: 620-10117-17 MS
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND	F1	0.190	0.2503	F1	mg/Kg	☼	131	75 - 125

Lab Sample ID: 620-10117-17 MSD
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND	F1	0.190	0.2114		mg/Kg	☼	111	75 - 125	17	35

Lab Sample ID: 620-10117-17 DU
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SB-12-0810'
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND	F1	0.03337	J	mg/Kg	☼	NC	50

Lab Sample ID: MB 410-351223/1-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 00:50	03/09/23 08:52	1

Lab Sample ID: LCS 410-351223/2-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1132		mg/Kg		113	80 - 120

Lab Sample ID: 620-10117-14 MS
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-SB-12-0204'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.186	0.2020		mg/Kg	☼	108	75 - 125

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 620-10117-14 MSD
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-SB-12-0204'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.186	0.2076		mg/Kg	☼	111	75 - 125	3	35

Lab Sample ID: 620-10117-14 DU
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-SB-12-0204'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-353921/1-A
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/15/23 14:55	03/16/23 13:02	1

Lab Sample ID: LCS 410-353921/2-A
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1101		mg/Kg		110	80 - 120

Lab Sample ID: 620-10117-41 MS
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0411	J	0.181	0.2346		mg/Kg	☼	107	75 - 125

Lab Sample ID: 620-10117-41 MSD
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0411	J	0.184	0.2295		mg/Kg	☼	102	75 - 125	2	35

Lab Sample ID: 620-10117-41 DU
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: 2023-SB-05-0002'
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0411	J	0.04200	J	mg/Kg	☼	2	50

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10117-1 DU
Matrix: Solid
Analysis Batch: 20297

Client Sample ID: 2023-MW-06-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.6		9.4		%		2	5
Percent Solids	90.4		90.6		%		0.2	5

Lab Sample ID: 620-10117-6 DU
Matrix: Solid
Analysis Batch: 20297

Client Sample ID: 2023-MW-06-1012'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	19.8		20.9	F3	%		6	5
Percent Solids	80.2		79.1		%		1	5

Lab Sample ID: 620-10117-7 DU
Matrix: Solid
Analysis Batch: 20298

Client Sample ID: 2023-SB-08-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.6		12.0	F3	%		33	5
Percent Solids	91.4		88.0		%		4	5

Lab Sample ID: 620-10117-8 DU
Matrix: Solid
Analysis Batch: 20298

Client Sample ID: 2023-SB-08-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	3.3		2.4	F3	%		34	5
Percent Solids	96.7		97.6		%		1	5

Lab Sample ID: 620-10117-33 DU
Matrix: Solid
Analysis Batch: 20298

Client Sample ID: 2023-SB-06-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.4		12.6	F3	%		14	5
Percent Solids	85.6		87.4		%		2	5

Lab Sample ID: 620-10117-34 DU
Matrix: Solid
Analysis Batch: 20299

Client Sample ID: 2023-SB-06-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17.1		16.1	F3	%		6	5
Percent Solids	82.9		83.9		%		1	5

Lab Sample ID: 620-10117-46 DU
Matrix: Solid
Analysis Batch: 20299

Client Sample ID: 2023-SB-05-1012'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.7		15.9		%		1	5
Percent Solids	84.3		84.1		%		0.3	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC/MS VOA

Pre Prep Batch: 20275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-11 - RA	2023-SB-08-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-12 - RA	2023-SB-08-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-18 - RA	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-21 - RA	2023-SB-07-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	Frozen Preserve	

GC/MS VOA (Continued)

Pre Prep Batch: 20275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-30 - RA	2023-MW-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-31	2023-FD-06	Total/NA	Solid	Frozen Preserve	
620-10117-32	2023-FD-07	Total/NA	Solid	Frozen Preserve	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-39	Trip Blank -05	Total/NA	Solid	Frozen Preserve	
620-10117-40	Trip Blank -06	Total/NA	Solid	Frozen Preserve	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-41 - RA	2023-SB-05-0002'	Total/NA	Solid	Frozen Preserve	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	Frozen Preserve	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	Frozen Preserve	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	Frozen Preserve	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	Frozen Preserve	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	Frozen Preserve	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	5035	20275

GC/MS VOA (Continued)

Prep Batch: 20327 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	5035	20275
MB 620-20327/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	8260C	20327
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	8260C	20327
MB 620-20327/3-A	Method Blank	Total/NA	Solid	8260C	20327
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	8260C	20327
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20327

Prep Batch: 20360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	5035	20275
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	5035	20275
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	5035	20275
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	5035	20275
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	5035	20275
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	5035	20275
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	5035	20275
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	5035	20275
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	5035	20275
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	5035	20275
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	5035	20275
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	5035	20275
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	5035	20275
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	5035	20275
MB 620-20360/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20360/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20360/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	8260C	20360
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	8260C	20360
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	8260C	20360
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	8260C	20360
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	8260C	20360
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	8260C	20360
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	8260C	20360
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	8260C	20360
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	8260C	20360
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	8260C	20360
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	8260C	20360
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8260C	20360
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	8260C	20360
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8260C	20360
MB 620-20360/3-A	Method Blank	Total/NA	Solid	8260C	20360
LCS 620-20360/1-A	Lab Control Sample	Total/NA	Solid	8260C	20360

GC/MS VOA (Continued)

Analysis Batch: 20361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 620-20360/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20360

Analysis Batch: 20396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	8260C	20408
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	8260C	20408
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	8260C	20408
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8260C	20408
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	8260C	20408
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	8260C	20408
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	8260C	20408
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	8260C	20408
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	8260C	20408
620-10117-31	2023-FD-06	Total/NA	Solid	8260C	20408
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	8260C	20408
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8260C	20408
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	8260C	20408
MB 620-20408/3-A	Method Blank	Total/NA	Solid	8260C	20408
LCS 620-20408/1-A	Lab Control Sample	Total/NA	Solid	8260C	20408
LCSD 620-20408/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20408

Prep Batch: 20408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	5035	20275
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	5035	20275
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	5035	20275
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	5035	20275
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	5035	20275
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	5035	20275
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	5035	20275
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	5035	20275
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	5035	20275
620-10117-31	2023-FD-06	Total/NA	Solid	5035	20275
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	5035	20275
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	5035	20275
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	5035	20275
MB 620-20408/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20408/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20408/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 20432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	5035	20275
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	5035	20275
620-10117-11 - RA	2023-SB-08-0810'	Total/NA	Solid	5035	20275
620-10117-12 - RA	2023-SB-08-1012'	Total/NA	Solid	5035	20275
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	5035	20275
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	5035	20275
620-10117-21 - RA	2023-SB-07-0406'	Total/NA	Solid	5035	20275
620-10117-30 - RA	2023-MW-05-0406'	Total/NA	Solid	5035	20275
620-10117-32	2023-FD-07	Total/NA	Solid	5035	20275

GC/MS VOA (Continued)

Prep Batch: 20432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	5035	20275
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	5035	20275
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	5035	20275
620-10117-39	Trip Blank -05	Total/NA	Solid	5035	20275
620-10117-40	Trip Blank -06	Total/NA	Solid	5035	20275
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	5035	20275
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	5035	20275
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	5035	20275
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	5035	20275
MB 620-20432/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20432/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20432/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	8260C	20432
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	8260C	20432
620-10117-11 - RA	2023-SB-08-0810'	Total/NA	Solid	8260C	20432
620-10117-12 - RA	2023-SB-08-1012'	Total/NA	Solid	8260C	20432
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8260C	20432
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	8260C	20432
620-10117-21 - RA	2023-SB-07-0406'	Total/NA	Solid	8260C	20432
620-10117-30 - RA	2023-MW-05-0406'	Total/NA	Solid	8260C	20432
620-10117-32	2023-FD-07	Total/NA	Solid	8260C	20432
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	8260C	20432
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	8260C	20432
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	8260C	20432
620-10117-39	Trip Blank -05	Total/NA	Solid	8260C	20432
620-10117-40	Trip Blank -06	Total/NA	Solid	8260C	20432
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	8260C	20432
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	8260C	20432
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	8260C	20432
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	8260C	20432
MB 620-20432/3-A	Method Blank	Total/NA	Solid	8260C	20432
LCS 620-20432/1-A	Lab Control Sample	Total/NA	Solid	8260C	20432
LCSD 620-20432/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20432

Prep Batch: 20472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	5035	20275
620-10117-41 - RA	2023-SB-05-0002'	Total/NA	Solid	5035	20275
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	5035	20275
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	5035	20275
MB 620-20472/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20472/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20472/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	5035	20275
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	5035	20275
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	5035	20275
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	5035	20275

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC/MS VOA

Analysis Batch: 20473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	8260C	20472
620-10117-41 - RA	2023-SB-05-0002'	Total/NA	Solid	8260C	20472
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	8260C	20472
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	8260C	20472
MB 620-20472/3-A	Method Blank	Total/NA	Solid	8260C	20472
LCS 620-20472/1-A	Lab Control Sample	Total/NA	Solid	8260C	20472
LCSD 620-20472/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20472
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	8260C	20472
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	8260C	20472
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	8260C	20472
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	8260C	20472

Prep Batch: 20516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18 - RA	2023-SB-12-1012'	Total/NA	Solid	5035	20275
MB 620-20516/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-18 - RA	2023-SB-12-1012'	Total/NA	Solid	8260C	20516
MB 620-20516/3-A	Method Blank	Total/NA	Solid	8260C	20516
LCS 620-20516/1-A	Lab Control Sample	Total/NA	Solid	8260C	20516
LCSD 620-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20516

GC/MS Semi VOA

Prep Batch: 20475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	3546	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	3546	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	3546	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	3546	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	3546	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	3546	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	3546	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	3546	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	3546	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	3546	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	3546	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	3546	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	3546	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	3546	
MB 620-20475/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20475/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20475/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20475/1-A	Method Blank	Total/NA	Solid	8270D	20475

GC/MS Semi VOA (Continued)

Analysis Batch: 20495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 620-20475/2-A	Lab Control Sample	Total/NA	Solid	8270D	20475
LCSD 620-20475/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20475

Analysis Batch: 20503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	8270D	20475
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	8270D	20475
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	8270D	20475
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	8270D	20475
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	8270D	20475
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	8270D	20475
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	8270D	20475
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	8270D	20475
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	8270D	20475
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	8270D	20475
MB 620-20520/1-A	Method Blank	Total/NA	Solid	8270D	20520
LCS 620-20520/2-A	Lab Control Sample	Total/NA	Solid	8270D	20520
LCSD 620-20520/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20520

Prep Batch: 20520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	3546	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	3546	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	3546	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	3546	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	3546	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	3546	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	3546	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	3546	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	3546	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	3546	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	3546	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	3546	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	3546	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	3546	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	3546	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	3546	
620-10117-31	2023-FD-06	Total/NA	Solid	3546	
620-10117-32	2023-FD-07	Total/NA	Solid	3546	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	3546	
MB 620-20520/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20520/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20520/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	3546	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	3546	

Prep Batch: 20546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	3546	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	3546	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 20546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	3546	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	3546	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	3546	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	3546	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	3546	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	3546	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	3546	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	3546	
MB 620-20546/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	3546	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	3546	

Analysis Batch: 20556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	8270D	20475
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	8270D	20475
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8270D	20475
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	8270D	20475
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	8270D	20520
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	8270D	20520
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	8270D	20520
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	8270D	20520
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8270D	20520
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	8270D	20520
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	8270D	20546
MB 620-20546/1-A	Method Blank	Total/NA	Solid	8270D	20546
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	8270D	20546
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20546
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	8270D	20520
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	8270D	20520
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	8270D	20546
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	8270D	20546

Analysis Batch: 20590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8270D	20475
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8270D	20520
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8270D	20520
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	8270D	20520
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	8270D	20520
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	8270D	20520
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8270D	20520
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	8270D	20520
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	8270D	20520
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	8270D	20520
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	8270D	20520
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	8270D	20520
620-10117-31	2023-FD-06	Total/NA	Solid	8270D	20520
620-10117-31	2023-FD-06	Total/NA	Solid	8270D	20520

GC/MS Semi VOA (Continued)

Analysis Batch: 20590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-32	2023-FD-07	Total/NA	Solid	8270D	20520
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8270D	20546
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	8270D	20546
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	8270D	20546
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	8270D	20546
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	8270D	20546
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	8270D	20546
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	8270D	20546
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	8270D	20546

Analysis Batch: 20626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8270D	20520
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8270D	20520
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	8270D	20520
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8270D	20546
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	8270D	20546
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	8270D	20546

GC VOA

Prep Batch: 660655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	5035A_H	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	5035A_H	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	5035A_H	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	5035A_H	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	5035A_H	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	5035A_H	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	5035A_H	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	5035A_H	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	5035A_H	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	5035A_H	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	5035A_H	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	5035A_H	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	5035A_H	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	5035A_H	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	5035A_H	
MB 480-660655/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660655/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660655/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 660658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	MAVPH	660655
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	MAVPH	660655
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	MAVPH	660655
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	MAVPH	660655
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	MAVPH	660655
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	MAVPH	660655
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	MAVPH	660655

GC VOA (Continued)

Analysis Batch: 660658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	MAVPH	660655
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	MAVPH	660655
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	MAVPH	660655
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	MAVPH	660655
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	MAVPH	660655
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	MAVPH	660655
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	MAVPH	660655
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	MAVPH	660655
MB 480-660655/1-A	Method Blank	Total/NA	Solid	MAVPH	660655
LCS 480-660655/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660655
LCSD 480-660655/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660655

Prep Batch: 660799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	5035A_H	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	5035A_H	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	5035A_H	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	5035A_H	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	5035A_H	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	5035A_H	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	5035A_H	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	5035A_H	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	5035A_H	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	5035A_H	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	5035A_H	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	5035A_H	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	5035A_H	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	5035A_H	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	5035A_H	
620-10117-31	2023-FD-06	Total/NA	Solid	5035A_H	
620-10117-32	2023-FD-07	Total/NA	Solid	5035A_H	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	5035A_H	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	5035A_H	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	5035A_H	
MB 480-660799/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660799/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660799/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	5035A_H	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	5035A_H	

Analysis Batch: 660808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	MAVPH	660799
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	MAVPH	660799
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	MAVPH	660799
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	MAVPH	660799
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	MAVPH	660799
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	MAVPH	660799
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	MAVPH	660799
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	MAVPH	660799
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	MAVPH	660799

GC VOA (Continued)

Analysis Batch: 660808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	MAVPH	660799
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	MAVPH	660799
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	MAVPH	660799
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	MAVPH	660799
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	MAVPH	660799
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	MAVPH	660799
620-10117-31	2023-FD-06	Total/NA	Solid	MAVPH	660799
620-10117-32	2023-FD-07	Total/NA	Solid	MAVPH	660799
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	MAVPH	660799
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	MAVPH	660799
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	MAVPH	660799
MB 480-660799/1-A	Method Blank	Total/NA	Solid	MAVPH	660799
LCS 480-660799/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660799
LCSD 480-660799/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660799
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	MAVPH	660799
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	MAVPH	660799

Analysis Batch: 660809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	MA VPH SUM	

Prep Batch: 660942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	5035A_H	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	5035A_H	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	5035A_H	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	5035A_H	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	5035A_H	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	5035A_H	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	5035A_H	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	5035A_H	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	5035A_H	
MB 480-660942/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	5035A_H	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	5035A_H	

GC VOA

Analysis Batch: 660951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	MAVPH	660942
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	MAVPH	660942
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	MAVPH	660942
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	MAVPH	660942
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	MAVPH	660942
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	MAVPH	660942
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	MAVPH	660942
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	MAVPH	660942
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	MAVPH	660942
MB 480-660942/1-A	Method Blank	Total/NA	Solid	MAVPH	660942
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660942
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660942
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	MAVPH	660942
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	MAVPH	660942

Analysis Batch: 660967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-31	2023-FD-06	Total/NA	Solid	MA VPH SUM	
620-10117-32	2023-FD-07	Total/NA	Solid	MA VPH SUM	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	MA VPH SUM	

Analysis Batch: 661299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	MA VPH SUM	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	MA VPH SUM	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	MA VPH SUM	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	MA VPH SUM	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	MA VPH SUM	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	MA VPH SUM	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	MA VPH SUM	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

GC Semi VOA

Prep Batch: 20414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	3540C	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	3540C	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	3540C	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	3540C	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	3540C	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	3540C	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	3540C	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	3540C	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	3540C	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	3540C	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	3540C	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	3540C	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	3540C	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	3540C	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	3540C	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	3540C	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	3540C	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	3540C	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	3540C	
MB 620-20414/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20414/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20414/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	3540C	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	3540C	

Prep Batch: 20415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	3540C	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	3540C	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	3540C	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	3540C	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	3540C	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	3540C	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	3540C	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	3540C	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	3540C	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	3540C	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	3540C	
620-10117-31	2023-FD-06	Total/NA	Solid	3540C	
620-10117-32	2023-FD-07	Total/NA	Solid	3540C	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	3540C	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	3540C	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	3540C	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	3540C	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	3540C	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	3540C	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	3540C	
MB 620-20415/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20415/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20415/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

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Prep Batch: 20416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	3540C	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	3540C	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	3540C	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	3540C	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	3540C	
MB 620-20416/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	8082	20414
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	8082	20414
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	8082	20414
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	8082	20414
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	8082	20414
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	8082	20414
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	8082	20414
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	8082	20414
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	8082	20414
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	8082	20414
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	8082	20414
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	8082	20414
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	8082	20414
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	8082	20414
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	8082	20414
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	8082	20414
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	8082	20414
MB 620-20414/1-A	Method Blank	Total/NA	Solid	8082	20414
LCS 620-20414/2-A	Lab Control Sample	Total/NA	Solid	8082	20414
LCSD 620-20414/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20414
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	8082	20414
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	8082	20414

Analysis Batch: 20438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	8082	20415
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	8082	20415
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	8082	20415
620-10117-32	2023-FD-07	Total/NA	Solid	8082	20415
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	8082	20415
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	8082	20415
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	8082	20416
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	8082	20416
MB 620-20415/1-A	Method Blank	Total/NA	Solid	8082	20415
MB 620-20416/1-A	Method Blank	Total/NA	Solid	8082	20416
LCS 620-20415/2-A	Lab Control Sample	Total/NA	Solid	8082	20415
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	8082	20416
LCSD 620-20415/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20415
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20416

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

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Analysis Batch: 20476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	8082	20415
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	8082	20415
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	8082	20415
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	8082	20415
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	8082	20415
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	8082	20415
620-10117-31	2023-FD-06	Total/NA	Solid	8082	20415
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	8082	20415
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	8082	20415
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	8082	20415
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	8082	20415
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	8082	20416
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	8082	20416
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	8082	20416

Analysis Batch: 20477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	8082	20414
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	8082	20414

Analysis Batch: 20507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	8082	20415
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	8082	20415
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	8082	20415

Prep Batch: 20535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20535/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20535/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20535/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	3540C	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	3540C	

Analysis Batch: 20557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20535/1-A	Method Blank	Total/NA	Solid	8082	20535
LCS 620-20535/2-A	Lab Control Sample	Total/NA	Solid	8082	20535
LCSD 620-20535/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20535
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	8082	20535
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	8082	20535

LCMS

Prep Batch: 351126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	537 (mod)	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	537 (mod)	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	537 (mod)	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	537 (mod)	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 351126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	537 (mod)	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	537 (mod)	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	537 (mod)	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	537 (mod)	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	537 (mod)	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	537 (mod)	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	537 (mod)	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	537 (mod)	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	537 (mod)	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	537 (mod)	
620-10117-31	2023-FD-06	Total/NA	Solid	537 (mod)	
620-10117-32	2023-FD-07	Total/NA	Solid	537 (mod)	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	537 (mod)	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	537 (mod)	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	537 (mod)	
MB 410-351126/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-351126/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	537 (mod)	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 351199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	Extract Aliquot	351126
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	Extract Aliquot	351126
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	Extract Aliquot	351126
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	Extract Aliquot	351126
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	Extract Aliquot	351126
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	Extract Aliquot	351126
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	Extract Aliquot	351126
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	Extract Aliquot	351126
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	Extract Aliquot	351126
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	Extract Aliquot	351126
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	Extract Aliquot	351126
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	Extract Aliquot	351126
620-10117-31	2023-FD-06	Total/NA	Solid	Extract Aliquot	351126
620-10117-32	2023-FD-07	Total/NA	Solid	Extract Aliquot	351126
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	Extract Aliquot	351126
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	Extract Aliquot	351126
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	Extract Aliquot	351126
MB 410-351126/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351126
LCS 410-351126/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351126
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	Extract Aliquot	351126
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	Extract Aliquot	351126

Prep Batch: 351204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	537 (mod)	
MB 410-351204/1-B	Method Blank	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 351204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-351204/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	537 (mod)	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	537 (mod)	

Prep Batch: 351205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	537 (mod)	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	537 (mod)	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	537 (mod)	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	537 (mod)	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	537 (mod)	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	537 (mod)	
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	537 (mod)	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	537 (mod)	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	537 (mod)	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	537 (mod)	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	537 (mod)	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	537 (mod)	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	537 (mod)	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	537 (mod)	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	537 (mod)	
MB 410-351205/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 351217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	Extract Aliquot	351205
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	Extract Aliquot	351205
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	Extract Aliquot	351205
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	Extract Aliquot	351205
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	Extract Aliquot	351205
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	Extract Aliquot	351205
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	Extract Aliquot	351205
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	Extract Aliquot	351205
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	Extract Aliquot	351205
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	Extract Aliquot	351205
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	Extract Aliquot	351205
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	Extract Aliquot	351205
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	Extract Aliquot	351205
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	Extract Aliquot	351205
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	Extract Aliquot	351205
MB 410-351205/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351205
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351205

Cleanup Batch: 351218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	Extract Aliquot	351204
MB 410-351204/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351204
LCS 410-351204/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351204
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	Extract Aliquot	351204
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	Extract Aliquot	351204

LCMS

Analysis Batch: 353839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-31	2023-FD-06	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-32	2023-FD-07	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	EPA 537 (Mod)	351199
MB 410-351126/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351199
MB 410-351205/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351217
LCS 410-351126/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351199
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351217
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	EPA 537 (Mod)	351199
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	EPA 537 (Mod)	351199

Prep Batch: 355124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	537 (mod)	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	537 (mod)	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	537 (mod)	
MB 410-355124/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-355124/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-44 MS	2023-SB-05-0608'	Total/NA	Solid	537 (mod)	
620-10117-44 MSD	2023-SB-05-0608'	Total/NA	Solid	537 (mod)	

LCMS

Prep Batch: 355125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	537 (mod)	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	537 (mod)	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	537 (mod)	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	537 (mod)	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	537 (mod)	
MB 410-355125/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10117-36 MS	2023-SB-06-0608'	Total/NA	Solid	537 (mod)	
620-10117-36 MSD	2023-SB-06-0608'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 355128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	Extract Aliquot	355125
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	Extract Aliquot	355125
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	Extract Aliquot	355125
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	Extract Aliquot	355125
MB 410-355125/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	355125
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	355125
620-10117-36 MS	2023-SB-06-0608'	Total/NA	Solid	Extract Aliquot	355125
620-10117-36 MSD	2023-SB-06-0608'	Total/NA	Solid	Extract Aliquot	355125

Cleanup Batch: 355130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	Extract Aliquot	355124
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	Extract Aliquot	355124
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	Extract Aliquot	355124
MB 410-355124/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	355124
LCS 410-355124/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	355124
620-10117-44 MS	2023-SB-05-0608'	Total/NA	Solid	Extract Aliquot	355124
620-10117-44 MSD	2023-SB-05-0608'	Total/NA	Solid	Extract Aliquot	355124

Analysis Batch: 355348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	EPA 537 (Mod)	355130
MB 410-355124/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	355130
LCS 410-355124/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-44 MS	2023-SB-05-0608'	Total/NA	Solid	EPA 537 (Mod)	355130
620-10117-44 MSD	2023-SB-05-0608'	Total/NA	Solid	EPA 537 (Mod)	355130

Analysis Batch: 355432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
MB 410-355125/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	355128
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	355128

LCMS (Continued)

Analysis Batch: 355432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-36 MS	2023-SB-06-0608'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10117-36 MSD	2023-SB-06-0608'	Total/NA	Solid	EPA 537 (Mod)	355128

Analysis Batch: 355773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351218
MB 410-351204/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351218
LCS 410-351204/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351218
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351218
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	EPA 537 (Mod)	351218

Metals

Prep Batch: 350840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	3050B	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	3050B	
MB 410-350840/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	3050B	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	3050B	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	3050B	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	3050B	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	3050B	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	3050B	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	3050B	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	3050B	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	3050B	
620-10117-31	2023-FD-06	Total/NA	Solid	3050B	
620-10117-32	2023-FD-07	Total/NA	Solid	3050B	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	3050B	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	3050B	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	3050B	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	3050B	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	3050B	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	3050B	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	3050B	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	3050B	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	3050B	
MB 410-351011/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351011/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	3050B	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	3050B	
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	3050B	

Prep Batch: 351012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	7471A	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	7471A	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	7471A	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	7471A	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	7471A	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	7471A	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	7471A	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	7471A	
620-10117-31	2023-FD-06	Total/NA	Solid	7471A	
620-10117-32	2023-FD-07	Total/NA	Solid	7471A	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	7471A	
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	7471A	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	7471A	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	7471A	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	7471A	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	7471A	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	7471A	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	7471A	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	7471A	
MB 410-351012/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351012/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	7471A	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	7471A	
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	7471A	

Prep Batch: 351165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	3050B	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	3050B	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	3050B	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	3050B	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	3050B	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	3050B	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	3050B	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	3050B	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	3050B	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	3050B	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	3050B	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	3050B	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	3050B	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	3050B	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	3050B	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	3050B	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	3050B	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	3050B	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	3050B	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	3050B	
MB 410-351165/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351165/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	3050B	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 351165 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	3050B	

Prep Batch: 351182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	7471A	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	7471A	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	7471A	
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	7471A	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	7471A	
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	7471A	

Prep Batch: 351221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	3050B	
MB 410-351221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	3050B	
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	3050B	
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	3050B	

Prep Batch: 351222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	7471A	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	7471A	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	7471A	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	7471A	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	7471A	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	7471A	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	7471A	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	7471A	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	7471A	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	7471A	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	7471A	
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	7471A	
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	7471A	
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	7471A	

Prep Batch: 351223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	7471A	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	7471A	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	7471A	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	7471A	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	7471A	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	7471A	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	7471A	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	7471A	
MB 410-351223/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351223/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-14 MS	2023-SB-12-0204'	Total/NA	Solid	7471A	
620-10117-14 MSD	2023-SB-12-0204'	Total/NA	Solid	7471A	
620-10117-14 DU	2023-SB-12-0204'	Total/NA	Solid	7471A	

Analysis Batch: 351485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	7471B	351182
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	7471B	351012
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	7471B	351182
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	7471B	351012
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	7471B	351012
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	7471B	351012
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	7471B	351012
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	7471B	351012
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	7471B	351012
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	7471B	351012
620-10117-31	2023-FD-06	Total/NA	Solid	7471B	351012
620-10117-32	2023-FD-07	Total/NA	Solid	7471B	351012
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	7471B	351012
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	7471B	351012
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	7471B	351012
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	7471B	351012
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	7471B	351012
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	7471B	351012
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	7471B	351182
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	7471B	351012
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	7471B	351012
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	7471B	351012
MB 410-351012/1-A	Method Blank	Total/NA	Solid	7471B	351012
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471B	351182
LCS 410-351012/2-A	Lab Control Sample	Total/NA	Solid	7471B	351012
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471B	351182
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	7471B	351182
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	7471B	351182
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	7471B	351012
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	7471B	351182

Analysis Batch: 351666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	6010D	350840
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	6010D	350840
MB 410-350840/1-A	Method Blank	Total/NA	Solid	6010D	350840
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	6010D	350840

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Metals

Analysis Batch: 351811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	7471B	351222
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	7471B	351222
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	7471B	351222
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	7471B	351222
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	7471B	351222
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	7471B	351222
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	7471B	351222
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	7471B	351222
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	7471B	351222
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	7471B	351222
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471B	351222
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471B	351222

Analysis Batch: 351911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	6010D	351165
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	6010D	351165
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	6010D	351165
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	6010D	351165
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	6010D	351165
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	6010D	351165
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	6010D	351011
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	6010D	351165
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	6010D	351165
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	6010D	351011
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	6010D	351165
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	6010D	351165
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	6010D	351165
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	6010D	351165
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	6010D	351165
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	6010D	351165
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	6010D	351165
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	6010D	351165
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	6010D	351165
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	6010D	351165
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	6010D	351165
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	6010D	351011
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	6010D	351011
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	6010D	351011
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	6010D	351011
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	6010D	351011
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	6010D	351011
620-10117-31	2023-FD-06	Total/NA	Solid	6010D	351011
620-10117-32	2023-FD-07	Total/NA	Solid	6010D	351011
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	6010D	351011
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	6010D	351011
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	6010D	351011
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	6010D	351011
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	6010D	351011
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	6010D	351011

Metals (Continued)

Analysis Batch: 351911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	6010D	351165
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	6010D	351011
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	6010D	351011
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	6010D	351011
MB 410-351011/1-A	Method Blank	Total/NA	Solid	6010D	351011
MB 410-351165/1-A	Method Blank	Total/NA	Solid	6010D	351165
LCS 410-351011/2-A	Lab Control Sample	Total/NA	Solid	6010D	351011
LCS 410-351165/2-A	Lab Control Sample	Total/NA	Solid	6010D	351165
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	6010D	351165
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	6010D	351165
620-10117-18 DU	2023-SB-12-1012'	Total/NA	Solid	6010D	351011
620-10117-43 DU	2023-SB-05-0406'	Total/NA	Solid	6010D	351165

Analysis Batch: 352229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	7471B	351223
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	7471B	351223
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	7471B	351223
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	7471B	351223
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	7471B	351223
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	7471B	351223
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	7471B	351223
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	7471B	351223
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	7471B	351223
MB 410-351223/1-A	Method Blank	Total/NA	Solid	7471B	351223
LCS 410-351223/2-A	Lab Control Sample	Total/NA	Solid	7471B	351223
620-10117-14 MS	2023-SB-12-0204'	Total/NA	Solid	7471B	351223
620-10117-14 MSD	2023-SB-12-0204'	Total/NA	Solid	7471B	351223
620-10117-14 DU	2023-SB-12-0204'	Total/NA	Solid	7471B	351223

Analysis Batch: 352284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	6010D	351165
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	6010D	351011
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	6010D	351011
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	6010D	351011
MB 410-351221/1-A	Method Blank	Total/NA	Solid	6010D	351221
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	6010D	351221
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	6010D	351221
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	6010D	351221

Metals

Analysis Batch: 352388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	7471B	351222
620-10117-17 MS	2023-SB-12-0810'	Total/NA	Solid	7471B	351222
620-10117-17 MSD	2023-SB-12-0810'	Total/NA	Solid	7471B	351222
620-10117-17 DU	2023-SB-12-0810'	Total/NA	Solid	7471B	351222

Prep Batch: 353918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	3050B	
MB 410-353918/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-353918/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	3050B	
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	3050B	
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	3050B	

Prep Batch: 353921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	7471A	
MB 410-353921/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-353921/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	7471A	
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	7471A	
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	7471A	

Analysis Batch: 354389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	7471B	353921
MB 410-353921/1-A	Method Blank	Total/NA	Solid	7471B	353921
LCS 410-353921/2-A	Lab Control Sample	Total/NA	Solid	7471B	353921
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	7471B	353921
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	7471B	353921
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	7471B	353921

Analysis Batch: 354484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	6010D	353918
MB 410-353918/1-A	Method Blank	Total/NA	Solid	6010D	353918
LCS 410-353918/2-A	Lab Control Sample	Total/NA	Solid	6010D	353918
620-10117-41 MS	2023-SB-05-0002'	Total/NA	Solid	6010D	353918
620-10117-41 MSD	2023-SB-05-0002'	Total/NA	Solid	6010D	353918
620-10117-41 DU	2023-SB-05-0002'	Total/NA	Solid	6010D	353918

General Chemistry

Analysis Batch: 20297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1	2023-MW-06-0002'	Total/NA	Solid	Moisture	
620-10117-2	2023-MW-06-0204'	Total/NA	Solid	Moisture	
620-10117-3	2023-MW-06-0406'	Total/NA	Solid	Moisture	
620-10117-4	2023-MW-06-0608'	Total/NA	Solid	Moisture	
620-10117-5	2023-MW-06-0810'	Total/NA	Solid	Moisture	
620-10117-6	2023-MW-06-1012'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-1 DU	2023-MW-06-0002'	Total/NA	Solid	Moisture	
620-10117-6 DU	2023-MW-06-1012'	Total/NA	Solid	Moisture	

Analysis Batch: 20298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-7	2023-SB-08-0002'	Total/NA	Solid	Moisture	
620-10117-8	2023-SB-08-0204'	Total/NA	Solid	Moisture	
620-10117-9	2023-SB-08-0406'	Total/NA	Solid	Moisture	
620-10117-10	2023-SB-08-0608'	Total/NA	Solid	Moisture	
620-10117-11	2023-SB-08-0810'	Total/NA	Solid	Moisture	
620-10117-12	2023-SB-08-1012'	Total/NA	Solid	Moisture	
620-10117-13	2023-SB-12-0002'	Total/NA	Solid	Moisture	
620-10117-14	2023-SB-12-0204'	Total/NA	Solid	Moisture	
620-10117-15	2023-SB-12-0406'	Total/NA	Solid	Moisture	
620-10117-16	2023-SB-12-0608'	Total/NA	Solid	Moisture	
620-10117-17	2023-SB-12-0810'	Total/NA	Solid	Moisture	
620-10117-18	2023-SB-12-1012'	Total/NA	Solid	Moisture	
620-10117-19	2023-SB-07-0002'	Total/NA	Solid	Moisture	
620-10117-20	2023-SB-07-0204'	Total/NA	Solid	Moisture	
620-10117-21	2023-SB-07-0406'	Total/NA	Solid	Moisture	
620-10117-22	2023-SB-07-0608'	Total/NA	Solid	Moisture	
620-10117-23	2023-SB-07-0810'	Total/NA	Solid	Moisture	
620-10117-24	2023-SB-07-1012'	Total/NA	Solid	Moisture	
620-10117-25	2023-MW-05-0002'	Total/NA	Solid	Moisture	
620-10117-26	2023-MW-05-0204'	Total/NA	Solid	Moisture	
620-10117-27	2023-MW-05-0608'	Total/NA	Solid	Moisture	
620-10117-28	2023-MW-05-0810'	Total/NA	Solid	Moisture	
620-10117-29	2023-MW-05-1012'	Total/NA	Solid	Moisture	
620-10117-30	2023-MW-05-0406'	Total/NA	Solid	Moisture	
620-10117-31	2023-FD-06	Total/NA	Solid	Moisture	
620-10117-32	2023-FD-07	Total/NA	Solid	Moisture	
620-10117-33	2023-SB-06-0002'	Total/NA	Solid	Moisture	
620-10117-18 MS	2023-SB-12-1012'	Total/NA	Solid	Moisture	
620-10117-18 MSD	2023-SB-12-1012'	Total/NA	Solid	Moisture	
620-10117-7 DU	2023-SB-08-0002'	Total/NA	Solid	Moisture	
620-10117-8 DU	2023-SB-08-0204'	Total/NA	Solid	Moisture	
620-10117-33 DU	2023-SB-06-0002'	Total/NA	Solid	Moisture	

Analysis Batch: 20299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-34	2023-SB-06-0204'	Total/NA	Solid	Moisture	
620-10117-35	2023-SB-06-0406'	Total/NA	Solid	Moisture	
620-10117-36	2023-SB-06-0608'	Total/NA	Solid	Moisture	
620-10117-37	2023-SB-06-0810'	Total/NA	Solid	Moisture	
620-10117-38	2023-SB-06-1012'	Total/NA	Solid	Moisture	
620-10117-41	2023-SB-05-0002'	Total/NA	Solid	Moisture	
620-10117-42	2023-SB-05-0204'	Total/NA	Solid	Moisture	
620-10117-43	2023-SB-05-0406'	Total/NA	Solid	Moisture	
620-10117-44	2023-SB-05-0608'	Total/NA	Solid	Moisture	
620-10117-45	2023-SB-05-0810'	Total/NA	Solid	Moisture	
620-10117-46	2023-SB-05-1012'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10117-43 MS	2023-SB-05-0406'	Total/NA	Solid	Moisture	
620-10117-43 MSD	2023-SB-05-0406'	Total/NA	Solid	Moisture	
620-10117-34 DU	2023-SB-06-0204'	Total/NA	Solid	Moisture	
620-10117-46 DU	2023-SB-05-1012'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0002' Lab Sample ID: 620-10117-1
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0002' Lab Sample ID: 620-10117-1
Date Collected: 03/02/23 14:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 21:48
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 18:59
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 15:54
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 01:53
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 22:57
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:18
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:13

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2
Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 22:13
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 19:27
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 16:34

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0204' Lab Sample ID: 620-10117-2

Date Collected: 03/02/23 14:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 02:11
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:19
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:21
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:16

Client Sample ID: 2023-MW-06-0406' Lab Sample ID: 620-10117-3

Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0406' Lab Sample ID: 620-10117-3

Date Collected: 03/02/23 14:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 16:55
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 18:30
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 17:13
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 02:30
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:31
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:27
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:08

Client Sample ID: 2023-MW-06-0608' Lab Sample ID: 620-10117-4

Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0608' Lab Sample ID: 620-10117-4

Date Collected: 03/02/23 14:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 17:20
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 19:56
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 17:52
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 02:49
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:42
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:12
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:27

Client Sample ID: 2023-MW-06-0810' Lab Sample ID: 620-10117-5

Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-0810' Lab Sample ID: 620-10117-5

Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 17:45
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 20:24
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 18:32

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06-0810' Lab Sample ID: 620-10117-5

Date Collected: 03/02/23 14:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 03:08
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 23:53
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:05
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 07:35
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:21

Client Sample ID: 2023-MW-06-1012' Lab Sample ID: 620-10117-6

Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20297	DWC	EET NE	03/06/23 09:58

Client Sample ID: 2023-MW-06-1012' Lab Sample ID: 620-10117-6

Date Collected: 03/02/23 14:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 18:12
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 20:52
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 19:11
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 03:26
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:04
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:20
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0002' Lab Sample ID: 620-10117-7
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0002' Lab Sample ID: 620-10117-7
Date Collected: 03/02/23 15:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 91.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 14:31
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 01:18
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 19:51
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 03:45
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:15
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:07
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 09:14
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:55

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8
Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 19:03
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 21:49

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0204' Lab Sample ID: 620-10117-8

Date Collected: 03/02/23 15:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 20:30
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 04:04
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:26
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:17
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:19

Client Sample ID: 2023-SB-08-0406' Lab Sample ID: 620-10117-9

Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0406' Lab Sample ID: 620-10117-9

Date Collected: 03/02/23 15:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 96.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 14:58
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 22:17
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 21:09
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 04:23
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:37
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:04
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:58

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-0608' Lab Sample ID: 620-10117-10
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0608' Lab Sample ID: 620-10117-10
Date Collected: 03/02/23 15:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 19:55
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 22:45
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 21:49
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 04:41
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:48
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:17
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:00

Client Sample ID: 2023-SB-08-0810' Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-0810' Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 20:21
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 15:24

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-08-0810'

Lab Sample ID: 620-10117-11
Date Collected: 03/02/23 15:30
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 20:37
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 23:07
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 05:50
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 00:59
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:03
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:51

Client Sample ID: 2023-SB-08-1012'

Lab Sample ID: 620-10117-12
Date Collected: 03/02/23 15:35
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-08-1012'

Lab Sample ID: 620-10117-12
Date Collected: 03/02/23 15:35
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 20:47
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 15:49
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 21:20
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 23:47
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 06:08
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:21
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:24

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-08-1012' — Lab Sample ID: 620-10117-12

Date Collected: 03/02/23 15:35 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:02

Client Sample ID: 2023-SB-12-0002' — Lab Sample ID: 620-10117-13

Date Collected: 03/03/23 09:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-0002' — Lab Sample ID: 620-10117-13

Date Collected: 03/03/23 09:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 16:15
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 21:05
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		10	20590	JS	EET NE	03/16/23 17:31
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/08/23 00:26
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		500	20477	SFL	EET NE	03/13/23 15:31
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:32
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:42
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:09

Client Sample ID: 2023-SB-12-0204' — Lab Sample ID: 620-10117-14

Date Collected: 03/03/23 09:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0204' Lab Sample ID: 620-10117-14

Date Collected: 03/03/23 09:05 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 21:39
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 23:25
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/08/23 01:05
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 18:30
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:43
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:39
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:56

Client Sample ID: 2023-SB-12-0406' Lab Sample ID: 620-10117-15

Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-0406' Lab Sample ID: 620-10117-15

Date Collected: 03/03/23 09:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 22:05
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 23:53
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/08/23 01:45
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 18:48
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 01:55
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:30

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-12-0406'

Lab Sample ID: 620-10117-15
Date Collected: 03/03/23 09:10
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:20

Client Sample ID: 2023-SB-12-0608'

Lab Sample ID: 620-10117-16
Date Collected: 03/03/23 09:15
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-0608'

Lab Sample ID: 620-10117-16
Date Collected: 03/03/23 09:15
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 16:41
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 00:22
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 12:10
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 19:07
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 02:39
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:15
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:18

Client Sample ID: 2023-SB-12-0810'

Lab Sample ID: 620-10117-17
Date Collected: 03/03/23 09:20
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0810' Lab Sample ID: 620-10117-17

Date Collected: 03/03/23 09:20 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 22:56
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 00:50
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 12:49
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 19:26
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 02:50
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 02:48
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 03:22
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 09:53

Client Sample ID: 2023-SB-12-1012' Lab Sample ID: 620-10117-18

Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-12-1012' Lab Sample ID: 620-10117-18

Date Collected: 03/03/23 09:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 14:36
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C	RA	1	20518	CLR	EET NE	03/14/23 13:50
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 21:33
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 10:12
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 19:44

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-1012' — Lab Sample ID: 620-10117-18

Date Collected: 03/03/23 09:25 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 03:01
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:40
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:02

Client Sample ID: 2023-SB-07-0002' — Lab Sample ID: 620-10117-19

Date Collected: 03/03/23 09:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0002' — Lab Sample ID: 620-10117-19

Date Collected: 03/03/23 09:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 88.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 23:21
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/16/23 01:47
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		5	20590	JS	EET NE	03/16/23 17:59
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 13:29
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		5	20477	SFL	EET NE	03/13/23 15:13
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 03:34
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:59
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:54

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0204' Lab Sample ID: 620-10117-20
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0204' Lab Sample ID: 620-10117-20
Date Collected: 03/03/23 09:55 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 23:47
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 22:58
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 14:08
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 05:58
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 03:56
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:36
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:14

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0406' Lab Sample ID: 620-10117-21
Date Collected: 03/03/23 10:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/09/23 00:12
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 17:07

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0406' — Lab Sample ID: 620-10117-21

Date Collected: 03/03/23 10:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 16:06
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		10	20626	JS	EET NE	03/17/23 18:05
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 15:27
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		20	20476	SFL	EET NE	03/13/23 15:07
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:07
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:33
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:12

Client Sample ID: 2023-SB-07-0608' — Lab Sample ID: 620-10117-22

Date Collected: 03/03/23 10:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0608' — Lab Sample ID: 620-10117-22

Date Collected: 03/03/23 10:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 86.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 16:33
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 12:15
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 16:06
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		2	20476	SFL	EET NE	03/13/23 15:24
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:19
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 06:55
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:52

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-0810' Lab Sample ID: 620-10117-23

Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-0810' Lab Sample ID: 620-10117-23

Date Collected: 03/03/23 10:10 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 16:59
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 12:44
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 16:45
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 11:02
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:30
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:02
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:11

Client Sample ID: 2023-SB-07-1012' Lab Sample ID: 620-10117-24

Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-07-1012' Lab Sample ID: 620-10117-24

Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 17:24
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 13:13
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 17:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-07-1012' Lab Sample ID: 620-10117-24

Date Collected: 03/03/23 10:15 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 21:09
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:41
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:09
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:25

Client Sample ID: 2023-MW-05-0002' Lab Sample ID: 620-10117-25

Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0002' Lab Sample ID: 620-10117-25

Date Collected: 03/03/23 10:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 17:49
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 17:03
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		4	20626	JS	EET NE	03/17/23 18:33
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 18:04
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		50	20507	SFL	EET NE	03/14/23 12:23
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 04:52
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:12
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 08:20
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:12

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05-0204' Lab Sample ID: 620-10117-26
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0204' Lab Sample ID: 620-10117-26
Date Collected: 03/03/23 10:45 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 18:14
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 16:34
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 18:43
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		2	20507	SFL	EET NE	03/14/23 12:40
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:03
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:15
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 08:23
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:14

Client Sample ID: 2023-MW-05-0608' Lab Sample ID: 620-10117-27
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0608' Lab Sample ID: 620-10117-27
Date Collected: 03/03/23 10:50 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 18:39
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 14:10

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0608'

Lab Sample ID: 620-10117-27
Date Collected: 03/03/23 10:50
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 19:23
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 22:01
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:14
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:38
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:32

Client Sample ID: 2023-MW-05-0810'

Lab Sample ID: 620-10117-28
Date Collected: 03/03/23 10:55
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0810'

Lab Sample ID: 620-10117-28
Date Collected: 03/03/23 10:55
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 19:04
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 14:39
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 20:02
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 11:19
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:25
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:32
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:28

Client Sample ID: 2023-MW-05-1012' — Lab Sample ID: 620-10117-29

Date Collected: 03/03/23 11:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-1012' — Lab Sample ID: 620-10117-29

Date Collected: 03/03/23 11:00 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 19:29
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 15:08
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 20:41
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 22:18
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:36
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:00
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:49

Client Sample ID: 2023-MW-05-0406' — Lab Sample ID: 620-10117-30

Date Collected: 03/03/23 11:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-MW-05-0406' — Lab Sample ID: 620-10117-30

Date Collected: 03/03/23 11:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 80.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 19:54
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C	RA	1	20433	CLR	EET NE	03/10/23 17:33

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-MW-05-0406'

Lab Sample ID: 620-10117-30

Date Collected: 03/03/23 11:05
Date Received: 03/03/23 16:09

Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 15:37
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 21:21
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/14/23 04:14
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 05:58
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:54
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:41

Client Sample ID: 2023-FD-06

Lab Sample ID: 620-10117-31

Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-FD-06

Lab Sample ID: 620-10117-31

Date Collected: 03/03/23 08:00
Date Received: 03/03/23 16:09

Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 20:19
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 11:47
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		4	20590	JS	EET NE	03/16/23 18:28
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 22:39
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		20	20476	SFL	EET NE	03/13/23 15:42
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:09
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:22
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:22

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-07 — Lab Sample ID: 620-10117-32

Date Collected: 03/03/23 08:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-FD-07 — Lab Sample ID: 620-10117-32

Date Collected: 03/03/23 08:05 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 17:59
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 13:42
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 23:19
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 11:54
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:20
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:35
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:30

Client Sample ID: 2023-SB-06-0002' — Lab Sample ID: 620-10117-33

Date Collected: 03/03/23 11:35 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20298	DWC	EET NE	03/06/23 11:08

Client Sample ID: 2023-SB-06-0002' — Lab Sample ID: 620-10117-33

Date Collected: 03/03/23 11:35 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 21:09
Total/NA	Prep	3546			20520	PRB	EET NE	03/14/23 10:48
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 17:37
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/08/23 23:58

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-0002' Lab Sample ID: 620-10117-33

Date Collected: 03/03/23 11:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		50	20476	SFL	EET NE	03/13/23 15:59
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:32
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:48
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:36

Client Sample ID: 2023-SB-06-0204' Lab Sample ID: 620-10117-34

Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0204' Lab Sample ID: 620-10117-34

Date Collected: 03/03/23 11:40 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 82.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 21:35
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 18:56
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		10	20626	JS	EET NE	03/17/23 19:01
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/09/23 00:37
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		50	20476	SFL	EET NE	03/13/23 16:16
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:43
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:44
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:34

Client Sample ID: 2023-SB-06-0406' — Lab Sample ID: 620-10117-35

Date Collected: 03/03/23 11:45 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660967	MAN	EET BUF	03/09/23 09:00
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0406' — Lab Sample ID: 620-10117-35

Date Collected: 03/03/23 11:45 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20408	BMH	EET NE	03/09/23 13:37
Total/NA	Analysis	8260C		1	20396	CLR	EET NE	03/09/23 22:01
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 19:24
Total/NA	Prep	5035A_H			660799	JLS	EET BUF	03/08/23 06:56
Total/NA	Analysis	MAVPH		1	660808	JLS	EET BUF	03/09/23 01:16
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/14/23 04:31
Total/NA	Prep	537 (mod)			351126	K9VR	ELLE	03/07/23 18:02
Total/NA	Cleanup	Extract Aliquot			351199	K9VR	ELLE	03/07/23 22:12
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/16/23 06:54
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:19
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:16

Client Sample ID: 2023-SB-06-0608' — Lab Sample ID: 620-10117-36

Date Collected: 03/03/23 11:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0608' — Lab Sample ID: 620-10117-36

Date Collected: 03/03/23 11:50 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 85.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 18:25
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 19:52
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 12:19

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-06-0608'

Lab Sample ID: 620-10117-36
Date Collected: 03/03/23 11:50
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 12:46
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 06:54
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:51
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:39

Client Sample ID: 2023-SB-06-0810'

Lab Sample ID: 620-10117-37
Date Collected: 03/03/23 11:55
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-0810'

Lab Sample ID: 620-10117-37
Date Collected: 03/03/23 11:55
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 18:51
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 20:20
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 12:59
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/14/23 04:48
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 07:27
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 09:57
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:47

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-06-1012' Lab Sample ID: 620-10117-38

Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-06-1012' Lab Sample ID: 620-10117-38

Date Collected: 03/03/23 12:00 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 88.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 19:18
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 20:49
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 13:38
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 13:03
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 07:38
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:20
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 07:50

Client Sample ID: Trip Blank -05 Lab Sample ID: 620-10117-39

Date Collected: 03/03/23 00:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 13:14

Client Sample ID: Trip Blank -06 Lab Sample ID: 620-10117-40

Date Collected: 03/03/23 00:00 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 13:40

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-05-0002' — Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0002' — Lab Sample ID: 620-10117-41

Date Collected: 03/03/23 13:10 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 88.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 19:44
Total/NA	Pre Prep	Frozen Preserve	RA		20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035	RA		20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C	RA	1	20473	CLR	EET NE	03/13/23 13:43
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 17:08
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 14:17
Total/NA	Prep	3540C			20415	BMS	EET NE	03/09/23 15:27
Total/NA	Analysis	8082		5	20507	SFL	EET NE	03/14/23 12:58
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 07:50
Total/NA	Prep	3050B			353918	UAMX	ELLE	03/15/23 14:43
Total/NA	Analysis	6010D		1	354484	T8CQ	ELLE	03/16/23 15:48
Total/NA	Prep	7471A			353921	UAMX	ELLE	03/15/23 14:55
Total/NA	Analysis	7471B		1	354389	UEFS	ELLE	03/16/23 13:06

Client Sample ID: 2023-SB-05-0204' — Lab Sample ID: 620-10117-42

Date Collected: 03/03/23 13:15 — **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0204' — Lab Sample ID: 620-10117-42

Date Collected: 03/03/23 13:15 — **Matrix: Solid**
Date Received: 03/03/23 16:09 — **Percent Solids: 65.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 20:10

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Client Sample ID: 2023-SB-05-0204'

Lab Sample ID: 620-10117-42
Date Collected: 03/03/23 13:15
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 65.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 21:17
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 15:36
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 18:16
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 08:01
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 10:13
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:53

Client Sample ID: 2023-SB-05-0406'

Lab Sample ID: 620-10117-43
Date Collected: 03/03/23 13:20
Matrix: Solid
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0406'

Lab Sample ID: 620-10117-43
Date Collected: 03/03/23 13:20
Matrix: Solid
Date Received: 03/03/23 16:09
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 15:02
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20556	JS	EET NE	03/15/23 19:11
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 10:21
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 06:50
Total/NA	Prep	537 (mod)			351204	X5YV	ELLE	03/07/23 22:50
Total/NA	Cleanup	Extract Aliquot			351218	X5YV	ELLE	03/08/23 00:20
Total/NA	Analysis	EPA 537 (Mod)		1	355773	PY4D	ELLE	03/22/23 11:46
Total/NA	Prep	3050B			351165	UAMX	ELLE	03/07/23 19:52
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 05:45
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:03

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-05-0608' Lab Sample ID: 620-10117-44
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0608' Lab Sample ID: 620-10117-44
Date Collected: 03/03/23 13:25 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 20:36
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 21:45
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 16:16
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 19:08
Total/NA	Prep	537 (mod)			355124	X5YV	ELLE	03/19/23 19:30
Total/NA	Cleanup	Extract Aliquot			355130	X5YV	ELLE	03/20/23 01:17
Total/NA	Analysis	EPA 537 (Mod)		1	355348	DTA4	ELLE	03/21/23 10:18
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 07:59
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:10

Client Sample ID: 2023-SB-05-0810' Lab Sample ID: 620-10117-45
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-0810' Lab Sample ID: 620-10117-45
Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 14:10
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20590	JS	EET NE	03/16/23 22:14
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 16:55

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-05-0810' Lab Sample ID: 620-10117-45

Date Collected: 03/03/23 13:30 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 07:07
Total/NA	Prep	537 (mod)			355124	X5YV	ELLE	03/19/23 19:30
Total/NA	Cleanup	Extract Aliquot			355130	X5YV	ELLE	03/20/23 01:17
Total/NA	Analysis	EPA 537 (Mod)		1	355348	DTA4	ELLE	03/21/23 10:52
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:28
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:26

Client Sample ID: 2023-SB-05-1012' Lab Sample ID: 620-10117-46

Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20299	DWC	EET NE	03/06/23 11:52

Client Sample ID: 2023-SB-05-1012' Lab Sample ID: 620-10117-46

Date Collected: 03/03/23 13:35 **Matrix: Solid**
Date Received: 03/03/23 16:09 **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20275	KFS	EET NE	03/03/23 18:20
Total/NA	Prep	5035			20432	CLR	EET NE	03/10/23 09:34
Total/NA	Analysis	8260C		1	20433	CLR	EET NE	03/10/23 21:27
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 16:39
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 17:34
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 19:26
Total/NA	Prep	537 (mod)			355124	X5YV	ELLE	03/19/23 19:30
Total/NA	Cleanup	Extract Aliquot			355130	X5YV	ELLE	03/20/23 01:17
Total/NA	Analysis	EPA 537 (Mod)		1	355348	DTA4	ELLE	03/21/23 11:03
Total/NA	Prep	3050B			351011	UAMX	ELLE	03/07/23 13:12
Total/NA	Analysis	6010D		1	351911	T8CQ	ELLE	03/09/23 08:25
Total/NA	Prep	7471A			351012	UAMX	ELLE	03/07/23 13:21
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 11:24

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10117-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10117-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10117-1	2023-MW-06-0002'	Solid	03/02/23 14:15	03/03/23 16:09
620-10117-2	2023-MW-06-0204'	Solid	03/02/23 14:20	03/03/23 16:09
620-10117-3	2023-MW-06-0406'	Solid	03/02/23 14:25	03/03/23 16:09
620-10117-4	2023-MW-06-0608'	Solid	03/02/23 14:30	03/03/23 16:09
620-10117-5	2023-MW-06-0810'	Solid	03/02/23 14:35	03/03/23 16:09
620-10117-6	2023-MW-06-1012'	Solid	03/02/23 14:40	03/03/23 16:09
620-10117-7	2023-SB-08-0002'	Solid	03/02/23 15:10	03/03/23 16:09
620-10117-8	2023-SB-08-0204'	Solid	03/02/23 15:15	03/03/23 16:09
620-10117-9	2023-SB-08-0406'	Solid	03/02/23 15:20	03/03/23 16:09
620-10117-10	2023-SB-08-0608'	Solid	03/02/23 15:25	03/03/23 16:09
620-10117-11	2023-SB-08-0810'	Solid	03/02/23 15:30	03/03/23 16:09
620-10117-12	2023-SB-08-1012'	Solid	03/02/23 15:35	03/03/23 16:09
620-10117-13	2023-SB-12-0002'	Solid	03/03/23 09:00	03/03/23 16:09
620-10117-14	2023-SB-12-0204'	Solid	03/03/23 09:05	03/03/23 16:09
620-10117-15	2023-SB-12-0406'	Solid	03/03/23 09:10	03/03/23 16:09
620-10117-16	2023-SB-12-0608'	Solid	03/03/23 09:15	03/03/23 16:09
620-10117-17	2023-SB-12-0810'	Solid	03/03/23 09:20	03/03/23 16:09
620-10117-18	2023-SB-12-1012'	Solid	03/03/23 09:25	03/03/23 16:09
620-10117-19	2023-SB-07-0002'	Solid	03/03/23 09:50	03/03/23 16:09
620-10117-20	2023-SB-07-0204'	Solid	03/03/23 09:55	03/03/23 16:09
620-10117-21	2023-SB-07-0406'	Solid	03/03/23 10:00	03/03/23 16:09
620-10117-22	2023-SB-07-0608'	Solid	03/03/23 10:05	03/03/23 16:09
620-10117-23	2023-SB-07-0810'	Solid	03/03/23 10:10	03/03/23 16:09
620-10117-24	2023-SB-07-1012'	Solid	03/03/23 10:15	03/03/23 16:09
620-10117-25	2023-MW-05-0002'	Solid	03/03/23 10:40	03/03/23 16:09
620-10117-26	2023-MW-05-0204'	Solid	03/03/23 10:45	03/03/23 16:09
620-10117-27	2023-MW-05-0608'	Solid	03/03/23 10:50	03/03/23 16:09
620-10117-28	2023-MW-05-0810'	Solid	03/03/23 10:55	03/03/23 16:09
620-10117-29	2023-MW-05-1012'	Solid	03/03/23 11:00	03/03/23 16:09
620-10117-30	2023-MW-05-0406'	Solid	03/03/23 11:05	03/03/23 16:09
620-10117-31	2023-FD-06	Solid	03/03/23 08:00	03/03/23 16:09
620-10117-32	2023-FD-07	Solid	03/03/23 08:05	03/03/23 16:09
620-10117-33	2023-SB-06-0002'	Solid	03/03/23 11:35	03/03/23 16:09
620-10117-34	2023-SB-06-0204'	Solid	03/03/23 11:40	03/03/23 16:09
620-10117-35	2023-SB-06-0406'	Solid	03/03/23 11:45	03/03/23 16:09
620-10117-36	2023-SB-06-0608'	Solid	03/03/23 11:50	03/03/23 16:09
620-10117-37	2023-SB-06-0810'	Solid	03/03/23 11:55	03/03/23 16:09
620-10117-38	2023-SB-06-1012'	Solid	03/03/23 12:00	03/03/23 16:09
620-10117-39	Trip Blank -05	Solid	03/03/23 00:00	03/03/23 16:09
620-10117-40	Trip Blank -06	Solid	03/03/23 00:00	03/03/23 16:09
620-10117-41	2023-SB-05-0002'	Solid	03/03/23 13:10	03/03/23 16:09
620-10117-42	2023-SB-05-0204'	Solid	03/03/23 13:15	03/03/23 16:09
620-10117-43	2023-SB-05-0406'	Solid	03/03/23 13:20	03/03/23 16:09
620-10117-44	2023-SB-05-0608'	Solid	03/03/23 13:25	03/03/23 16:09
620-10117-45	2023-SB-05-0810'	Solid	03/03/23 13:30	03/03/23 16:09
620-10117-46	2023-SB-05-1012'	Solid	03/03/23 13:35	03/03/23 16:09

620-10117 Chain of Custody

Chain of Custody Record

eurofins | Environment Testing

Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 10
Phone:	E-Mail:	State of Origin:	Page: Page 10 of 17

Bridget Fortier

Company: Nobis Engineering Inc. | PWSID:

Address: 585 Middlesex Street | Due Date Requested:

City: Lowell | TAT Requested (days): Standard

State, Zip: MA, 01851 | Compliance Project: Δ Yes Δ No

Phone: 978-399-9657 | PO #: 500001 007

Email: bfortier@nobis-group.com | WO #:

Project Name: American Tissue Mill | Project #:

Site: Templeton, MA | SSOW#:

Job #:

Analysis Requested

Preservation Codes.

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							B		F					
01	2023 - MW-06 - 0002'	3/2/23	14:15	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023 - MW-06 - 0204'		14:20		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023 - MW-06 - 0406'		14:25		Solid			✓	✓	✓	✓	✓	✓	7	
04	2023 - MW-06 - 0608'		14:30		Solid			✓	✓	✓	✓	✓	✓	7	
05	2023 - MW-06 - 0810'		14:35		Solid			✓	✓	✓	✓	✓	✓	7	
06	2023 - MW-06 - 1012'		14:40		Solid			✓	✓	✓	✓	✓	✓	7	
07	2023 - SB-08 - 0002'		15:10		Solid			✓	✓	✓	✓	✓	✓	7	
08	2023 - SB-08 - 0204'		15:15		Solid			✓	✓	✓	✓	✓	✓	7	
09	2023 - SB-08 - 0406'		15:20		Solid			✓	✓	✓	✓	✓	✓	7	
10	2023 - SB-08 - 0608'		15:25		Solid			✓	✓	✓	✓	✓	✓	7	
11	2023 - SB-08 - 0810'	↓	15:30	↓	Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmigratne@nobis-group.com

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
2	[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.4 +0.2 2.6 #C

Ver: 06/08/2021

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.11
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 11 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
12	2023-SB-08-1012'	3/2/23	15:35	G	Solid			✓	✓	✓	✓	✓	✓	7	
13	2023-SB-12-0002'	3/3/23	09:00		Solid			✓	✓	✓	✓	✓	✓	7	
14	2023-SB-12-0204'		09:05		Solid			✓	✓	✓	✓	✓	✓	7	
15	2023-SB-12-0406'		09:10		Solid			✓	✓	✓	✓	✓	✓	7	
16	2023-SB-12-0608'		09:15		Solid			✓	✓	✓	✓	✓	✓	7	
17	2023-SB-12-0810'		09:20		Solid			✓	✓	✓	✓	✓	✓	7	
18	2023-SB-12-1012'		09:25		Solid		Y	✓	✓	✓	✓	✓	✓	21	
19	2023-SB-07-0002'		09:50		Solid			✓	✓	✓	✓	✓	✓	7	
20	2023-SB-07-0204'		09:55		Solid			✓	✓	✓	✓	✓	✓	7	
21	2023-SB-07-0406'		10:00		Solid			✓	✓	✓	✓	✓	✓	7	
22	2023-SB-07-0608'		10:05		Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 14:00	ENE		3/3/23 14:00	ENE
2		3/3/23 16:09	ENE		3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.1 1 6 #6

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

10 of 17

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM	Carrier Tracking No(s):	COC No: 620-8842-1096 12
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 12 of 17
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested		Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH Mass DEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537								Total Number of containers	Special Instructions/Note:
	Preservation Code:					X	X														X	
23	2023-SB-07-0810'	3/3/23	10:10	G	Solid			✓	✓	✓	✓	✓	✓									
24	2023-SB-07-1012'		10:15		Solid			✓	✓	✓	✓	✓	✓									
25	2023-MW-05-0002'		10:40		Solid			✓	✓	✓	✓	✓	✓									
26	2023-MW-05-0204'		10:45		Solid			✓	✓	✓	✓	✓	✓									
27	2023-MW-05-0608'		10:50		Solid			✓	✓	✓	✓	✓	✓									
28	2023-MW-05-0810'		10:55		Solid			✓	✓	✓	✓	✓	✓									
29	2023-MW-05-1012'		11:00		Solid			✓	✓	✓	✓	✓	✓									
30	2023-MW-05-0406'		11:05		Solid			✓	✓	✓	✓	✓	✓									
31	2023-FD-06		08:00		Solid			✓	✓	✓	✓	✓	✓									
32	2023-FD-07		08:05		Solid			✓	✓	✓	✓	✓	✓									
33	2023-SB-06-0002'	↓	11:35	↓	Solid			✓	✓	✓	✓	✓	✓									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
2	[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 2.6 #6

Ver: 06/08/2021

3/23/2023

Page 536 of 554

(104)

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone. 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 13
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 13 of 17
Company: Nobis Engineering Inc.	PWSID:	Analysis Requested		Job #:
Address: 585 Middlesex Street	Due Date Requested:			Preservation Codes. A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA; M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify); Other:
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9657	PO #: S00001.002			
Email: bfortier@nobis-group com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537									Total Number of containers	Special Instructions/Note:
				Preservation Code:				FJ		F													
34	2023-SB-06-0204'	3/3/23	11:40	G	Solid			✓	✓	✓	✓	✓	✓									7	
35	2023-SB-06-0406'		11:45		Solid			✓	✓	✓	✓	✓	✓									7	
36	2023-SB-06-0608'		11:50		Solid			✓	✓	✓	✓	✓	✓									7	
37	2023-SB-06-0810'		11:55		Solid			✓	✓	✓	✓	✓	✓									7	
38	2023-SB-06-1012'		12.00		Solid			✓	✓	✓	✓	✓	✓									7	
39	TRIP BLANK-05		—		Solid			✓	✓	✓	✓	✓	✓	BF								3	
40	TRIP BLANK-06				Solid			✓	✓	✓	✓	✓	✓									3	
41	2023-SB-05-0002'		13:10		Solid			✓	✓	✓	✓	✓	✓									7	
42	2023-SB-05-0204'		13:15		Solid			✓	✓	✓	✓	✓	✓									7	
43	2023-SB-05-0406'		13:20		Solid		Y	✓	✓	✓	✓	✓	✓									21	
44	2023-SB-05-0608'	↓	13:25	↓	Solid			✓	✓	✓	✓	✓	✓									7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): Equis EDD

Special Instructions/QC Requirements. email to: dmcgrath@nobis-group com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3/3/23 14:00			3/3/23 14:00	ENE
2		3/3/23 16:09	ENE		3/3/23 16:09	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 0.2 2.6 #6

Ver: 06/08/2021

3/23/2023

Page 537 of 554

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 14
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 14 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Stnd			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001602			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
U5 2023-SB-05-0810'	3/3/23	13:30	G	Solid			✓	✓	✓	✓	✓	✓	5	
U6 2023-SB-05-7012'	↓	13:35	G	Solid			✓	✓	✓	✓	✓	✓	7	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify): EQuIS Edd

Special Instructions/QC Requirements: dmcrath@nobis-group.com

Empty Kit Relinquished by: | Date: | Time | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3/3/23 14:00		[signature]	3/3/23 14:00	ENE
[signature]	3/3/23 16:09	ENE	[signature]	3/3/23 16:09	ENE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 1.6 FS

Ver: 06/08/2021

3/23/2023

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Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-06-0002' (620-10117-1)	3/2/23	14:15 Eastern		Solid			X	X	X	2	
2023-MW-06-0204' (620-10117-2)	3/2/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-06-0406' (620-10117-3)	3/2/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-06-0608' (620-10117-4)	3/2/23	14:30 Eastern		Solid			X	X	X	2	
2023-MW-06-0810' (620-10117-5)	3/2/23	14:35 Eastern		Solid			X	X	X	2	
2023-MW-06-1012' (620-10117-6)	3/2/23	14:40 Eastern		Solid			X	X	X	2	
2023-SB-08-0002' (620-10117-7)	3/2/23	15:10 Eastern		Solid			X	X	X	2	
2023-SB-08-0204' (620-10117-8)	3/2/23	15:15 Eastern		Solid			X	X	X	2	
2023-SB-08-0406' (620-10117-9)	3/2/23	15:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 17:55	FWE	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	3/4/23 10:10	CLIENT

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 - 1.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-08-0608' (620-10117-10)	3/2/23	15:25 Eastern		Solid			X	X	X	2	
2023-SB-08-0810' (620-10117-11)	3/2/23	15:30 Eastern		Solid			X	X	X	2	
2023-SB-08-1012' (620-10117-12)	3/2/23	15:35 Eastern		Solid			X	X	X	2	
2023-SB-12-0002' (620-10117-13)	3/3/23	09:00 Eastern		Solid			X	X	X	2	
2023-SB-12-0204' (620-10117-14)	3/3/23	09:05 Eastern		Solid			X	X	X	2	
2023-SB-12-0406' (620-10117-15)	3/3/23	09:10 Eastern		Solid			X	X	X	2	
2023-SB-12-0608' (620-10117-16)	3/3/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-12-0810' (620-10117-17)	3/3/23	09:20 Eastern		Solid			X	X	X	2	
2023-SB-12-1012' (620-10117-18)	3/3/23	09:25 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 3/3/23 17:37	Company ENE	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/4/23 10:10	Company EUET

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4-1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-12-1012' (620-10117-18MS)	3/3/23	09:25 Eastern	MS	Solid			X	X	X	2	
2023-SB-12-1012' (620-10117-18MSD)	3/3/23	09:25 Eastern	MSD	Solid			X	X	X	2	
2023-SB-07-0002' (620-10117-19)	3/3/23	09:50 Eastern		Solid			X	X	X	2	
2023-SB-07-0204' (620-10117-20)	3/3/23	09:55 Eastern		Solid			X	X	X	2	
2023-SB-07-0406' (620-10117-21)	3/3/23	10:00 Eastern		Solid			X	X	X	2	
2023-SB-07-0608' (620-10117-22)	3/3/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-07-0810' (620-10117-23)	3/3/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-07-1012' (620-10117-24)	3/3/23	10:15 Eastern		Solid			X	X	X	2	
2023-MW-05-0002' (620-10117-25)	3/3/23	10:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/4/23 12:53	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ENET

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
✗ Yes Δ No		0.4 - 1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-05-0204' (620-10117-26)	3/3/23	10:45 Eastern		Solid			X	X	X	2	
2023-MW-05-0608' (620-10117-27)	3/3/23	10:50 Eastern		Solid			X	X	X	2	
2023-MW-05-0810' (620-10117-28)	3/3/23	10:55 Eastern		Solid			X	X	X	2	
2023-MW-05-1012' (620-10117-29)	3/3/23	11:00 Eastern		Solid			X	X	X	2	
2023-MW-05-0406' (620-10117-30)	3/3/23	11:05 Eastern		Solid			X	X	X	2	
2023-FD-06 (620-10117-31)	3/3/23	08:00 Eastern		Solid			X	X	X	2	
2023-FD-07 (620-10117-32)	3/3/23	08:05 Eastern		Solid			X	X	X	2	
2023-SB-06-0002' (620-10117-33)	3/3/23	11:35 Eastern		Solid			X	X	X	2	
2023-SB-06-0204' (620-10117-34)	3/3/23	11:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/3/23 12:33	ECC	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ELFT

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
✗ Yes Δ No		0.4 - 1.3

SR

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-06-0406' (620-10117-35)	3/3/23	11:45 Eastern		Solid			X	X	X	2	
2023-SB-06-0608' (620-10117-36)	3/3/23	11:50 Eastern		Solid			X	X	X	2	
2023-SB-06-0810' (620-10117-37)	3/3/23	11:55 Eastern		Solid			X	X	X	2	
2023-SB-06-1012' (620-10117-38)	3/3/23	12:00 Eastern		Solid			X	X	X	2	
2023-SB-05-0002' (620-10117-41)	3/3/23	13:10 Eastern		Solid			X	X	X	2	
2023-SB-05-0204' (620-10117-42)	3/3/23	13:15 Eastern		Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43)	3/3/23	13:20 Eastern		Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43MS)	3/3/23	13:20 Eastern	MS	Solid			X	X	X	2	
2023-SB-05-0406' (620-10117-43MSD)	3/3/23	13:20 Eastern	MSD	Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/3/23 17:33	ENE	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3/4/23 10:10	ET

Custody Seals Intact: ✗ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.4 - 1.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8520.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 6 of 6
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/14/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-05-0608' (620-10117-44)	3/3/23	13:25 Eastern		Solid			X	X	X	2	
2023-SB-05-0810' (620-10117-45)	3/3/23	13:30 Eastern		Solid			X	X	X	2	
2023-SB-05-1012' (620-10117-46)	3/3/23	13:35 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 1733	ET			
2						
3					3/4/23 10:10	ELET

Custody Seals Intact: ☒ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 - 1.3

Ver: 06/08/2021

SR

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-06-0002' (620-10117-1)	3/2/23	14:15 Eastern		Solid			X	X	1	
2023-MW-06-0204' (620-10117-2)	3/2/23	14:20 Eastern		Solid			X	X	1	
2023-MW-06-0406' (620-10117-3)	3/2/23	14:25 Eastern		Solid			X	X	1	
2023-MW-06-0608' (620-10117-4)	3/2/23	14:30 Eastern		Solid			X	X	1	
2023-MW-06-0810' (620-10117-5)	3/2/23	14:35 Eastern		Solid			X	X	1	
2023-MW-06-1012' (620-10117-6)	3/2/23	14:40 Eastern		Solid			X	X	1	
2023-SB-08-0002' (620-10117-7)	3/2/23	15:10 Eastern		Solid			X	X	1	
2023-SB-08-0204' (620-10117-8)	3/2/23	15:15 Eastern		Solid			X	X	1	
2023-SB-08-0406' (620-10117-9)	3/2/23	15:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/3/23 17:30	EUG	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					3-4-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.1 + ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-08-0608' (620-10117-10)	3/2/23	15:25 Eastern		Solid			X	X	1	
2023-SB-08-0810' (620-10117-11)	3/2/23	15:30 Eastern		Solid			X	X	1	
2023-SB-08-1012' (620-10117-12)	3/2/23	15:35 Eastern		Solid			X	X	1	
2023-SB-12-0002' (620-10117-13)	3/3/23	09:00 Eastern		Solid			X	X	1	
2023-SB-12-0204' (620-10117-14)	3/3/23	09:05 Eastern		Solid			X	X	1	
2023-SB-12-0406' (620-10117-15)	3/3/23	09:10 Eastern		Solid			X	X	1	
2023-SB-12-0608' (620-10117-16)	3/3/23	09:15 Eastern		Solid			X	X	1	
2023-SB-12-0810' (620-10117-17)	3/3/23	09:20 Eastern		Solid			X	X	1	
2023-SB-12-1012' (620-10117-18)	3/3/23	09:25 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/3/23 12:30	ENE	[signature]		
2				[signature]		
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-12-1012' (620-10117-18MS)	3/3/23	09:25 Eastern	MS	Solid			X	X	1	
2023-SB-12-1012' (620-10117-18MSD)	3/3/23	09:25 Eastern	MSD	Solid			X	X	1	
2023-SB-07-0002' (620-10117-19)	3/3/23	09:50 Eastern		Solid			X	X	1	
2023-SB-07-0204' (620-10117-20)	3/3/23	09:55 Eastern		Solid			X	X	1	
2023-SB-07-0406' (620-10117-21)	3/3/23	10:00 Eastern		Solid			X	X	1	
2023-SB-07-0608' (620-10117-22)	3/3/23	10:05 Eastern		Solid			X	X	1	
2023-SB-07-0810' (620-10117-23)	3/3/23	10:10 Eastern		Solid			X	X	1	
2023-SB-07-1012' (620-10117-24)	3/3/23	10:15 Eastern		Solid			X	X	1	
2023-MW-05-0002' (620-10117-25)	3/3/23	10:40 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	3/3/23 12:30	ENE	[signature]		
	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-05-0204' (620-10117-26)	3/3/23	10:45 Eastern		Solid			X	X	1	
2023-MW-05-0810' (620-10117-28)	3/3/23	10:55 Eastern		Solid			X	X	1	
2023-MW-05-0406' (620-10117-30)	3/3/23	11:05 Eastern		Solid			X	X	1	
2023-FD-06 (620-10117-31)	3/3/23	08:00 Eastern		Solid			X	X	1	
2023-FD-07 (620-10117-32)	3/3/23	08:05 Eastern		Solid			X	X	1	
2023-SB-06-0002' (620-10117-33)	3/3/23	11:35 Eastern		Solid			X	X	1	
2023-SB-06-0204' (620-10117-34)	3/3/23	11:40 Eastern		Solid			X	X	1	
2023-SB-06-0406' (620-10117-35)	3/3/23	11:45 Eastern		Solid			X	X	1	
2023-SB-06-0608' (620-10117-36)	3/3/23	11:50 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 12:30	EVE			
2	Relinquished by:	Date/Time:	Company	Received by: see pg	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-06-0810' (620-10117-37)	3/3/23	11:55 Eastern		Solid			X	X	1	
2023-SB-06-1012' (620-10117-38)	3/3/23	12:00 Eastern		Solid			X	X	1	
2023-SB-05-0002' (620-10117-41)	3/3/23	13:10 Eastern		Solid			X	X	1	
2023-SB-05-0204' (620-10117-42)	3/3/23	13:15 Eastern		Solid			X	X	1	
2023-SB-05-0406' (620-10117-43)	3/3/23	13:20 Eastern		Solid			X	X	1	
2023-SB-05-0406' (620-10117-43MS)	3/3/23	13:20 Eastern	MS	Solid			X	X	1	
2023-SB-05-0406' (620-10117-43MSD)	3/3/23	13:20 Eastern	MSD	Solid			X	X	1	
2023-SB-05-0608' (620-10117-44)	3/3/23	13:25 Eastern		Solid			X	X	1	
2023-SB-05-0810' (620-10117-45)	3/3/23	13:30 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/23/23 17:30	EWG	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			See pg 1		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8522.6
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 6 of 6
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-05-1012' (620-10117-46)	3/3/23	13:35 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/3/23 17:30	EWG	FedEx		
Relinquished by:	Date/Time:	Company	Received by: see pg 1	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8523.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10117-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-05-0608' (620-10117-27)	3/3/23	10:50 Eastern		Solid			X	X	1	
2023-MW-05-1012' (620-10117-29)	3/3/23	11:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/3/23 17:30	EAE			
2	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10117-1

Login Number: 10117
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10117-1

Login Number: 10117
List Number: 3
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/06/23 10:20 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10117-1

Login Number: 10117
List Number: 2
Creator: Roth, Stephanie

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/04/23 12:39 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10080-1

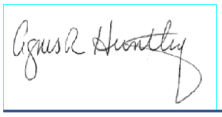
Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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3/28/2023 2:55:55 PM

Authorized for release by
Agnes Huntley, Project Manager
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10080-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10080-1 through 620-10080-33

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☑	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/28/2023

Job ID: 620-10080-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10080-1

Receipt
The samples were received on 3/2/2023 4:16 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method 8260C: The matrix spike duplicate (MSD) recoveries for preparation batch 620-20240 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20323 exhibited % difference of > 20% for the following analyte: Naphthalene; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20322 and analytical batch 620-20323 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20240 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: 2023-MW-07-0002' (620-10080-1). The sample(s) shows evidence of matrix interference.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2023-MW-07-0002' (620-10080-1). The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: tert-Butanol. (CCVIS 620-20361/3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20442/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 4,6-Dinitro-2-methylphenol, Benzidine, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachlorobutadiene and Pentachloronitrobenzene.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 2023-SB-04-0608' (620-10080-17), 2023-SB-04-0810' (620-10080-18) and 2023-SB-03-0608' (620-10080-23). These results have been reported and qualified.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20495/2) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Pentachloronitrobenzene.

Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 620-20475 and analytical batch 620-20495

Job ID: 620-10080-1 (Continued)

Laboratory: Eurofins New England (Continued)

recovered outside control limits for the following analytes: Benzoic acid. The affected target analytes recovered within acceptance limits in the LCS, therefore the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20475 and analytical batch 620-20495 recovered outside control limits for the following analytes: Benzoic acid.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20475 and analytical batch 620-20495 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20445 and analytical batch 620-20495 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The matrix spike (MS) and/or matrix spike duplicate (MSD) recovery for preparation batch 620-20445 and analytical batch 620-20495 was outside control limits for the following analyte(s): 2,4-Dinitrophenol. Results are above calibration range due to matrix interference, resulting in bias high analyte recovery.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20503/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 4,6-Dinitro-2-methylphenol, Benzidine, Benzoic acid and Pentachloronitrobenzene.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 2023-MW-04-0810' (620-10080-30) and 2023-FD-05 (620-10080-32). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-660571 and analytical batch 480-660522 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The method blank for preparation batch 480-660655 and analytical batch 480-660658 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082: The matrix spike duplicate (MSD) precision for preparation batch 620-20414 and analytical batch 620-20434 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method MAEPH2.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20278 and 620-20423 and analytical batch 620-20426 recovered outside control limits for the following analytes: Benzo[a]anthracene and Dibenz(a,h)anthracene. The individual percent recoveries are within acceptance criteria.

Methods 8082, 8082A: The following samples required a dilution due to the nature of the sample matrix: 2023-MW-07-0002' (620-10080-1[MS]) and 2023-MW-07-0002' (620-10080-1[MSD]). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Methods 8082, 8082A: The following samples were diluted due to the nature of the sample matrix: 2023-MW-07-0002' (620-10080-1[MS])

Job ID: 620-10080-1 (Continued)

Laboratory: Eurofins New England (Continued)

and 2023-MW-07-0002' (620-10080-1[MSD]). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Methods 8082, 8082A: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20450 and 620-20450 and analytical batch 620-20508 were outside control limits. Sample pattern interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082: The matrix spike duplicate (MSD) recovery for preparation batch 620-20412 and analytical batch 620-20434 was outside control limits on the primary column. Sample pattern interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method MAEPH2.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20278 and 620-20423 and analytical batch 620-20426 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Methods 8082, 8082A: Surrogate recovery was outside control limits for the following sample: (CCV 620-20558/6). The DCB Decachlorobiphenyl (Surr) for the 1242/1268 aroclor CCV was outside acceptance criteria due to pattern interference from aroclor 1268. The 1242/1268 aroclor target peaks were within acceptance criteria. The surrogate is reported based on the 1016/1260 continuing calibration.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-SB-04-0002' (620-10080-14), 2023-SB-04-0608' (620-10080-17), 2023-SB-03-0002' (620-10080-20), 2023-SB-03-0204' (620-10080-21), 2023-SB-03-0406' (620-10080-22), 2023-SB-03-0608' (620-10080-23), 2023-SB-03-0810' (620-10080-24), 2023-SB-03-1012' (620-10080-25), 2023-MW-04-0204' (620-10080-27), 2023-MW-04-0608' (620-10080-29), 2023-MW-04-0810' (620-10080-30) and 2023-MW-04-1012' (620-10080-31). Elevated reporting limits (RLs) are provided.

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-SS-06 (620-10080-7), 2023-SS-01 (620-10080-12) and 2023-SB-04-0810' (620-10080-18). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method 537 (modified): The recovery for the labeled isotope: d3-NMeFOSAA and d5-NEtFOSAA in the following sample: 2023-MW-07-0406' (620-10080-3) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s): d3-NMePFOSA and d5-NEtPFOSA were outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope: d3-NMeFOSAA and d5-NEtFOSAA in the following sample: 2023-SB-03-0002' (620-10080-20) and 2023-SB-03-0204' (620-10080-21) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s): d3-NMeFOSAA is again outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope: d3-NMePFOSA and d5-NEtPFOSA in the following sample: 2023-MW-04-0002' (620-10080-26) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s) is again outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope(s): 13C8 PFOA, 13C9 PFNA, 13C6 PFDA, 13C3 PFBS, 13C8 PFOS, d3-NMeFOSAA, d5-NEtFOSAA, 13C4 PFBA and 13C5 PFPeA in the following sample: 2023-MW-07-0204' (620-10080-2) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for labeled isotope(s) is again outside QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 620-10080-1 (Continued)

Laboratory: Eurofins New England (Continued)

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0002'

Lab Sample ID: 620-10080-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene - RA	0.00543	J *3	0.00612	0.00516	mg/Kg	1	☼	8260C	Total/NA
1-Methylnaphthalene	0.158		0.148	0.125	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.256		0.148	0.110	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.613		0.148	0.0974	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.758	F1	0.148	0.0859	mg/Kg	1	☼	8270D	Total/NA
Benzidine	0.666	J F1	1.47	0.217	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.78	F2 F1	0.148	0.0834	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.67	F2 F1	0.148	0.106	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2.75	F1	0.148	0.123	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.823		0.148	0.116	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.67	F2	0.148	0.115	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	4.12		0.371	0.0945	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.110	J	0.734	0.0736	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.276	J	0.371	0.0972	mg/Kg	1	☼	8270D	Total/NA
Chrysene	3.08	F1	0.148	0.0839	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.561		0.148	0.113	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.376		0.371	0.129	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	1.27		0.734	0.0785	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.93	F1	0.148	0.0870	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.942		0.148	0.126	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.835		0.148	0.142	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.18	F1	0.148	0.0841	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.32	F1	0.148	0.0819	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.667		0.312	0.160	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	0.205	J	0.312	0.134	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	0.248		0.0625	0.0425	mg/Kg	1	☼	MAVPH	Total/NA
Toluene	0.0250	J	0.0625	0.0125	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	0.692		0.312	0.160	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.0762	J	0.312	0.0437	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.281	J	0.312	0.134	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	8.60		0.221	0.172	mg/Kg	10	☼	8082	Total/NA
Arsenic	8.50		3.10	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	162	F1	0.516	0.155	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.282	J	0.516	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.93		1.55	0.361	mg/Kg	1	☼	6010D	Total/NA
Lead	19.3	F1	1.55	0.619	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.34		1.03	0.268	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.18		1.03	0.444	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.3		2.06	0.826	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.192		0.0633	0.0211	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-07-0204'

Lab Sample ID: 620-10080-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0392	J	0.0542	0.0368	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0313		0.0222	0.0173	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.93	J	3.08	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	17.6		0.513	0.154	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.469	J	0.513	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.16		1.54	0.359	mg/Kg	1	☼	6010D	Total/NA
Lead	7.22		1.54	0.615	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-07-0204' (Continued) — Lab Sample ID: 620-10080-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	2.83		1.03	0.267	mg/Kg	1	☼	6010D	Total/NA
Thallium	2.20	J	3.08	1.33	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.6		1.03	0.441	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.4		2.05	0.820	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-07-0406' — Lab Sample ID: 620-10080-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	0.00521	J	0.00561	0.00474	mg/Kg	1	☼	8260C	Total/NA
Acenaphthylene	0.112	J	0.143	0.0940	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.151		0.143	0.0828	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.320		0.143	0.0805	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.195		0.143	0.102	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.253		0.143	0.119	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.158		0.143	0.112	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.221		0.143	0.111	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.780		0.358	0.0912	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.333		0.143	0.0809	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.100	J	0.708	0.0758	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.314		0.143	0.0839	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.146		0.143	0.121	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.133	J	0.143	0.0811	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.276		0.143	0.0790	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.373		0.0214	0.0167	mg/Kg	1	☼	8082	Total/NA
Perfluorohexadecanoic acid - RE	0.250	J	0.634	0.211	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Perfluorooctadecanoic acid - RE	0.301	J	0.634	0.211	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	1.64	J	2.79	1.30	mg/Kg	1	☼	6010D	Total/NA
Barium	16.8		0.465	0.140	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.210	J	0.465	0.0930	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.32		1.40	0.326	mg/Kg	1	☼	6010D	Total/NA
Lead	3.37		1.40	0.558	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.30		0.930	0.242	mg/Kg	1	☼	6010D	Total/NA
Thallium	2.16	J	2.79	1.21	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.14		0.930	0.400	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.40		1.86	0.744	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-07-0608' — Lab Sample ID: 620-10080-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.79		2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	14.8		0.400	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.233	J	0.400	0.0801	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.20		1.20	0.280	mg/Kg	1	☼	6010D	Total/NA
Lead	3.94		1.20	0.481	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.19		0.801	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.46		0.801	0.344	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.3		1.60	0.641	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-07-0810' — Lab Sample ID: 620-10080-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.10	J	2.39	1.12	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-07-0810' (Continued)
Lab Sample ID: 620-10080-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	13.0		0.399	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.146	J	0.399	0.0797	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.84		1.20	0.279	mg/Kg	1	☼	6010D	Total/NA
Lead	2.32		1.20	0.478	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.67		0.797	0.207	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.21	J	2.39	1.04	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.56		0.797	0.343	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.80		1.59	0.638	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-07-1012'
Lab Sample ID: 620-10080-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.6		3.93	1.83	mg/Kg	1	☼	6010D	Total/NA
Barium	155		0.654	0.196	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.82		0.654	0.131	mg/Kg	1	☼	6010D	Total/NA
Chromium	37.7		1.96	0.458	mg/Kg	1	☼	6010D	Total/NA
Lead	14.7		1.96	0.785	mg/Kg	1	☼	6010D	Total/NA
Nickel	22.5		1.31	0.340	mg/Kg	1	☼	6010D	Total/NA
Thallium	13.6		3.93	1.70	mg/Kg	1	☼	6010D	Total/NA
Vanadium	64.8		1.31	0.563	mg/Kg	1	☼	6010D	Total/NA
Zinc	90.8		2.62	1.05	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SS-06
Lab Sample ID: 620-10080-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.516	J F1	0.594	0.0748	mg/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	0.0894	J	0.119	0.0271	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	6.40		0.260	0.202	mg/Kg	10	☼	8082	Total/NA
C11-C22 Aromatics	149		8.84	8.84	mg/Kg	1	☼	MAEPH2.1	Total/NA
C11-C22 Aromatics (Adjusted)	109		8.84	8.84	mg/Kg	1	☼	MAEPH2.1	Total/NA
Phenanthrene	9.13		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Anthracene	1.07		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Fluoranthene	10.6		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Pyrene	5.45		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Benzo[a]anthracene	3.99	*1	0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Chrysene	2.45		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Benzo[b]fluoranthene	1.67		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Benzo[k]fluoranthene	1.79		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Benzo[a]pyrene	1.20		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Indeno[1,2,3-cd]pyrene	1.38		0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Dibenz(a,h)anthracene	0.540	*1	0.441	0.441	mg/Kg	1	☼	MAEPH2.1	Total/NA
Arsenic	6.27		3.32	1.55	mg/Kg	1	☼	6010D	Total/NA
Barium	51.4	F1	0.553	0.166	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.637		0.553	0.111	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.02		0.553	0.111	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.7		1.66	0.387	mg/Kg	1	☼	6010D	Total/NA
Lead	17.0	F1 F2	1.66	0.663	mg/Kg	1	☼	6010D	Total/NA
Nickel	7.32		1.11	0.287	mg/Kg	1	☼	6010D	Total/NA
Vanadium	20.4		1.11	0.475	mg/Kg	1	☼	6010D	Total/NA
Zinc	49.7		2.21	0.884	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0418	J	0.0803	0.0268	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-05 — Lab Sample ID: 620-10080-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.344	J	0.552	0.0695	mg/Kg	1	☼	8260C	Total/NA
4-Isopropyltoluene	0.0826		0.0552	0.0153	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.735		0.0203	0.0158	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.15	J	3.14	1.47	mg/Kg	1	☼	6010D	Total/NA
Barium	20.6		0.524	0.157	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.245	J	0.524	0.105	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.21		1.57	0.367	mg/Kg	1	☼	6010D	Total/NA
Lead	7.58		1.57	0.628	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.07		1.05	0.272	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.54		1.05	0.450	mg/Kg	1	☼	6010D	Total/NA
Zinc	21.3		2.09	0.838	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SS-04 — Lab Sample ID: 620-10080-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.253	J	0.641	0.0807	mg/Kg	1	☼	8260C	Total/NA
Toluene	0.0264	J	0.0641	0.0103	mg/Kg	1	☼	8260C	Total/NA
1,2,4-Trimethylbenzene	0.0490	J	0.0641	0.0162	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	1.81		0.109	0.0849	mg/Kg	5	☼	8082	Total/NA
C9-C18 Aliphatics	11.0		7.15	7.15	mg/Kg	1	☼	MAEPH2.1	Total/NA
C19-C36 Aliphatics	13.7		7.15	7.15	mg/Kg	1	☼	MAEPH2.1	Total/NA
C11-C22 Aromatics	9.97		7.15	7.15	mg/Kg	1	☼	MAEPH2.1	Total/NA
C11-C22 Aromatics (Adjusted)	9.97		7.15	7.15	mg/Kg	1	☼	MAEPH2.1	Total/NA
Arsenic	3.32		3.02	1.41	mg/Kg	1	☼	6010D	Total/NA
Barium	21.0		0.504	0.151	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.299	J	0.504	0.101	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.21		1.51	0.353	mg/Kg	1	☼	6010D	Total/NA
Lead	16.8		1.51	0.605	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.08		1.01	0.262	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.53		1.01	0.433	mg/Kg	1	☼	6010D	Total/NA
Zinc	24.7		2.02	0.806	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0294	J	0.0628	0.0209	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SS-03 — Lab Sample ID: 620-10080-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.182	J	0.617	0.0777	mg/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	0.0947	J	0.123	0.0282	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	5.84		0.217	0.169	mg/Kg	10	☼	8082	Total/NA
C11-C22 Aromatics	20.0		7.80	7.80	mg/Kg	1	☼	MAEPH2.1	Total/NA
C11-C22 Aromatics (Adjusted)	20.0		7.80	7.80	mg/Kg	1	☼	MAEPH2.1	Total/NA
Arsenic	4.01		3.07	1.43	mg/Kg	1	☼	6010D	Total/NA
Barium	44.6		0.512	0.153	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.397	J	0.512	0.102	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.40		0.512	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.25		1.53	0.358	mg/Kg	1	☼	6010D	Total/NA
Lead	17.2		1.53	0.614	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.23		1.02	0.266	mg/Kg	1	☼	6010D	Total/NA
Vanadium	16.0		1.02	0.440	mg/Kg	1	☼	6010D	Total/NA
Zinc	54.7		2.05	0.819	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0419	J	0.0684	0.0228	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-02 — Lab Sample ID: 620-10080-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.191	J	0.536	0.0675	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.563		0.0213	0.0165	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.54	J	3.04	1.42	mg/Kg	1	☼	6010D	Total/NA
Barium	23.4		0.506	0.152	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.199	J	0.506	0.101	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.18		1.52	0.354	mg/Kg	1	☼	6010D	Total/NA
Lead	8.06		1.52	0.607	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.45		1.01	0.263	mg/Kg	1	☼	6010D	Total/NA
Thallium	2.49	J	3.04	1.32	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.79		1.01	0.435	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.0		2.02	0.810	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SS-01 — Lab Sample ID: 620-10080-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform - ME	0.00961	J	0.0659	0.00778	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	1.61		0.109	0.0847	mg/Kg	5	☼	8082	Total/NA
C11-C22 Aromatics	10.1		7.11	7.11	mg/Kg	1	☼	MAEPH2.1	Total/NA
C11-C22 Aromatics (Adjusted)	10.1		7.11	7.11	mg/Kg	1	☼	MAEPH2.1	Total/NA
Arsenic	3.03	J	3.24	1.51	mg/Kg	1	☼	6010D	Total/NA
Barium	22.0		0.539	0.162	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.331	J	0.539	0.108	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.31		1.62	0.378	mg/Kg	1	☼	6010D	Total/NA
Lead	8.52		1.62	0.647	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.64		1.08	0.280	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.16		1.08	0.464	mg/Kg	1	☼	6010D	Total/NA
Zinc	21.9		2.16	0.863	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-02 — Lab Sample ID: 620-10080-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
N-Propylbenzene - ME	0.0463	J	0.0553	0.0138	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.657		0.0206	0.0160	mg/Kg	1	☼	8082	Total/NA
C19-C36 Aliphatics	9.34		6.78	6.78	mg/Kg	1	☼	MAEPH2.1	Total/NA
C11-C22 Aromatics	23.9		6.78	6.78	mg/Kg	1	☼	MAEPH2.1	Total/NA
C11-C22 Aromatics (Adjusted)	23.9		6.78	6.78	mg/Kg	1	☼	MAEPH2.1	Total/NA
Arsenic	3.05		2.47	1.15	mg/Kg	1	☼	6010D	Total/NA
Barium	25.0		0.411	0.123	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.298	J	0.411	0.0823	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.26		1.23	0.288	mg/Kg	1	☼	6010D	Total/NA
Lead	8.09		1.23	0.494	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.76		0.823	0.214	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.09		0.823	0.354	mg/Kg	1	☼	6010D	Total/NA
Zinc	23.4		1.65	0.658	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0412	J	0.0642	0.0214	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-04-0002' — Lab Sample ID: 620-10080-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0620		0.0219	0.0170	mg/Kg	1	☼	8082	Total/NA
Arsenic	5.13		2.95	1.38	mg/Kg	1	☼	6010D	Total/NA
Barium	16.8		0.491	0.147	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client Sample ID: 2023-SB-04-0002' (Continued) Lab Sample ID: 620-10080-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.274	J	0.491	0.0983	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.19		1.47	0.344	mg/Kg	1	☼	6010D	Total/NA
Lead	2.84		1.47	0.590	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.04		0.983	0.256	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.97		0.983	0.423	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.56		1.97	0.786	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-04-0204' Lab Sample ID: 620-10080-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid	0.368	J	0.639	0.213	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	2.54		2.33	1.09	mg/Kg	1	☼	6010D	Total/NA
Barium	12.8		0.388	0.116	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.152	J	0.388	0.0776	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.60		1.16	0.271	mg/Kg	1	☼	6010D	Total/NA
Lead	1.68		1.16	0.465	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.19		0.776	0.202	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.06		0.776	0.333	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.80		1.55	0.620	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-04-0406' Lab Sample ID: 620-10080-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.268	J	0.425	0.108	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0991		0.0259	0.0201	mg/Kg	1	☼	8082	Total/NA
Perfluorooctanesulfonic acid	0.290	J	0.778	0.259	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	2.21	J	3.47	1.62	mg/Kg	1	☼	6010D	Total/NA
Barium	12.4		0.579	0.174	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.123	J	0.579	0.116	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.70		1.74	0.405	mg/Kg	1	☼	6010D	Total/NA
Lead	2.02		1.74	0.694	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.30		1.16	0.301	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.49		1.16	0.498	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.1		2.31	0.926	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-04-0608' Lab Sample ID: 620-10080-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.92		2.78	1.30	mg/Kg	1	☼	6010D	Total/NA
Barium	18.9		0.464	0.139	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.249	J	0.464	0.0928	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.01		1.39	0.325	mg/Kg	1	☼	6010D	Total/NA
Lead	2.78		1.39	0.557	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.25		0.928	0.241	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.96		0.928	0.399	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.8		1.86	0.742	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-04-0810' Lab Sample ID: 620-10080-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.3		3.31	1.54	mg/Kg	1	☼	6010D	Total/NA
Barium	133		0.551	0.165	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.78		0.551	0.110	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-04-0810' (Continued) — Lab Sample ID: 620-10080-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	32.9		1.65	0.386	mg/Kg	1	☼	6010D	Total/NA
Lead	16.4		1.65	0.661	mg/Kg	1	☼	6010D	Total/NA
Nickel	18.1		1.10	0.287	mg/Kg	1	☼	6010D	Total/NA
Vanadium	53.6		1.10	0.474	mg/Kg	1	☼	6010D	Total/NA
Zinc	67.9		2.20	0.882	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-04-1012' — Lab Sample ID: 620-10080-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0641		0.0243	0.0189	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.55		2.50	1.17	mg/Kg	1	☼	6010D	Total/NA
Barium	13.3		0.417	0.125	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.215	J	0.417	0.0833	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.37		1.25	0.292	mg/Kg	1	☼	6010D	Total/NA
Lead	2.19		1.25	0.500	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.96		0.833	0.217	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.79		0.833	0.358	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.8		1.67	0.667	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-03-0002' — Lab Sample ID: 620-10080-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C9-C12 Aliphatics (adjusted)	0.238	J	0.247	0.106	mg/Kg	1		MA VPH SUM	Total/NA
C9-C10 Aromatics	0.168	J	0.247	0.0346	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.406		0.247	0.106	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0502		0.0208	0.0162	mg/Kg	1	☼	8082	Total/NA
Perfluorooctanesulfonic acid	0.286	J	0.605	0.202	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	2.43	J	2.72	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	15.0		0.453	0.136	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.316	J	0.453	0.0906	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.34		1.36	0.317	mg/Kg	1	☼	6010D	Total/NA
Lead	2.89		1.36	0.544	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.51		0.906	0.236	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.81		0.906	0.390	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.66		1.81	0.725	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-03-0204' — Lab Sample ID: 620-10080-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.28		2.68	1.25	mg/Kg	1	☼	6010D	Total/NA
Barium	30.8		0.446	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.437	J	0.446	0.0892	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.62		1.34	0.312	mg/Kg	1	☼	6010D	Total/NA
Lead	3.35		1.34	0.535	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.44		0.892	0.232	mg/Kg	1	☼	6010D	Total/NA
Vanadium	12.6		0.892	0.384	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.4		1.78	0.714	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-03-0406' — Lab Sample ID: 620-10080-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.03	J	3.29	1.54	mg/Kg	1	☼	6010D	Total/NA
Barium	18.5		0.549	0.165	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-03-0406' (Continued) — Lab Sample ID: 620-10080-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.257	J	0.549	0.110	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.02		1.65	0.384	mg/Kg	1	☼	6010D	Total/NA
Lead	2.59		1.65	0.658	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.97		1.10	0.285	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.81		1.10	0.472	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.61		2.19	0.878	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-03-0608' — Lab Sample ID: 620-10080-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.73		3.32	1.55	mg/Kg	1	☼	6010D	Total/NA
Barium	32.5		0.554	0.166	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.414	J	0.554	0.111	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.36		1.66	0.388	mg/Kg	1	☼	6010D	Total/NA
Lead	3.32		1.66	0.664	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.10		1.11	0.288	mg/Kg	1	☼	6010D	Total/NA
Vanadium	13.9		1.11	0.476	mg/Kg	1	☼	6010D	Total/NA
Zinc	16.8		2.21	0.886	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-03-0810' — Lab Sample ID: 620-10080-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0216	J	0.0249	0.0194	mg/Kg	1	☼	8082	Total/NA
Antimony	1.88	J	5.38	1.83	mg/Kg	1	☼	6010D	Total/NA
Arsenic	7.89		3.23	1.51	mg/Kg	1	☼	6010D	Total/NA
Barium	101		0.538	0.161	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.32		0.538	0.108	mg/Kg	1	☼	6010D	Total/NA
Chromium	27.1		1.61	0.376	mg/Kg	1	☼	6010D	Total/NA
Lead	11.6		1.61	0.645	mg/Kg	1	☼	6010D	Total/NA
Nickel	18.1		1.08	0.280	mg/Kg	1	☼	6010D	Total/NA
Vanadium	45.5		1.08	0.462	mg/Kg	1	☼	6010D	Total/NA
Zinc	64.8		2.15	0.860	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-03-1012' — Lab Sample ID: 620-10080-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.20		2.71	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	34.5		0.451	0.135	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.481		0.451	0.0902	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.67		1.35	0.316	mg/Kg	1	☼	6010D	Total/NA
Lead	3.54		1.35	0.541	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.78		0.902	0.234	mg/Kg	1	☼	6010D	Total/NA
Vanadium	13.8		0.902	0.388	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.2		1.80	0.721	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-04-0002' — Lab Sample ID: 620-10080-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.0807	J	0.140	0.0771	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.792		0.0193	0.0150	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.35		3.18	1.49	mg/Kg	1	☼	6010D	Total/NA
Barium	35.2		0.531	0.159	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.262	J	0.531	0.106	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-04-0002' (Continued) — Lab Sample ID: 620-10080-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	6.28		1.59	0.372	mg/Kg	1	☼	6010D	Total/NA
Lead	5.41		1.59	0.637	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		1.06	0.276	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.71		1.06	0.457	mg/Kg	1	☼	6010D	Total/NA
Zinc	23.3		2.12	0.849	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-04-0204' — Lab Sample ID: 620-10080-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.320		0.0212	0.0165	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.52	J	2.74	1.28	mg/Kg	1	☼	6010D	Total/NA
Barium	21.6		0.456	0.137	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.203	J	0.456	0.0912	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.98		1.37	0.319	mg/Kg	1	☼	6010D	Total/NA
Lead	4.24		1.37	0.547	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.09		0.912	0.237	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.38		0.912	0.392	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.8		1.82	0.730	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-04-0406' — Lab Sample ID: 620-10080-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0391	J B	0.0532	0.0362	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.160		0.0228	0.0177	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.48	J	3.53	1.65	mg/Kg	1	☼	6010D	Total/NA
Barium	17.7		0.589	0.177	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.163	J	0.589	0.118	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.87		1.77	0.412	mg/Kg	1	☼	6010D	Total/NA
Lead	3.20		1.77	0.707	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.76		1.18	0.306	mg/Kg	1	☼	6010D	Total/NA
Thallium	2.16	J	3.53	1.53	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.04		1.18	0.507	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.8		2.36	0.942	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-04-0608' — Lab Sample ID: 620-10080-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.222	J	0.435	0.178	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.141		0.0262	0.0204	mg/Kg	1	☼	8082	Total/NA
Arsenic	8.20		2.76	1.29	mg/Kg	1	☼	6010D	Total/NA
Barium	94.7		0.461	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.41		0.461	0.0921	mg/Kg	1	☼	6010D	Total/NA
Chromium	25.3		1.38	0.322	mg/Kg	1	☼	6010D	Total/NA
Lead	12.5		1.38	0.553	mg/Kg	1	☼	6010D	Total/NA
Nickel	13.3		0.921	0.240	mg/Kg	1	☼	6010D	Total/NA
Vanadium	42.3		0.921	0.396	mg/Kg	1	☼	6010D	Total/NA
Zinc	59.5		1.84	0.737	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-04-0810' — Lab Sample ID: 620-10080-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.69	J	4.47	1.52	mg/Kg	1	☼	6010D	Total/NA
Arsenic	9.06		2.68	1.25	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-04-0810' (Continued)
Lab Sample ID: 620-10080-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	103		0.447	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.51		0.447	0.0895	mg/Kg	1	☼	6010D	Total/NA
Chromium	28.6		1.34	0.313	mg/Kg	1	☼	6010D	Total/NA
Lead	13.8		1.34	0.537	mg/Kg	1	☼	6010D	Total/NA
Nickel	16.1		0.895	0.233	mg/Kg	1	☼	6010D	Total/NA
Vanadium	47.1		0.895	0.385	mg/Kg	1	☼	6010D	Total/NA
Zinc	65.5		1.79	0.716	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0374	J	0.0778	0.0259	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-04-1012'
Lab Sample ID: 620-10080-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.76		3.36	1.57	mg/Kg	1	☼	6010D	Total/NA
Barium	52.8		0.560	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.705		0.560	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	14.6		1.68	0.392	mg/Kg	1	☼	6010D	Total/NA
Lead	5.16		1.68	0.672	mg/Kg	1	☼	6010D	Total/NA
Nickel	7.09		1.12	0.291	mg/Kg	1	☼	6010D	Total/NA
Vanadium	21.6		1.12	0.482	mg/Kg	1	☼	6010D	Total/NA
Zinc	35.0		2.24	0.896	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-05
Lab Sample ID: 620-10080-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.43	J	3.40	1.59	mg/Kg	1	☼	6010D	Total/NA
Barium	16.6		0.567	0.170	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.239	J	0.567	0.113	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.99		1.70	0.397	mg/Kg	1	☼	6010D	Total/NA
Lead	2.29		1.70	0.680	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.87		1.13	0.295	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.22		1.13	0.487	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.73		2.27	0.907	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-04
Lab Sample ID: 620-10080-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0235	J B	0.0500	0.0112	mg/Kg	1		8260C	Total/NA
Methylene Chloride	0.00985	J	0.0100	0.00268	mg/Kg	1		8260C	Total/NA
Toluene	0.0111		0.00500	0.00317	mg/Kg	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0002'
Date Collected: 03/01/23 14:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-1
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.00722	0.00471	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Acetone	ND	F1	0.0722	0.0162	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Acrylonitrile	ND		0.00722	0.00433	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Benzene	ND		0.00722	0.00482	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Bromobenzene	ND	F1	0.00722	0.00481	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Bromochloromethane	ND		0.00722	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Bromodichloromethane	ND		0.00722	0.00530	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Bromoform	ND		0.00722	0.00552	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Bromomethane	ND		0.0144	0.00900	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
2-Butanone (MEK)	ND		0.0144	0.00575	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
n-Butylbenzene	ND	*3	0.0144	0.00774	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
sec-Butylbenzene	ND		0.00722	0.00582	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
tert-Butylbenzene	ND		0.00722	0.00569	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Carbon disulfide	ND		0.0144	0.00507	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Carbon tetrachloride	ND		0.00722	0.00455	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Chlorobenzene	ND		0.00722	0.00529	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Chloroethane	ND	F1	0.0144	0.00530	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Chloroform	ND		0.00722	0.00485	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Chloromethane	ND		0.0144	0.00555	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
2-Chlorotoluene	ND		0.00722	0.00575	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
4-Chlorotoluene	ND		0.00722	0.00627	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0144	0.00613	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Dibromochloromethane	ND		0.00722	0.00478	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2-Dibromoethane (EDB)	ND		0.00722	0.00519	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Dibromomethane	ND		0.00722	0.00425	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2-Dichlorobenzene	ND	*3	0.00722	0.00670	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,3-Dichlorobenzene	ND	F1	0.00722	0.00579	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,4-Dichlorobenzene	ND	*3	0.00722	0.00685	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Dichlorodifluoromethane (Freon 12)	ND		0.0144	0.00387	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,1-Dichloroethane	ND	F1	0.00722	0.00490	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2-Dichloroethane	ND		0.00722	0.00487	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,1-Dichloroethene	ND		0.00722	0.00442	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
cis-1,2-Dichloroethene	ND		0.00722	0.00417	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
trans-1,2-Dichloroethene	ND		0.00722	0.00449	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2-Dichloropropane	ND	F1	0.00722	0.00478	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,3-Dichloropropane	ND		0.00722	0.00552	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
2,2-Dichloropropane	ND		0.00722	0.00498	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,1-Dichloropropene	ND		0.00722	0.00491	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
cis-1,3-Dichloropropene	ND		0.00722	0.00471	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
trans-1,3-Dichloropropene	ND		0.00722	0.00549	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Ethylbenzene	ND		0.00722	0.00516	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Hexachlorobutadiene	ND	*3	0.0144	0.00727	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
2-Hexanone (MBK)	ND	F1	0.0144	0.00425	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Isopropylbenzene	ND		0.00722	0.00546	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
4-Isopropyltoluene	ND	*3	0.00722	0.00709	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Methyl tert-butyl ether	ND		0.00722	0.00416	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
4-Methyl-2-pentanone (MIBK)	ND		0.0144	0.00467	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Methylene Chloride	ND		0.0144	0.00387	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Naphthalene	ND	F1 *3	0.00722	0.00653	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1

Client Sample ID: 2023-MW-07-0002' **Lab Sample ID: 620-10080-1**
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 88.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00722	0.00611	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Styrene	ND		0.00722	0.00559	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,1,1,2-Tetrachloroethane	ND		0.00722	0.00542	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,1,2,2-Tetrachloroethane	ND	F1	0.00722	0.00662	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Tetrachloroethene	ND		0.00722	0.00402	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Toluene	ND		0.00722	0.00458	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2,3-Trichlorobenzene	ND	F1 *3	0.00722	0.00610	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2,4-Trichlorobenzene	ND	F1	0.00722	0.00666	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,3,5-Trichlorobenzene	ND	F1 *3	0.00722	0.00686	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,1,1-Trichloroethane	ND		0.00722	0.00493	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,1,2-Trichloroethane	ND	F1	0.00722	0.00545	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Trichloroethene	ND		0.00722	0.00485	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Trichlorofluoromethane (Freon 11)	ND	F1	0.00722	0.00552	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2,3-Trichloropropane	ND		0.00722	0.00641	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,2,4-Trimethylbenzene	ND		0.00722	0.00611	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,3,5-Trimethylbenzene	ND		0.00722	0.00614	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Vinyl chloride	ND		0.00722	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
m,p-Xylene	ND		0.00722	0.00987	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
o-Xylene	ND		0.00722	0.00527	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Tetrahydrofuran	ND		0.0144	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Ethyl ether	ND		0.00722	0.00380	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Tert-amyl methyl ether	ND		0.00722	0.00571	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Ethyl tert-butyl ether	ND		0.00722	0.00475	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
di-Isopropyl ether	ND		0.00722	0.00516	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
tert-Butanol	ND		0.144	0.0387	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,4-Dioxane	ND		0.144	0.0449	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
trans-1,4-Dichloro-2-butene	ND	F1	0.0361	0.00533	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Ethanol	ND	F1	1.44	0.0896	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
1,3-Dichloropropene, Total	ND		0.00722	0.00549	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1
Xylenes, Total	ND		0.0217	0.00722	mg/Kg	☼	03/06/23 09:50	03/06/23 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:08*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:08*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:08*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00612	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Acetone	ND		0.0612	0.0137	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Acrylonitrile	ND		0.00612	0.00367	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Benzene	ND		0.00612	0.00409	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Bromobenzene	ND		0.00612	0.00407	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Bromochloromethane	ND		0.00612	0.00347	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Bromodichloromethane	ND		0.00612	0.00449	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Bromoform	ND		0.00612	0.00467	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Bromomethane	ND		0.0122	0.00762	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
2-Butanone (MEK)	ND		0.0122	0.00487	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0002'
Date Collected: 03/01/23 14:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-1
Matrix: Solid
Percent Solids: 88.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0122	0.00656	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
sec-Butylbenzene	ND		0.00612	0.00493	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
tert-Butylbenzene	ND		0.00612	0.00482	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Carbon disulfide	ND		0.0122	0.00429	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Carbon tetrachloride	ND		0.00612	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Chlorobenzene	ND		0.00612	0.00448	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Chloroethane	ND		0.0122	0.00449	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Chloroform	ND		0.00612	0.00411	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Chloromethane	ND		0.0122	0.00470	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
2-Chlorotoluene	ND		0.00612	0.00487	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
4-Chlorotoluene	ND		0.00612	0.00531	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0122	0.00519	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Dibromochloromethane	ND		0.00612	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2-Dibromoethane (EDB)	ND		0.00612	0.00439	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Dibromomethane	ND		0.00612	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2-Dichlorobenzene	ND	*3	0.00612	0.00568	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,3-Dichlorobenzene	ND		0.00612	0.00491	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,4-Dichlorobenzene	ND	*3	0.00612	0.00580	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Dichlorodifluoromethane (Freon 12)	ND		0.0122	0.00328	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,1-Dichloroethane	ND		0.00612	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2-Dichloroethane	ND		0.00612	0.00412	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,1-Dichloroethene	ND		0.00612	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
cis-1,2-Dichloroethene	ND		0.00612	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
trans-1,2-Dichloroethene	ND		0.00612	0.00380	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2-Dichloropropane	ND		0.00612	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,3-Dichloropropane	ND		0.00612	0.00467	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
2,2-Dichloropropane	ND		0.00612	0.00422	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,1-Dichloropropene	ND		0.00612	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
cis-1,3-Dichloropropene	ND		0.00612	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
trans-1,3-Dichloropropene	ND		0.00612	0.00465	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Ethylbenzene	ND		0.00612	0.00437	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Hexachlorobutadiene	ND	*3	0.0122	0.00615	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
2-Hexanone (MBK)	ND		0.0122	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Isopropylbenzene	ND		0.00612	0.00462	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
4-Isopropyltoluene	ND	*3	0.00612	0.00601	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Methyl tert-butyl ether	ND		0.00612	0.00352	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.0122	0.00395	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Methylene Chloride	ND		0.0122	0.00328	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Naphthalene	ND	*3	0.00612	0.00553	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
N-Propylbenzene	ND		0.00612	0.00517	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Styrene	ND		0.00612	0.00473	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,1,1,2-Tetrachloroethane	ND		0.00612	0.00459	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.00612	0.00560	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Tetrachloroethene	ND		0.00612	0.00340	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Toluene	ND		0.00612	0.00388	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2,3-Trichlorobenzene	**0.00543**	**J *3**	0.00612	0.00516	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2,4-Trichlorobenzene	ND		0.00612	0.00564	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,3,5-Trichlorobenzene	ND	*3	0.00612	0.00581	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,1,1-Trichloroethane	ND		0.00612	0.00417	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1

Client Sample ID: 2023-MW-07-0002' **Lab Sample ID: 620-10080-1**
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 88.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00612	0.00461	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Trichloroethene	ND		0.00612	0.00411	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00612	0.00467	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2,3-Trichloropropane	ND		0.00612	0.00543	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,2,4-Trimethylbenzene	ND		0.00612	0.00517	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,3,5-Trimethylbenzene	ND		0.00612	0.00520	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Vinyl chloride	ND		0.00612	0.00373	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
m,p-Xylene	ND		0.00612	0.00836	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
o-Xylene	ND		0.00612	0.00447	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Tetrahydrofuran	ND		0.0122	0.00310	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Ethyl ether	ND		0.00612	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Tert-amyl methyl ether	ND		0.00612	0.00483	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Ethyl tert-butyl ether	ND		0.00612	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
di-Isopropyl ether	ND		0.00612	0.00437	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
tert-Butanol	ND		0.122	0.0328	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,4-Dioxane	ND		0.122	0.0380	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
trans-1,4-Dichloro-2-butene	ND		0.0306	0.00451	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Ethanol	ND		1.22	0.0758	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
1,3-Dichloropropene, Total	ND		0.00612	0.00465	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1
Xylenes, Total	ND		0.0184	0.00612	mg/Kg	☼	03/07/23 09:52	03/07/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/07/23 09:52*	*03/07/23 14:58*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 14:58*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 14:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.734	0.131	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
1,2,4-Trichlorobenzene	ND		0.734	0.168	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
1,2-Dichlorobenzene	ND		0.734	0.141	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
1,3-Dichlorobenzene	ND		0.734	0.178	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
1,4-Dichlorobenzene	ND		0.734	0.173	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
1-Methylnaphthalene	**0.158**		0.148	0.125	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2,4,5-Trichlorophenol	ND		0.734	0.0841	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2,4,6-Trichlorophenol	ND		0.371	0.0908	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2,4-Dichlorophenol	ND		0.371	0.148	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2,4-Dimethylphenol	ND		0.734	0.108	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2,4-Dinitrophenol	ND	F2 F1	0.734	0.193	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2,4-Dinitrotoluene	ND		0.371	0.0870	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2,6-Dinitrotoluene	ND		0.371	0.0870	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2-Chloronaphthalene	ND		0.734	0.170	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2-Chlorophenol	ND		0.371	0.152	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2-Methylnaphthalene	**0.256**		0.148	0.110	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2-Methylphenol	ND		0.734	0.107	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2-Nitroaniline	ND		0.734	0.0698	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
2-Nitrophenol	ND		0.371	0.132	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
3 & 4 Methylphenol	ND		0.734	0.139	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
3,3'-Dichlorobenzidine	ND	F1	0.734	0.121	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1

Client Sample ID: 2023-MW-07-0002' **Lab Sample ID: 620-10080-1**
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 88.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND	F1	0.734	0.0656	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
4,6-Dinitro-2-methylphenol	ND		0.734	0.132	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
4-Bromophenyl phenyl ether	ND		0.734	0.0830	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
4-Chloro-3-methylphenol	ND		0.734	0.144	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
4-Chloroaniline	ND	F1	0.371	0.0563	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
4-Chlorophenyl phenyl ether	ND		0.734	0.0785	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
4-Nitroaniline	ND	F1	0.371	0.117	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
4-Nitrophenol	ND		0.734	0.256	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Acenaphthene	ND		0.148	0.118	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Acenaphthylene	**0.613**		0.148	0.0974	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Acetophenone	ND		0.371	0.0905	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Aniline	ND	F1	0.734	0.0563	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Anthracene	**0.758**	**F1**	0.148	0.0859	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Azobenzene/Diphenyldiazene	ND		0.734	0.125	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzidine	**0.666**	**J F1**	1.47	0.217	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzo[a]anthracene	**2.78**	**F2 F1**	0.148	0.0834	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzo[a]pyrene	**1.67**	**F2 F1**	0.148	0.106	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzo[b]fluoranthene	**2.75**	**F1**	0.148	0.123	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzo[g,h,i]perylene	**0.823**		0.148	0.116	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzo[k]fluoranthene	**1.67**	**F2**	0.148	0.115	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzoic acid	ND		0.734	0.505	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Benzyl alcohol	ND		0.734	0.133	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Bis(2-chloroethoxy)methane	ND		0.734	0.128	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Bis(2-chloroethyl)ether	ND		0.371	0.121	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
bis (2-chloroisopropyl) ether	ND		0.371	0.165	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Bis(2-ethylhexyl) phthalate	**4.12**		0.371	0.0945	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Butyl benzyl phthalate	**0.110**	**J**	0.734	0.0736	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Carbazole	**0.276**	**J**	0.371	0.0972	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Chrysene	**3.08**	**F1**	0.148	0.0839	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Dibenz(a,h)anthracene	**0.561**		0.148	0.113	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Dibenzofuran	**0.376**		0.371	0.129	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Diethyl phthalate	ND		0.734	0.0805	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Dimethyl phthalate	ND		0.734	0.0956	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Di-n-butyl phthalate	**1.27**		0.734	0.0785	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Di-n-octyl phthalate	ND		0.734	0.121	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Fluoranthene	**2.93**	**F1**	0.148	0.0870	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Fluorene	ND		0.148	0.135	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Hexachlorobenzene	ND		0.371	0.103	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Hexachlorobutadiene	ND		0.371	0.185	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Hexachlorocyclopentadiene	ND		0.371	0.142	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Hexachloroethane	ND		0.371	0.146	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Indeno[1,2,3-cd]pyrene	**0.942**		0.148	0.126	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Isophorone	ND		0.371	0.102	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Naphthalene	**0.835**		0.148	0.142	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Nitrobenzene	ND		0.371	0.171	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
N-Nitrosodimethylamine	ND		0.371	0.0974	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
N-Nitrosodi-n-propylamine	ND		0.371	0.148	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
N-Nitrosodiphenylamine	ND		0.734	0.0936	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Pentachloronitrobenzene	ND		0.734	0.116	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1

Client Sample ID: 2023-MW-07-0002' **Lab Sample ID: 620-10080-1**
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 88.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.734	0.300	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Phenanthrene	**1.18**	**F1**	0.148	0.0841	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Phenol	ND		0.734	0.151	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Pyrene	**2.32**	**F1**	0.148	0.0819	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1
Pyridine	ND	F1	0.734	0.174	mg/Kg	☼	03/10/23 11:19	03/13/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/10/23 11:19*	*03/13/23 23:20*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/10/23 11:19*	*03/13/23 23:20*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/10/23 11:19*	*03/13/23 23:20*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/10/23 11:19*	*03/13/23 23:20*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/10/23 11:19*	*03/13/23 23:20*	*1*
Terphenyl-d14	*68*		*30 - 130*	*03/10/23 11:19*	*03/13/23 23:20*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.667**		0.312	0.160	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	**0.205**	**J**	0.312	0.134	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0625	0.0125	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
Ethylbenzene	ND		0.0625	0.0125	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
Methyl tert-butyl ether	ND		0.0625	0.0125	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
m,p-Xylene	ND		0.125	0.0125	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
Naphthalene	**0.248**		0.0625	0.0425	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
o-Xylene	ND		0.0625	0.0125	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
Toluene	**0.0250**	**J**	0.0625	0.0125	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
C5-C8 Aliphatics (unadjusted)	**0.692**		0.312	0.160	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
C9-C10 Aromatics	**0.0762**	**J**	0.312	0.0437	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1
C9-C12 Aliphatics (unadjusted)	**0.281**	**J**	0.312	0.134	mg/Kg	☼	03/06/23 10:00	03/06/23 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/06/23 10:00*	*03/06/23 12:01*	*1*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/06/23 10:00*	*03/06/23 12:01*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.221	0.159	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1221	ND		0.221	0.0653	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1232	ND		0.221	0.0612	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1242	ND		0.221	0.0349	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1248	ND		0.221	0.0691	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1254	**8.60**		0.221	0.172	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1262	ND		0.221	0.0515	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1260	ND	F1	0.221	0.0475	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10
PCB-1268	ND		0.221	0.0471	mg/Kg	☼	03/10/23 15:06	03/14/23 12:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/10/23 15:06*	*03/14/23 12:52*	*10*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/10/23 15:06*	*03/14/23 12:52*	*10*

Client Sample ID: 2023-MW-07-0002' **Lab Sample ID: 620-10080-1**
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 88.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	132		30 - 150	03/10/23 15:06	03/14/23 12:52	10
DCB Decachlorobiphenyl (Surr)	131		30 - 150	03/10/23 15:06	03/14/23 12:52	10

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluoroheptanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorooctanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorononanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorodecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorotridecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorotetradecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorobutanesulfonic acid	ND		2.21	0.441	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorohexanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorooctanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
NEtFOSAA	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
NMeFOSAA	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
10:2 FTS	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluoropentanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluoroheptanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorononanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorodecanesulfonic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorooctanesulfonamide	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorohexadecanoic acid	ND	F2	0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorooctadecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorobutanoic acid	ND		2.21	0.882	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluoropentanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
NMeFOSE	ND		2.21	0.551	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
NMeFOSA	ND		2.21	0.551	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
NEtFOSE	ND		2.21	0.551	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
NEtFOSA	ND		2.21	0.551	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
HFPODA	ND		2.21	1.10	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
DONA	ND		3.31	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
9Cl-PF3ONS	ND		2.21	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
11Cl-PF3OUdS	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluorododecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
4:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
Perfluoroundecanoic acid	ND		0.662	0.221	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
6:2 Fluorotelomer sulfonic acid	ND		2.21	0.662	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1
8:2 Fluorotelomer sulfonic acid	ND		3.31	0.662	ug/Kg	☼	03/07/23 22:57	03/16/23 04:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	61		10 - 200	03/07/23 22:57	03/16/23 04:10	1
M2-8:2 FTS	69		15 - 200	03/07/23 22:57	03/16/23 04:10	1
M2-6:2 FTS	62		10 - 200	03/07/23 22:57	03/16/23 04:10	1
13C5 PFHxA	57		10 - 174	03/07/23 22:57	03/16/23 04:10	1
13C4 PFHpA	59		10 - 178	03/07/23 22:57	03/16/23 04:10	1
13C8 PFOA	65		26 - 159	03/07/23 22:57	03/16/23 04:10	1

Client Sample ID: 2023-MW-07-0002' **Lab Sample ID: 620-10080-1**
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 88.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	65		26 - 165	03/07/23 22:57	03/16/23 04:10	1
13C6 PFDA	67		26 - 161	03/07/23 22:57	03/16/23 04:10	1
13C7 PFUnA	66		12 - 173	03/07/23 22:57	03/16/23 04:10	1
13C2-PFDoDA	70		11 - 166	03/07/23 22:57	03/16/23 04:10	1
13C2 PFTeDA	75		10 - 169	03/07/23 22:57	03/16/23 04:10	1
13C3 PFBS	88		27 - 179	03/07/23 22:57	03/16/23 04:10	1
13C3 PFHxS	98		24 - 171	03/07/23 22:57	03/16/23 04:10	1
13C8 PFOS	93		41 - 154	03/07/23 22:57	03/16/23 04:10	1
d3-NMeFOSAA	25		10 - 178	03/07/23 22:57	03/16/23 04:10	1
d5-NEtFOSAA	32		10 - 193	03/07/23 22:57	03/16/23 04:10	1
13C8 FOSA	67		14 - 163	03/07/23 22:57	03/16/23 04:10	1
13C4 PFBA	46		28 - 153	03/07/23 22:57	03/16/23 04:10	1
13C5 PFPeA	49		24 - 161	03/07/23 22:57	03/16/23 04:10	1
d7-N-MeFOSE-M	63		10 - 179	03/07/23 22:57	03/16/23 04:10	1
d3-NMePFOSA	16		10 - 175	03/07/23 22:57	03/16/23 04:10	1
d9-N-EtFOSE-M	68		10 - 185	03/07/23 22:57	03/16/23 04:10	1
d5-NEtPFOSA	18		10 - 180	03/07/23 22:57	03/16/23 04:10	1
13C3 HFPO-DA	63		10 - 169	03/07/23 22:57	03/16/23 04:10	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.16	1.75	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Arsenic	**8.50**		3.10	1.44	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Barium	**162**	**F1**	0.516	0.155	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Beryllium	**0.282**	**J**	0.516	0.103	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Cadmium	ND		0.516	0.103	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Chromium	**4.93**		1.55	0.361	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Lead	**19.3**	**F1**	1.55	0.619	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Nickel	**2.34**		1.03	0.268	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Selenium	ND		5.16	1.55	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Silver	ND	^3+	1.03	0.413	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Thallium	ND	F1	3.10	1.34	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Vanadium	**9.18**		1.03	0.444	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1
Zinc	**17.3**		2.06	0.826	mg/Kg	☼	03/09/23 00:11	03/13/23 20:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.192**		0.0633	0.0211	mg/Kg	☼	03/08/23 00:50	03/09/23 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.1**		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	**88.9**		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07-0204'
Lab Sample ID: 620-10080-2
Date Collected: 03/01/23 14:10
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 87.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00551	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Acetone	ND		0.0551	0.0123	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Acrylonitrile	ND		0.00551	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Benzene	ND		0.00551	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Bromobenzene	ND		0.00551	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Bromochloromethane	ND		0.00551	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Bromodichloromethane	ND		0.00551	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Bromoform	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Bromomethane	ND		0.0110	0.00687	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
2-Butanone (MEK)	ND		0.0110	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
n-Butylbenzene	ND		0.0110	0.00591	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
sec-Butylbenzene	ND		0.00551	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
tert-Butylbenzene	ND		0.00551	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Carbon disulfide	ND		0.0110	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Carbon tetrachloride	ND		0.00551	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Chlorobenzene	ND		0.00551	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Chloroethane	ND		0.0110	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Chloroform	ND		0.00551	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Chloromethane	ND		0.0110	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
2-Chlorotoluene	ND		0.00551	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
4-Chlorotoluene	ND		0.00551	0.00479	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2-Dibromo-3-Chloropropane	ND		0.0110	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Dibromochloromethane	ND		0.00551	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2-Dibromoethane (EDB)	ND		0.00551	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Dibromomethane	ND		0.00551	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2-Dichlorobenzene	ND		0.00551	0.00512	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,3-Dichlorobenzene	ND		0.00551	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,4-Dichlorobenzene	ND		0.00551	0.00523	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Dichlorodifluoromethane (Freon 12)	ND		0.0110	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,1-Dichloroethane	ND		0.00551	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2-Dichloroethane	ND		0.00551	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,1-Dichloroethene	ND		0.00551	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
cis-1,2-Dichloroethene	ND		0.00551	0.00319	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
trans-1,2-Dichloroethene	ND		0.00551	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2-Dichloropropane	ND		0.00551	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,3-Dichloropropane	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
2,2-Dichloropropane	ND		0.00551	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,1-Dichloropropene	ND		0.00551	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
cis-1,3-Dichloropropene	ND		0.00551	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
trans-1,3-Dichloropropene	ND		0.00551	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Ethylbenzene	ND		0.00551	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Hexachlorobutadiene	ND		0.0110	0.00555	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
2-Hexanone (MBK)	ND		0.0110	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Isopropylbenzene	ND		0.00551	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
4-Isopropyltoluene	ND		0.00551	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Methyl tert-butyl ether	ND		0.00551	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00356	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Methylene Chloride	ND		0.0110	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Naphthalene	ND		0.00551	0.00498	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1

Client Sample ID: 2023-MW-07-0204' **Lab Sample ID: 620-10080-2**
Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 87.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00551	0.00466	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Styrene	ND		0.00551	0.00427	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,1,1,2-Tetrachloroethane	ND		0.00551	0.00413	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,1,2,2-Tetrachloroethane	ND		0.00551	0.00505	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Tetrachloroethene	ND		0.00551	0.00307	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Toluene	ND		0.00551	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2,3-Trichlorobenzene	ND		0.00551	0.00465	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2,4-Trichlorobenzene	ND		0.00551	0.00508	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,3,5-Trichlorobenzene	ND		0.00551	0.00524	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,1,1-Trichloroethane	ND		0.00551	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,1,2-Trichloroethane	ND		0.00551	0.00416	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Trichloroethene	ND		0.00551	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Trichlorofluoromethane (Freon 11)	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2,3-Trichloropropane	ND		0.00551	0.00490	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,2,4-Trimethylbenzene	ND		0.00551	0.00466	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,3,5-Trimethylbenzene	ND		0.00551	0.00469	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Vinyl chloride	ND		0.00551	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
m,p-Xylene	ND		0.00551	0.00753	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
o-Xylene	ND		0.00551	0.00402	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Tetrahydrofuran	ND		0.0110	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Ethyl ether	ND		0.00551	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Tert-amyl methyl ether	ND		0.00551	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Ethyl tert-butyl ether	ND		0.00551	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
di-Isopropyl ether	ND		0.00551	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
tert-Butanol	ND		0.110	0.0295	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,4-Dioxane	ND		0.110	0.0343	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
trans-1,4-Dichloro-2-butene	ND		0.0276	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Ethanol	ND		1.10	0.0684	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
1,3-Dichloropropene, Total	ND		0.00551	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1
Xylenes, Total	ND		0.0165	0.00551	mg/Kg	☼	03/03/23 10:32	03/03/23 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/03/23 10:32*	*03/03/23 22:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 22:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 22:21*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 22:21*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.374	0.0666	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
1,2,4-Trichlorobenzene	ND		0.374	0.0858	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
1,2-Dichlorobenzene	ND		0.374	0.0721	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
1,3-Dichlorobenzene	ND		0.374	0.0906	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
1,4-Dichlorobenzene	ND		0.374	0.0881	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
1-Methylnaphthalene	ND		0.0757	0.0635	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2,4,5-Trichlorophenol	ND		0.374	0.0429	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2,4,6-Trichlorophenol	ND		0.189	0.0463	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2,4-Dichlorophenol	ND		0.189	0.0754	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2,4-Dimethylphenol	ND		0.374	0.0549	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2,4-Dinitrophenol	ND		0.374	0.0985	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0204'
Date Collected: 03/01/23 14:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-2
Matrix: Solid
Percent Solids: 87.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.189	0.0444	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2,6-Dinitrotoluene	ND		0.189	0.0444	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2-Chloronaphthalene	ND		0.374	0.0865	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2-Chlorophenol	ND		0.189	0.0775	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2-Methylnaphthalene	ND		0.0757	0.0559	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2-Methylphenol	ND		0.374	0.0547	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2-Nitroaniline	ND		0.374	0.0356	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
2-Nitrophenol	ND		0.189	0.0673	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
3 & 4 Methylphenol	ND		0.374	0.0709	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
3,3'-Dichlorobenzidine	ND		0.374	0.0618	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
3-Nitroaniline	ND		0.374	0.0335	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
4,6-Dinitro-2-methylphenol	ND		0.374	0.0673	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
4-Bromophenyl phenyl ether	ND		0.374	0.0423	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
4-Chloro-3-methylphenol	ND		0.374	0.0733	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
4-Chloroaniline	ND		0.189	0.0287	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
4-Chlorophenyl phenyl ether	ND		0.374	0.0400	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
4-Nitroaniline	ND		0.189	0.0598	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
4-Nitrophenol	ND		0.374	0.130	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Acenaphthene	ND		0.0757	0.0603	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Acenaphthylene	ND		0.0757	0.0497	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Acetophenone	ND		0.189	0.0462	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Aniline	ND		0.374	0.0287	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Anthracene	ND		0.0757	0.0438	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Azobenzene/Diphenyldiazene	ND		0.374	0.0639	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzidine	ND		0.749	0.111	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzo[a]anthracene	ND		0.0757	0.0425	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzo[a]pyrene	ND		0.0757	0.0541	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzo[b]fluoranthene	ND		0.0757	0.0627	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzo[g,h,i]perylene	ND		0.0757	0.0591	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzo[k]fluoranthene	ND		0.0757	0.0589	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzoic acid	ND		0.374	0.257	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Benzyl alcohol	ND		0.374	0.0678	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Bis(2-chloroethoxy)methane	ND		0.374	0.0651	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Bis(2-chloroethyl)ether	ND		0.189	0.0619	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
bis (2-chloroisopropyl) ether	ND		0.189	0.0843	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Bis(2-ethylhexyl) phthalate	ND		0.189	0.0482	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Butyl benzyl phthalate	ND		0.374	0.0375	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Carbazole	ND		0.189	0.0496	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Chrysene	ND		0.0757	0.0428	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Dibenz(a,h)anthracene	ND		0.0757	0.0577	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Dibenzofuran	ND		0.189	0.0656	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Diethyl phthalate	ND		0.374	0.0411	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Dimethyl phthalate	ND		0.374	0.0488	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Di-n-butyl phthalate	ND		0.374	0.0400	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Di-n-octyl phthalate	ND		0.374	0.0618	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Fluoranthene	ND		0.0757	0.0444	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Fluorene	ND		0.0757	0.0691	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Hexachlorobenzene	ND		0.189	0.0525	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Hexachlorobutadiene	ND		0.189	0.0945	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1

Client Sample ID: 2023-MW-07-0204' **Lab Sample ID: 620-10080-2**
Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 87.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.189	0.0724	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Hexachloroethane	ND		0.189	0.0744	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0757	0.0642	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Isophorone	ND		0.189	0.0518	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Naphthalene	ND		0.0757	0.0726	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Nitrobenzene	ND		0.189	0.0875	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
N-Nitrosodimethylamine	ND		0.189	0.0497	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
N-Nitrosodi-n-propylamine	ND		0.189	0.0754	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
N-Nitrosodiphenylamine	ND		0.374	0.0478	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Pentachloronitrobenzene	ND		0.374	0.0591	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Pentachlorophenol	ND		0.374	0.153	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Phenanthrene	ND		0.0757	0.0429	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Phenol	ND		0.374	0.0771	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Pyrene	ND		0.0757	0.0417	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1
Pyridine	ND		0.374	0.0886	mg/Kg	☼	03/10/23 11:19	03/10/23 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/10/23 11:19*	*03/10/23 19:36*	*1*
2-Fluorophenol (Surr)	*96*		*15 - 110*	*03/10/23 11:19*	*03/10/23 19:36*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*03/10/23 11:19*	*03/10/23 19:36*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/10/23 11:19*	*03/10/23 19:36*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*15 - 110*	*03/10/23 11:19*	*03/10/23 19:36*	*1*
Terphenyl-d14	*74*		*30 - 130*	*03/10/23 11:19*	*03/10/23 19:36*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.271	0.139	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.271	0.116	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
Ethylbenzene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
Methyl tert-butyl ether	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
m,p-Xylene	ND		0.108	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
Naphthalene	**0.0392**	**J**	0.0542	0.0368	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
o-Xylene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
Toluene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
C5-C8 Aliphatics (unadjusted)	ND		0.271	0.139	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
C9-C10 Aromatics	ND		0.271	0.0379	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1
C9-C12 Aliphatics (unadjusted)	ND		0.271	0.116	mg/Kg	☼	03/06/23 10:00	03/06/23 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/06/23 10:00*	*03/06/23 13:59*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/06/23 10:00*	*03/06/23 13:59*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0222	0.0160	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1
PCB-1221	ND		0.0222	0.00656	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1
PCB-1232	ND		0.0222	0.00615	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1

Client Sample ID: 2023-MW-07-0204' **Lab Sample ID: 620-10080-2**
Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 87.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0222	0.00351	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1
PCB-1248	ND		0.0222	0.00694	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1
PCB-1254	**0.0313**		0.0222	0.0173	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1
PCB-1262	ND		0.0222	0.00518	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1
PCB-1260	ND		0.0222	0.00478	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1
PCB-1268	ND		0.0222	0.00473	mg/Kg	☼	03/10/23 15:06	03/14/23 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:05*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:05*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:05*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:05*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluoroheptanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorooctanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorononanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorodecanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorotridecanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorotetradecanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorobutanesulfonic acid	ND		2.28	0.455	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorohexanesulfonic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorooctanesulfonic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
10:2 FTS	ND		2.28	0.683	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluoropentanesulfonic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluoroheptanesulfonic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorononanesulfonic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorodecanesulfonic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorooctanesulfonamide	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorohexadecanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorooctadecanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorobutanoic acid	ND		2.28	0.910	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluoropentanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
NMeFOSE	ND		2.28	0.569	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
NMeFOSA	ND		2.28	0.569	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
NEtFOSE	ND		2.28	0.569	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
NEtFOSA	ND		2.28	0.569	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
DONA	ND		3.41	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
11Cl-PF3OUdS	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluorododecanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.683	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
Perfluoroundecanoic acid	ND		0.683	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1

Client Sample ID: 2023-MW-07-0204' **Lab Sample ID: 620-10080-2**
Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 87.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.683	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1
8:2 Fluorotelomer sulfonic acid	ND		3.41	0.683	ug/Kg	☼	03/07/23 22:57	03/16/23 04:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*12*		*10 - 200*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
M2-8:2 FTS	*17*		*15 - 200*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
M2-6:2 FTS	*14*		*10 - 200*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C5 PFHxA	*16*		*10 - 174*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C4 PFHpA	*17*		*10 - 178*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C8 PFOA	*17*	**5-*	*26 - 159*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C9 PFNA	*17*	**5-*	*26 - 165*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C6 PFDA	*18*	**5-*	*26 - 161*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C7 PFUnA	*18*		*12 - 173*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C2-PFDoDA	*19*		*11 - 166*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C2 PFTeDA	*21*		*10 - 169*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C3 PFBS	*25*	**5-*	*27 - 179*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C3 PFHxS	*28*		*24 - 171*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C8 PFOS	*29*	**5-*	*41 - 154*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
d5-NEtFOSAA	*2*	**5-*	*10 - 193*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C4 PFBA	*14*	**5-*	*28 - 153*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C5 PFPeA	*14*	**5-*	*24 - 161*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
d7-N-MeFOSE-M	*112*		*10 - 179*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
d9-N-EtFOSE-M	*109*		*10 - 185*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/07/23 22:57*	*03/16/23 04:43*	*1*
13C3 HFPO-DA	*21*		*10 - 169*	*03/07/23 22:57*	*03/16/23 04:43*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluoroheptanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorooctanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorononanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorodecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorotridecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorotetradecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorobutanesulfonic acid	ND		2.17	0.433	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorohexanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorooctanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
10:2 FTS	ND		2.17	0.650	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluoropentanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluoroheptanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorononanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorodecanesulfonic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorooctanesulfonamide	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1

Client Sample ID: 2023-MW-07-0204' **Lab Sample ID: 620-10080-2**
Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 87.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorooctadecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorobutanoic acid	ND		2.17	0.867	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluoropentanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
NMeFOSE	ND		2.17	0.542	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
NMeFOSA	ND		2.17	0.542	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
NEtFOSE	ND		2.17	0.542	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
NEtFOSA	ND		2.17	0.542	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
HFPODA	ND		2.17	1.08	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
DONA	ND		3.25	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
11Cl-PF3OUdS	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluorododecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
Perfluoroundecanoic acid	ND		0.650	0.217	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.650	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.650	ug/Kg	☼	03/20/23 00:33	03/21/23 05:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*13*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
M2-8:2 FTS	*14*	**5-*	*15 - 200*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
M2-6:2 FTS	*17*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C5 PFHxA	*16*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C4 PFHpA	*18*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C8 PFOA	*17*	**5-*	*26 - 159*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C9 PFNA	*17*	**5-*	*26 - 165*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C6 PFDA	*17*	**5-*	*26 - 161*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C7 PFUnA	*18*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C2-PFDoDA	*17*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C2 PFTeDA	*18*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C3 PFBS	*24*	**5-*	*27 - 179*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C3 PFHxS	*27*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C8 PFOS	*26*	**5-*	*41 - 154*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C8 FOSA	*116*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C4 PFBA	*15*	**5-*	*28 - 153*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C5 PFPeA	*15*	**5-*	*24 - 161*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
d7-N-MeFOSE-M	*111*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
d9-N-EtFOSE-M	*109*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/20/23 00:33*	*03/21/23 05:36*	*1*
13C3 HFPO-DA	*19*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:36*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.13	1.74	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Arsenic	**1.93**	**J**	3.08	1.44	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Barium	**17.6**		0.513	0.154	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Beryllium	**0.469**	**J**	0.513	0.103	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0204'

Date Collected: 03/01/23 14:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-2

Matrix: Solid
Percent Solids: 87.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.513	0.103	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Chromium	**6.16**		1.54	0.359	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Lead	**7.22**		1.54	0.615	mg/Kg	☼	03/08/23 20:04	03/10/23 13:18	1
Nickel	**2.83**		1.03	0.267	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Selenium	ND		5.13	1.54	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Silver	ND		1.03	0.410	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Thallium	**2.20**	**J**	3.08	1.33	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Vanadium	**10.6**		1.03	0.441	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1
Zinc	**13.4**		2.05	0.820	mg/Kg	☼	03/08/23 20:04	03/09/23 21:24	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0683	0.0228	mg/Kg	☼	03/08/23 00:50	03/09/23 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.1**		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	**87.9**		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0406'
Date Collected: 03/01/23 14:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-3
Matrix: Solid
Percent Solids: 91.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00561	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Acetone	ND		0.0561	0.0126	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Acrylonitrile	ND		0.00561	0.00337	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Benzene	ND		0.00561	0.00375	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Bromobenzene	ND		0.00561	0.00374	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Bromochloromethane	ND		0.00561	0.00319	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Bromodichloromethane	ND		0.00561	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Bromoform	ND		0.00561	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Bromomethane	ND		0.0112	0.00699	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
2-Butanone (MEK)	ND		0.0112	0.00447	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
n-Butylbenzene	ND		0.0112	0.00602	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
sec-Butylbenzene	ND		0.00561	0.00452	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
tert-Butylbenzene	ND		0.00561	0.00442	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Carbon disulfide	ND		0.0112	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Carbon tetrachloride	ND		0.00561	0.00354	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Chlorobenzene	ND		0.00561	0.00411	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Chloroethane	ND		0.0112	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Chloroform	ND		0.00561	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Chloromethane	ND		0.0112	0.00431	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
2-Chlorotoluene	ND		0.00561	0.00447	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
4-Chlorotoluene	ND		0.00561	0.00487	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2-Dibromo-3-Chloropropane	ND		0.0112	0.00476	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Dibromochloromethane	ND		0.00561	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2-Dibromoethane (EDB)	ND		0.00561	0.00403	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Dibromomethane	ND		0.00561	0.00330	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2-Dichlorobenzene	ND		0.00561	0.00521	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,3-Dichlorobenzene	ND		0.00561	0.00450	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,4-Dichlorobenzene	ND		0.00561	0.00532	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Dichlorodifluoromethane (Freon 12)	ND		0.0112	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,1-Dichloroethane	ND		0.00561	0.00381	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2-Dichloroethane	ND		0.00561	0.00378	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,1-Dichloroethene	ND		0.00561	0.00343	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
cis-1,2-Dichloroethene	ND		0.00561	0.00324	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
trans-1,2-Dichloroethene	ND		0.00561	0.00349	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2-Dichloropropane	ND		0.00561	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,3-Dichloropropane	ND		0.00561	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
2,2-Dichloropropane	ND		0.00561	0.00387	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,1-Dichloropropene	ND		0.00561	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
cis-1,3-Dichloropropene	ND		0.00561	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
trans-1,3-Dichloropropene	ND		0.00561	0.00427	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Ethylbenzene	ND		0.00561	0.00401	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Hexachlorobutadiene	ND		0.0112	0.00565	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
2-Hexanone (MBK)	ND		0.0112	0.00330	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Isopropylbenzene	ND		0.00561	0.00424	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
4-Isopropyltoluene	ND		0.00561	0.00551	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Methyl tert-butyl ether	ND		0.00561	0.00323	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
4-Methyl-2-pentanone (MIBK)	ND		0.0112	0.00363	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Methylene Chloride	ND		0.0112	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Naphthalene	ND		0.00561	0.00507	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0406'
Date Collected: 03/01/23 14:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-3
Matrix: Solid
Percent Solids: 91.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00561	0.00475	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Styrene	ND		0.00561	0.00434	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,1,1,2-Tetrachloroethane	ND		0.00561	0.00421	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,1,2,2-Tetrachloroethane	ND		0.00561	0.00514	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Tetrachloroethene	ND		0.00561	0.00312	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Toluene	ND		0.00561	0.00356	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2,3-Trichlorobenzene	**0.00521**	**J**	0.00561	0.00474	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2,4-Trichlorobenzene	ND		0.00561	0.00517	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,3,5-Trichlorobenzene	ND		0.00561	0.00533	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,1,1-Trichloroethane	ND		0.00561	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,1,2-Trichloroethane	ND		0.00561	0.00423	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Trichloroethene	ND		0.00561	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Trichlorofluoromethane (Freon 11)	ND		0.00561	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2,3-Trichloropropane	ND		0.00561	0.00498	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,2,4-Trimethylbenzene	ND		0.00561	0.00475	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,3,5-Trimethylbenzene	ND		0.00561	0.00477	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Vinyl chloride	ND		0.00561	0.00342	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
m,p-Xylene	ND		0.00561	0.00767	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
o-Xylene	ND		0.00561	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Tetrahydrofuran	ND		0.0112	0.00284	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Ethyl ether	ND		0.00561	0.00295	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Tert-amyl methyl ether	ND		0.00561	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Ethyl tert-butyl ether	ND		0.00561	0.00369	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
di-Isopropyl ether	ND		0.00561	0.00401	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
tert-Butanol	ND		0.112	0.0301	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,4-Dioxane	ND		0.112	0.0349	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
trans-1,4-Dichloro-2-butene	ND		0.0281	0.00414	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Ethanol	ND		1.12	0.0696	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
1,3-Dichloropropene, Total	ND		0.00561	0.00427	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1
Xylenes, Total	ND		0.0168	0.00561	mg/Kg	☼	03/06/23 09:50	03/06/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/06/23 09:50*	*03/06/23 18:34*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 18:34*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/06/23 09:50*	*03/06/23 18:34*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.708	0.126	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
1,2,4-Trichlorobenzene	ND		0.708	0.162	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
1,2-Dichlorobenzene	ND		0.708	0.136	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
1,3-Dichlorobenzene	ND		0.708	0.171	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
1,4-Dichlorobenzene	ND		0.708	0.167	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
1-Methylnaphthalene	ND		0.143	0.120	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2,4,5-Trichlorophenol	ND		0.708	0.0811	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2,4,6-Trichlorophenol	ND		0.358	0.0876	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2,4-Dichlorophenol	ND		0.358	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2,4-Dimethylphenol	ND		0.708	0.104	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2,4-Dinitrophenol	ND		0.708	0.186	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0406'
Date Collected: 03/01/23 14:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-3
Matrix: Solid
Percent Solids: 91.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.358	0.0839	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2,6-Dinitrotoluene	ND		0.358	0.0839	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2-Chloronaphthalene	ND		0.708	0.164	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2-Chlorophenol	ND		0.358	0.147	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2-Methylnaphthalene	ND		0.143	0.106	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2-Methylphenol	ND		0.708	0.103	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2-Nitroaniline	ND		0.708	0.0674	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
2-Nitrophenol	ND		0.358	0.127	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
3 & 4 Methylphenol	ND		0.708	0.134	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
3,3'-Dichlorobenzidine	ND		0.708	0.117	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
3-Nitroaniline	ND		0.708	0.0633	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
4,6-Dinitro-2-methylphenol	ND		0.708	0.127	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
4-Bromophenyl phenyl ether	ND		0.708	0.0800	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
4-Chloro-3-methylphenol	ND		0.708	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
4-Chloroaniline	ND		0.358	0.0543	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
4-Chlorophenyl phenyl ether	ND		0.708	0.0758	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
4-Nitroaniline	ND		0.358	0.113	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
4-Nitrophenol	ND		0.708	0.247	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Acenaphthene	ND		0.143	0.114	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Acenaphthylene	**0.112**	**J**	0.143	0.0940	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Acetophenone	ND		0.358	0.0873	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Aniline	ND		0.708	0.0543	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Anthracene	**0.151**		0.143	0.0828	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Azobenzene/Diphenyldiazene	ND		0.708	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzidine	ND		1.42	0.210	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzo[a]anthracene	**0.320**		0.143	0.0805	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzo[a]pyrene	**0.195**		0.143	0.102	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzo[b]fluoranthene	**0.253**		0.143	0.119	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzo[g,h,i]perylene	**0.158**		0.143	0.112	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzo[k]fluoranthene	**0.221**		0.143	0.111	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzoic acid	ND		0.708	0.487	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Benzyl alcohol	ND		0.708	0.128	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Bis(2-chloroethoxy)methane	ND		0.708	0.123	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Bis(2-chloroethyl)ether	ND		0.358	0.117	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
bis (2-chloroisopropyl) ether	ND		0.358	0.159	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Bis(2-ethylhexyl) phthalate	**0.780**		0.358	0.0912	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Butyl benzyl phthalate	ND		0.708	0.0710	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Carbazole	ND		0.358	0.0938	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Chrysene	**0.333**		0.143	0.0809	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Dibenz(a,h)anthracene	ND		0.143	0.109	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Dibenzofuran	ND		0.358	0.124	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Diethyl phthalate	ND		0.708	0.0777	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Dimethyl phthalate	ND		0.708	0.0923	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Di-n-butyl phthalate	**0.100**	**J**	0.708	0.0758	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Di-n-octyl phthalate	ND		0.708	0.117	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Fluoranthene	**0.314**		0.143	0.0839	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Fluorene	ND		0.143	0.131	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Hexachlorobenzene	ND		0.358	0.0994	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Hexachlorobutadiene	ND		0.358	0.179	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1

Client Sample ID: 2023-MW-07-0406' **Lab Sample ID: 620-10080-3**
Date Collected: 03/01/23 14:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.358	0.137	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Hexachloroethane	ND		0.358	0.141	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Indeno[1,2,3-cd]pyrene	**0.146**		0.143	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Isophorone	ND		0.358	0.0981	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Naphthalene	ND		0.143	0.137	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Nitrobenzene	ND		0.358	0.165	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
N-Nitrosodimethylamine	ND		0.358	0.0940	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
N-Nitrosodi-n-propylamine	ND		0.358	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
N-Nitrosodiphenylamine	ND		0.708	0.0903	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Pentachloronitrobenzene	ND		0.708	0.112	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Pentachlorophenol	ND		0.708	0.290	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Phenanthrene	**0.133**	**J**	0.143	0.0811	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Phenol	ND		0.708	0.146	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Pyrene	**0.276**		0.143	0.0790	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1
Pyridine	ND		0.708	0.168	mg/Kg	☼	03/10/23 11:19	03/14/23 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*03/10/23 11:19*	*03/14/23 00:45*	*1*
2-Fluorophenol (Surr)	*82*		*15 - 110*	*03/10/23 11:19*	*03/14/23 00:45*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/10/23 11:19*	*03/14/23 00:45*	*1*
Phenol-d5 (Surr)	*64*		*15 - 110*	*03/10/23 11:19*	*03/14/23 00:45*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*15 - 110*	*03/10/23 11:19*	*03/14/23 00:45*	*1*
Terphenyl-d14	*71*		*30 - 130*	*03/10/23 11:19*	*03/14/23 00:45*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.254	0.130	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.254	0.109	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0509	0.0102	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
Ethylbenzene	ND		0.0509	0.0102	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
Methyl tert-butyl ether	ND		0.0509	0.0102	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
Naphthalene	ND		0.0509	0.0346	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
o-Xylene	ND		0.0509	0.0102	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
Toluene	ND		0.0509	0.0102	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
C5-C8 Aliphatics (unadjusted)	ND		0.254	0.130	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
C9-C10 Aromatics	ND		0.254	0.0356	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1
C9-C12 Aliphatics (unadjusted)	ND		0.254	0.109	mg/Kg	☼	03/06/23 10:00	03/06/23 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/06/23 10:00*	*03/06/23 14:38*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/06/23 10:00*	*03/06/23 14:38*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0214	0.0154	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1
PCB-1221	ND		0.0214	0.00633	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1
PCB-1232	ND		0.0214	0.00594	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1

Client Sample ID: 2023-MW-07-0406' **Lab Sample ID: 620-10080-3**
Date Collected: 03/01/23 14:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0214	0.00339	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1
PCB-1248	ND		0.0214	0.00670	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1
PCB-1254	**0.373**		0.0214	0.0167	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1
PCB-1262	ND		0.0214	0.00499	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1
PCB-1260	ND		0.0214	0.00461	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1
PCB-1268	ND		0.0214	0.00456	mg/Kg	☼	03/10/23 15:06	03/14/23 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:23*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:23*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:23*	*1*
DCB Decachlorobiphenyl (Surr)	*104*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:23*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluoroheptanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorooctanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorononanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorodecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorotridecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorotetradecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorobutanesulfonic acid	ND		2.09	0.419	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorohexanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorooctanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
NEtFOSAA	ND		2.09	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
NMeFOSAA	ND		2.09	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
10:2 FTS	ND		2.09	0.628	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluoropentanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluoroheptanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorononanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorodecanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.09	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorooctanesulfonamide	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorohexadecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorooctadecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorobutanoic acid	ND		2.09	0.837	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluoropentanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
NMeFOSE	ND		2.09	0.523	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
NMeFOSA	ND		2.09	0.523	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
NEtFOSE	ND		2.09	0.523	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
NEtFOSA	ND		2.09	0.523	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
HFPODA	ND		2.09	1.05	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
DONA	ND		3.14	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
9Cl-PF3ONS	ND		2.09	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
11Cl-PF3OUdS	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluorododecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
4:2 Fluorotelomer sulfonic acid	ND		2.09	0.628	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
Perfluoroundecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1

Client Sample ID: 2023-MW-07-0406' **Lab Sample ID: 620-10080-3**
Date Collected: 03/01/23 14:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.09	0.628	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1
8:2 Fluorotelomer sulfonic acid	ND		3.14	0.628	ug/Kg	☼	03/07/23 22:57	03/16/23 04:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*46*		*10 - 200*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
M2-8:2 FTS	*48*		*15 - 200*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
M2-6:2 FTS	*52*		*10 - 200*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C5 PFHxA	*53*		*10 - 174*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C4 PFHpA	*58*		*10 - 178*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C8 PFOA	*56*		*26 - 159*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C9 PFNA	*51*		*26 - 165*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C6 PFDA	*54*		*26 - 161*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C7 PFUnA	*60*		*12 - 173*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C2-PFDoDA	*56*		*11 - 166*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C2 PFTeDA	*61*		*10 - 169*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C3 PFBS	*62*		*27 - 179*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C3 PFHxS	*69*		*24 - 171*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C8 PFOS	*63*		*41 - 154*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
d3-NMeFOSAA	*4*	*5-	*10 - 178*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
d5-NEtFOSAA	*6*	*5-	*10 - 193*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C8 FOSA	*79*		*14 - 163*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C4 PFBA	*51*		*28 - 153*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C5 PFPeA	*50*		*24 - 161*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
d7-N-MeFOSE-M	*76*		*10 - 179*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
d3-NMePFOSA	*43*		*10 - 175*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
d9-N-EtFOSE-M	*74*		*10 - 185*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
d5-NEtPFOSA	*44*		*10 - 180*	*03/07/23 22:57*	*03/16/23 04:54*	*1*
13C3 HFPO-DA	*64*		*10 - 169*	*03/07/23 22:57*	*03/16/23 04:54*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluoroheptanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorooctanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorononanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorodecanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorotridecanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorotetradecanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorobutanesulfonic acid	ND		2.11	0.423	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorohexanesulfonic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorooctanesulfonic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
NEtFOSAA	ND		2.11	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
NMeFOSAA	ND		2.11	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
10:2 FTS	ND		2.11	0.634	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluoropentanesulfonic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluoroheptanesulfonic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorononanesulfonic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorodecanesulfonic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.11	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorooctanesulfonamide	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1

Client Sample ID: 2023-MW-07-0406' **Lab Sample ID: 620-10080-3**
Date Collected: 03/01/23 14:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	**0.250**	**J**	0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorooctadecanoic acid	**0.301**	**J**	0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorobutanoic acid	ND		2.11	0.845	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluoropentanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
NMeFOSE	ND		2.11	0.528	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
NMeFOSA	ND		2.11	0.528	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
NEtFOSE	ND		2.11	0.528	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
NEtFOSA	ND		2.11	0.528	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
HFPODA	ND		2.11	1.06	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
DONA	ND		3.17	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
9Cl-PF3ONS	ND		2.11	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
11Cl-PF3OUdS	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluorododecanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.11	0.634	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
Perfluoroundecanoic acid	ND		0.634	0.211	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
6:2 Fluorotelomer sulfonic acid	ND		2.11	0.634	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.17	0.634	ug/Kg	☼	03/20/23 00:33	03/21/23 05:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
M2-8:2 FTS	*119*		*15 - 200*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
M2-6:2 FTS	*95*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C5 PFHxA	*95*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C4 PFHpA	*105*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C8 PFOA	*97*		*26 - 159*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C9 PFNA	*87*		*26 - 165*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C6 PFDA	*100*		*26 - 161*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C7 PFUnA	*105*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C3 PFHxS	*123*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C8 PFOS	*116*		*41 - 154*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
d5-NEtFOSAA	*17*		*10 - 193*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C8 FOSA	*81*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C4 PFBA	*91*		*28 - 153*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
d7-N-MeFOSE-M	*59*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
d3-NMePFOSA	*7*	**5-*	*10 - 175*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
d9-N-EtFOSE-M	*72*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
d5-NEtPFOSA	*9*	**5-*	*10 - 180*	*03/20/23 00:33*	*03/21/23 05:59*	*1*
13C3 HFPO-DA	*93*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.65	1.58	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Arsenic	**1.64**	**J**	2.79	1.30	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Barium	**16.8**		0.465	0.140	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Beryllium	**0.210**	**J**	0.465	0.0930	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0406'

Date Collected: 03/01/23 14:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-3

Matrix: Solid
Percent Solids: 91.9

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.465	0.0930	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Chromium	**7.32**		1.40	0.326	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Lead	**3.37**		1.40	0.558	mg/Kg	☼	03/08/23 20:04	03/10/23 13:21	1
Nickel	**2.30**		0.930	0.242	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Selenium	ND		4.65	1.40	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Silver	ND		0.930	0.372	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Thallium	**2.16**	**J**	2.79	1.21	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Vanadium	**6.14**		0.930	0.400	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1
Zinc	**9.40**		1.86	0.744	mg/Kg	☼	03/08/23 20:04	03/09/23 21:27	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0632	0.0211	mg/Kg	☼	03/08/23 00:50	03/09/23 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.1**		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	**91.9**		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0608'
Date Collected: 03/01/23 14:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-4
Matrix: Solid
Percent Solids: 92.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00568	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Acetone	ND		0.0568	0.0127	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Acrylonitrile	ND		0.00568	0.00341	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Benzene	ND		0.00568	0.00380	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Bromobenzene	ND		0.00568	0.00379	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Bromochloromethane	ND		0.00568	0.00323	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Bromodichloromethane	ND		0.00568	0.00417	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Bromoform	ND		0.00568	0.00434	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Bromomethane	ND		0.0114	0.00708	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
2-Butanone (MEK)	ND		0.0114	0.00452	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
n-Butylbenzene	ND		0.0114	0.00609	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
sec-Butylbenzene	ND		0.00568	0.00458	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
tert-Butylbenzene	ND		0.00568	0.00448	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Carbon disulfide	ND		0.0114	0.00399	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Carbon tetrachloride	ND		0.00568	0.00358	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Chlorobenzene	ND		0.00568	0.00416	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Chloroethane	ND		0.0114	0.00417	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Chloroform	ND		0.00568	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Chloromethane	ND		0.0114	0.00437	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
2-Chlorotoluene	ND		0.00568	0.00452	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
4-Chlorotoluene	ND		0.00568	0.00493	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2-Dibromo-3-Chloropropane	ND		0.0114	0.00482	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Dibromochloromethane	ND		0.00568	0.00376	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2-Dibromoethane (EDB)	ND		0.00568	0.00408	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Dibromomethane	ND		0.00568	0.00334	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2-Dichlorobenzene	ND		0.00568	0.00527	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,3-Dichlorobenzene	ND		0.00568	0.00456	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,4-Dichlorobenzene	ND		0.00568	0.00539	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Dichlorodifluoromethane (Freon 12)	ND		0.0114	0.00305	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,1-Dichloroethane	ND		0.00568	0.00385	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2-Dichloroethane	ND		0.00568	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,1-Dichloroethene	ND		0.00568	0.00348	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
cis-1,2-Dichloroethene	ND		0.00568	0.00329	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
trans-1,2-Dichloroethene	ND		0.00568	0.00354	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2-Dichloropropane	ND		0.00568	0.00376	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,3-Dichloropropane	ND		0.00568	0.00434	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
2,2-Dichloropropane	ND		0.00568	0.00392	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,1-Dichloropropene	ND		0.00568	0.00387	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
cis-1,3-Dichloropropene	ND		0.00568	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
trans-1,3-Dichloropropene	ND		0.00568	0.00432	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Ethylbenzene	ND		0.00568	0.00406	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Hexachlorobutadiene	ND		0.0114	0.00572	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
2-Hexanone (MBK)	ND		0.0114	0.00334	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Isopropylbenzene	ND		0.00568	0.00430	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
4-Isopropyltoluene	ND		0.00568	0.00558	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Methyl tert-butyl ether	ND		0.00568	0.00327	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
4-Methyl-2-pentanone (MIBK)	ND		0.0114	0.00367	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Methylene Chloride	ND		0.0114	0.00305	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Naphthalene	ND		0.00568	0.00514	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07-0608' **Lab Sample ID: 620-10080-4**
Date Collected: 03/01/23 14:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00568	0.00481	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Styrene	ND		0.00568	0.00440	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,1,1,2-Tetrachloroethane	ND		0.00568	0.00426	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,1,2,2-Tetrachloroethane	ND		0.00568	0.00521	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Tetrachloroethene	ND		0.00568	0.00316	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Toluene	ND		0.00568	0.00360	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2,3-Trichlorobenzene	ND		0.00568	0.00480	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2,4-Trichlorobenzene	ND		0.00568	0.00524	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,3,5-Trichlorobenzene	ND		0.00568	0.00540	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,1,1-Trichloroethane	ND		0.00568	0.00388	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,1,2-Trichloroethane	ND		0.00568	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Trichloroethene	ND		0.00568	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Trichlorofluoromethane (Freon 11)	ND		0.00568	0.00434	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2,3-Trichloropropane	ND		0.00568	0.00505	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,2,4-Trimethylbenzene	ND		0.00568	0.00481	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,3,5-Trimethylbenzene	ND		0.00568	0.00483	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Vinyl chloride	ND		0.00568	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
m,p-Xylene	ND		0.00568	0.00776	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
o-Xylene	ND		0.00568	0.00415	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Tetrahydrofuran	ND		0.0114	0.00288	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Ethyl ether	ND		0.00568	0.00299	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Tert-amyl methyl ether	ND		0.00568	0.00449	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Ethyl tert-butyl ether	ND		0.00568	0.00374	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
di-Isopropyl ether	ND		0.00568	0.00406	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
tert-Butanol	ND		0.114	0.0305	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,4-Dioxane	ND		0.114	0.0354	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
trans-1,4-Dichloro-2-butene	ND		0.0284	0.00419	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Ethanol	ND		1.14	0.0705	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
1,3-Dichloropropene, Total	ND		0.00568	0.00432	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1
Xylenes, Total	ND		0.0171	0.00568	mg/Kg	☼	03/06/23 09:50	03/06/23 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:00*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:00*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:00*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.355	0.0631	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
1,2,4-Trichlorobenzene	ND		0.355	0.0813	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
1,2-Dichlorobenzene	ND		0.355	0.0684	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
1,3-Dichlorobenzene	ND		0.355	0.0859	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
1,4-Dichlorobenzene	ND		0.355	0.0836	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
1-Methylnaphthalene	ND		0.0717	0.0602	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2,4,5-Trichlorophenol	ND		0.355	0.0407	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2,4,6-Trichlorophenol	ND		0.180	0.0439	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2,4-Dichlorophenol	ND		0.180	0.0715	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2,4-Dimethylphenol	ND		0.355	0.0521	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2,4-Dinitrophenol	ND		0.355	0.0934	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0608'
Date Collected: 03/01/23 14:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-4
Matrix: Solid
Percent Solids: 92.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.180	0.0421	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2,6-Dinitrotoluene	ND		0.180	0.0421	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2-Chloronaphthalene	ND		0.355	0.0821	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2-Chlorophenol	ND		0.180	0.0735	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2-Methylnaphthalene	ND		0.0717	0.0530	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2-Methylphenol	ND		0.355	0.0518	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2-Nitroaniline	ND		0.355	0.0338	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
2-Nitrophenol	ND		0.180	0.0638	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
3 & 4 Methylphenol	ND		0.355	0.0672	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
3,3'-Dichlorobenzidine	ND		0.355	0.0586	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
3-Nitroaniline	ND		0.355	0.0317	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
4,6-Dinitro-2-methylphenol	ND		0.355	0.0638	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
4-Bromophenyl phenyl ether	ND		0.355	0.0401	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
4-Chloro-3-methylphenol	ND		0.355	0.0695	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
4-Chloroaniline	ND		0.180	0.0272	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
4-Chlorophenyl phenyl ether	ND		0.355	0.0380	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
4-Nitroaniline	ND		0.180	0.0567	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
4-Nitrophenol	ND		0.355	0.124	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Acenaphthene	ND		0.0717	0.0572	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Acenaphthylene	ND		0.0717	0.0471	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Acetophenone	ND		0.180	0.0438	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Aniline	ND		0.355	0.0272	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Anthracene	ND		0.0717	0.0415	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Azobenzene/Diphenyldiazene	ND		0.355	0.0606	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzidine	ND		0.710	0.105	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzo[a]anthracene	ND		0.0717	0.0403	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzo[a]pyrene	ND		0.0717	0.0513	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzo[b]fluoranthene	ND		0.0717	0.0595	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzo[g,h,i]perylene	ND		0.0717	0.0560	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzo[k]fluoranthene	ND		0.0717	0.0558	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzoic acid	ND		0.355	0.244	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Benzyl alcohol	ND		0.355	0.0643	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Bis(2-chloroethoxy)methane	ND		0.355	0.0617	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Bis(2-chloroethyl)ether	ND		0.180	0.0587	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
bis (2-chloroisopropyl) ether	ND		0.180	0.0799	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Bis(2-ethylhexyl) phthalate	ND		0.180	0.0457	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Butyl benzyl phthalate	ND		0.355	0.0356	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Carbazole	ND		0.180	0.0470	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Chrysene	ND		0.0717	0.0406	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Dibenz(a,h)anthracene	ND		0.0717	0.0548	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Dibenzofuran	ND		0.180	0.0622	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Diethyl phthalate	ND		0.355	0.0389	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Dimethyl phthalate	ND		0.355	0.0463	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Di-n-butyl phthalate	ND		0.355	0.0380	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Di-n-octyl phthalate	ND		0.355	0.0586	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Fluoranthene	ND		0.0717	0.0421	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Fluorene	ND		0.0717	0.0655	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Hexachlorobenzene	ND		0.180	0.0498	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Hexachlorobutadiene	ND		0.180	0.0896	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1

Client Sample ID: 2023-MW-07-0608' **Lab Sample ID: 620-10080-4**
Date Collected: 03/01/23 14:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.180	0.0686	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Hexachloroethane	ND		0.180	0.0706	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0717	0.0609	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Isophorone	ND		0.180	0.0492	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Naphthalene	ND		0.0717	0.0688	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Nitrobenzene	ND		0.180	0.0829	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
N-Nitrosodimethylamine	ND		0.180	0.0471	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
N-Nitrosodi-n-propylamine	ND		0.180	0.0715	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
N-Nitrosodiphenylamine	ND		0.355	0.0453	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Pentachloronitrobenzene	ND		0.355	0.0560	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Pentachlorophenol	ND		0.355	0.145	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Phenanthrene	ND		0.0717	0.0407	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Phenol	ND		0.355	0.0731	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Pyrene	ND		0.0717	0.0396	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1
Pyridine	ND		0.355	0.0840	mg/Kg	☼	03/10/23 11:19	03/10/23 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/10/23 11:19*	*03/10/23 20:04*	*1*
2-Fluorophenol (Surr)	*80*		*15 - 110*	*03/10/23 11:19*	*03/10/23 20:04*	*1*
Nitrobenzene-d5 (Surr)	*49*		*30 - 130*	*03/10/23 11:19*	*03/10/23 20:04*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/10/23 11:19*	*03/10/23 20:04*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/10/23 11:19*	*03/10/23 20:04*	*1*
Terphenyl-d14	*68*		*30 - 130*	*03/10/23 11:19*	*03/10/23 20:04*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.272	0.139	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.272	0.116	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0544	0.0109	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
Ethylbenzene	ND		0.0544	0.0109	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
Methyl tert-butyl ether	ND		0.0544	0.0109	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
m,p-Xylene	ND		0.109	0.0109	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
Naphthalene	ND		0.0544	0.0370	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
o-Xylene	ND		0.0544	0.0109	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
Toluene	ND		0.0544	0.0109	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
C5-C8 Aliphatics (unadjusted)	ND		0.272	0.139	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
C9-C10 Aromatics	ND		0.272	0.0381	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1
C9-C12 Aliphatics (unadjusted)	ND		0.272	0.116	mg/Kg	☼	03/06/23 10:00	03/06/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/06/23 10:00*	*03/06/23 15:17*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/06/23 10:00*	*03/06/23 15:17*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0214	0.0154	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1
PCB-1221	ND		0.0214	0.00633	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1
PCB-1232	ND		0.0214	0.00594	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1

Client Sample ID: 2023-MW-07-0608'
Date Collected: 03/01/23 14:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-4
Matrix: Solid
Percent Solids: 92.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0214	0.00339	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1
PCB-1248	ND		0.0214	0.00670	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1
PCB-1254	ND		0.0214	0.0167	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1
PCB-1262	ND		0.0214	0.00500	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1
PCB-1260	ND		0.0214	0.00461	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1
PCB-1268	ND		0.0214	0.00457	mg/Kg	☼	03/10/23 15:06	03/14/23 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:42*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:42*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:42*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/10/23 15:06*	*03/14/23 02:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluoroheptanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorooctanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorononanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorodecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorotridecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorotetradecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorobutanesulfonic acid	ND		2.08	0.416	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorohexanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorooctanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
10:2 FTS	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluoropentanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluoroheptanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorononanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorodecanesulfonic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorooctanesulfonamide	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorohexadecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorooctadecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorobutanoic acid	ND		2.08	0.832	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluoropentanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
NMeFOSE	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
NMeFOSA	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
NEtFOSE	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
NEtFOSA	ND		2.08	0.520	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
DONA	ND		3.12	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
11Cl-PF3OUdS	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluorododecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
Perfluoroundecanoic acid	ND		0.624	0.208	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1

Client Sample ID: 2023-MW-07-0608' **Lab Sample ID: 620-10080-4**
Date Collected: 03/01/23 14:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.624	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1
8:2 Fluorotelomer sulfonic acid	ND		3.12	0.624	ug/Kg	☼	03/07/23 22:57	03/16/23 05:05	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C5 PFHxA	*99*		*10 - 174*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C9 PFNA	*101*		*26 - 165*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C2-PFDoDA	*118*		*11 - 166*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C2 PFTeDA	*124*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C3 PFHxS	*113*		*24 - 171*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C8 PFOS	*112*		*41 - 154*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
d5-NEtFOSAA	*21*		*10 - 193*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C8 FOSA	*79*		*14 - 163*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C4 PFBA	*91*		*28 - 153*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C5 PFPeA	*91*		*24 - 161*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
d7-N-MeFOSE-M	*71*		*10 - 179*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
d3-NMePFOSA	*20*		*10 - 175*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
d9-N-EtFOSE-M	*76*		*10 - 185*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
d5-NEtPFOSA	*25*		*10 - 180*	*03/07/23 22:57*	*03/16/23 05:05*	*1*
13C3 HFPO-DA	*102*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:05*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.00	1.36	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Arsenic	**2.79**		2.40	1.12	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Barium	**14.8**		0.400	0.120	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Beryllium	**0.233**	**J**	0.400	0.0801	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Cadmium	ND		0.400	0.0801	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Chromium	**9.20**		1.20	0.280	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Lead	**3.94**		1.20	0.481	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Nickel	**2.19**		0.801	0.208	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Selenium	ND		4.00	1.20	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Silver	ND	^3+	0.801	0.320	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Vanadium	**7.46**		0.801	0.344	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1
Zinc	**10.3**		1.60	0.641	mg/Kg	☼	03/08/23 19:55	03/10/23 06:26	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0599	0.0200	mg/Kg	☼	03/08/23 00:50	03/09/23 09:42	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0608'
Date Collected: 03/01/23 14:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-4
Matrix: Solid
Percent Solids: 92.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.5		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	92.5		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0810'
Date Collected: 03/01/23 14:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-5
Matrix: Solid
Percent Solids: 95.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00577	0.00376	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Acetone	ND		0.0577	0.0129	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Acrylonitrile	ND		0.00577	0.00346	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Benzene	ND		0.00577	0.00385	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Bromobenzene	ND		0.00577	0.00384	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Bromochloromethane	ND		0.00577	0.00328	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Bromodichloromethane	ND		0.00577	0.00423	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Bromoform	ND		0.00577	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Bromomethane	ND		0.0115	0.00719	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
2-Butanone (MEK)	ND		0.0115	0.00459	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
n-Butylbenzene	ND		0.0115	0.00618	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
sec-Butylbenzene	ND		0.00577	0.00465	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
tert-Butylbenzene	ND		0.00577	0.00455	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Carbon disulfide	ND		0.0115	0.00405	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Carbon tetrachloride	ND		0.00577	0.00363	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Chlorobenzene	ND		0.00577	0.00422	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Chloroethane	ND		0.0115	0.00423	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Chloroform	ND		0.00577	0.00388	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Chloromethane	ND		0.0115	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
2-Chlorotoluene	ND		0.00577	0.00459	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
4-Chlorotoluene	ND		0.00577	0.00501	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2-Dibromo-3-Chloropropane	ND		0.0115	0.00489	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Dibromochloromethane	ND		0.00577	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2-Dibromoethane (EDB)	ND		0.00577	0.00414	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Dibromomethane	ND		0.00577	0.00339	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2-Dichlorobenzene	ND		0.00577	0.00535	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,3-Dichlorobenzene	ND		0.00577	0.00463	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,4-Dichlorobenzene	ND		0.00577	0.00547	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Dichlorodifluoromethane (Freon 12)	ND		0.0115	0.00309	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,1-Dichloroethane	ND		0.00577	0.00391	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2-Dichloroethane	ND		0.00577	0.00389	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,1-Dichloroethene	ND		0.00577	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
cis-1,2-Dichloroethene	ND		0.00577	0.00333	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
trans-1,2-Dichloroethene	ND		0.00577	0.00359	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2-Dichloropropane	ND		0.00577	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,3-Dichloropropane	ND		0.00577	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
2,2-Dichloropropane	ND		0.00577	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,1-Dichloropropene	ND		0.00577	0.00392	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
cis-1,3-Dichloropropene	ND		0.00577	0.00376	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
trans-1,3-Dichloropropene	ND		0.00577	0.00438	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Ethylbenzene	ND		0.00577	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Hexachlorobutadiene	ND		0.0115	0.00580	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
2-Hexanone (MBK)	ND		0.0115	0.00339	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Isopropylbenzene	ND		0.00577	0.00436	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
4-Isopropyltoluene	ND		0.00577	0.00567	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Methyl tert-butyl ether	ND		0.00577	0.00332	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
4-Methyl-2-pentanone (MIBK)	ND		0.0115	0.00373	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Methylene Chloride	ND		0.0115	0.00309	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Naphthalene	ND		0.00577	0.00522	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1

Client Sample ID: 2023-MW-07-0810' **Lab Sample ID: 620-10080-5**
Date Collected: 03/01/23 14:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 95.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00577	0.00488	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Styrene	ND		0.00577	0.00447	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,1,1,2-Tetrachloroethane	ND		0.00577	0.00433	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,1,2,2-Tetrachloroethane	ND		0.00577	0.00528	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Tetrachloroethene	ND		0.00577	0.00321	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Toluene	ND		0.00577	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2,3-Trichlorobenzene	ND		0.00577	0.00487	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2,4-Trichlorobenzene	ND		0.00577	0.00532	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,3,5-Trichlorobenzene	ND		0.00577	0.00548	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,1,1-Trichloroethane	ND		0.00577	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,1,2-Trichloroethane	ND		0.00577	0.00435	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Trichloroethene	ND		0.00577	0.00388	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Trichlorofluoromethane (Freon 11)	ND		0.00577	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2,3-Trichloropropane	ND		0.00577	0.00512	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,2,4-Trimethylbenzene	ND		0.00577	0.00488	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,3,5-Trimethylbenzene	ND		0.00577	0.00490	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Vinyl chloride	ND		0.00577	0.00352	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
m,p-Xylene	ND		0.00577	0.00788	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
o-Xylene	ND		0.00577	0.00421	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Tetrahydrofuran	ND		0.0115	0.00292	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Ethyl ether	ND		0.00577	0.00303	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Tert-amyl methyl ether	ND		0.00577	0.00456	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Ethyl tert-butyl ether	ND		0.00577	0.00380	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
di-Isopropyl ether	ND		0.00577	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
tert-Butanol	ND		0.115	0.0309	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,4-Dioxane	ND		0.115	0.0359	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
trans-1,4-Dichloro-2-butene	ND		0.0288	0.00426	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Ethanol	ND		1.15	0.0715	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
1,3-Dichloropropene, Total	ND		0.00577	0.00438	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1
Xylenes, Total	ND		0.0173	0.00577	mg/Kg	☼	03/06/23 09:50	03/06/23 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:26*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:26*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 19:26*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.338	0.0602	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
1,2,4-Trichlorobenzene	ND		0.338	0.0775	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
1,2-Dichlorobenzene	ND		0.338	0.0652	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
1,3-Dichlorobenzene	ND		0.338	0.0819	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
1,4-Dichlorobenzene	ND		0.338	0.0797	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
1-Methylnaphthalene	ND		0.0684	0.0574	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2,4,5-Trichlorophenol	ND		0.338	0.0388	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2,4,6-Trichlorophenol	ND		0.171	0.0418	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2,4-Dichlorophenol	ND		0.171	0.0682	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2,4-Dimethylphenol	ND		0.338	0.0496	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2,4-Dinitrophenol	ND		0.338	0.0890	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-0810'
Date Collected: 03/01/23 14:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-5
Matrix: Solid
Percent Solids: 95.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.171	0.0401	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2,6-Dinitrotoluene	ND		0.171	0.0401	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2-Chloronaphthalene	ND		0.338	0.0782	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2-Chlorophenol	ND		0.171	0.0700	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2-Methylnaphthalene	ND		0.0684	0.0506	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2-Methylphenol	ND		0.338	0.0494	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2-Nitroaniline	ND		0.338	0.0322	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
2-Nitrophenol	ND		0.171	0.0608	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
3 & 4 Methylphenol	ND		0.338	0.0641	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
3,3'-Dichlorobenzidine	ND		0.338	0.0559	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
3-Nitroaniline	ND		0.338	0.0303	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
4,6-Dinitro-2-methylphenol	ND		0.338	0.0608	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
4-Bromophenyl phenyl ether	ND		0.338	0.0382	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
4-Chloro-3-methylphenol	ND		0.338	0.0662	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
4-Chloroaniline	ND		0.171	0.0259	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
4-Chlorophenyl phenyl ether	ND		0.338	0.0362	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
4-Nitroaniline	ND		0.171	0.0540	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
4-Nitrophenol	ND		0.338	0.118	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Acenaphthene	ND		0.0684	0.0546	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Acenaphthylene	ND		0.0684	0.0449	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Acetophenone	ND		0.171	0.0417	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Aniline	ND		0.338	0.0259	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Anthracene	ND		0.0684	0.0396	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Azobenzene/Diphenyldiazene	ND		0.338	0.0577	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzidine	ND		0.677	0.100	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzo[a]anthracene	ND		0.0684	0.0385	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzo[a]pyrene	ND		0.0684	0.0489	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzo[b]fluoranthene	ND		0.0684	0.0567	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzo[g,h,i]perylene	ND		0.0684	0.0534	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzo[k]fluoranthene	ND		0.0684	0.0532	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzoic acid	ND		0.338	0.233	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Benzyl alcohol	ND		0.338	0.0613	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Bis(2-chloroethoxy)methane	ND		0.338	0.0589	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Bis(2-chloroethyl)ether	ND		0.171	0.0560	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
bis (2-chloroisopropyl) ether	ND		0.171	0.0762	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Bis(2-ethylhexyl) phthalate	ND		0.171	0.0436	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Butyl benzyl phthalate	ND		0.338	0.0339	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Carbazole	ND		0.171	0.0448	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Chrysene	ND		0.0684	0.0387	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Dibenz(a,h)anthracene	ND		0.0684	0.0522	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Dibenzofuran	ND		0.171	0.0593	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Diethyl phthalate	ND		0.338	0.0371	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Dimethyl phthalate	ND		0.338	0.0441	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Di-n-butyl phthalate	ND		0.338	0.0362	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Di-n-octyl phthalate	ND		0.338	0.0559	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Fluoranthene	ND		0.0684	0.0401	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Fluorene	ND		0.0684	0.0624	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Hexachlorobenzene	ND		0.171	0.0475	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Hexachlorobutadiene	ND		0.171	0.0854	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1

Client Sample ID: 2023-MW-07-0810' **Lab Sample ID: 620-10080-5**
Date Collected: 03/01/23 14:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 95.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.171	0.0654	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Hexachloroethane	ND		0.171	0.0673	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0684	0.0580	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Isophorone	ND		0.171	0.0469	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Naphthalene	ND		0.0684	0.0656	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Nitrobenzene	ND		0.171	0.0791	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
N-Nitrosodimethylamine	ND		0.171	0.0449	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
N-Nitrosodi-n-propylamine	ND		0.171	0.0682	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
N-Nitrosodiphenylamine	ND		0.338	0.0432	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Pentachloronitrobenzene	ND		0.338	0.0534	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Pentachlorophenol	ND		0.338	0.138	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Phenanthrene	ND		0.0684	0.0388	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Phenol	ND		0.338	0.0697	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Pyrene	ND		0.0684	0.0377	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1
Pyridine	ND		0.338	0.0801	mg/Kg	☼	03/10/23 11:19	03/10/23 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/10/23 11:19*	*03/10/23 20:33*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/10/23 11:19*	*03/10/23 20:33*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/10/23 11:19*	*03/10/23 20:33*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/10/23 11:19*	*03/10/23 20:33*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/10/23 11:19*	*03/10/23 20:33*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/10/23 11:19*	*03/10/23 20:33*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.258	0.132	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.258	0.110	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0516	0.0103	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
Ethylbenzene	ND		0.0516	0.0103	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
Methyl tert-butyl ether	ND		0.0516	0.0103	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
m,p-Xylene	ND		0.103	0.0103	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
Naphthalene	ND		0.0516	0.0351	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
o-Xylene	ND		0.0516	0.0103	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
Toluene	ND		0.0516	0.0103	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
C5-C8 Aliphatics (unadjusted)	ND		0.258	0.132	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
C9-C10 Aromatics	ND		0.258	0.0361	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1
C9-C12 Aliphatics (unadjusted)	ND		0.258	0.110	mg/Kg	☼	03/06/23 10:00	03/06/23 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/06/23 10:00*	*03/06/23 15:57*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/06/23 10:00*	*03/06/23 15:57*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0207	0.0149	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1
PCB-1221	ND		0.0207	0.00612	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1
PCB-1232	ND		0.0207	0.00573	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1

Client Sample ID: 2023-MW-07-0810' **Lab Sample ID: 620-10080-5**
Date Collected: 03/01/23 14:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 95.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0207	0.00327	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1
PCB-1248	ND		0.0207	0.00647	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1
PCB-1254	ND		0.0207	0.0161	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1
PCB-1262	ND		0.0207	0.00482	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1
PCB-1260	ND		0.0207	0.00445	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1
PCB-1268	ND		0.0207	0.00441	mg/Kg	☼	03/10/23 15:06	03/14/23 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:01*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:01*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:01*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:01*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluoroheptanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorooctanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorononanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorodecanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorotridecanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorotetradecanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorobutanesulfonic acid	ND		2.07	0.414	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorohexanesulfonic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorooctanesulfonic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
NEtFOSAA	ND		2.07	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
NMeFOSAA	ND		2.07	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
10:2 FTS	ND		2.07	0.621	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluoropentanesulfonic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluoroheptanesulfonic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorononanesulfonic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorodecanesulfonic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.07	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorooctanesulfonamide	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorohexadecanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorooctadecanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorobutanoic acid	ND		2.07	0.827	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluoropentanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
NMeFOSE	ND		2.07	0.517	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
NMeFOSA	ND		2.07	0.517	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
NEtFOSE	ND		2.07	0.517	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
NEtFOSA	ND		2.07	0.517	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
HFPODA	ND		2.07	1.03	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
DONA	ND		3.10	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
9Cl-PF3ONS	ND		2.07	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
11Cl-PF3OUdS	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluorododecanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
4:2 Fluorotelomer sulfonic acid	ND		2.07	0.621	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
Perfluoroundecanoic acid	ND		0.621	0.207	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1

Client Sample ID: 2023-MW-07-0810' **Lab Sample ID: 620-10080-5**
Date Collected: 03/01/23 14:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 95.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.07	0.621	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1
8:2 Fluorotelomer sulfonic acid	ND		3.10	0.621	ug/Kg	☼	03/07/23 22:57	03/16/23 05:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
M2-8:2 FTS	*93*		*15 - 200*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C4 PFHpA	*103*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C8 PFOA	*106*		*26 - 159*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C9 PFNA	*106*		*26 - 165*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C6 PFDA	*101*		*26 - 161*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C7 PFUnA	*97*		*12 - 173*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C3 PFBS	*101*		*27 - 179*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C3 PFHxS	*102*		*24 - 171*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C8 PFOS	*103*		*41 - 154*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
d3-NMeFOSAA	*28*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
d5-NEtFOSAA	*30*		*10 - 193*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C8 FOSA	*91*		*14 - 163*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C4 PFBA	*96*		*28 - 153*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C5 PFPeA	*96*		*24 - 161*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
d7-N-MeFOSE-M	*86*		*10 - 179*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
d3-NMePFOSA	*47*		*10 - 175*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
d9-N-EtFOSE-M	*83*		*10 - 185*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
d5-NEtPFOSA	*50*		*10 - 180*	*03/07/23 22:57*	*03/16/23 05:16*	*1*
13C3 HFPO-DA	*99*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:16*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.99	1.36	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Arsenic	**2.10**	**J**	2.39	1.12	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Barium	**13.0**		0.399	0.120	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Beryllium	**0.146**	**J**	0.399	0.0797	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Cadmium	ND		0.399	0.0797	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Chromium	**3.84**		1.20	0.279	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Lead	**2.32**		1.20	0.478	mg/Kg	☼	03/08/23 20:04	03/10/23 13:40	1
Nickel	**1.67**		0.797	0.207	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Selenium	ND		3.99	1.20	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Silver	ND		0.797	0.319	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Thallium	**1.21**	**J**	2.39	1.04	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Vanadium	**5.56**		0.797	0.343	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1
Zinc	**7.80**		1.59	0.638	mg/Kg	☼	03/08/23 20:04	03/09/23 21:37	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0607	0.0202	mg/Kg	☼	03/08/23 13:59	03/09/23 09:01	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07-0810' **Lab Sample ID: 620-10080-5**
Date Collected: 03/01/23 14:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 95.7**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.3		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	95.7		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-1012'
Date Collected: 03/01/23 14:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-6
Matrix: Solid
Percent Solids: 72.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00530	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Acetone	ND		0.0530	0.0119	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Acrylonitrile	ND		0.00530	0.00318	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Benzene	ND		0.00530	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Bromobenzene	ND		0.00530	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Bromochloromethane	ND		0.00530	0.00301	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Bromodichloromethane	ND		0.00530	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Bromoform	ND		0.00530	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Bromomethane	ND		0.0106	0.00661	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
2-Butanone (MEK)	ND		0.0106	0.00422	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
n-Butylbenzene	ND		0.0106	0.00569	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
sec-Butylbenzene	ND		0.00530	0.00427	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
tert-Butylbenzene	ND		0.00530	0.00418	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Carbon disulfide	ND		0.0106	0.00372	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Carbon tetrachloride	ND		0.00530	0.00334	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Chlorobenzene	ND		0.00530	0.00388	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Chloroethane	ND		0.0106	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Chloroform	ND		0.00530	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Chloromethane	ND		0.0106	0.00407	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
2-Chlorotoluene	ND		0.00530	0.00422	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
4-Chlorotoluene	ND		0.00530	0.00460	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Dibromochloromethane	ND		0.00530	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2-Dibromoethane (EDB)	ND		0.00530	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Dibromomethane	ND		0.00530	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2-Dichlorobenzene	ND		0.00530	0.00492	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,3-Dichlorobenzene	ND		0.00530	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,4-Dichlorobenzene	ND		0.00530	0.00503	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Dichlorodifluoromethane (Freon 12)	ND		0.0106	0.00284	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,1-Dichloroethane	ND		0.00530	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2-Dichloroethane	ND		0.00530	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,1-Dichloroethene	ND		0.00530	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
cis-1,2-Dichloroethene	ND		0.00530	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
trans-1,2-Dichloroethene	ND		0.00530	0.00330	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2-Dichloropropane	ND		0.00530	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,3-Dichloropropane	ND		0.00530	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
2,2-Dichloropropane	ND		0.00530	0.00366	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,1-Dichloropropene	ND		0.00530	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
cis-1,3-Dichloropropene	ND		0.00530	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
trans-1,3-Dichloropropene	ND		0.00530	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Ethylbenzene	ND		0.00530	0.00379	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Hexachlorobutadiene	ND		0.0106	0.00534	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
2-Hexanone (MBK)	ND		0.0106	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Isopropylbenzene	ND		0.00530	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
4-Isopropyltoluene	ND		0.00530	0.00521	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Methyl tert-butyl ether	ND		0.00530	0.00305	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Methylene Chloride	ND		0.0106	0.00284	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Naphthalene	ND		0.00530	0.00479	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1

Client Sample ID: 2023-MW-07-1012' **Lab Sample ID: 620-10080-6**
Date Collected: 03/01/23 14:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 72.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00530	0.00449	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Styrene	ND		0.00530	0.00410	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,1,1,2-Tetrachloroethane	ND		0.00530	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,1,2,2-Tetrachloroethane	ND		0.00530	0.00486	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Tetrachloroethene	ND		0.00530	0.00295	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Toluene	ND		0.00530	0.00336	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2,3-Trichlorobenzene	ND		0.00530	0.00448	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2,4-Trichlorobenzene	ND		0.00530	0.00489	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,3,5-Trichlorobenzene	ND		0.00530	0.00504	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,1,1-Trichloroethane	ND		0.00530	0.00362	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,1,2-Trichloroethane	ND		0.00530	0.00400	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Trichloroethene	ND		0.00530	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Trichlorofluoromethane (Freon 11)	ND		0.00530	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2,3-Trichloropropane	ND		0.00530	0.00471	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,2,4-Trimethylbenzene	ND		0.00530	0.00449	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,3,5-Trimethylbenzene	ND		0.00530	0.00451	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Vinyl chloride	ND		0.00530	0.00324	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
m,p-Xylene	ND		0.00530	0.00724	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
o-Xylene	ND		0.00530	0.00387	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Ethyl ether	ND		0.00530	0.00279	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Tert-amyl methyl ether	ND		0.00530	0.00419	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Ethyl tert-butyl ether	ND		0.00530	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
di-Isopropyl ether	ND		0.00530	0.00379	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
tert-Butanol	ND		0.106	0.0284	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,4-Dioxane	ND		0.106	0.0330	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
trans-1,4-Dichloro-2-butene	ND		0.0265	0.00391	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Ethanol	ND		1.06	0.0658	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
1,3-Dichloropropene, Total	ND		0.00530	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1
Xylenes, Total	ND		0.0159	0.00530	mg/Kg	☼	03/07/23 09:52	03/07/23 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:23*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:23*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:23*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.452	0.0803	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
1,2,4-Trichlorobenzene	ND		0.452	0.103	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
1,2-Dichlorobenzene	ND		0.452	0.0870	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
1,3-Dichlorobenzene	ND		0.452	0.109	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
1,4-Dichlorobenzene	ND		0.452	0.106	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
1-Methylnaphthalene	ND		0.0913	0.0766	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2,4,5-Trichlorophenol	ND		0.452	0.0517	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2,4,6-Trichlorophenol	ND		0.229	0.0558	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2,4-Dichlorophenol	ND		0.229	0.0910	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2,4-Dimethylphenol	ND		0.452	0.0662	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2,4-Dinitrophenol	ND		0.452	0.119	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-1012'
Date Collected: 03/01/23 14:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-6
Matrix: Solid
Percent Solids: 72.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.229	0.0535	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2,6-Dinitrotoluene	ND		0.229	0.0535	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2-Chloronaphthalene	ND		0.452	0.104	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2-Chlorophenol	ND		0.229	0.0935	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2-Methylnaphthalene	ND		0.0913	0.0675	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2-Methylphenol	ND		0.452	0.0660	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2-Nitroaniline	ND		0.452	0.0430	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
2-Nitrophenol	ND		0.229	0.0812	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
3 & 4 Methylphenol	ND		0.452	0.0855	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
3,3'-Dichlorobenzidine	ND		0.452	0.0746	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
3-Nitroaniline	ND		0.452	0.0404	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
4,6-Dinitro-2-methylphenol	ND		0.452	0.0812	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
4-Bromophenyl phenyl ether	ND		0.452	0.0510	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
4-Chloro-3-methylphenol	ND		0.452	0.0884	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
4-Chloroaniline	ND		0.229	0.0346	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
4-Chlorophenyl phenyl ether	ND		0.452	0.0483	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
4-Nitroaniline	ND		0.229	0.0721	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
4-Nitrophenol	ND		0.452	0.157	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Acenaphthene	ND		0.0913	0.0728	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Acenaphthylene	ND		0.0913	0.0599	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Acetophenone	ND		0.229	0.0557	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Aniline	ND		0.452	0.0346	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Anthracene	ND		0.0913	0.0528	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Azobenzene/Diphenyldiazene	ND		0.452	0.0770	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzidine	ND		0.903	0.134	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzo[a]anthracene	ND		0.0913	0.0513	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzo[a]pyrene	ND		0.0913	0.0653	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzo[b]fluoranthene	ND		0.0913	0.0757	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzo[g,h,i]perylene	ND		0.0913	0.0713	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzo[k]fluoranthene	ND		0.0913	0.0710	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzoic acid	ND		0.452	0.311	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Benzyl alcohol	ND		0.452	0.0818	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Bis(2-chloroethoxy)methane	ND		0.452	0.0786	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Bis(2-chloroethyl)ether	ND		0.229	0.0747	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
bis (2-chloroisopropyl) ether	ND		0.229	0.102	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Bis(2-ethylhexyl) phthalate	ND		0.229	0.0582	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Butyl benzyl phthalate	ND		0.452	0.0453	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Carbazole	ND		0.229	0.0598	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Chrysene	ND		0.0913	0.0516	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Dibenz(a,h)anthracene	ND		0.0913	0.0697	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Dibenzofuran	ND		0.229	0.0791	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Diethyl phthalate	ND		0.452	0.0495	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Dimethyl phthalate	ND		0.452	0.0588	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Di-n-butyl phthalate	ND		0.452	0.0483	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Di-n-octyl phthalate	ND		0.452	0.0746	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Fluoranthene	ND		0.0913	0.0535	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Fluorene	ND		0.0913	0.0833	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Hexachlorobenzene	ND		0.229	0.0634	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Hexachlorobutadiene	ND		0.229	0.114	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1

Client Sample ID: 2023-MW-07-1012'
Date Collected: 03/01/23 14:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-6
Matrix: Solid
Percent Solids: 72.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.229	0.0873	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Hexachloroethane	ND		0.229	0.0898	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0913	0.0775	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Isophorone	ND		0.229	0.0625	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Naphthalene	ND		0.0913	0.0876	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Nitrobenzene	ND		0.229	0.106	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
N-Nitrosodimethylamine	ND		0.229	0.0599	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
N-Nitrosodi-n-propylamine	ND		0.229	0.0910	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
N-Nitrosodiphenylamine	ND		0.452	0.0576	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Pentachloronitrobenzene	ND		0.452	0.0713	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Pentachlorophenol	ND		0.452	0.185	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Phenanthrene	ND		0.0913	0.0517	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Phenol	ND		0.452	0.0931	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Pyrene	ND		0.0913	0.0504	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1
Pyridine	ND		0.452	0.107	mg/Kg	☼	03/10/23 11:19	03/10/23 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:01*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:01*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:01*	*1*
Phenol-d5 (Surr)	*81*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:01*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:01*	*1*
Terphenyl-d14	*95*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:01*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.304	0.156	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.304	0.130	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0608	0.0122	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
Ethylbenzene	ND		0.0608	0.0122	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
Methyl tert-butyl ether	ND		0.0608	0.0122	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
m,p-Xylene	ND		0.122	0.0122	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
Naphthalene	ND		0.0608	0.0414	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
o-Xylene	ND		0.0608	0.0122	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
Toluene	ND		0.0608	0.0122	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.304	0.156	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
C9-C10 Aromatics	ND		0.304	0.0426	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.304	0.130	mg/Kg	☼	03/06/23 10:00	03/06/23 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/06/23 10:00*	*03/06/23 17:16*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/06/23 10:00*	*03/06/23 17:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0273	0.0197	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1
PCB-1221	ND		0.0273	0.00808	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1
PCB-1232	ND		0.0273	0.00757	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1

Client Sample ID: 2023-MW-07-1012' **Lab Sample ID: 620-10080-6**
Date Collected: 03/01/23 14:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 72.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0273	0.00432	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1
PCB-1248	ND		0.0273	0.00854	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1
PCB-1254	ND		0.0273	0.0213	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1
PCB-1262	ND		0.0273	0.00637	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1
PCB-1260	ND		0.0273	0.00588	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1
PCB-1268	ND		0.0273	0.00582	mg/Kg	☼	03/10/23 15:06	03/14/23 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:20*	*1*
Tetrachloro-m-xylene	*84*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:20*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:20*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*30 - 150*	*03/10/23 15:06*	*03/14/23 03:20*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluoroheptanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorooctanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorononanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorodecanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorotridecanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorotetradecanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorobutanesulfonic acid	ND		2.77	0.555	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorohexanesulfonic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorooctanesulfonic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
NEtFOSAA	ND		2.77	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
NMeFOSAA	ND		2.77	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
10:2 FTS	ND		2.77	0.832	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluoropentanesulfonic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluoroheptanesulfonic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorononanesulfonic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorodecanesulfonic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.77	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorooctanesulfonamide	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorohexadecanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorooctadecanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorobutanoic acid	ND		2.77	1.11	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluoropentanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
NMeFOSE	ND		2.77	0.694	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
NMeFOSA	ND		2.77	0.694	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
NEtFOSE	ND		2.77	0.694	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
NEtFOSA	ND		2.77	0.694	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
HFPODA	ND		2.77	1.39	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
DONA	ND		4.16	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
9Cl-PF3ONS	ND		2.77	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
11Cl-PF3OUdS	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluorododecanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
4:2 Fluorotelomer sulfonic acid	ND		2.77	0.832	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
Perfluoroundecanoic acid	ND		0.832	0.277	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1

Client Sample ID: 2023-MW-07-1012' **Lab Sample ID: 620-10080-6**
Date Collected: 03/01/23 14:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 72.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.77	0.832	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1
8:2 Fluorotelomer sulfonic acid	ND		4.16	0.832	ug/Kg	☼	03/07/23 22:57	03/16/23 05:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
M2-8:2 FTS	*86*		*15 - 200*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
M2-6:2 FTS	*85*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C5 PFHxA	*99*		*10 - 174*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C4 PFHpA	*97*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C8 PFOA	*98*		*26 - 159*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C9 PFNA	*91*		*26 - 165*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C6 PFDA	*86*		*26 - 161*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C7 PFUnA	*91*		*12 - 173*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C2-PFDoDA	*83*		*11 - 166*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C3 PFBS	*89*		*27 - 179*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C3 PFHxS	*92*		*24 - 171*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C8 PFOS	*91*		*41 - 154*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
d3-NMeFOSAA	*54*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
d5-NEtFOSAA	*48*		*10 - 193*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C5 PFPeA	*84*		*24 - 161*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
d7-N-MeFOSE-M	*87*		*10 - 179*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
d3-NMePFOSA	*52*		*10 - 175*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
d9-N-EtFOSE-M	*85*		*10 - 185*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
d5-NEtPFOSA	*54*		*10 - 180*	*03/07/23 22:57*	*03/16/23 05:27*	*1*
13C3 HFPO-DA	*99*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:27*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		6.54	2.23	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Arsenic	**10.6**		3.93	1.83	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Barium	**155**		0.654	0.196	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Beryllium	**1.82**		0.654	0.131	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Cadmium	ND		0.654	0.131	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Chromium	**37.7**		1.96	0.458	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Lead	**14.7**		1.96	0.785	mg/Kg	☼	03/08/23 20:04	03/10/23 13:27	1
Nickel	**22.5**		1.31	0.340	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Selenium	ND		6.54	1.96	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Silver	ND		1.31	0.524	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Thallium	**13.6**		3.93	1.70	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Vanadium	**64.8**		1.31	0.563	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1
Zinc	**90.8**		2.62	1.05	mg/Kg	☼	03/08/23 20:04	03/09/23 21:33	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0806	0.0269	mg/Kg	☼	03/08/23 00:50	03/09/23 09:34	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-1012'
Date Collected: 03/01/23 14:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-6
Matrix: Solid
Percent Solids: 72.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	27.9		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	72.1		0.1	0.1	%			03/03/23 09:45	1

Client Sample ID: 2023-SS-06
Date Collected: 02/27/23 09:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-7
Matrix: Solid
Percent Solids: 73.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0594	0.0325	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Acetone	**0.516**	**J F1**	0.594	0.0748	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Acrylonitrile	ND		0.0594	0.0214	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Benzene	ND		0.0594	0.00950	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Bromobenzene	ND		0.0594	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Bromochloromethane	ND		0.0594	0.00849	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Bromodichloromethane	ND		0.0594	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Bromoform	ND		0.0594	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Bromomethane	ND	F1	0.119	0.0293	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
2-Butanone (MEK)	**0.0894**	**J**	0.119	0.0271	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
n-Butylbenzene	ND		0.0594	0.0238	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
sec-Butylbenzene	ND		0.0594	0.0182	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
tert-Butylbenzene	ND		0.0594	0.0242	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Carbon disulfide	ND		0.119	0.0220	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Carbon tetrachloride	ND		0.0594	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Chlorobenzene	ND		0.0594	0.00719	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Chloroethane	ND	F1	0.119	0.0265	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Chloroform	ND		0.0594	0.00701	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Chloromethane	ND		0.119	0.0707	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
2-Chlorotoluene	ND		0.0594	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
4-Chlorotoluene	ND		0.0594	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2-Dibromo-3-Chloropropane	ND		0.119	0.0235	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Dibromochloromethane	ND		0.0594	0.00938	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2-Dibromoethane (EDB)	ND		0.0594	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Dibromomethane	ND		0.0594	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2-Dichlorobenzene	ND		0.0594	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,3-Dichlorobenzene	ND		0.0594	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,4-Dichlorobenzene	ND		0.0594	0.0106	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Dichlorodifluoromethane (Freon 12)	ND	F1	0.119	0.0778	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,1-Dichloroethane	ND		0.0594	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2-Dichloroethane	ND		0.0594	0.0156	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,1-Dichloroethene	ND		0.0594	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
cis-1,2-Dichloroethene	ND		0.0594	0.0198	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
trans-1,2-Dichloroethene	ND		0.0594	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2-Dichloropropane	ND		0.0594	0.0206	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,3-Dichloropropane	ND		0.0594	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
2,2-Dichloropropane	ND		0.0594	0.0156	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,1-Dichloropropene	ND		0.0594	0.0182	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
cis-1,3-Dichloropropene	ND		0.0594	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
trans-1,3-Dichloropropene	ND		0.0594	0.0242	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Ethylbenzene	ND		0.0594	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Hexachlorobutadiene	ND		0.0594	0.0190	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
2-Hexanone (MBK)	ND		0.119	0.0395	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Isopropylbenzene	ND		0.0594	0.0216	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
4-Isopropyltoluene	ND		0.0594	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Methyl tert-butyl ether	ND		0.0594	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		0.119	0.0425	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Methylene Chloride	ND		0.119	0.0507	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Naphthalene	ND		0.0594	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1

Client Sample ID: 2023-SS-06 **Lab Sample ID: 620-10080-7**
Date Collected: 02/27/23 09:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 73.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0594	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Styrene	ND		0.0594	0.00784	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,1,1,2-Tetrachloroethane	ND		0.0594	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,1,2,2-Tetrachloroethane	ND		0.0594	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Tetrachloroethene	ND		0.0594	0.0187	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Toluene	ND		0.0594	0.00956	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2,3-Trichlorobenzene	ND		0.0594	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2,4-Trichlorobenzene	ND		0.0594	0.00980	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,3,5-Trichlorobenzene	ND		0.0594	0.00938	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,1,1-Trichloroethane	ND		0.0594	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,1,2-Trichloroethane	ND		0.0594	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Trichloroethene	ND		0.0594	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Trichlorofluoromethane (Freon 11)	ND	F1	0.0594	0.0268	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2,3-Trichloropropane	ND		0.0594	0.0274	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,2,4-Trimethylbenzene	ND		0.0594	0.0150	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,3,5-Trimethylbenzene	ND		0.0594	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Vinyl chloride	ND		0.0594	0.0292	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
m,p-Xylene	ND		0.0594	0.0349	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
o-Xylene	ND		0.0594	0.0183	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Tetrahydrofuran	ND		0.119	0.0434	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Ethyl ether	ND		0.0594	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Tert-amyl methyl ether	ND		0.0594	0.0328	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Ethyl tert-butyl ether	ND		0.0594	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
di-Isopropyl ether	ND		0.0594	0.0192	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
tert-Butanol	ND		1.19	0.843	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,4-Dioxane	ND		1.19	0.350	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
trans-1,4-Dichloro-2-butene	ND		0.297	0.0392	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Ethanol	ND	F1	11.9	1.02	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
1,3-Dichloropropene, Total	ND		0.0594	0.0242	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1
Xylenes, Total	ND		0.178	0.178	mg/Kg	☼	03/07/23 12:57	03/07/23 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 15:12*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 15:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 15:12*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/07/23 12:57*	*03/07/23 15:12*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.260	0.187	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1221	ND		0.260	0.0768	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1232	ND		0.260	0.0720	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1242	ND		0.260	0.0411	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1248	ND		0.260	0.0812	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1254	**6.40**		0.260	0.202	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1262	ND		0.260	0.0606	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1260	ND	F1	0.260	0.0559	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10
PCB-1268	ND		0.260	0.0554	mg/Kg	☼	03/10/23 15:32	03/14/23 13:48	10

Client Sample ID: 2023-SS-06 **Lab Sample ID: 620-10080-7**
Date Collected: 02/27/23 09:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 73.5**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	69		30 - 150	03/10/23 15:32	03/14/23 13:48	10
Tetrachloro-m-xylene	74		30 - 150	03/10/23 15:32	03/14/23 13:48	10
DCB Decachlorobiphenyl (Surr)	140		30 - 150	03/10/23 15:32	03/14/23 13:48	10
DCB Decachlorobiphenyl (Surr)	118		30 - 150	03/10/23 15:32	03/14/23 13:48	10

Method: MA DEP MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	ND	F1	8.84	8.84	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
C19-C36 Aliphatics	ND		8.84	8.84	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
C11-C22 Aromatics	**149**		8.84	8.84	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
C11-C22 Aromatics (Adjusted)	**109**		8.84	8.84	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Naphthalene	ND		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
2-Methylnaphthalene	ND		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Acenaphthylene	ND		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Acenaphthene	ND		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Fluorene	ND		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Phenanthrene	**9.13**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Anthracene	**1.07**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Fluoranthene	**10.6**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Pyrene	**5.45**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Benzo[a]anthracene	**3.99**	***1**	0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Chrysene	**2.45**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Benzo[b]fluoranthene	**1.67**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Benzo[k]fluoranthene	**1.79**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Benzo[a]pyrene	**1.20**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Indeno[1,2,3-cd]pyrene	**1.38**		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Dibenz(a,h)anthracene	**0.540**	***1**	0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1
Benzo[g,h,i]perylene	ND		0.441	0.441	mg/Kg	☼	03/06/23 08:26	03/10/23 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane (Surr)	46		40 - 140	03/06/23 08:26	03/10/23 16:38	1
o-Terphenyl (Surr)	70		40 - 140	03/06/23 08:26	03/10/23 16:38	1
2-Fluorobiphenyl (Surr)	109		40 - 140	03/06/23 08:26	03/10/23 16:38	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	5.53	1.88	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Arsenic	**6.27**		3.32	1.55	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Barium	**51.4**	**F1**	0.553	0.166	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Beryllium	**0.637**		0.553	0.111	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Cadmium	**1.02**		0.553	0.111	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Chromium	**12.7**		1.66	0.387	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Lead	**17.0**	**F1 F2**	1.66	0.663	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Nickel	**7.32**		1.11	0.287	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Selenium	ND		5.53	1.66	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Silver	ND	^3+	11.1	4.42	mg/Kg	☼	03/09/23 00:11	03/13/23 18:58	10
Thallium	ND		33.2	14.4	mg/Kg	☼	03/09/23 00:11	03/13/23 18:58	10
Vanadium	**20.4**		1.11	0.475	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1
Zinc	**49.7**		2.21	0.884	mg/Kg	☼	03/09/23 00:11	03/13/23 18:32	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-06
Date Collected: 02/27/23 09:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-7
Matrix: Solid
Percent Solids: 73.5

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0418	J	0.0803	0.0268	mg/Kg	☼	03/08/23 19:41	03/10/23 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	26.5		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	73.5		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-05
Date Collected: 02/27/23 09:50
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-8
Matrix: Solid
Percent Solids: 93.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0552	0.0302	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Acetone	**0.344**	**J**	0.552	0.0695	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Acrylonitrile	ND		0.0552	0.0199	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Benzene	ND		0.0552	0.00883	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Bromobenzene	ND		0.0552	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Bromochloromethane	ND		0.0552	0.00789	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Bromodichloromethane	ND		0.0552	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Bromoform	ND		0.0552	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Bromomethane	ND		0.110	0.0273	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
2-Butanone (MEK)	ND		0.110	0.0252	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
n-Butylbenzene	ND		0.0552	0.0221	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
sec-Butylbenzene	ND		0.0552	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
tert-Butylbenzene	ND		0.0552	0.0225	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Carbon disulfide	ND		0.110	0.0204	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Carbon tetrachloride	ND		0.0552	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Chlorobenzene	ND		0.0552	0.00668	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Chloroethane	ND		0.110	0.0246	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Chloroform	ND		0.0552	0.00651	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Chloromethane	ND		0.110	0.0657	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
2-Chlorotoluene	ND		0.0552	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
4-Chlorotoluene	ND		0.0552	0.00999	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2-Dibromo-3-Chloropropane	ND		0.110	0.0218	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Dibromochloromethane	ND		0.0552	0.00872	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2-Dibromoethane (EDB)	ND		0.0552	0.0150	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Dibromomethane	ND		0.0552	0.0104	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2-Dichlorobenzene	ND		0.0552	0.00993	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,3-Dichlorobenzene	ND		0.0552	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,4-Dichlorobenzene	ND		0.0552	0.00988	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Dichlorodifluoromethane (Freon 12)	ND		0.110	0.0723	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,1-Dichloroethane	ND		0.0552	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2-Dichloroethane	ND		0.0552	0.0145	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,1-Dichloroethene	ND		0.0552	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
cis-1,2-Dichloroethene	ND		0.0552	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
trans-1,2-Dichloroethene	ND		0.0552	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2-Dichloropropane	ND		0.0552	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,3-Dichloropropane	ND		0.0552	0.0174	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
2,2-Dichloropropane	ND		0.0552	0.0145	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,1-Dichloropropene	ND		0.0552	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
cis-1,3-Dichloropropene	ND		0.0552	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
trans-1,3-Dichloropropene	ND		0.0552	0.0225	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Ethylbenzene	ND		0.0552	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Hexachlorobutadiene	ND		0.0552	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
2-Hexanone (MBK)	ND		0.110	0.0367	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Isopropylbenzene	ND		0.0552	0.0200	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
4-Isopropyltoluene	**0.0826**		0.0552	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Methyl tert-butyl ether	ND		0.0552	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
4-Methyl-2-pentanone (MIBK)	ND		0.110	0.0395	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Methylene Chloride	ND		0.110	0.0471	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Naphthalene	ND		0.0552	0.0160	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1

Client Sample ID: 2023-SS-05 **Lab Sample ID: 620-10080-8**
Date Collected: 02/27/23 09:50 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 93.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0552	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Styrene	ND		0.0552	0.00728	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,1,1,2-Tetrachloroethane	ND		0.0552	0.0133	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,1,2,2-Tetrachloroethane	ND		0.0552	0.0175	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Tetrachloroethene	ND		0.0552	0.0174	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Toluene	ND		0.0552	0.00888	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2,3-Trichlorobenzene	ND		0.0552	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2,4-Trichlorobenzene	ND		0.0552	0.00910	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,3,5-Trichlorobenzene	ND		0.0552	0.00872	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,1,1-Trichloroethane	ND		0.0552	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,1,2-Trichloroethane	ND		0.0552	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Trichloroethene	ND		0.0552	0.00944	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Trichlorofluoromethane (Freon 11)	ND		0.0552	0.0249	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2,3-Trichloropropane	ND		0.0552	0.0254	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,2,4-Trimethylbenzene	ND		0.0552	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,3,5-Trimethylbenzene	ND		0.0552	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Vinyl chloride	ND		0.0552	0.0271	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
m,p-Xylene	ND		0.0552	0.0324	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
o-Xylene	ND		0.0552	0.0170	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Tetrahydrofuran	ND		0.110	0.0403	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Ethyl ether	ND		0.0552	0.0150	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Tert-amyl methyl ether	ND		0.0552	0.0305	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Ethyl tert-butyl ether	ND		0.0552	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
di-Isopropyl ether	ND		0.0552	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
tert-Butanol	ND		1.10	0.784	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,4-Dioxane	ND		1.10	0.325	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
trans-1,4-Dichloro-2-butene	ND		0.276	0.0364	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Ethanol	ND		11.0	0.949	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
1,3-Dichloropropene, Total	ND		0.0552	0.0225	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1
Xylenes, Total	ND		0.166	0.166	mg/Kg	☼	03/07/23 12:57	03/07/23 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:08*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:08*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:08*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0203	0.0146	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1221	ND		0.0203	0.00599	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1232	ND		0.0203	0.00561	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1242	ND		0.0203	0.00320	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1248	ND		0.0203	0.00633	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1254	**0.735**		0.0203	0.0158	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1262	ND		0.0203	0.00472	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1260	ND		0.0203	0.00436	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1
PCB-1268	ND		0.0203	0.00432	mg/Kg	☼	03/10/23 15:33	03/14/23 04:35	1

Client Sample ID: 2023-SS-05
Date Collected: 02/27/23 09:50
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-8
Matrix: Solid
Percent Solids: 93.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*03/10/23 15:33*	*03/14/23 04:35*	*1*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/10/23 15:33*	*03/14/23 04:35*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*30 - 150*	*03/10/23 15:33*	*03/14/23 04:35*	*1*
DCB Decachlorobiphenyl (Surr)	*104*		*30 - 150*	*03/10/23 15:33*	*03/14/23 04:35*	*1*

Method: MA DEP MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	ND		6.87	6.87	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
C19-C36 Aliphatics	ND		6.87	6.87	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
C11-C22 Aromatics	ND		6.87	6.87	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
C11-C22 Aromatics (Adjusted)	ND		6.87	6.87	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Naphthalene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
2-Methylnaphthalene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Acenaphthylene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Acenaphthene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Fluorene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Phenanthrene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Anthracene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Fluoranthene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Pyrene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Benzo[a]anthracene	ND	*1	0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Chrysene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Benzo[b]fluoranthene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Benzo[k]fluoranthene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Benzo[a]pyrene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Indeno[1,2,3-cd]pyrene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Dibenz(a,h)anthracene	ND	*1	0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1
Benzo[g,h,i]perylene	ND		0.343	0.343	mg/Kg	☼	03/06/23 08:26	03/10/23 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*55*		*40 - 140*	*03/06/23 08:26*	*03/10/23 18:42*	*1*
o-Terphenyl (Surr)	*52*		*40 - 140*	*03/06/23 08:26*	*03/10/23 18:42*	*1*
2-Fluorobiphenyl (Surr)	*96*		*40 - 140*	*03/06/23 08:26*	*03/10/23 18:42*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.24	1.78	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Arsenic	**2.15**	**J**	3.14	1.47	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Barium	**20.6**		0.524	0.157	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Beryllium	**0.245**	**J**	0.524	0.105	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Cadmium	ND		0.524	0.105	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Chromium	**3.21**		1.57	0.367	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Lead	**7.58**		1.57	0.628	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Nickel	**2.07**		1.05	0.272	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Selenium	ND		5.24	1.57	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Silver	ND	^3+	1.05	0.419	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Thallium	ND		3.14	1.36	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Vanadium	**5.54**		1.05	0.450	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1
Zinc	**21.3**		2.09	0.838	mg/Kg	☼	03/09/23 00:11	03/13/23 19:33	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-05 **Lab Sample ID: 620-10080-8**
Date Collected: 02/27/23 09:50 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 93.6**

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0641	0.0214	mg/Kg	☼	03/08/23 00:50	03/09/23 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.4		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	93.6		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-04
Date Collected: 02/27/23 09:45
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-9
Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0641	0.0351	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Acetone	**0.253**	**J**	0.641	0.0807	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Acrylonitrile	ND		0.0641	0.0231	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Benzene	ND		0.0641	0.0103	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Bromobenzene	ND		0.0641	0.0145	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Bromochloromethane	ND		0.0641	0.00916	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Bromodichloromethane	ND		0.0641	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Bromoform	ND		0.0641	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Bromomethane	ND		0.128	0.0317	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
2-Butanone (MEK)	ND		0.128	0.0293	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
n-Butylbenzene	ND		0.0641	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
sec-Butylbenzene	ND		0.0641	0.0197	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
tert-Butylbenzene	ND		0.0641	0.0261	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Carbon disulfide	ND		0.128	0.0237	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Carbon tetrachloride	ND		0.0641	0.0192	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Chlorobenzene	ND		0.0641	0.00775	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Chloroethane	ND		0.128	0.0286	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Chloroform	ND		0.0641	0.00756	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Chloromethane	ND		0.128	0.0763	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
2-Chlorotoluene	ND		0.0641	0.0159	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
4-Chlorotoluene	ND		0.0641	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2-Dibromo-3-Chloropropane	ND		0.128	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Dibromochloromethane	ND		0.0641	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2-Dibromoethane (EDB)	ND		0.0641	0.0174	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Dibromomethane	ND		0.0641	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2-Dichlorobenzene	ND		0.0641	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,3-Dichlorobenzene	ND		0.0641	0.0160	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,4-Dichlorobenzene	ND		0.0641	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Dichlorodifluoromethane (Freon 12)	ND		0.128	0.0839	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,1-Dichloroethane	ND		0.0641	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2-Dichloroethane	ND		0.0641	0.0168	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,1-Dichloroethene	ND		0.0641	0.0164	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
cis-1,2-Dichloroethene	ND		0.0641	0.0213	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
trans-1,2-Dichloroethene	ND		0.0641	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2-Dichloropropane	ND		0.0641	0.0222	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,3-Dichloropropane	ND		0.0641	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
2,2-Dichloropropane	ND		0.0641	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,1-Dichloropropene	ND		0.0641	0.0196	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
cis-1,3-Dichloropropene	ND		0.0641	0.0151	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
trans-1,3-Dichloropropene	ND		0.0641	0.0261	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Ethylbenzene	ND		0.0641	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Hexachlorobutadiene	ND		0.0641	0.0205	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
2-Hexanone (MBK)	ND		0.128	0.0426	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Isopropylbenzene	ND		0.0641	0.0233	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
4-Isopropyltoluene	ND		0.0641	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Methyl tert-butyl ether	ND		0.0641	0.0193	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.128	0.0459	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Methylene Chloride	ND		0.128	0.0547	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Naphthalene	ND		0.0641	0.0186	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1

Client Sample ID: 2023-SS-04 **Lab Sample ID: 620-10080-9**
Date Collected: 02/27/23 09:45 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0641	0.0160	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Styrene	ND		0.0641	0.00846	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,1,1,2-Tetrachloroethane	ND		0.0641	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,1,2,2-Tetrachloroethane	ND		0.0641	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Tetrachloroethene	ND		0.0641	0.0202	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Toluene	**0.0264**	**J**	0.0641	0.0103	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2,3-Trichlorobenzene	ND		0.0641	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2,4-Trichlorobenzene	ND		0.0641	0.0106	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,3,5-Trichlorobenzene	ND		0.0641	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,1,1-Trichloroethane	ND		0.0641	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,1,2-Trichloroethane	ND		0.0641	0.0198	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Trichloroethene	ND		0.0641	0.0110	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Trichlorofluoromethane (Freon 11)	ND		0.0641	0.0290	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2,3-Trichloropropane	ND		0.0641	0.0295	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,2,4-Trimethylbenzene	**0.0490**	**J**	0.0641	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,3,5-Trimethylbenzene	ND		0.0641	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Vinyl chloride	ND		0.0641	0.0315	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
m,p-Xylene	ND		0.0641	0.0377	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
o-Xylene	ND		0.0641	0.0197	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Tetrahydrofuran	ND		0.128	0.0468	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Ethyl ether	ND		0.0641	0.0174	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Tert-amyl methyl ether	ND		0.0641	0.0354	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Ethyl tert-butyl ether	ND		0.0641	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
di-Isopropyl ether	ND		0.0641	0.0207	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
tert-Butanol	ND		1.28	0.910	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,4-Dioxane	ND		1.28	0.377	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
trans-1,4-Dichloro-2-butene	ND		0.320	0.0423	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Ethanol	ND		12.8	1.10	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
1,3-Dichloropropene, Total	ND		0.0641	0.0261	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1
Xylenes, Total	ND		0.192	0.192	mg/Kg	☼	03/07/23 12:57	03/07/23 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:33*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:33*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.109	0.0786	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1221	ND		0.109	0.0322	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1232	ND		0.109	0.0302	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1242	ND		0.109	0.0172	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1248	ND		0.109	0.0341	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1254	**1.81**		0.109	0.0849	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1262	ND		0.109	0.0254	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1260	ND		0.109	0.0235	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5
PCB-1268	ND		0.109	0.0232	mg/Kg	☼	03/10/23 15:38	03/14/23 14:44	5

Client Sample ID: 2023-SS-04
Date Collected: 02/27/23 09:45
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-9
Matrix: Solid
Percent Solids: 91.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		30 - 150	03/10/23 15:38	03/14/23 14:44	5
Tetrachloro-m-xylene	88		30 - 150	03/10/23 15:38	03/14/23 14:44	5
DCB Decachlorobiphenyl (Surr)	134		30 - 150	03/10/23 15:38	03/14/23 14:44	5
DCB Decachlorobiphenyl (Surr)	132		30 - 150	03/10/23 15:38	03/14/23 14:44	5

Method: MA DEP MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	**11.0**		7.15	7.15	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
C19-C36 Aliphatics	**13.7**		7.15	7.15	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
C11-C22 Aromatics	**9.97**		7.15	7.15	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
C11-C22 Aromatics (Adjusted)	**9.97**		7.15	7.15	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Naphthalene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
2-Methylnaphthalene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Acenaphthylene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Acenaphthene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Fluorene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Phenanthrene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Anthracene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Fluoranthene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Pyrene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Benzo[a]anthracene	ND	*1	0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Chrysene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Benzo[b]fluoranthene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Benzo[k]fluoranthene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Benzo[a]pyrene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Indeno[1,2,3-cd]pyrene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Dibenz(a,h)anthracene	ND	*1	0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1
Benzo[g,h,i]perylene	ND		0.357	0.357	mg/Kg	☼	03/06/23 08:26	03/10/23 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane (Surr)	63		40 - 140	03/06/23 08:26	03/10/23 19:12	1
o-Terphenyl (Surr)	65		40 - 140	03/06/23 08:26	03/10/23 19:12	1
2-Fluorobiphenyl (Surr)	104		40 - 140	03/06/23 08:26	03/10/23 19:12	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.04	1.71	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Arsenic	**3.32**		3.02	1.41	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Barium	**21.0**		0.504	0.151	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Beryllium	**0.299**	**J**	0.504	0.101	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Cadmium	ND		0.504	0.101	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Chromium	**5.21**		1.51	0.353	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Lead	**16.8**		1.51	0.605	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Nickel	**3.08**		1.01	0.262	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Selenium	ND		5.04	1.51	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Silver	ND	^3+	1.01	0.403	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Thallium	ND		3.02	1.31	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Vanadium	**8.53**		1.01	0.433	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1
Zinc	**24.7**		2.02	0.806	mg/Kg	☼	03/09/23 00:11	03/13/23 19:39	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-04 **Lab Sample ID: 620-10080-9**
Date Collected: 02/27/23 09:45 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.0**

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0294	J	0.0628	0.0209	mg/Kg	☼	03/08/23 00:50	03/09/23 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.0		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	91.0		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-03
Date Collected: 02/27/23 09:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-10
Matrix: Solid
Percent Solids: 83.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0617	0.0338	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Acetone	**0.182**	**J**	0.617	0.0777	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Acrylonitrile	ND		0.0617	0.0223	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Benzene	ND		0.0617	0.00987	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Bromobenzene	ND		0.0617	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Bromochloromethane	ND		0.0617	0.00882	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Bromodichloromethane	ND		0.0617	0.0159	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Bromoform	ND		0.0617	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Bromomethane	ND		0.123	0.0305	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
2-Butanone (MEK)	**0.0947**	**J**	0.123	0.0282	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
n-Butylbenzene	ND		0.0617	0.0247	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
sec-Butylbenzene	ND		0.0617	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
tert-Butylbenzene	ND		0.0617	0.0252	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Carbon disulfide	ND		0.123	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Carbon tetrachloride	ND		0.0617	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Chlorobenzene	ND		0.0617	0.00747	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Chloroethane	ND		0.123	0.0275	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Chloroform	ND		0.0617	0.00728	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Chloromethane	ND		0.123	0.0734	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
2-Chlorotoluene	ND		0.0617	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
4-Chlorotoluene	ND		0.0617	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2-Dibromo-3-Chloropropane	ND		0.123	0.0244	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Dibromochloromethane	ND		0.0617	0.00975	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2-Dibromoethane (EDB)	ND		0.0617	0.0168	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Dibromomethane	ND		0.0617	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2-Dichlorobenzene	ND		0.0617	0.0111	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,3-Dichlorobenzene	ND		0.0617	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,4-Dichlorobenzene	ND		0.0617	0.0110	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Dichlorodifluoromethane (Freon 12)	ND		0.123	0.0808	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,1-Dichloroethane	ND		0.0617	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2-Dichloroethane	ND		0.0617	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,1-Dichloroethene	ND		0.0617	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
cis-1,2-Dichloroethene	ND		0.0617	0.0205	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
trans-1,2-Dichloroethene	ND		0.0617	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2-Dichloropropane	ND		0.0617	0.0214	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,3-Dichloropropane	ND		0.0617	0.0195	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
2,2-Dichloropropane	ND		0.0617	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,1-Dichloropropene	ND		0.0617	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
cis-1,3-Dichloropropene	ND		0.0617	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
trans-1,3-Dichloropropene	ND		0.0617	0.0251	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Ethylbenzene	ND		0.0617	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Hexachlorobutadiene	ND		0.0617	0.0197	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
2-Hexanone (MBK)	ND		0.123	0.0410	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Isopropylbenzene	ND		0.0617	0.0224	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
4-Isopropyltoluene	ND		0.0617	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Methyl tert-butyl ether	ND		0.0617	0.0186	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.123	0.0442	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Methylene Chloride	ND		0.123	0.0527	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Naphthalene	ND		0.0617	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1

Client Sample ID: 2023-SS-03 **Lab Sample ID: 620-10080-10**
Date Collected: 02/27/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 83.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0617	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Styrene	ND		0.0617	0.00814	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,1,1,2-Tetrachloroethane	ND		0.0617	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,1,2,2-Tetrachloroethane	ND		0.0617	0.0196	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Tetrachloroethene	ND		0.0617	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Toluene	ND		0.0617	0.00993	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2,3-Trichlorobenzene	ND		0.0617	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2,4-Trichlorobenzene	ND		0.0617	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,3,5-Trichlorobenzene	ND		0.0617	0.00975	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,1,1-Trichloroethane	ND		0.0617	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,1,2-Trichloroethane	ND		0.0617	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Trichloroethene	ND		0.0617	0.0106	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Trichlorofluoromethane (Freon 11)	ND		0.0617	0.0279	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2,3-Trichloropropane	ND		0.0617	0.0284	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,2,4-Trimethylbenzene	ND		0.0617	0.0156	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,3,5-Trimethylbenzene	ND		0.0617	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Vinyl chloride	ND		0.0617	0.0304	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
m,p-Xylene	ND		0.0617	0.0363	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
o-Xylene	ND		0.0617	0.0190	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Tetrahydrofuran	ND		0.123	0.0451	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Ethyl ether	ND		0.0617	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Tert-amyl methyl ether	ND		0.0617	0.0341	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Ethyl tert-butyl ether	ND		0.0617	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
di-Isopropyl ether	ND		0.0617	0.0199	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
tert-Butanol	ND		1.23	0.876	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,4-Dioxane	ND		1.23	0.363	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
trans-1,4-Dichloro-2-butene	ND		0.309	0.0407	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Ethanol	ND		12.3	1.06	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
1,3-Dichloropropene, Total	ND		0.0617	0.0251	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1
Xylenes, Total	ND		0.185	0.185	mg/Kg	☼	03/07/23 12:57	03/07/23 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:59*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 21:59*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.217	0.156	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1221	ND		0.217	0.0641	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1232	ND		0.217	0.0601	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1242	ND		0.217	0.0343	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1248	ND		0.217	0.0678	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1254	**5.84**		0.217	0.169	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1262	ND		0.217	0.0505	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1260	ND		0.217	0.0466	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10
PCB-1268	ND		0.217	0.0462	mg/Kg	☼	03/10/23 15:38	03/14/23 15:03	10

Client Sample ID: 2023-SS-03
Date Collected: 02/27/23 09:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-10
Matrix: Solid
Percent Solids: 83.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/10/23 15:38*	*03/14/23 15:03*	*10*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/10/23 15:38*	*03/14/23 15:03*	*10*
DCB Decachlorobiphenyl (Surr)	*137*		*30 - 150*	*03/10/23 15:38*	*03/14/23 15:03*	*10*
DCB Decachlorobiphenyl (Surr)	*136*		*30 - 150*	*03/10/23 15:38*	*03/14/23 15:03*	*10*

Method: MA DEP MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	ND		7.80	7.80	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
C19-C36 Aliphatics	ND		7.80	7.80	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
C11-C22 Aromatics	**20.0**		7.80	7.80	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
C11-C22 Aromatics (Adjusted)	**20.0**		7.80	7.80	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Naphthalene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
2-Methylnaphthalene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Acenaphthylene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Acenaphthene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Fluorene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Phenanthrene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Anthracene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Fluoranthene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Pyrene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Benzo[a]anthracene	ND	*1	0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Chrysene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Benzo[b]fluoranthene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Benzo[k]fluoranthene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Benzo[a]pyrene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Indeno[1,2,3-cd]pyrene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Dibenz(a,h)anthracene	ND	*1	0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1
Benzo[g,h,i]perylene	ND		0.390	0.390	mg/Kg	☼	03/06/23 08:26	03/10/23 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane (Surr)	*56*		*40 - 140*	*03/06/23 08:26*	*03/10/23 19:43*	*1*
o-Terphenyl (Surr)	*61*		*40 - 140*	*03/06/23 08:26*	*03/10/23 19:43*	*1*
2-Fluorobiphenyl (Surr)	*91*		*40 - 140*	*03/06/23 08:26*	*03/10/23 19:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.12	1.74	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Arsenic	**4.01**		3.07	1.43	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Barium	**44.6**		0.512	0.153	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Beryllium	**0.397**	**J**	0.512	0.102	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Cadmium	**1.40**		0.512	0.102	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Chromium	**7.25**		1.53	0.358	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Lead	**17.2**		1.53	0.614	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Nickel	**5.23**		1.02	0.266	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Selenium	ND		5.12	1.53	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Silver	ND	^3+	1.02	0.409	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Thallium	ND		3.07	1.33	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Vanadium	**16.0**		1.02	0.440	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1
Zinc	**54.7**		2.05	0.819	mg/Kg	☼	03/09/23 00:11	03/13/23 19:46	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-03 **Lab Sample ID: 620-10080-10**
Date Collected: 02/27/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 83.5**

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0419	J	0.0684	0.0228	mg/Kg	☼	03/08/23 00:50	03/09/23 09:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.5		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	83.5		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-02
Date Collected: 02/27/23 09:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-11
Matrix: Solid
Percent Solids: 92.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0536	0.0294	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Acetone	**0.191**	**J**	0.536	0.0675	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Acrylonitrile	ND		0.0536	0.0193	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Benzene	ND		0.0536	0.00857	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Bromobenzene	ND		0.0536	0.0121	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Bromochloromethane	ND		0.0536	0.00766	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Bromodichloromethane	ND		0.0536	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Bromoform	ND		0.0536	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Bromomethane	ND		0.107	0.0265	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
2-Butanone (MEK)	ND		0.107	0.0245	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
n-Butylbenzene	ND		0.0536	0.0214	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
sec-Butylbenzene	ND		0.0536	0.0164	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
tert-Butylbenzene	ND		0.0536	0.0219	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Carbon disulfide	ND		0.107	0.0198	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Carbon tetrachloride	ND		0.0536	0.0160	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Chlorobenzene	ND		0.0536	0.00648	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Chloroethane	ND		0.107	0.0239	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Chloroform	ND		0.0536	0.00632	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Chloromethane	ND		0.107	0.0637	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
2-Chlorotoluene	ND		0.0536	0.0133	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
4-Chlorotoluene	ND		0.0536	0.00969	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2-Dibromo-3-Chloropropane	ND		0.107	0.0212	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Dibromochloromethane	ND		0.0536	0.00846	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2-Dibromoethane (EDB)	ND		0.0536	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Dibromomethane	ND		0.0536	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2-Dichlorobenzene	ND		0.0536	0.00964	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,3-Dichlorobenzene	ND		0.0536	0.0133	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,4-Dichlorobenzene	ND		0.0536	0.00959	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Dichlorodifluoromethane (Freon 12)	ND		0.107	0.0702	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,1-Dichloroethane	ND		0.0536	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2-Dichloroethane	ND		0.0536	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,1-Dichloroethene	ND		0.0536	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
cis-1,2-Dichloroethene	ND		0.0536	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
trans-1,2-Dichloroethene	ND		0.0536	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2-Dichloropropane	ND		0.0536	0.0186	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,3-Dichloropropane	ND		0.0536	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
2,2-Dichloropropane	ND		0.0536	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,1-Dichloropropene	ND		0.0536	0.0164	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
cis-1,3-Dichloropropene	ND		0.0536	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
trans-1,3-Dichloropropene	ND		0.0536	0.0218	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Ethylbenzene	ND		0.0536	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Hexachlorobutadiene	ND		0.0536	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
2-Hexanone (MBK)	ND		0.107	0.0356	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Isopropylbenzene	ND		0.0536	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
4-Isopropyltoluene	ND		0.0536	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Methyl tert-butyl ether	ND		0.0536	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.107	0.0384	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Methylene Chloride	ND		0.107	0.0457	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Naphthalene	ND		0.0536	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1

Client Sample ID: 2023-SS-02 **Lab Sample ID: 620-10080-11**
Date Collected: 02/27/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0536	0.0133	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Styrene	ND		0.0536	0.00707	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,1,1,2-Tetrachloroethane	ND		0.0536	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,1,2,2-Tetrachloroethane	ND		0.0536	0.0170	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Tetrachloroethene	ND		0.0536	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Toluene	ND		0.0536	0.00862	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2,3-Trichlorobenzene	ND		0.0536	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2,4-Trichlorobenzene	ND		0.0536	0.00884	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,3,5-Trichlorobenzene	ND		0.0536	0.00846	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,1,1-Trichloroethane	ND		0.0536	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,1,2-Trichloroethane	ND		0.0536	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Trichloroethene	ND		0.0536	0.00916	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Trichlorofluoromethane (Freon 11)	ND		0.0536	0.0242	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2,3-Trichloropropane	ND		0.0536	0.0247	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,2,4-Trimethylbenzene	ND		0.0536	0.0136	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,3,5-Trimethylbenzene	ND		0.0536	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Vinyl chloride	ND		0.0536	0.0264	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
m,p-Xylene	ND		0.0536	0.0315	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
o-Xylene	ND		0.0536	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Tetrahydrofuran	ND		0.107	0.0392	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Ethyl ether	ND		0.0536	0.0145	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Tert-amyl methyl ether	ND		0.0536	0.0296	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Ethyl tert-butyl ether	ND		0.0536	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
di-Isopropyl ether	ND		0.0536	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
tert-Butanol	ND		1.07	0.761	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,4-Dioxane	ND		1.07	0.315	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
trans-1,4-Dichloro-2-butene	ND		0.268	0.0354	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Ethanol	ND		10.7	0.921	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
1,3-Dichloropropene, Total	ND		0.0536	0.0218	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1
Xylenes, Total	ND		0.161	0.161	mg/Kg	☼	03/07/23 12:57	03/07/23 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 22:25*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 22:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/07/23 12:57*	*03/07/23 22:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 22:25*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0213	0.0153	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1221	ND		0.0213	0.00628	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1232	ND		0.0213	0.00589	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1242	ND		0.0213	0.00336	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1248	ND		0.0213	0.00665	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1254	**0.563**		0.0213	0.0165	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1262	ND		0.0213	0.00496	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1260	ND		0.0213	0.00457	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1
PCB-1268	ND		0.0213	0.00453	mg/Kg	☼	03/10/23 15:38	03/14/23 05:31	1

Client Sample ID: 2023-SS-02
Date Collected: 02/27/23 09:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-11
Matrix: Solid
Percent Solids: 92.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		30 - 150	03/10/23 15:38	03/14/23 05:31	1
Tetrachloro-m-xylene	105		30 - 150	03/10/23 15:38	03/14/23 05:31	1
DCB Decachlorobiphenyl (Surr)	109		30 - 150	03/10/23 15:38	03/14/23 05:31	1
DCB Decachlorobiphenyl (Surr)	110		30 - 150	03/10/23 15:38	03/14/23 05:31	1

Method: MA DEP MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	ND		7.10	7.10	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
C19-C36 Aliphatics	ND		7.10	7.10	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
C11-C22 Aromatics	ND		7.10	7.10	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
C11-C22 Aromatics (Adjusted)	ND		7.10	7.10	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Naphthalene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
2-Methylnaphthalene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Acenaphthylene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Acenaphthene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Fluorene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Phenanthrene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Anthracene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Fluoranthene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Pyrene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Benzo[a]anthracene	ND	*1	0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Chrysene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Benzo[b]fluoranthene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Benzo[k]fluoranthene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Benzo[a]pyrene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Indeno[1,2,3-cd]pyrene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Dibenz(a,h)anthracene	ND	*1	0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1
Benzo[g,h,i]perylene	ND		0.354	0.354	mg/Kg	☼	03/06/23 08:26	03/10/23 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane (Surr)	62		40 - 140	03/06/23 08:26	03/10/23 20:14	1
o-Terphenyl (Surr)	67		40 - 140	03/06/23 08:26	03/10/23 20:14	1
2-Fluorobiphenyl (Surr)	102		40 - 140	03/06/23 08:26	03/10/23 20:14	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.06	1.72	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Arsenic	**2.54**	**J**	3.04	1.42	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Barium	**23.4**		0.506	0.152	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Beryllium	**0.199**	**J**	0.506	0.101	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Cadmium	ND		0.506	0.101	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Chromium	**4.18**		1.52	0.354	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Lead	**8.06**		1.52	0.607	mg/Kg	☼	03/08/23 20:04	03/10/23 13:24	1
Nickel	**2.45**		1.01	0.263	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Selenium	ND		5.06	1.52	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Silver	ND		1.01	0.405	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Thallium	**2.49**	**J**	3.04	1.32	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Vanadium	**6.79**		1.01	0.435	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1
Zinc	**17.0**		2.02	0.810	mg/Kg	☼	03/08/23 20:04	03/09/23 21:30	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-02 **Lab Sample ID: 620-10080-11**
Date Collected: 02/27/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.3**

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0650	0.0217	mg/Kg	☼	03/09/23 00:35	03/09/23 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.7		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	92.3		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SS-01
Date Collected: 02/27/23 09:35
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-12
Matrix: Solid
Percent Solids: 91.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0659	0.0361	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Acetone	ND		0.659	0.0831	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Acrylonitrile	ND		0.0659	0.0238	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Benzene	ND		0.0659	0.0105	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Bromobenzene	ND		0.0659	0.0149	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Bromochloromethane	ND		0.0659	0.00943	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Bromodichloromethane	ND		0.0659	0.0170	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Bromoform	ND		0.0659	0.0141	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Bromomethane	ND		0.132	0.0326	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
2-Butanone (MEK)	ND		0.132	0.0301	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
n-Butylbenzene	ND		0.0659	0.0264	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
sec-Butylbenzene	ND		0.0659	0.0202	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
tert-Butylbenzene	ND		0.0659	0.0269	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Carbon disulfide	ND		0.132	0.0244	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Carbon tetrachloride	ND		0.0659	0.0197	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Chlorobenzene	ND		0.0659	0.00798	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Chloroethane	ND		0.132	0.0294	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Chloroform	**0.00961**	**J**	0.0659	0.00778	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Chloromethane	ND		0.132	0.0784	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
2-Chlorotoluene	ND		0.0659	0.0163	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
4-Chlorotoluene	ND		0.0659	0.0119	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2-Dibromo-3-Chloropropane	ND		0.132	0.0260	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Dibromochloromethane	ND		0.0659	0.0104	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2-Dibromoethane (EDB)	ND		0.0659	0.0179	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Dibromomethane	ND		0.0659	0.0124	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2-Dichlorobenzene	ND		0.0659	0.0119	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,3-Dichlorobenzene	ND		0.0659	0.0164	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,4-Dichlorobenzene	ND		0.0659	0.0118	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Dichlorodifluoromethane (Freon 12)	ND		0.132	0.0864	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,1-Dichloroethane	ND		0.0659	0.0152	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2-Dichloroethane	ND		0.0659	0.0173	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,1-Dichloroethene	ND		0.0659	0.0169	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
cis-1,2-Dichloroethene	ND		0.0659	0.0220	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
trans-1,2-Dichloroethene	ND		0.0659	0.0150	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2-Dichloropropane	ND		0.0659	0.0229	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,3-Dichloropropane	ND		0.0659	0.0208	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
2,2-Dichloropropane	ND		0.0659	0.0173	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,1-Dichloropropene	ND		0.0659	0.0202	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
cis-1,3-Dichloropropene	ND		0.0659	0.0156	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
trans-1,3-Dichloropropene	ND		0.0659	0.0268	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Ethylbenzene	ND		0.0659	0.0138	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Hexachlorobutadiene	ND		0.0659	0.0211	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
2-Hexanone (MBK)	ND		0.132	0.0438	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Isopropylbenzene	ND		0.0659	0.0239	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
4-Isopropyltoluene	ND		0.0659	0.0183	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Methyl tert-butyl ether	ND		0.0659	0.0198	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
4-Methyl-2-pentanone (MIBK)	ND		0.132	0.0472	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Methylene Chloride	ND		0.132	0.0563	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Naphthalene	ND		0.0659	0.0191	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1

Client Sample ID: 2023-SS-01 **Lab Sample ID: 620-10080-12**
Date Collected: 02/27/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0659	0.0164	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Styrene	ND		0.0659	0.00870	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,1,1,2-Tetrachloroethane	ND		0.0659	0.0159	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,1,2,2-Tetrachloroethane	ND		0.0659	0.0209	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Tetrachloroethene	ND		0.0659	0.0208	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Toluene	ND		0.0659	0.0106	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2,3-Trichlorobenzene	ND		0.0659	0.0154	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2,4-Trichlorobenzene	ND		0.0659	0.0109	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,3,5-Trichlorobenzene	ND		0.0659	0.0104	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,1,1-Trichloroethane	ND		0.0659	0.0160	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,1,2-Trichloroethane	ND		0.0659	0.0204	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Trichloroethene	ND		0.0659	0.0113	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Trichlorofluoromethane (Freon 11)	ND		0.0659	0.0298	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2,3-Trichloropropane	ND		0.0659	0.0304	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,2,4-Trimethylbenzene	ND		0.0659	0.0167	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,3,5-Trimethylbenzene	ND		0.0659	0.0138	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Vinyl chloride	ND		0.0659	0.0324	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
m,p-Xylene	ND		0.0659	0.0388	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
o-Xylene	ND		0.0659	0.0203	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Tetrahydrofuran	ND		0.132	0.0482	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Ethyl ether	ND		0.0659	0.0179	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Tert-amyl methyl ether	ND		0.0659	0.0365	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Ethyl tert-butyl ether	ND		0.0659	0.0183	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
di-Isopropyl ether	ND		0.0659	0.0213	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
tert-Butanol	ND		1.32	0.936	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,4-Dioxane	ND		1.32	0.388	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
trans-1,4-Dichloro-2-butene	ND		0.330	0.0435	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Ethanol	ND		13.2	1.13	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
1,3-Dichloropropene, Total	ND		0.0659	0.0268	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1
Xylenes, Total	ND		0.198	0.198	mg/Kg	☼	03/13/23 15:31	03/13/23 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:29*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:29*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:29*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.109	0.0784	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1221	ND		0.109	0.0322	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1232	ND		0.109	0.0302	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1242	ND		0.109	0.0172	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1248	ND		0.109	0.0340	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1254	**1.61**		0.109	0.0847	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1262	ND		0.109	0.0254	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1260	ND		0.109	0.0234	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5
PCB-1268	ND		0.109	0.0232	mg/Kg	☼	03/09/23 15:17	03/13/23 15:50	5

Client Sample ID: 2023-SS-01 **Lab Sample ID: 620-10080-12**
Date Collected: 02/27/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.8**

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/09/23 15:17*	*03/13/23 15:50*	*5*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/09/23 15:17*	*03/13/23 15:50*	*5*
DCB Decachlorobiphenyl (Surr)	*139*		*30 - 150*	*03/09/23 15:17*	*03/13/23 15:50*	*5*
DCB Decachlorobiphenyl (Surr)	*131*		*30 - 150*	*03/09/23 15:17*	*03/13/23 15:50*	*5*

Method: MA DEP MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	ND		7.11	7.11	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
C19-C36 Aliphatics	ND		7.11	7.11	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
C11-C22 Aromatics	**10.1**		7.11	7.11	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
C11-C22 Aromatics (Adjusted)	**10.1**		7.11	7.11	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Naphthalene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
2-Methylnaphthalene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Acenaphthylene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Acenaphthene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Fluorene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Phenanthrene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Anthracene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Fluoranthene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Pyrene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Benzo[a]anthracene	ND	*1	0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Chrysene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Benzo[b]fluoranthene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Benzo[k]fluoranthene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Benzo[a]pyrene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Indeno[1,2,3-cd]pyrene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Dibenz(a,h)anthracene	ND	*1	0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1
Benzo[g,h,i]perylene	ND		0.355	0.355	mg/Kg	☼	03/06/23 08:27	03/10/23 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*54*		*40 - 140*	*03/06/23 08:27*	*03/10/23 20:44*	*1*
o-Terphenyl (Surr)	*55*		*40 - 140*	*03/06/23 08:27*	*03/10/23 20:44*	*1*
2-Fluorobiphenyl (Surr)	*108*		*40 - 140*	*03/06/23 08:27*	*03/10/23 20:44*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.39	1.83	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Arsenic	**3.03**	**J**	3.24	1.51	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Barium	**22.0**		0.539	0.162	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Beryllium	**0.331**	**J**	0.539	0.108	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Cadmium	ND		0.539	0.108	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Chromium	**4.31**		1.62	0.378	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Lead	**8.52**		1.62	0.647	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Nickel	**2.64**		1.08	0.280	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Selenium	ND		5.39	1.62	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Silver	ND	^3+	1.08	0.431	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Thallium	ND		3.24	1.40	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Vanadium	**8.16**		1.08	0.464	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1
Zinc	**21.9**		2.16	0.863	mg/Kg	☼	03/09/23 00:11	03/13/23 19:17	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-01 **Lab Sample ID: 620-10080-12**
Date Collected: 02/27/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.8**

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0623	0.0208	mg/Kg	☼	03/09/23 00:35	03/09/23 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.2		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	91.8		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-FD-02
Date Collected: 02/27/23 08:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-13
Matrix: Solid
Percent Solids: 93.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0553	0.0303	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Acetone	ND		0.553	0.0697	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Acrylonitrile	ND		0.0553	0.0200	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Benzene	ND		0.0553	0.00885	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Bromobenzene	ND		0.0553	0.0125	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Bromochloromethane	ND		0.0553	0.00791	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Bromodichloromethane	ND		0.0553	0.0143	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Bromoform	ND		0.0553	0.0118	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Bromomethane	ND		0.111	0.0273	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
2-Butanone (MEK)	ND		0.111	0.0253	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
n-Butylbenzene	ND		0.0553	0.0221	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
sec-Butylbenzene	ND		0.0553	0.0170	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
tert-Butylbenzene	ND		0.0553	0.0226	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Carbon disulfide	ND		0.111	0.0205	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Carbon tetrachloride	ND		0.0553	0.0165	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Chlorobenzene	ND		0.0553	0.00669	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Chloroethane	ND		0.111	0.0247	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Chloroform	ND		0.0553	0.00653	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Chloromethane	ND		0.111	0.0658	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
2-Chlorotoluene	ND		0.0553	0.0137	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
4-Chlorotoluene	ND		0.0553	0.0100	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2-Dibromo-3-Chloropropane	ND		0.111	0.0218	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Dibromochloromethane	ND		0.0553	0.00874	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2-Dibromoethane (EDB)	ND		0.0553	0.0150	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Dibromomethane	ND		0.0553	0.0104	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2-Dichlorobenzene	ND		0.0553	0.00995	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,3-Dichlorobenzene	ND		0.0553	0.0138	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,4-Dichlorobenzene	ND		0.0553	0.00990	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.111	0.0724	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,1-Dichloroethane	ND		0.0553	0.0128	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2-Dichloroethane	ND		0.0553	0.0145	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,1-Dichloroethene	ND		0.0553	0.0142	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
cis-1,2-Dichloroethene	ND		0.0553	0.0184	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
trans-1,2-Dichloroethene	ND		0.0553	0.0126	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2-Dichloropropane	ND		0.0553	0.0192	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,3-Dichloropropane	ND		0.0553	0.0175	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
2,2-Dichloropropane	ND		0.0553	0.0145	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,1-Dichloropropene	ND		0.0553	0.0169	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
cis-1,3-Dichloropropene	ND		0.0553	0.0131	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
trans-1,3-Dichloropropene	ND		0.0553	0.0225	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Ethylbenzene	ND		0.0553	0.0116	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Hexachlorobutadiene	ND		0.0553	0.0177	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
2-Hexanone (MBK)	ND		0.111	0.0368	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Isopropylbenzene	ND		0.0553	0.0201	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
4-Isopropyltoluene	ND		0.0553	0.0153	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Methyl tert-butyl ether	ND		0.0553	0.0166	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.111	0.0396	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Methylene Chloride	ND		0.111	0.0472	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Naphthalene	ND		0.0553	0.0160	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1

Client Sample ID: 2023-FD-02 **Lab Sample ID: 620-10080-13**
Date Collected: 02/27/23 08:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 93.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	**0.0463**	**J**	0.0553	0.0138	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Styrene	ND		0.0553	0.00730	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,1,1,2-Tetrachloroethane	ND		0.0553	0.0133	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,1,2,2-Tetrachloroethane	ND		0.0553	0.0175	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Tetrachloroethene	ND		0.0553	0.0174	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Toluene	ND		0.0553	0.00890	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2,3-Trichlorobenzene	ND		0.0553	0.0129	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2,4-Trichlorobenzene	ND		0.0553	0.00912	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,3,5-Trichlorobenzene	ND		0.0553	0.00874	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,1,1-Trichloroethane	ND		0.0553	0.0134	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,1,2-Trichloroethane	ND		0.0553	0.0171	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Trichloroethene	ND		0.0553	0.00946	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Trichlorofluoromethane (Freon 11)	ND		0.0553	0.0250	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2,3-Trichloropropane	ND		0.0553	0.0255	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,2,4-Trimethylbenzene	ND		0.0553	0.0140	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,3,5-Trimethylbenzene	ND		0.0553	0.0116	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Vinyl chloride	ND		0.0553	0.0272	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
m,p-Xylene	ND		0.0553	0.0325	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
o-Xylene	ND		0.0553	0.0170	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Tetrahydrofuran	ND		0.111	0.0404	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Ethyl ether	ND		0.0553	0.0150	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Tert-amyl methyl ether	ND		0.0553	0.0306	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Ethyl tert-butyl ether	ND		0.0553	0.0153	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
di-Isopropyl ether	ND		0.0553	0.0179	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
tert-Butanol	ND		1.11	0.785	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,4-Dioxane	ND		1.11	0.326	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
trans-1,4-Dichloro-2-butene	ND		0.277	0.0365	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Ethanol	ND		11.1	0.951	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
1,3-Dichloropropene, Total	ND		0.0553	0.0225	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1
Xylenes, Total	ND		0.166	0.166	mg/Kg	☼	03/13/23 15:31	03/13/23 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:55*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:55*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/13/23 15:31*	*03/13/23 20:55*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0206	0.0149	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1221	ND		0.0206	0.00609	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1232	ND		0.0206	0.00571	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1242	ND		0.0206	0.00326	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1248	ND		0.0206	0.00644	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1254	**0.657**		0.0206	0.0160	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1262	ND		0.0206	0.00481	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1260	ND		0.0206	0.00443	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1
PCB-1268	ND		0.0206	0.00439	mg/Kg	☼	03/09/23 15:17	03/11/23 09:09	1

Client Sample ID: 2023-FD-02
Date Collected: 02/27/23 08:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-13
Matrix: Solid
Percent Solids: 93.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		30 - 150	03/09/23 15:17	03/11/23 09:09	1
Tetrachloro-m-xylene	86		30 - 150	03/09/23 15:17	03/11/23 09:09	1
DCB Decachlorobiphenyl (Surr)	96		30 - 150	03/09/23 15:17	03/11/23 09:09	1
DCB Decachlorobiphenyl (Surr)	101		30 - 150	03/09/23 15:17	03/11/23 09:09	1

Method: MA DEP MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	ND		6.78	6.78	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
C19-C36 Aliphatics	**9.34**		6.78	6.78	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
C11-C22 Aromatics	**23.9**		6.78	6.78	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
C11-C22 Aromatics (Adjusted)	**23.9**		6.78	6.78	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Naphthalene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
2-Methylnaphthalene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Acenaphthylene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Acenaphthene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Fluorene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Phenanthrene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Anthracene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Fluoranthene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Pyrene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Benzo[a]anthracene	ND	*1	0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Chrysene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Benzo[b]fluoranthene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Benzo[k]fluoranthene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Benzo[a]pyrene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Indeno[1,2,3-cd]pyrene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Dibenz(a,h)anthracene	ND	*1	0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1
Benzo[g,h,i]perylene	ND		0.339	0.339	mg/Kg	☼	03/06/23 08:27	03/10/23 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane (Surr)	66		40 - 140	03/06/23 08:27	03/10/23 21:14	1
o-Terphenyl (Surr)	82		40 - 140	03/06/23 08:27	03/10/23 21:14	1
2-Fluorobiphenyl (Surr)	91		40 - 140	03/06/23 08:27	03/10/23 21:14	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.11	1.40	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Arsenic	**3.05**		2.47	1.15	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Barium	**25.0**		0.411	0.123	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Beryllium	**0.298**	**J**	0.411	0.0823	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Cadmium	ND		0.411	0.0823	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Chromium	**5.26**		1.23	0.288	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Lead	**8.09**		1.23	0.494	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Nickel	**2.76**		0.823	0.214	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Selenium	ND		4.11	1.23	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Silver	ND	^3+	0.823	0.329	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Thallium	ND		2.47	1.07	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Vanadium	**8.09**		0.823	0.354	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1
Zinc	**23.4**		1.65	0.658	mg/Kg	☼	03/09/23 00:11	03/13/23 19:52	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-02 **Lab Sample ID: 620-10080-13**
Date Collected: 02/27/23 08:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 93.5**

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0412	J	0.0642	0.0214	mg/Kg	☼	03/09/23 00:35	03/09/23 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.5		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	93.5		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0002'
Date Collected: 03/02/23 09:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-14
Matrix: Solid
Percent Solids: 90.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00552	0.00360	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Acetone	ND		0.0552	0.0124	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Acrylonitrile	ND		0.00552	0.00331	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Benzene	ND		0.00552	0.00369	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Bromobenzene	ND		0.00552	0.00368	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Bromochloromethane	ND		0.00552	0.00314	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Bromodichloromethane	ND		0.00552	0.00405	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Bromoform	ND		0.00552	0.00422	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Bromomethane	ND		0.0110	0.00688	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
2-Butanone (MEK)	ND		0.0110	0.00440	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
n-Butylbenzene	ND		0.0110	0.00592	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
sec-Butylbenzene	ND		0.00552	0.00445	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
tert-Butylbenzene	ND		0.00552	0.00435	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Carbon disulfide	ND		0.0110	0.00388	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Carbon tetrachloride	ND		0.00552	0.00348	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Chlorobenzene	ND		0.00552	0.00404	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Chloroethane	ND		0.0110	0.00405	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Chloroform	ND		0.00552	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Chloromethane	ND		0.0110	0.00424	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
2-Chlorotoluene	ND		0.00552	0.00440	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
4-Chlorotoluene	ND		0.00552	0.00479	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2-Dibromo-3-Chloropropane	ND		0.0110	0.00468	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Dibromochloromethane	ND		0.00552	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2-Dibromoethane (EDB)	ND		0.00552	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Dibromomethane	ND		0.00552	0.00325	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2-Dichlorobenzene	ND		0.00552	0.00512	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,3-Dichlorobenzene	ND		0.00552	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,4-Dichlorobenzene	ND		0.00552	0.00523	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.0110	0.00296	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,1-Dichloroethane	ND		0.00552	0.00374	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2-Dichloroethane	ND		0.00552	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,1-Dichloroethene	ND		0.00552	0.00338	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
cis-1,2-Dichloroethene	ND		0.00552	0.00319	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
trans-1,2-Dichloroethene	ND		0.00552	0.00343	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2-Dichloropropane	ND		0.00552	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,3-Dichloropropane	ND		0.00552	0.00422	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
2,2-Dichloropropane	ND		0.00552	0.00381	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,1-Dichloropropene	ND		0.00552	0.00376	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
cis-1,3-Dichloropropene	ND		0.00552	0.00360	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
trans-1,3-Dichloropropene	ND		0.00552	0.00420	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Ethylbenzene	ND		0.00552	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Hexachlorobutadiene	ND		0.0110	0.00556	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
2-Hexanone (MBK)	ND		0.0110	0.00325	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Isopropylbenzene	ND		0.00552	0.00417	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
4-Isopropyltoluene	ND		0.00552	0.00542	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Methyl tert-butyl ether	ND		0.00552	0.00318	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00357	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Methylene Chloride	ND		0.0110	0.00296	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Naphthalene	ND		0.00552	0.00499	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1

Client Sample ID: 2023-SB-04-0002' **Lab Sample ID: 620-10080-14**
Date Collected: 03/02/23 09:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 90.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00552	0.00467	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Styrene	ND		0.00552	0.00427	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,1,1,2-Tetrachloroethane	ND		0.00552	0.00414	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,1,2,2-Tetrachloroethane	ND		0.00552	0.00506	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Tetrachloroethene	ND		0.00552	0.00307	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Toluene	ND		0.00552	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2,3-Trichlorobenzene	ND		0.00552	0.00466	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2,4-Trichlorobenzene	ND		0.00552	0.00509	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,3,5-Trichlorobenzene	ND		0.00552	0.00525	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,1,1-Trichloroethane	ND		0.00552	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,1,2-Trichloroethane	ND		0.00552	0.00416	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Trichloroethene	ND		0.00552	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00552	0.00422	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2,3-Trichloropropane	ND		0.00552	0.00490	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,2,4-Trimethylbenzene	ND		0.00552	0.00467	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,3,5-Trimethylbenzene	ND		0.00552	0.00469	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Vinyl chloride	ND		0.00552	0.00337	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
m,p-Xylene	ND		0.00552	0.00754	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
o-Xylene	ND		0.00552	0.00403	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Tetrahydrofuran	ND		0.0110	0.00279	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Ethyl ether	ND		0.00552	0.00290	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Tert-amyl methyl ether	ND		0.00552	0.00436	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Ethyl tert-butyl ether	ND		0.00552	0.00363	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
di-Isopropyl ether	ND		0.00552	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
tert-Butanol	ND		0.110	0.0296	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,4-Dioxane	ND		0.110	0.0343	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
trans-1,4-Dichloro-2-butene	ND		0.0276	0.00408	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Ethanol	ND		1.10	0.0685	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
1,3-Dichloropropene, Total	ND		0.00552	0.00420	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1
Xylenes, Total	ND		0.0166	0.00552	mg/Kg	☼	03/06/23 09:50	03/06/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:18*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:18*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:18*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.721	0.128	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
1,2,4-Trichlorobenzene	ND		0.721	0.165	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
1,2-Dichlorobenzene	ND		0.721	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
1,3-Dichlorobenzene	ND		0.721	0.175	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
1,4-Dichlorobenzene	ND		0.721	0.170	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
1-Methylnaphthalene	ND		0.146	0.122	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2,4,5-Trichlorophenol	ND		0.721	0.0826	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2,4,6-Trichlorophenol	ND		0.365	0.0892	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2,4-Dichlorophenol	ND		0.365	0.145	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2,4-Dimethylphenol	ND		0.721	0.106	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2,4-Dinitrophenol	ND		0.721	0.190	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0002'
Date Collected: 03/02/23 09:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-14
Matrix: Solid
Percent Solids: 90.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.365	0.0855	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2,6-Dinitrotoluene	ND		0.365	0.0855	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2-Chloronaphthalene	ND		0.721	0.167	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2-Chlorophenol	ND		0.365	0.149	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2-Methylnaphthalene	ND		0.146	0.108	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2-Methylphenol	ND		0.721	0.105	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2-Nitroaniline	ND		0.721	0.0686	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
2-Nitrophenol	ND		0.365	0.130	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
3 & 4 Methylphenol	ND		0.721	0.137	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
3,3'-Dichlorobenzidine	ND		0.721	0.119	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
3-Nitroaniline	ND		0.721	0.0645	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
4,6-Dinitro-2-methylphenol	ND		0.721	0.130	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
4-Bromophenyl phenyl ether	ND		0.721	0.0815	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
4-Chloro-3-methylphenol	ND		0.721	0.141	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
4-Chloroaniline	ND		0.365	0.0553	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
4-Chlorophenyl phenyl ether	ND		0.721	0.0772	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
4-Nitroaniline	ND		0.365	0.115	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
4-Nitrophenol	ND		0.721	0.251	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Acenaphthene	ND		0.146	0.116	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Acenaphthylene	ND		0.146	0.0957	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Acetophenone	ND		0.365	0.0890	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Aniline	ND		0.721	0.0553	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Anthracene	ND		0.146	0.0844	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Azobenzene/Diphenyldiazene	ND		0.721	0.123	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzidine	ND		1.44	0.214	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzo[a]anthracene	ND		0.146	0.0820	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzo[a]pyrene	ND		0.146	0.104	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzo[b]fluoranthene	ND		0.146	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzo[g,h,i]perylene	ND		0.146	0.114	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzo[k]fluoranthene	ND		0.146	0.113	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzoic acid	ND		0.721	0.496	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Benzyl alcohol	ND		0.721	0.131	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Bis(2-chloroethoxy)methane	ND		0.721	0.125	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Bis(2-chloroethyl)ether	ND		0.365	0.119	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
bis (2-chloroisopropyl) ether	ND		0.365	0.162	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Bis(2-ethylhexyl) phthalate	ND		0.365	0.0929	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Butyl benzyl phthalate	ND		0.721	0.0724	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Carbazole	ND		0.365	0.0955	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Chrysene	ND		0.146	0.0824	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Dibenz(a,h)anthracene	ND		0.146	0.111	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Dibenzofuran	ND		0.365	0.126	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Diethyl phthalate	ND		0.721	0.0791	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Dimethyl phthalate	ND		0.721	0.0940	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Di-n-butyl phthalate	ND		0.721	0.0772	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Di-n-octyl phthalate	ND		0.721	0.119	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Fluoranthene	ND		0.146	0.0855	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Fluorene	ND		0.146	0.133	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Hexachlorobenzene	ND		0.365	0.101	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Hexachlorobutadiene	ND		0.365	0.182	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1

Client Sample ID: 2023-SB-04-0002' **Lab Sample ID: 620-10080-14**
Date Collected: 03/02/23 09:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 90.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.365	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Hexachloroethane	ND		0.365	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Indeno[1,2,3-cd]pyrene	ND		0.146	0.124	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Isophorone	ND		0.365	0.0999	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Naphthalene	ND		0.146	0.140	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Nitrobenzene	ND		0.365	0.169	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
N-Nitrosodimethylamine	ND		0.365	0.0957	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
N-Nitrosodi-n-propylamine	ND		0.365	0.145	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
N-Nitrosodiphenylamine	ND		0.721	0.0920	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Pentachloronitrobenzene	ND		0.721	0.114	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Pentachlorophenol	ND		0.721	0.295	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Phenanthrene	ND		0.146	0.0826	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Phenol	ND		0.721	0.149	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Pyrene	ND		0.146	0.0804	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1
Pyridine	ND		0.721	0.171	mg/Kg	☼	03/10/23 11:19	03/14/23 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/10/23 11:19*	*03/14/23 01:14*	*1*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/10/23 11:19*	*03/14/23 01:14*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/10/23 11:19*	*03/14/23 01:14*	*1*
Phenol-d5 (Surr)	*76*		*15 - 110*	*03/10/23 11:19*	*03/14/23 01:14*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*	*03/10/23 11:19*	*03/14/23 01:14*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/10/23 11:19*	*03/14/23 01:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.250	0.128	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.250	0.107	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
Naphthalene	ND		0.0500	0.0340	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
o-Xylene	ND		0.0500	0.0100	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
Toluene	ND		0.0500	0.0100	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg	☼	03/06/23 10:00	03/06/23 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/06/23 10:00*	*03/06/23 17:55*	*1*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/06/23 10:00*	*03/06/23 17:55*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0219	0.0158	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1
PCB-1221	ND		0.0219	0.00647	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1
PCB-1232	ND		0.0219	0.00606	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1

Client Sample ID: 2023-SB-04-0002' **Lab Sample ID: 620-10080-14**
Date Collected: 03/02/23 09:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 90.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0219	0.00346	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1
PCB-1248	ND		0.0219	0.00684	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1
PCB-1254	**0.0620**		0.0219	0.0170	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1
PCB-1262	ND		0.0219	0.00510	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1
PCB-1260	ND		0.0219	0.00471	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1
PCB-1268	ND		0.0219	0.00466	mg/Kg	☼	03/09/23 15:17	03/11/23 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:28*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:28*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:28*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:28*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluoroheptanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorooctanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorononanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorodecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorotridecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorotetradecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorobutanesulfonic acid	ND		2.16	0.431	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorohexanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorooctanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
NEtFOSAA	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
NMeFOSAA	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
10:2 FTS	ND		2.16	0.647	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluoropentanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluoroheptanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorononanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorodecanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorooctanesulfonamide	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorohexadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorooctadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorobutanoic acid	ND		2.16	0.863	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluoropentanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
NMeFOSE	ND		2.16	0.539	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
NMeFOSA	ND		2.16	0.539	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
NEtFOSE	ND		2.16	0.539	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
NEtFOSA	ND		2.16	0.539	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
HFPODA	ND		2.16	1.08	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
DONA	ND		3.23	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
9Cl-PF3ONS	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
11Cl-PF3OUdS	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluorododecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
4:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
Perfluoroundecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1

Client Sample ID: 2023-SB-04-0002' **Lab Sample ID: 620-10080-14**
Date Collected: 03/02/23 09:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 90.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.647	ug/Kg	☼	03/20/23 00:33	03/21/23 06:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*128*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
M2-8:2 FTS	*151*		*15 - 200*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
M2-6:2 FTS	*145*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C5 PFHxA	*141*		*10 - 174*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C4 PFHpA	*149*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C8 PFOA	*145*		*26 - 159*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C9 PFNA	*129*		*26 - 165*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C6 PFDA	*137*		*26 - 161*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C7 PFUnA	*146*		*12 - 173*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C2-PFDoDA	*141*		*11 - 166*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C2 PFTeDA	*144*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C3 PFBS	*142*		*27 - 179*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C3 PFHxS	*159*		*24 - 171*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C8 PFOS	*145*		*41 - 154*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
d3-NMeFOSAA	*39*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
d5-NEtFOSAA	*40*		*10 - 193*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C8 FOSA	*139*		*14 - 163*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C4 PFBA	*134*		*28 - 153*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C5 PFPeA	*127*		*24 - 161*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
d7-N-MeFOSE-M	*125*		*10 - 179*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
d3-NMePFOSA	*120*		*10 - 175*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
d9-N-EtFOSE-M	*130*		*10 - 185*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
d5-NEtPFOSA	*128*		*10 - 180*	*03/20/23 00:33*	*03/21/23 06:10*	*1*
13C3 HFPO-DA	*148*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:10*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.91	1.67	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Arsenic	**5.13**		2.95	1.38	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Barium	**16.8**		0.491	0.147	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Beryllium	**0.274**	**J**	0.491	0.0983	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Cadmium	ND		0.491	0.0983	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Chromium	**4.19**		1.47	0.344	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Lead	**2.84**		1.47	0.590	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Nickel	**2.04**		0.983	0.256	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Selenium	ND		4.91	1.47	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Silver	ND	^3+	0.983	0.393	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Thallium	ND		2.95	1.28	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Vanadium	**6.97**		0.983	0.423	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1
Zinc	**8.56**		1.97	0.786	mg/Kg	☼	03/08/23 13:50	03/09/23 14:28	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0655	0.0218	mg/Kg	☼	03/08/23 13:59	03/09/23 08:39	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0002'
Date Collected: 03/02/23 09:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-14
Matrix: Solid
Percent Solids: 90.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	90.0		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-04-0204'
Lab Sample ID: 620-10080-15
Date Collected: 03/02/23 09:15
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 92.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00461	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Acetone	ND		0.0461	0.0103	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Acrylonitrile	ND		0.00461	0.00277	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Benzene	ND		0.00461	0.00308	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Bromobenzene	ND		0.00461	0.00307	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Bromochloromethane	ND		0.00461	0.00262	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Bromodichloromethane	ND		0.00461	0.00339	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Bromoform	ND		0.00461	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Bromomethane	ND		0.00923	0.00575	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
2-Butanone (MEK)	ND		0.00923	0.00367	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
n-Butylbenzene	ND		0.00923	0.00495	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
sec-Butylbenzene	ND		0.00461	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
tert-Butylbenzene	ND		0.00461	0.00364	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Carbon disulfide	ND		0.00923	0.00324	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Carbon tetrachloride	ND		0.00461	0.00291	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Chlorobenzene	ND		0.00461	0.00338	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Chloroethane	ND		0.00923	0.00339	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Chloroform	ND		0.00461	0.00310	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Chloromethane	ND		0.00923	0.00354	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
2-Chlorotoluene	ND		0.00461	0.00367	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
4-Chlorotoluene	ND		0.00461	0.00401	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2-Dibromo-3-Chloropropane	ND		0.00923	0.00391	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Dibromochloromethane	ND		0.00461	0.00305	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2-Dibromoethane (EDB)	ND		0.00461	0.00331	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Dibromomethane	ND		0.00461	0.00271	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2-Dichlorobenzene	ND		0.00461	0.00428	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,3-Dichlorobenzene	ND		0.00461	0.00370	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,4-Dichlorobenzene	ND		0.00461	0.00437	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Dichlorodifluoromethane (Freon 12)	ND		0.00923	0.00247	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,1-Dichloroethane	ND		0.00461	0.00313	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2-Dichloroethane	ND		0.00461	0.00311	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,1-Dichloroethene	ND		0.00461	0.00282	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
cis-1,2-Dichloroethene	ND		0.00461	0.00267	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
trans-1,2-Dichloroethene	ND		0.00461	0.00287	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2-Dichloropropane	ND		0.00461	0.00305	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,3-Dichloropropane	ND		0.00461	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
2,2-Dichloropropane	ND		0.00461	0.00318	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,1-Dichloropropene	ND		0.00461	0.00314	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
cis-1,3-Dichloropropene	ND		0.00461	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
trans-1,3-Dichloropropene	ND		0.00461	0.00351	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Ethylbenzene	ND		0.00461	0.00329	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Hexachlorobutadiene	ND		0.00923	0.00464	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
2-Hexanone (MBK)	ND		0.00923	0.00271	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Isopropylbenzene	ND		0.00461	0.00349	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
4-Isopropyltoluene	ND		0.00461	0.00453	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Methyl tert-butyl ether	ND		0.00461	0.00266	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.00923	0.00298	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Methylene Chloride	ND		0.00923	0.00247	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Naphthalene	ND		0.00461	0.00417	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1

Client Sample ID: 2023-SB-04-0204' **Lab Sample ID: 620-10080-15**
Date Collected: 03/02/23 09:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00461	0.00390	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Styrene	ND		0.00461	0.00357	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,1,1,2-Tetrachloroethane	ND		0.00461	0.00346	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,1,2,2-Tetrachloroethane	ND		0.00461	0.00423	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Tetrachloroethene	ND		0.00461	0.00257	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Toluene	ND		0.00461	0.00293	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2,3-Trichlorobenzene	ND		0.00461	0.00389	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2,4-Trichlorobenzene	ND		0.00461	0.00425	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,3,5-Trichlorobenzene	ND		0.00461	0.00438	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,1,1-Trichloroethane	ND		0.00461	0.00315	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,1,2-Trichloroethane	ND		0.00461	0.00348	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Trichloroethene	ND		0.00461	0.00310	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Trichlorofluoromethane (Freon 11)	ND		0.00461	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2,3-Trichloropropane	ND		0.00461	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,2,4-Trimethylbenzene	ND		0.00461	0.00390	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,3,5-Trimethylbenzene	ND		0.00461	0.00392	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Vinyl chloride	ND		0.00461	0.00281	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
m,p-Xylene	ND		0.00461	0.00630	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
o-Xylene	ND		0.00461	0.00337	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Tetrahydrofuran	ND		0.00923	0.00233	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Ethyl ether	ND		0.00461	0.00243	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Tert-amyl methyl ether	ND		0.00461	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Ethyl tert-butyl ether	ND		0.00461	0.00304	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
di-Isopropyl ether	ND		0.00461	0.00329	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
tert-Butanol	ND		0.0923	0.0247	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,4-Dioxane	ND		0.0923	0.0287	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
trans-1,4-Dichloro-2-butene	ND		0.0231	0.00341	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Ethanol	ND		0.923	0.0572	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
1,3-Dichloropropene, Total	ND		0.00461	0.00351	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1
Xylenes, Total	ND		0.0138	0.00461	mg/Kg	☼	03/06/23 09:50	03/06/23 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:43*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 20:43*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.348	0.0618	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
1,2,4-Trichlorobenzene	ND		0.348	0.0796	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
1,2-Dichlorobenzene	ND		0.348	0.0670	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
1,3-Dichlorobenzene	ND		0.348	0.0842	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
1,4-Dichlorobenzene	ND		0.348	0.0819	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
1-Methylnaphthalene	ND		0.0703	0.0590	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2,4,5-Trichlorophenol	ND		0.348	0.0398	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2,4,6-Trichlorophenol	ND		0.176	0.0430	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2,4-Dichlorophenol	ND		0.176	0.0701	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2,4-Dimethylphenol	ND		0.348	0.0510	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2,4-Dinitrophenol	ND		0.348	0.0914	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0204'
Date Collected: 03/02/23 09:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-15
Matrix: Solid
Percent Solids: 92.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.176	0.0412	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2,6-Dinitrotoluene	ND		0.176	0.0412	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2-Chloronaphthalene	ND		0.348	0.0804	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2-Chlorophenol	ND		0.176	0.0720	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2-Methylnaphthalene	ND		0.0703	0.0519	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2-Methylphenol	ND		0.348	0.0508	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2-Nitroaniline	ND		0.348	0.0331	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
2-Nitrophenol	ND		0.176	0.0625	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
3 & 4 Methylphenol	ND		0.348	0.0658	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
3,3'-Dichlorobenzidine	ND		0.348	0.0574	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
3-Nitroaniline	ND		0.348	0.0311	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
4,6-Dinitro-2-methylphenol	ND		0.348	0.0625	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
4-Bromophenyl phenyl ether	ND		0.348	0.0393	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
4-Chloro-3-methylphenol	ND		0.348	0.0681	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
4-Chloroaniline	ND		0.176	0.0267	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
4-Chlorophenyl phenyl ether	ND		0.348	0.0372	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
4-Nitroaniline	ND		0.176	0.0555	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
4-Nitrophenol	ND		0.348	0.121	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Acenaphthene	ND		0.0703	0.0560	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Acenaphthylene	ND		0.0703	0.0461	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Acetophenone	ND		0.176	0.0429	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Aniline	ND		0.348	0.0267	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Anthracene	ND		0.0703	0.0407	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Azobenzene/Diphenyldiazene	ND		0.348	0.0593	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzidine	ND		0.695	0.103	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzo[a]anthracene	ND		0.0703	0.0395	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzo[a]pyrene	ND		0.0703	0.0503	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzo[b]fluoranthene	ND		0.0703	0.0583	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzo[g,h,i]perylene	ND		0.0703	0.0549	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzo[k]fluoranthene	ND		0.0703	0.0547	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzoic acid	ND		0.348	0.239	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Benzyl alcohol	ND		0.348	0.0630	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Bis(2-chloroethoxy)methane	ND		0.348	0.0605	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Bis(2-chloroethyl)ether	ND		0.176	0.0575	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
bis (2-chloroisopropyl) ether	ND		0.176	0.0783	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Bis(2-ethylhexyl) phthalate	ND		0.176	0.0448	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Butyl benzyl phthalate	ND		0.348	0.0349	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Carbazole	ND		0.176	0.0460	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Chrysene	ND		0.0703	0.0397	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Dibenz(a,h)anthracene	ND		0.0703	0.0536	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Dibenzofuran	ND		0.176	0.0609	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Diethyl phthalate	ND		0.348	0.0381	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Dimethyl phthalate	ND		0.348	0.0453	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Di-n-butyl phthalate	ND		0.348	0.0372	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Di-n-octyl phthalate	ND		0.348	0.0574	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Fluoranthene	ND		0.0703	0.0412	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Fluorene	ND		0.0703	0.0642	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Hexachlorobenzene	ND		0.176	0.0488	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Hexachlorobutadiene	ND		0.176	0.0878	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1

Client Sample ID: 2023-SB-04-0204' **Lab Sample ID: 620-10080-15**
Date Collected: 03/02/23 09:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.176	0.0672	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Hexachloroethane	ND		0.176	0.0691	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0703	0.0596	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Isophorone	ND		0.176	0.0481	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Naphthalene	ND		0.0703	0.0674	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Nitrobenzene	ND		0.176	0.0812	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
N-Nitrosodimethylamine	ND		0.176	0.0461	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
N-Nitrosodi-n-propylamine	ND		0.176	0.0701	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
N-Nitrosodiphenylamine	ND		0.348	0.0444	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Pentachloronitrobenzene	ND		0.348	0.0549	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Pentachlorophenol	ND		0.348	0.142	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Phenanthrene	ND		0.0703	0.0398	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Phenol	ND		0.348	0.0716	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Pyrene	ND		0.0703	0.0388	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1
Pyridine	ND		0.348	0.0823	mg/Kg	☼	03/10/23 11:19	03/10/23 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:29*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:29*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:29*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:29*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:29*	*1*
Terphenyl-d14	*79*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.248	0.127	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.248	0.106	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0497	0.00993	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
Ethylbenzene	ND		0.0497	0.00993	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
Methyl tert-butyl ether	ND		0.0497	0.00993	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
m,p-Xylene	ND		0.0993	0.00993	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
Naphthalene	ND		0.0497	0.0338	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
o-Xylene	ND		0.0497	0.00993	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
Toluene	ND		0.0497	0.00993	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.248	0.127	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
C9-C10 Aromatics	ND		0.248	0.0348	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.248	0.106	mg/Kg	☼	03/06/23 10:00	03/06/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/06/23 10:00*	*03/06/23 18:34*	*1*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/06/23 10:00*	*03/06/23 18:34*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0213	0.0154	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1
PCB-1221	ND		0.0213	0.00631	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1
PCB-1232	ND		0.0213	0.00591	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1

Client Sample ID: 2023-SB-04-0204' **Lab Sample ID: 620-10080-15**
Date Collected: 03/02/23 09:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0213	0.00337	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1
PCB-1248	ND		0.0213	0.00667	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1
PCB-1254	ND		0.0213	0.0166	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1
PCB-1262	ND		0.0213	0.00497	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1
PCB-1260	ND		0.0213	0.00459	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1
PCB-1268	ND		0.0213	0.00455	mg/Kg	☼	03/09/23 15:17	03/11/23 09:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:46*	*1*
Tetrachloro-m-xylene	*115*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:46*	*1*
DCB Decachlorobiphenyl (Surr)	*136*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:46*	*1*
DCB Decachlorobiphenyl (Surr)	*143*		*30 - 150*	*03/09/23 15:17*	*03/11/23 09:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluoroheptanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorooctanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorononanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorodecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorotridecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorotetradecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorobutanesulfonic acid	ND		2.13	0.426	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorohexanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorooctanesulfonic acid	**0.368**	**J**	0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
NEtFOSAA	ND		2.13	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
NMeFOSAA	ND		2.13	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
10:2 FTS	ND		2.13	0.639	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluoropentanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluoroheptanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorononanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorodecanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.13	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorooctanesulfonamide	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorohexadecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorooctadecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorobutanoic acid	ND		2.13	0.852	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluoropentanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
NMeFOSE	ND		2.13	0.532	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
NMeFOSA	ND		2.13	0.532	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
NEtFOSE	ND		2.13	0.532	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
NEtFOSA	ND		2.13	0.532	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
HFPODA	ND		2.13	1.06	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
DONA	ND		3.19	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
9Cl-PF3ONS	ND		2.13	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
11Cl-PF3OUdS	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluorododecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
4:2 Fluorotelomer sulfonic acid	ND		2.13	0.639	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
Perfluoroundecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1

Client Sample ID: 2023-SB-04-0204' **Lab Sample ID: 620-10080-15**
Date Collected: 03/02/23 09:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.13	0.639	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1
8:2 Fluorotelomer sulfonic acid	ND		3.19	0.639	ug/Kg	☼	03/07/23 22:57	03/16/23 05:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*97*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C5 PFHxA	*114*		*10 - 174*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C4 PFHpA	*119*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C8 PFOA	*121*		*26 - 159*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C9 PFNA	*108*		*26 - 165*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C6 PFDA	*114*		*26 - 161*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C2-PFDoDA	*118*		*11 - 166*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C2 PFTeDA	*120*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C3 PFBS	*113*		*27 - 179*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
d3-NMeFOSAA	*109*		*10 - 178*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
d5-NEtFOSAA	*98*		*10 - 193*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C8 FOSA	*117*		*14 - 163*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C4 PFBA	*118*		*28 - 153*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C5 PFPeA	*114*		*24 - 161*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
d7-N-MeFOSE-M	*109*		*10 - 179*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
d3-NMePFOSA	*92*		*10 - 175*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
d9-N-EtFOSE-M	*109*		*10 - 185*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/07/23 22:57*	*03/16/23 05:49*	*1*
13C3 HFPO-DA	*111*		*10 - 169*	*03/07/23 22:57*	*03/16/23 05:49*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.88	1.32	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Arsenic	**2.54**		2.33	1.09	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Barium	**12.8**		0.388	0.116	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Beryllium	**0.152**	**J**	0.388	0.0776	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Cadmium	ND		0.388	0.0776	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Chromium	**2.60**		1.16	0.271	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Lead	**1.68**		1.16	0.465	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Nickel	**1.19**		0.776	0.202	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Selenium	ND		3.88	1.16	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Silver	ND	^3+	0.776	0.310	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Thallium	ND		2.33	1.01	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Vanadium	**4.06**		0.776	0.333	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1
Zinc	**7.80**		1.55	0.620	mg/Kg	☼	03/08/23 13:50	03/09/23 14:18	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0641	0.0214	mg/Kg	☼	03/08/23 13:59	03/09/23 08:37	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0204'
Date Collected: 03/02/23 09:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-15
Matrix: Solid
Percent Solids: 92.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	92.1		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0406'
Date Collected: 03/02/23 09:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-16
Matrix: Solid
Percent Solids: 77.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00525	0.00342	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Acetone	ND		0.0525	0.0118	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Acrylonitrile	ND		0.00525	0.00315	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Benzene	ND		0.00525	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Bromobenzene	ND		0.00525	0.00349	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Bromochloromethane	ND		0.00525	0.00298	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Bromodichloromethane	ND		0.00525	0.00385	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Bromoform	ND		0.00525	0.00401	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Bromomethane	ND		0.0105	0.00654	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
2-Butanone (MEK)	ND		0.0105	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
n-Butylbenzene	ND		0.0105	0.00562	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
sec-Butylbenzene	ND		0.00525	0.00423	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
tert-Butylbenzene	ND		0.00525	0.00413	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Carbon disulfide	ND		0.0105	0.00368	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Carbon tetrachloride	ND		0.00525	0.00331	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Chlorobenzene	ND		0.00525	0.00384	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Chloroethane	ND		0.0105	0.00385	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Chloroform	ND		0.00525	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Chloromethane	ND		0.0105	0.00403	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
2-Chlorotoluene	ND		0.00525	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
4-Chlorotoluene	ND		0.00525	0.00455	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00445	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Dibromochloromethane	ND		0.00525	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2-Dibromoethane (EDB)	ND		0.00525	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Dibromomethane	ND		0.00525	0.00308	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2-Dichlorobenzene	ND		0.00525	0.00487	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,3-Dichlorobenzene	ND		0.00525	0.00421	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,4-Dichlorobenzene	ND		0.00525	0.00497	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00281	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,1-Dichloroethane	ND		0.00525	0.00356	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2-Dichloroethane	ND		0.00525	0.00354	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,1-Dichloroethene	ND		0.00525	0.00321	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
cis-1,2-Dichloroethene	ND		0.00525	0.00303	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
trans-1,2-Dichloroethene	ND		0.00525	0.00326	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2-Dichloropropane	ND		0.00525	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,3-Dichloropropane	ND		0.00525	0.00401	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
2,2-Dichloropropane	ND		0.00525	0.00362	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,1-Dichloropropene	ND		0.00525	0.00357	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
cis-1,3-Dichloropropene	ND		0.00525	0.00342	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
trans-1,3-Dichloropropene	ND		0.00525	0.00399	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Ethylbenzene	ND		0.00525	0.00375	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Hexachlorobutadiene	ND		0.0105	0.00528	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
2-Hexanone (MBK)	ND		0.0105	0.00308	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Isopropylbenzene	ND		0.00525	0.00397	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
4-Isopropyltoluene	ND		0.00525	0.00515	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Methyl tert-butyl ether	ND		0.00525	0.00302	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00339	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Methylene Chloride	ND		0.0105	0.00281	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Naphthalene	ND		0.00525	0.00474	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1

Client Sample ID: 2023-SB-04-0406' **Lab Sample ID: 620-10080-16**
Date Collected: 03/02/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Styrene	ND		0.00525	0.00406	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,1,1,2-Tetrachloroethane	ND		0.00525	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,1,2,2-Tetrachloroethane	ND		0.00525	0.00481	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Tetrachloroethene	ND		0.00525	0.00292	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Toluene	ND		0.00525	0.00333	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2,3-Trichlorobenzene	ND		0.00525	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2,4-Trichlorobenzene	ND		0.00525	0.00484	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,3,5-Trichlorobenzene	ND		0.00525	0.00498	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,1,1-Trichloroethane	ND		0.00525	0.00358	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,1,2-Trichloroethane	ND		0.00525	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Trichloroethene	ND		0.00525	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Trichlorofluoromethane (Freon 11)	ND		0.00525	0.00401	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2,3-Trichloropropane	ND		0.00525	0.00466	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,2,4-Trimethylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,3,5-Trimethylbenzene	ND		0.00525	0.00446	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Vinyl chloride	ND		0.00525	0.00320	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
m,p-Xylene	ND		0.00525	0.00717	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
o-Xylene	ND		0.00525	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Tetrahydrofuran	ND		0.0105	0.00265	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Ethyl ether	ND		0.00525	0.00276	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Tert-amyl methyl ether	ND		0.00525	0.00414	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Ethyl tert-butyl ether	ND		0.00525	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
di-Isopropyl ether	ND		0.00525	0.00375	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
tert-Butanol	ND		0.105	0.0281	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,4-Dioxane	ND		0.105	0.0326	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
trans-1,4-Dichloro-2-butene	ND		0.0262	0.00387	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Ethanol	ND		1.05	0.0651	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
1,3-Dichloropropene, Total	ND		0.00525	0.00399	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1
Xylenes, Total	ND		0.0157	0.00525	mg/Kg	☼	03/06/23 09:50	03/06/23 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/06/23 09:50*	*03/06/23 21:09*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/06/23 09:50*	*03/06/23 21:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/06/23 09:50*	*03/06/23 21:09*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 21:09*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.840	0.149	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
1,2,4-Trichlorobenzene	ND		0.840	0.192	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
1,2-Dichlorobenzene	ND		0.840	0.162	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
1,3-Dichlorobenzene	ND		0.840	0.203	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
1,4-Dichlorobenzene	ND		0.840	0.198	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
1-Methylnaphthalene	ND		0.170	0.142	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2,4,5-Trichlorophenol	ND		0.840	0.0962	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2,4,6-Trichlorophenol	ND		0.425	0.104	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2,4-Dichlorophenol	ND		0.425	0.169	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2,4-Dimethylphenol	ND		0.840	0.123	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2,4-Dinitrophenol	ND		0.840	0.221	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1

Client Sample ID: 2023-SB-04-0406' **Lab Sample ID: 620-10080-16**
Date Collected: 03/02/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.425	0.0995	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2,6-Dinitrotoluene	ND		0.425	0.0995	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2-Chloronaphthalene	ND		0.840	0.194	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2-Chlorophenol	ND		0.425	0.174	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2-Methylnaphthalene	ND		0.170	0.125	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2-Methylphenol	ND		0.840	0.123	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2-Nitroaniline	ND		0.840	0.0799	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
2-Nitrophenol	ND		0.425	0.151	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
3 & 4 Methylphenol	ND		0.840	0.159	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
3,3'-Dichlorobenzidine	ND		0.840	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
3-Nitroaniline	ND		0.840	0.0751	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
4,6-Dinitro-2-methylphenol	ND		0.840	0.151	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
4-Bromophenyl phenyl ether	ND		0.840	0.0949	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
4-Chloro-3-methylphenol	ND		0.840	0.164	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
4-Chloroaniline	ND		0.425	0.0644	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
4-Chlorophenyl phenyl ether	ND		0.840	0.0898	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
4-Nitroaniline	ND		0.425	0.134	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
4-Nitrophenol	ND		0.840	0.293	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Acenaphthene	ND		0.170	0.135	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Acenaphthylene	ND		0.170	0.111	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Acetophenone	ND		0.425	0.104	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Aniline	ND		0.840	0.0644	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Anthracene	ND		0.170	0.0982	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Azobenzene/Diphenyldiazene	ND		0.840	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzidine	ND		1.68	0.249	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzo[a]anthracene	ND		0.170	0.0954	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzo[a]pyrene	ND		0.170	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzo[b]fluoranthene	ND		0.170	0.141	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzo[g,h,i]perylene	ND		0.170	0.133	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzo[k]fluoranthene	ND		0.170	0.132	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzoic acid	ND		0.840	0.578	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Benzyl alcohol	ND		0.840	0.152	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Bis(2-chloroethoxy)methane	ND		0.840	0.146	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Bis(2-chloroethyl)ether	ND		0.425	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
bis (2-chloroisopropyl) ether	ND		0.425	0.189	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Bis(2-ethylhexyl) phthalate	**0.268**	**J**	0.425	0.108	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Butyl benzyl phthalate	ND		0.840	0.0842	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Carbazole	ND		0.425	0.111	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Chrysene	ND		0.170	0.0959	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Dibenz(a,h)anthracene	ND		0.170	0.130	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Dibenzofuran	ND		0.425	0.147	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Diethyl phthalate	ND		0.840	0.0921	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Dimethyl phthalate	ND		0.840	0.109	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Di-n-butyl phthalate	ND		0.840	0.0898	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Di-n-octyl phthalate	ND		0.840	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Fluoranthene	ND		0.170	0.0995	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Fluorene	ND		0.170	0.155	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Hexachlorobenzene	ND		0.425	0.118	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Hexachlorobutadiene	ND		0.425	0.212	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1

Client Sample ID: 2023-SB-04-0406' **Lab Sample ID: 620-10080-16**
Date Collected: 03/02/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.425	0.162	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Hexachloroethane	ND		0.425	0.167	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Indeno[1,2,3-cd]pyrene	ND		0.170	0.144	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Isophorone	ND		0.425	0.116	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Naphthalene	ND		0.170	0.163	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Nitrobenzene	ND		0.425	0.196	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
N-Nitrosodimethylamine	ND		0.425	0.111	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
N-Nitrosodi-n-propylamine	ND		0.425	0.169	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
N-Nitrosodiphenylamine	ND		0.840	0.107	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Pentachloronitrobenzene	ND		0.840	0.133	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Pentachlorophenol	ND		0.840	0.344	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Phenanthrene	ND		0.170	0.0962	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Phenol	ND		0.840	0.173	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Pyrene	ND		0.170	0.0936	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1
Pyridine	ND		0.840	0.199	mg/Kg	☼	03/10/23 11:19	03/14/23 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*30 - 130*	*03/10/23 11:19*	*03/14/23 01:42*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/10/23 11:19*	*03/14/23 01:42*	*1*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*	*03/10/23 11:19*	*03/14/23 01:42*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/10/23 11:19*	*03/14/23 01:42*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*15 - 110*	*03/10/23 11:19*	*03/14/23 01:42*	*1*
Terphenyl-d14	*99*		*30 - 130*	*03/10/23 11:19*	*03/14/23 01:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.276	0.141	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.276	0.118	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0551	0.0110	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
Ethylbenzene	ND		0.0551	0.0110	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
Methyl tert-butyl ether	ND		0.0551	0.0110	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
m,p-Xylene	ND		0.110	0.0110	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
Naphthalene	ND		0.0551	0.0375	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
o-Xylene	ND		0.0551	0.0110	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
Toluene	ND		0.0551	0.0110	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
C5-C8 Aliphatics (unadjusted)	ND		0.276	0.141	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
C9-C10 Aromatics	ND		0.276	0.0386	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1
C9-C12 Aliphatics (unadjusted)	ND		0.276	0.118	mg/Kg	☼	03/06/23 10:00	03/06/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/06/23 10:00*	*03/06/23 19:14*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/06/23 10:00*	*03/06/23 19:14*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0259	0.0187	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1
PCB-1221	ND		0.0259	0.00765	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1
PCB-1232	ND		0.0259	0.00717	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1

Client Sample ID: 2023-SB-04-0406' **Lab Sample ID: 620-10080-16**
Date Collected: 03/02/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0259	0.00409	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1
PCB-1248	ND		0.0259	0.00809	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1
PCB-1254	**0.0991**		0.0259	0.0201	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1
PCB-1262	ND		0.0259	0.00603	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1
PCB-1260	ND		0.0259	0.00557	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1
PCB-1268	ND		0.0259	0.00551	mg/Kg	☼	03/09/23 15:17	03/11/23 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:05*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:05*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:05*	*1*
DCB Decachlorobiphenyl (Surr)	*111*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:05*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluoroheptanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorooctanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorononanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorodecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorotridecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorotetradecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorobutanesulfonic acid	ND		2.59	0.518	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorohexanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorooctanesulfonic acid	**0.290**	**J**	0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
NEtFOSAA	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
NMeFOSAA	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
10:2 FTS	ND		2.59	0.778	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluoropentanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluoroheptanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorononanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorodecanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorooctanesulfonamide	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorohexadecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorooctadecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorobutanoic acid	ND		2.59	1.04	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluoropentanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
NMeFOSE	ND		2.59	0.648	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
NMeFOSA	ND		2.59	0.648	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
NEtFOSE	ND		2.59	0.648	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
NEtFOSA	ND		2.59	0.648	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
HFPODA	ND		2.59	1.30	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
DONA	ND		3.89	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
9Cl-PF3ONS	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
11Cl-PF3OUdS	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluorododecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
4:2 Fluorotelomer sulfonic acid	ND		2.59	0.778	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
Perfluoroundecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1

Client Sample ID: 2023-SB-04-0406' **Lab Sample ID: 620-10080-16**
Date Collected: 03/02/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.59	0.778	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1
8:2 Fluorotelomer sulfonic acid	ND		3.89	0.778	ug/Kg	☼	03/07/23 22:57	03/16/23 06:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*97*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
M2-6:2 FTS	*118*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C5 PFHxA	*111*		*10 - 174*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C4 PFHpA	*122*		*10 - 178*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C8 PFOA	*115*		*26 - 159*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C9 PFNA	*112*		*26 - 165*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C7 PFUnA	*108*		*12 - 173*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C2-PFDoDA	*116*		*11 - 166*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C2 PFTeDA	*122*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C3 PFHxS	*114*		*24 - 171*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
d3-NMeFOSAA	*101*		*10 - 178*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
d5-NEtFOSAA	*98*		*10 - 193*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C4 PFBA	*117*		*28 - 153*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
d7-N-MeFOSE-M	*95*		*10 - 179*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
d3-NMePFOSA	*42*		*10 - 175*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
d9-N-EtFOSE-M	*95*		*10 - 185*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
d5-NEtPFOSA	*47*		*10 - 180*	*03/07/23 22:57*	*03/16/23 06:00*	*1*
13C3 HFPO-DA	*117*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:00*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.79	1.97	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Arsenic	**2.21**	**J**	3.47	1.62	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Barium	**12.4**		0.579	0.174	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Beryllium	**0.123**	**J**	0.579	0.116	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Cadmium	ND		0.579	0.116	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Chromium	**2.70**		1.74	0.405	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Lead	**2.02**		1.74	0.694	mg/Kg	☼	03/08/23 20:04	03/10/23 13:43	1
Nickel	**1.30**		1.16	0.301	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Selenium	ND		5.79	1.74	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Silver	ND		1.16	0.463	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Thallium	ND		3.47	1.50	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Vanadium	**4.49**		1.16	0.498	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1
Zinc	**11.1**		2.31	0.926	mg/Kg	☼	03/08/23 20:04	03/09/23 21:40	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0741	0.0247	mg/Kg	☼	03/08/23 00:50	03/09/23 09:36	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0406'
Date Collected: 03/02/23 09:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-16
Matrix: Solid
Percent Solids: 77.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	22.8		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	77.2		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0608'
Date Collected: 03/02/23 09:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-17
Matrix: Solid
Percent Solids: 79.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00523	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Acetone	ND		0.0523	0.0117	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Acrylonitrile	ND		0.00523	0.00314	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Benzene	ND		0.00523	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Bromobenzene	ND		0.00523	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Bromochloromethane	ND		0.00523	0.00297	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Bromodichloromethane	ND		0.00523	0.00384	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Bromoform	ND		0.00523	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Bromomethane	ND		0.0105	0.00651	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
2-Butanone (MEK)	ND		0.0105	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
n-Butylbenzene	ND		0.0105	0.00560	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
sec-Butylbenzene	ND		0.00523	0.00421	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
tert-Butylbenzene	ND		0.00523	0.00412	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Carbon disulfide	ND		0.0105	0.00367	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Carbon tetrachloride	ND		0.00523	0.00329	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Chlorobenzene	ND		0.00523	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Chloroethane	ND		0.0105	0.00384	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Chloroform	ND		0.00523	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Chloromethane	ND		0.0105	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
2-Chlorotoluene	ND		0.00523	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
4-Chlorotoluene	ND		0.00523	0.00454	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00443	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Dibromochloromethane	ND		0.00523	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2-Dibromoethane (EDB)	ND		0.00523	0.00375	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Dibromomethane	ND		0.00523	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2-Dichlorobenzene	ND		0.00523	0.00485	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,3-Dichlorobenzene	ND		0.00523	0.00419	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,4-Dichlorobenzene	ND		0.00523	0.00496	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,1-Dichloroethane	ND		0.00523	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2-Dichloroethane	ND		0.00523	0.00352	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,1-Dichloroethene	ND		0.00523	0.00320	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
cis-1,2-Dichloroethene	ND		0.00523	0.00302	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
trans-1,2-Dichloroethene	ND		0.00523	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2-Dichloropropane	ND		0.00523	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,3-Dichloropropane	ND		0.00523	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
2,2-Dichloropropane	ND		0.00523	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,1-Dichloropropene	ND		0.00523	0.00355	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
cis-1,3-Dichloropropene	ND		0.00523	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
trans-1,3-Dichloropropene	ND		0.00523	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Ethylbenzene	ND		0.00523	0.00373	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Hexachlorobutadiene	ND		0.0105	0.00526	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
2-Hexanone (MBK)	ND		0.0105	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Isopropylbenzene	ND		0.00523	0.00395	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
4-Isopropyltoluene	ND		0.00523	0.00513	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Methyl tert-butyl ether	ND		0.00523	0.00301	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00338	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Methylene Chloride	ND		0.0105	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Naphthalene	ND		0.00523	0.00473	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1

Client Sample ID: 2023-SB-04-0608' **Lab Sample ID: 620-10080-17**
Date Collected: 03/02/23 09:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 79.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00523	0.00442	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Styrene	ND		0.00523	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,1,1,2-Tetrachloroethane	ND		0.00523	0.00392	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,1,2,2-Tetrachloroethane	ND		0.00523	0.00479	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Tetrachloroethene	ND		0.00523	0.00291	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Toluene	ND		0.00523	0.00331	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2,3-Trichlorobenzene	ND		0.00523	0.00441	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2,4-Trichlorobenzene	ND		0.00523	0.00482	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,3,5-Trichlorobenzene	ND		0.00523	0.00497	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,1,1-Trichloroethane	ND		0.00523	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,1,2-Trichloroethane	ND		0.00523	0.00394	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Trichloroethene	ND		0.00523	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00523	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2,3-Trichloropropane	ND		0.00523	0.00464	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,2,4-Trimethylbenzene	ND		0.00523	0.00442	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,3,5-Trimethylbenzene	ND		0.00523	0.00444	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Vinyl chloride	ND		0.00523	0.00319	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
m,p-Xylene	ND		0.00523	0.00714	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
o-Xylene	ND		0.00523	0.00382	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Tetrahydrofuran	ND		0.0105	0.00265	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Ethyl ether	ND		0.00523	0.00275	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Tert-amyl methyl ether	ND		0.00523	0.00413	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Ethyl tert-butyl ether	ND		0.00523	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
di-Isopropyl ether	ND		0.00523	0.00373	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
tert-Butanol	ND		0.105	0.0280	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,4-Dioxane	ND		0.105	0.0325	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Ethanol	ND		1.05	0.0648	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
1,3-Dichloropropene, Total	ND		0.00523	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1
Xylenes, Total	ND		0.0157	0.00523	mg/Kg	☼	03/07/23 09:52	03/07/23 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:49*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 15:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.412	0.0734	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
1,2,4-Trichlorobenzene	ND		0.412	0.0945	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
1,2-Dichlorobenzene	ND		0.412	0.0795	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
1,3-Dichlorobenzene	ND		0.412	0.0998	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
1,4-Dichlorobenzene	ND		0.412	0.0971	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
1-Methylnaphthalene	ND		0.0833	0.0700	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2,4,5-Trichlorophenol	ND		0.412	0.0472	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2,4,6-Trichlorophenol	ND		0.209	0.0510	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2,4-Dichlorophenol	ND		0.209	0.0831	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2,4-Dimethylphenol	ND		0.412	0.0605	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2,4-Dinitrophenol	ND		0.412	0.108	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0608'
Date Collected: 03/02/23 09:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-17
Matrix: Solid
Percent Solids: 79.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.209	0.0489	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2,6-Dinitrotoluene	ND		0.209	0.0489	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2-Chloronaphthalene	ND		0.412	0.0953	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2-Chlorophenol	ND		0.209	0.0853	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2-Methylnaphthalene	ND		0.0833	0.0616	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2-Methylphenol	ND		0.412	0.0602	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2-Nitroaniline	ND		0.412	0.0392	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
2-Nitrophenol	ND		0.209	0.0741	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
3 & 4 Methylphenol	ND		0.412	0.0781	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
3,3'-Dichlorobenzidine	ND		0.412	0.0681	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
3-Nitroaniline	ND		0.412	0.0369	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
4,6-Dinitro-2-methylphenol	ND		0.412	0.0741	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
4-Bromophenyl phenyl ether	ND		0.412	0.0466	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
4-Chloro-3-methylphenol	ND		0.412	0.0807	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
4-Chloroaniline	ND		0.209	0.0316	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
4-Chlorophenyl phenyl ether	ND		0.412	0.0441	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
4-Nitroaniline	ND		0.209	0.0659	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
4-Nitrophenol	ND		0.412	0.144	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Acenaphthene	ND		0.0833	0.0665	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Acenaphthylene	ND		0.0833	0.0547	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Acetophenone	ND		0.209	0.0509	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Aniline	ND		0.412	0.0316	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Anthracene	ND		0.0833	0.0482	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Azobenzene/Diphenyldiazene	ND		0.412	0.0704	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzidine	ND		0.825	0.122	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzo[a]anthracene	ND		0.0833	0.0469	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzo[a]pyrene	ND		0.0833	0.0596	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzo[b]fluoranthene	ND		0.0833	0.0691	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzo[g,h,i]perylene	ND		0.0833	0.0651	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzo[k]fluoranthene	ND		0.0833	0.0649	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzoic acid	ND		0.412	0.284	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Benzyl alcohol	ND		0.412	0.0747	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Bis(2-chloroethoxy)methane	ND		0.412	0.0717	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Bis(2-chloroethyl)ether	ND		0.209	0.0682	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
bis (2-chloroisopropyl) ether	ND		0.209	0.0928	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Bis(2-ethylhexyl) phthalate	ND		0.209	0.0531	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Butyl benzyl phthalate	ND		0.412	0.0414	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Carbazole	ND		0.209	0.0546	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Chrysene	ND		0.0833	0.0471	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Dibenz(a,h)anthracene	ND		0.0833	0.0636	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Dibenzofuran	ND		0.209	0.0722	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Diethyl phthalate	ND		0.412	0.0452	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Dimethyl phthalate	ND		0.412	0.0537	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Di-n-butyl phthalate	ND		0.412	0.0441	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Di-n-octyl phthalate	ND		0.412	0.0681	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Fluoranthene	ND		0.0833	0.0489	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Fluorene	ND		0.0833	0.0761	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Hexachlorobenzene	ND		0.209	0.0579	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Hexachlorobutadiene	ND		0.209	0.104	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1

Client Sample ID: 2023-SB-04-0608' **Lab Sample ID: 620-10080-17**
Date Collected: 03/02/23 09:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 79.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.209	0.0797	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Hexachloroethane	ND		0.209	0.0820	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Indeno[1,2,3-cd]pyrene	ND		0.0833	0.0707	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Isophorone	ND		0.209	0.0571	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Naphthalene	ND		0.0833	0.0800	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Nitrobenzene	ND		0.209	0.0963	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
N-Nitrosodimethylamine	ND		0.209	0.0547	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
N-Nitrosodi-n-propylamine	ND		0.209	0.0831	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
N-Nitrosodiphenylamine	ND		0.412	0.0526	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Pentachloronitrobenzene	ND		0.412	0.0651	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Pentachlorophenol	ND		0.412	0.169	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Phenanthrene	ND		0.0833	0.0472	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Phenol	ND		0.412	0.0850	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Pyrene	ND		0.0833	0.0460	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1
Pyridine	ND		0.412	0.0976	mg/Kg	☼	03/10/23 11:19	03/10/23 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:57*	*1*
2-Fluorophenol (Surr)	*126*	*S1+*	*15 - 110*	*03/10/23 11:19*	*03/10/23 21:57*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:57*	*1*
Phenol-d5 (Surr)	*99*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:57*	*1*
2,4,6-Tribromophenol (Surr)	*103*		*15 - 110*	*03/10/23 11:19*	*03/10/23 21:57*	*1*
Terphenyl-d14	*109*		*30 - 130*	*03/10/23 11:19*	*03/10/23 21:57*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.289	0.148	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.289	0.124	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0579	0.0116	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
Ethylbenzene	ND		0.0579	0.0116	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
Methyl tert-butyl ether	ND		0.0579	0.0116	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
m,p-Xylene	ND		0.116	0.0116	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
Naphthalene	ND		0.0579	0.0394	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
o-Xylene	ND		0.0579	0.0116	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
Toluene	ND		0.0579	0.0116	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
C5-C8 Aliphatics (unadjusted)	ND		0.289	0.148	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
C9-C10 Aromatics	ND		0.289	0.0405	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1
C9-C12 Aliphatics (unadjusted)	ND		0.289	0.124	mg/Kg	☼	03/06/23 10:00	03/06/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/06/23 10:00*	*03/06/23 19:53*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/06/23 10:00*	*03/06/23 19:53*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0236	0.0170	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1
PCB-1221	ND		0.0236	0.00698	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1
PCB-1232	ND		0.0236	0.00655	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1

Client Sample ID: 2023-SB-04-0608' **Lab Sample ID: 620-10080-17**
Date Collected: 03/02/23 09:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 79.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0236	0.00373	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1
PCB-1248	ND		0.0236	0.00738	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1
PCB-1254	ND		0.0236	0.0184	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1
PCB-1262	ND		0.0236	0.00551	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1
PCB-1260	ND		0.0236	0.00508	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1
PCB-1268	ND		0.0236	0.00503	mg/Kg	☼	03/09/23 15:17	03/11/23 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:24*	*1*
Tetrachloro-m-xylene	*47*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:24*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:24*	*1*
DCB Decachlorobiphenyl (Surr)	*56*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:24*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluoroheptanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorooctanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorononanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorodecanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorotridecanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorotetradecanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorobutanesulfonic acid	ND		2.43	0.487	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorohexanesulfonic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorooctanesulfonic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
NEtFOSAA	ND		2.43	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
NMeFOSAA	ND		2.43	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
10:2 FTS	ND		2.43	0.730	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluoropentanesulfonic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluoroheptanesulfonic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorononanesulfonic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorodecanesulfonic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.43	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorooctanesulfonamide	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorohexadecanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorooctadecanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorobutanoic acid	ND		2.43	0.973	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluoropentanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
NMeFOSE	ND		2.43	0.608	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
NMeFOSA	ND		2.43	0.608	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
NEtFOSE	ND		2.43	0.608	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
NEtFOSA	ND		2.43	0.608	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
HFPODA	ND		2.43	1.22	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
DONA	ND		3.65	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
9Cl-PF3ONS	ND		2.43	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
11Cl-PF3OUdS	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluorododecanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
4:2 Fluorotelomer sulfonic acid	ND		2.43	0.730	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
Perfluoroundecanoic acid	ND		0.730	0.243	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1

Client Sample ID: 2023-SB-04-0608' **Lab Sample ID: 620-10080-17**
Date Collected: 03/02/23 09:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 79.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.43	0.730	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1
8:2 Fluorotelomer sulfonic acid	ND		3.65	0.730	ug/Kg	☼	03/07/23 22:57	03/16/23 06:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
M2-6:2 FTS	*103*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C5 PFHxA	*113*		*10 - 174*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C4 PFHpA	*117*		*10 - 178*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C8 PFOA	*115*		*26 - 159*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C9 PFNA	*111*		*26 - 165*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C6 PFDA	*112*		*26 - 161*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C7 PFUnA	*111*		*12 - 173*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C2-PFDoDA	*116*		*11 - 166*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C2 PFTeDA	*131*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C3 PFHxS	*103*		*24 - 171*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C8 PFOS	*108*		*41 - 154*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
d3-NMeFOSAA	*108*		*10 - 178*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
d5-NEtFOSAA	*109*		*10 - 193*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C8 FOSA	*112*		*14 - 163*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C4 PFBA	*115*		*28 - 153*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C5 PFPeA	*109*		*24 - 161*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
d7-N-MeFOSE-M	*107*		*10 - 179*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
d3-NMePFOSA	*97*		*10 - 175*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
d9-N-EtFOSE-M	*110*		*10 - 185*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
d5-NEtPFOSA	*104*		*10 - 180*	*03/07/23 22:57*	*03/16/23 06:11*	*1*
13C3 HFPO-DA	*100*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:11*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.64	1.58	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Arsenic	**2.92**		2.78	1.30	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Barium	**18.9**		0.464	0.139	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Beryllium	**0.249**	**J**	0.464	0.0928	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Cadmium	ND		0.464	0.0928	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Chromium	**5.01**		1.39	0.325	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Lead	**2.78**		1.39	0.557	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Nickel	**2.25**		0.928	0.241	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Selenium	ND		4.64	1.39	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Silver	ND	^3+	0.928	0.371	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Thallium	ND		2.78	1.21	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Vanadium	**7.96**		0.928	0.399	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1
Zinc	**15.8**		1.86	0.742	mg/Kg	☼	03/08/23 13:50	03/09/23 15:09	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0705	0.0235	mg/Kg	☼	03/08/23 13:59	03/09/23 08:59	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0608'
Date Collected: 03/02/23 09:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-17
Matrix: Solid
Percent Solids: 79.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.2		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	79.8		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0810'
Date Collected: 03/02/23 09:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-18
Matrix: Solid
Percent Solids: 75.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00586	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Acetone	ND		0.0586	0.0131	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Acrylonitrile	ND		0.00586	0.00352	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Benzene	ND		0.00586	0.00392	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Bromobenzene	ND		0.00586	0.00390	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Bromochloromethane	ND		0.00586	0.00333	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Bromodichloromethane	ND		0.00586	0.00430	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Bromoform	ND		0.00586	0.00448	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Bromomethane	ND		0.0117	0.00730	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
2-Butanone (MEK)	ND		0.0117	0.00467	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
n-Butylbenzene	ND		0.0117	0.00628	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
sec-Butylbenzene	ND		0.00586	0.00473	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
tert-Butylbenzene	ND		0.00586	0.00462	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Carbon disulfide	ND		0.0117	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Carbon tetrachloride	ND		0.00586	0.00369	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Chlorobenzene	ND		0.00586	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Chloroethane	ND		0.0117	0.00430	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Chloroform	ND		0.00586	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Chloromethane	ND		0.0117	0.00450	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
2-Chlorotoluene	ND		0.00586	0.00467	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
4-Chlorotoluene	ND		0.00586	0.00509	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2-Dibromo-3-Chloropropane	ND		0.0117	0.00497	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Dibromochloromethane	ND		0.00586	0.00388	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2-Dibromoethane (EDB)	ND		0.00586	0.00421	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Dibromomethane	ND		0.00586	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2-Dichlorobenzene	ND		0.00586	0.00544	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,3-Dichlorobenzene	ND		0.00586	0.00470	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,4-Dichlorobenzene	ND		0.00586	0.00556	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Dichlorodifluoromethane (Freon 12)	ND		0.0117	0.00314	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,1-Dichloroethane	ND		0.00586	0.00397	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2-Dichloroethane	ND		0.00586	0.00395	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,1-Dichloroethene	ND		0.00586	0.00359	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
cis-1,2-Dichloroethene	ND		0.00586	0.00339	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
trans-1,2-Dichloroethene	ND		0.00586	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2-Dichloropropane	ND		0.00586	0.00388	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,3-Dichloropropane	ND		0.00586	0.00448	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
2,2-Dichloropropane	ND		0.00586	0.00405	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,1-Dichloropropene	ND		0.00586	0.00399	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
cis-1,3-Dichloropropene	ND		0.00586	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
trans-1,3-Dichloropropene	ND		0.00586	0.00446	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Ethylbenzene	ND		0.00586	0.00419	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Hexachlorobutadiene	ND		0.0117	0.00590	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
2-Hexanone (MBK)	ND		0.0117	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Isopropylbenzene	ND		0.00586	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
4-Isopropyltoluene	ND		0.00586	0.00576	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Methyl tert-butyl ether	ND		0.00586	0.00338	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
4-Methyl-2-pentanone (MIBK)	ND		0.0117	0.00379	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Methylene Chloride	ND		0.0117	0.00314	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Naphthalene	ND		0.00586	0.00530	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1

Client Sample ID: 2023-SB-04-0810' **Lab Sample ID: 620-10080-18**
Date Collected: 03/02/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 75.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00586	0.00496	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Styrene	ND		0.00586	0.00454	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,1,1,2-Tetrachloroethane	ND		0.00586	0.00440	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,1,2,2-Tetrachloroethane	ND		0.00586	0.00537	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Tetrachloroethene	ND		0.00586	0.00326	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Toluene	ND		0.00586	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2,3-Trichlorobenzene	ND		0.00586	0.00495	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2,4-Trichlorobenzene	ND		0.00586	0.00541	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,3,5-Trichlorobenzene	ND		0.00586	0.00557	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,1,1-Trichloroethane	ND		0.00586	0.00400	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,1,2-Trichloroethane	ND		0.00586	0.00442	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Trichloroethene	ND		0.00586	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Trichlorofluoromethane (Freon 11)	ND		0.00586	0.00448	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2,3-Trichloropropane	ND		0.00586	0.00521	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,2,4-Trimethylbenzene	ND		0.00586	0.00496	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,3,5-Trimethylbenzene	ND		0.00586	0.00498	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Vinyl chloride	ND		0.00586	0.00358	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
m,p-Xylene	ND		0.00586	0.00801	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
o-Xylene	ND		0.00586	0.00428	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Tetrahydrofuran	ND		0.0117	0.00297	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Ethyl ether	ND		0.00586	0.00308	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Tert-amyl methyl ether	ND		0.00586	0.00463	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Ethyl tert-butyl ether	ND		0.00586	0.00386	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
di-Isopropyl ether	ND		0.00586	0.00419	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
tert-Butanol	ND		0.117	0.0314	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,4-Dioxane	ND		0.117	0.0365	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
trans-1,4-Dichloro-2-butene	ND		0.0293	0.00433	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Ethanol	ND		1.17	0.0727	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
1,3-Dichloropropene, Total	ND		0.00586	0.00446	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1
Xylenes, Total	ND		0.0176	0.00586	mg/Kg	☼	03/06/23 09:50	03/06/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 22:00*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/06/23 09:50*	*03/06/23 22:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 22:00*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 22:00*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.432	0.0769	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
1,2,4-Trichlorobenzene	ND		0.432	0.0990	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
1,2-Dichlorobenzene	ND		0.432	0.0833	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
1,3-Dichlorobenzene	ND		0.432	0.105	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
1,4-Dichlorobenzene	ND		0.432	0.102	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
1-Methylnaphthalene	ND		0.0874	0.0734	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2,4,5-Trichlorophenol	ND		0.432	0.0495	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2,4,6-Trichlorophenol	ND		0.219	0.0534	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2,4-Dichlorophenol	ND		0.219	0.0871	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2,4-Dimethylphenol	ND		0.432	0.0634	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2,4-Dinitrophenol	ND		0.432	0.114	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0810'
Date Collected: 03/02/23 09:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-18
Matrix: Solid
Percent Solids: 75.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.219	0.0512	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2,6-Dinitrotoluene	ND		0.219	0.0512	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2-Chloronaphthalene	ND		0.432	0.100	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2-Chlorophenol	ND		0.219	0.0895	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2-Methylnaphthalene	ND		0.0874	0.0646	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2-Methylphenol	ND		0.432	0.0631	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2-Nitroaniline	ND		0.432	0.0411	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
2-Nitrophenol	ND		0.219	0.0777	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
3 & 4 Methylphenol	ND		0.432	0.0819	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
3,3'-Dichlorobenzidine	ND		0.432	0.0714	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
3-Nitroaniline	ND		0.432	0.0386	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
4,6-Dinitro-2-methylphenol	ND		0.432	0.0777	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
4-Bromophenyl phenyl ether	ND		0.432	0.0489	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
4-Chloro-3-methylphenol	ND		0.432	0.0846	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
4-Chloroaniline	ND		0.219	0.0331	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
4-Chlorophenyl phenyl ether	ND		0.432	0.0462	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
4-Nitroaniline	ND		0.219	0.0690	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
4-Nitrophenol	ND		0.432	0.151	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Acenaphthene	ND		0.0874	0.0697	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Acenaphthylene	ND		0.0874	0.0574	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Acetophenone	ND		0.219	0.0533	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Aniline	ND		0.432	0.0331	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Anthracene	ND		0.0874	0.0506	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Azobenzene/Diphenyldiazene	ND		0.432	0.0738	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzidine	ND		0.865	0.128	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzo[a]anthracene	ND		0.0874	0.0491	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzo[a]pyrene	ND		0.0874	0.0625	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzo[b]fluoranthene	ND		0.0874	0.0724	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzo[g,h,i]perylene	ND		0.0874	0.0683	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzo[k]fluoranthene	ND		0.0874	0.0680	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzoic acid	ND		0.432	0.297	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Benzyl alcohol	ND		0.432	0.0783	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Bis(2-chloroethoxy)methane	ND		0.432	0.0752	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Bis(2-chloroethyl)ether	ND		0.219	0.0715	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
bis (2-chloroisopropyl) ether	ND		0.219	0.0973	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Bis(2-ethylhexyl) phthalate	ND		0.219	0.0557	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Butyl benzyl phthalate	ND		0.432	0.0434	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Carbazole	ND		0.219	0.0572	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Chrysene	ND		0.0874	0.0494	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Dibenz(a,h)anthracene	ND		0.0874	0.0667	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Dibenzofuran	ND		0.219	0.0757	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Diethyl phthalate	ND		0.432	0.0474	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Dimethyl phthalate	ND		0.432	0.0563	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Di-n-butyl phthalate	ND		0.432	0.0462	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Di-n-octyl phthalate	ND		0.432	0.0714	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Fluoranthene	ND		0.0874	0.0512	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Fluorene	ND		0.0874	0.0798	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Hexachlorobenzene	ND		0.219	0.0607	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Hexachlorobutadiene	ND		0.219	0.109	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1

Client Sample ID: 2023-SB-04-0810' **Lab Sample ID: 620-10080-18**
Date Collected: 03/02/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 75.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.219	0.0836	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Hexachloroethane	ND		0.219	0.0859	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0874	0.0741	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Isophorone	ND		0.219	0.0599	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Naphthalene	ND		0.0874	0.0838	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Nitrobenzene	ND		0.219	0.101	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
N-Nitrosodimethylamine	ND		0.219	0.0574	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
N-Nitrosodi-n-propylamine	ND		0.219	0.0871	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
N-Nitrosodiphenylamine	ND		0.432	0.0552	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Pentachloronitrobenzene	ND		0.432	0.0683	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Pentachlorophenol	ND		0.432	0.177	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Phenanthrene	ND		0.0874	0.0495	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Phenol	ND		0.432	0.0891	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Pyrene	ND		0.0874	0.0482	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1
Pyridine	ND		0.432	0.102	mg/Kg	☼	03/10/23 11:19	03/10/23 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/10/23 11:19*	*03/10/23 22:26*	*1*
2-Fluorophenol (Surr)	*119*	*S1+*	*15 - 110*	*03/10/23 11:19*	*03/10/23 22:26*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/10/23 11:19*	*03/10/23 22:26*	*1*
Phenol-d5 (Surr)	*92*		*15 - 110*	*03/10/23 11:19*	*03/10/23 22:26*	*1*
2,4,6-Tribromophenol (Surr)	*104*		*15 - 110*	*03/10/23 11:19*	*03/10/23 22:26*	*1*
Terphenyl-d14	*112*		*30 - 130*	*03/10/23 11:19*	*03/10/23 22:26*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.280	0.143	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.280	0.120	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0560	0.0112	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
Ethylbenzene	ND		0.0560	0.0112	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
Methyl tert-butyl ether	ND		0.0560	0.0112	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
m,p-Xylene	ND		0.112	0.0112	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
Naphthalene	ND		0.0560	0.0381	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
o-Xylene	ND		0.0560	0.0112	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
Toluene	ND		0.0560	0.0112	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
C5-C8 Aliphatics (unadjusted)	ND		0.280	0.143	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
C9-C10 Aromatics	ND		0.280	0.0392	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1
C9-C12 Aliphatics (unadjusted)	ND		0.280	0.120	mg/Kg	☼	03/06/23 10:00	03/06/23 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/06/23 10:00*	*03/06/23 20:33*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/06/23 10:00*	*03/06/23 20:33*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0263	0.0189	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1
PCB-1221	ND		0.0263	0.00776	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1
PCB-1232	ND		0.0263	0.00727	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1

Client Sample ID: 2023-SB-04-0810' **Lab Sample ID: 620-10080-18**
Date Collected: 03/02/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 75.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0263	0.00415	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1
PCB-1248	ND		0.0263	0.00821	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1
PCB-1254	ND		0.0263	0.0204	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1
PCB-1262	ND		0.0263	0.00612	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1
PCB-1260	ND		0.0263	0.00565	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1
PCB-1268	ND		0.0263	0.00559	mg/Kg	☼	03/09/23 15:17	03/11/23 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:43*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:43*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:43*	*1*
DCB Decachlorobiphenyl (Surr)	*123*		*30 - 150*	*03/09/23 15:17*	*03/11/23 10:43*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluoroheptanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorooctanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorononanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorodecanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorotridecanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorotetradecanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorobutanesulfonic acid	ND		2.49	0.499	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorohexanesulfonic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorooctanesulfonic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
NEtFOSAA	ND		2.49	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
NMeFOSAA	ND		2.49	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
10:2 FTS	ND		2.49	0.748	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluoropentanesulfonic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluoroheptanesulfonic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorononanesulfonic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorodecanesulfonic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.49	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorooctanesulfonamide	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorohexadecanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorooctadecanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorobutanoic acid	ND		2.49	0.997	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluoropentanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
NMeFOSE	ND		2.49	0.623	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
NMeFOSA	ND		2.49	0.623	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
NEtFOSE	ND		2.49	0.623	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
NEtFOSA	ND		2.49	0.623	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
HFPODA	ND		2.49	1.25	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
DONA	ND		3.74	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
9Cl-PF3ONS	ND		2.49	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
11Cl-PF3OUdS	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluorododecanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
4:2 Fluorotelomer sulfonic acid	ND		2.49	0.748	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
Perfluoroundecanoic acid	ND		0.748	0.249	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1

Client Sample ID: 2023-SB-04-0810' **Lab Sample ID: 620-10080-18**
Date Collected: 03/02/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 75.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.49	0.748	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1
8:2 Fluorotelomer sulfonic acid	ND		3.74	0.748	ug/Kg	☼	03/07/23 22:57	03/17/23 04:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*64*		*10 - 200*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
M2-8:2 FTS	*71*		*15 - 200*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
M2-6:2 FTS	*73*		*10 - 200*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C5 PFHxA	*94*		*10 - 174*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C4 PFHpA	*96*		*10 - 178*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C8 PFOA	*94*		*26 - 159*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C9 PFNA	*102*		*26 - 165*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C6 PFDA	*95*		*26 - 161*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C7 PFUnA	*92*		*12 - 173*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C2-PFDoDA	*95*		*11 - 166*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C2 PFTeDA	*100*		*10 - 169*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C3 PFBS	*100*		*27 - 179*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C8 PFOS	*108*		*41 - 154*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
d5-NEtFOSAA	*19*		*10 - 193*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C4 PFBA	*91*		*28 - 153*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C5 PFPeA	*89*		*24 - 161*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
d7-N-MeFOSE-M	*107*		*10 - 179*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/07/23 22:57*	*03/17/23 04:02*	*1*
13C3 HFPO-DA	*94*		*10 - 169*	*03/07/23 22:57*	*03/17/23 04:02*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.51	1.87	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Arsenic	**10.3**		3.31	1.54	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Barium	**133**		0.551	0.165	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Beryllium	**1.78**		0.551	0.110	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Cadmium	ND		0.551	0.110	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Chromium	**32.9**		1.65	0.386	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Lead	**16.4**		1.65	0.661	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Nickel	**18.1**		1.10	0.287	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Selenium	ND		5.51	1.65	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Silver	ND	^3+	1.10	0.441	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Thallium	ND		33.1	14.3	mg/Kg	☼	03/09/23 00:11	03/13/23 20:12	10
Vanadium	**53.6**		1.10	0.474	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1
Zinc	**67.9**		2.20	0.882	mg/Kg	☼	03/09/23 00:11	03/13/23 20:08	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0739	0.0246	mg/Kg	☼	03/09/23 00:35	03/09/23 08:03	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0810'
Date Collected: 03/02/23 09:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-18
Matrix: Solid
Percent Solids: 75.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	25.0		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	75.0		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-1012'
Date Collected: 03/02/23 09:35
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-19
Matrix: Solid
Percent Solids: 80.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00512	0.00334	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Acetone	ND		0.0512	0.0115	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Acrylonitrile	ND		0.00512	0.00307	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Benzene	ND		0.00512	0.00342	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Bromobenzene	ND		0.00512	0.00341	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Bromochloromethane	ND		0.00512	0.00291	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Bromodichloromethane	ND		0.00512	0.00376	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Bromoform	ND		0.00512	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Bromomethane	ND		0.0102	0.00638	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
2-Butanone (MEK)	ND		0.0102	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
n-Butylbenzene	ND		0.0102	0.00549	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
sec-Butylbenzene	ND		0.00512	0.00413	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
tert-Butylbenzene	ND		0.00512	0.00404	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Carbon disulfide	ND		0.0102	0.00360	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Carbon tetrachloride	ND		0.00512	0.00323	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Chlorobenzene	ND		0.00512	0.00375	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Chloroethane	ND		0.0102	0.00376	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Chloroform	ND		0.00512	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Chloromethane	ND		0.0102	0.00393	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
2-Chlorotoluene	ND		0.00512	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
4-Chlorotoluene	ND		0.00512	0.00445	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2-Dibromo-3-Chloropropane	ND		0.0102	0.00434	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Dibromochloromethane	ND		0.00512	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2-Dibromoethane (EDB)	ND		0.00512	0.00368	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Dibromomethane	ND		0.00512	0.00301	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2-Dichlorobenzene	ND		0.00512	0.00475	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,3-Dichlorobenzene	ND		0.00512	0.00411	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,4-Dichlorobenzene	ND		0.00512	0.00486	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Dichlorodifluoromethane (Freon 12)	ND		0.0102	0.00275	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,1-Dichloroethane	ND		0.00512	0.00347	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2-Dichloroethane	ND		0.00512	0.00345	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,1-Dichloroethene	ND		0.00512	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
cis-1,2-Dichloroethene	ND		0.00512	0.00296	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
trans-1,2-Dichloroethene	ND		0.00512	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2-Dichloropropane	ND		0.00512	0.00339	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,3-Dichloropropane	ND		0.00512	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
2,2-Dichloropropane	ND		0.00512	0.00353	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,1-Dichloropropene	ND		0.00512	0.00348	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
cis-1,3-Dichloropropene	ND		0.00512	0.00334	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
trans-1,3-Dichloropropene	ND		0.00512	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Ethylbenzene	ND		0.00512	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Hexachlorobutadiene	ND		0.0102	0.00515	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
2-Hexanone (MBK)	ND		0.0102	0.00301	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Isopropylbenzene	ND		0.00512	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
4-Isopropyltoluene	ND		0.00512	0.00503	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Methyl tert-butyl ether	ND		0.00512	0.00295	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		0.0102	0.00331	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Methylene Chloride	ND		0.0102	0.00275	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Naphthalene	ND		0.00512	0.00463	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1

Client Sample ID: 2023-SB-04-1012' **Lab Sample ID: 620-10080-19**
Date Collected: 03/02/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00512	0.00433	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Styrene	ND		0.00512	0.00396	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,1,1,2-Tetrachloroethane	ND		0.00512	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,1,2,2-Tetrachloroethane	ND		0.00512	0.00469	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Tetrachloroethene	ND		0.00512	0.00285	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Toluene	ND		0.00512	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2,3-Trichlorobenzene	ND		0.00512	0.00432	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2,4-Trichlorobenzene	ND		0.00512	0.00472	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,3,5-Trichlorobenzene	ND		0.00512	0.00487	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,1,1-Trichloroethane	ND		0.00512	0.00349	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,1,2-Trichloroethane	ND		0.00512	0.00386	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Trichloroethene	ND		0.00512	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Trichlorofluoromethane (Freon 11)	ND		0.00512	0.00391	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2,3-Trichloropropane	ND		0.00512	0.00455	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,2,4-Trimethylbenzene	ND		0.00512	0.00433	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,3,5-Trimethylbenzene	ND		0.00512	0.00435	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Vinyl chloride	ND		0.00512	0.00312	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
m,p-Xylene	ND		0.00512	0.00700	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
o-Xylene	ND		0.00512	0.00374	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Tetrahydrofuran	ND		0.0102	0.00259	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Ethyl ether	ND		0.00512	0.00269	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Tert-amyl methyl ether	ND		0.00512	0.00405	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Ethyl tert-butyl ether	ND		0.00512	0.00337	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
di-Isopropyl ether	ND		0.00512	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
tert-Butanol	ND		0.102	0.0275	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,4-Dioxane	ND		0.102	0.0319	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
trans-1,4-Dichloro-2-butene	ND		0.0256	0.00378	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Ethanol	ND		1.02	0.0635	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
1,3-Dichloropropene, Total	ND		0.00512	0.00389	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1
Xylenes, Total	ND		0.0154	0.00512	mg/Kg	☼	03/08/23 10:32	03/08/23 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:04*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:04*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:04*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.808	0.144	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
1,2,4-Trichlorobenzene	ND		0.808	0.185	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
1,2-Dichlorobenzene	ND		0.808	0.156	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
1,3-Dichlorobenzene	ND		0.808	0.196	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
1,4-Dichlorobenzene	ND		0.808	0.190	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
1-Methylnaphthalene	ND		0.163	0.137	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2,4,5-Trichlorophenol	ND		0.808	0.0925	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2,4,6-Trichlorophenol	ND		0.409	0.0998	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2,4-Dichlorophenol	ND		0.409	0.163	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2,4-Dimethylphenol	ND		0.808	0.118	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2,4-Dinitrophenol	ND		0.808	0.212	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-1012'
Date Collected: 03/02/23 09:35
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-19
Matrix: Solid
Percent Solids: 80.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.409	0.0957	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2,6-Dinitrotoluene	ND		0.409	0.0957	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2-Chloronaphthalene	ND		0.808	0.187	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2-Chlorophenol	ND		0.409	0.167	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2-Methylnaphthalene	ND		0.163	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2-Methylphenol	ND		0.808	0.118	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2-Nitroaniline	ND		0.808	0.0768	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
2-Nitrophenol	ND		0.409	0.145	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
3 & 4 Methylphenol	ND		0.808	0.153	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
3,3'-Dichlorobenzidine	ND		0.808	0.133	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
3-Nitroaniline	ND		0.808	0.0722	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
4,6-Dinitro-2-methylphenol	ND		0.808	0.145	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
4-Bromophenyl phenyl ether	ND		0.808	0.0913	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
4-Chloro-3-methylphenol	ND		0.808	0.158	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
4-Chloroaniline	ND		0.409	0.0619	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
4-Chlorophenyl phenyl ether	ND		0.808	0.0864	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
4-Nitroaniline	ND		0.409	0.129	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
4-Nitrophenol	ND		0.808	0.281	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Acenaphthene	ND		0.163	0.130	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Acenaphthylene	ND		0.163	0.107	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Acetophenone	ND		0.409	0.0996	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Aniline	ND		0.808	0.0619	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Anthracene	ND		0.163	0.0945	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Azobenzene/Diphenyldiazene	ND		0.808	0.138	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzidine	ND		1.62	0.239	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzo[a]anthracene	ND		0.163	0.0918	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzo[a]pyrene	ND		0.163	0.117	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzo[b]fluoranthene	ND		0.163	0.135	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzo[g,h,i]perylene	ND		0.163	0.127	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzo[k]fluoranthene	ND		0.163	0.127	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzoic acid	ND		0.808	0.555	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Benzyl alcohol	ND		0.808	0.146	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Bis(2-chloroethoxy)methane	ND		0.808	0.140	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Bis(2-chloroethyl)ether	ND		0.409	0.134	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
bis (2-chloroisopropyl) ether	ND		0.409	0.182	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Bis(2-ethylhexyl) phthalate	ND		0.409	0.104	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Butyl benzyl phthalate	ND		0.808	0.0810	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Carbazole	ND		0.409	0.107	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Chrysene	ND		0.163	0.0923	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Dibenz(a,h)anthracene	ND		0.163	0.125	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Dibenzofuran	ND		0.409	0.141	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Diethyl phthalate	ND		0.808	0.0886	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Dimethyl phthalate	ND		0.808	0.105	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Di-n-butyl phthalate	ND		0.808	0.0864	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Di-n-octyl phthalate	ND		0.808	0.133	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Fluoranthene	ND		0.163	0.0957	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Fluorene	ND		0.163	0.149	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Hexachlorobenzene	ND		0.409	0.113	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Hexachlorobutadiene	ND		0.409	0.204	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1

Client Sample ID: 2023-SB-04-1012' **Lab Sample ID: 620-10080-19**
Date Collected: 03/02/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.409	0.156	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Hexachloroethane	ND		0.409	0.161	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Indeno[1,2,3-cd]pyrene	ND		0.163	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Isophorone	ND		0.409	0.112	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Naphthalene	ND		0.163	0.157	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Nitrobenzene	ND		0.409	0.189	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
N-Nitrosodimethylamine	ND		0.409	0.107	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
N-Nitrosodi-n-propylamine	ND		0.409	0.163	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
N-Nitrosodiphenylamine	ND		0.808	0.103	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Pentachloronitrobenzene	ND		0.808	0.127	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Pentachlorophenol	ND		0.808	0.330	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Phenanthrene	ND		0.163	0.0925	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Phenol	ND		0.808	0.166	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Pyrene	ND		0.163	0.0901	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1
Pyridine	ND		0.808	0.191	mg/Kg	☼	03/10/23 11:19	03/14/23 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/10/23 11:19*	*03/14/23 02:11*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/10/23 11:19*	*03/14/23 02:11*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*	*03/10/23 11:19*	*03/14/23 02:11*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/10/23 11:19*	*03/14/23 02:11*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*	*03/10/23 11:19*	*03/14/23 02:11*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/10/23 11:19*	*03/14/23 02:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.259	0.132	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.259	0.111	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
Ethylbenzene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
Methyl tert-butyl ether	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
Naphthalene	ND		0.0518	0.0352	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
o-Xylene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
Toluene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
C5-C8 Aliphatics (unadjusted)	ND		0.259	0.132	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
C9-C10 Aromatics	ND		0.259	0.0362	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1
C9-C12 Aliphatics (unadjusted)	ND		0.259	0.111	mg/Kg	☼	03/06/23 10:00	03/06/23 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/06/23 10:00*	*03/06/23 21:12*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/06/23 10:00*	*03/06/23 21:12*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0243	0.0175	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1
PCB-1221	ND		0.0243	0.00719	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1
PCB-1232	ND		0.0243	0.00674	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1

Client Sample ID: 2023-SB-04-1012' **Lab Sample ID: 620-10080-19**
Date Collected: 03/02/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0243	0.00384	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1
PCB-1248	ND		0.0243	0.00760	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1
PCB-1254	**0.0641**		0.0243	0.0189	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1
PCB-1262	ND		0.0243	0.00567	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1
PCB-1260	ND		0.0243	0.00523	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1
PCB-1268	ND		0.0243	0.00518	mg/Kg	☼	03/09/23 15:17	03/11/23 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:02*	*1*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:02*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:02*	*1*
DCB Decachlorobiphenyl (Surr)	*119*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:02*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluoroheptanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorooctanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorononanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorodecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorotridecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorotetradecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorobutanesulfonic acid	ND		2.30	0.460	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorohexanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorooctanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
NEtFOSAA	ND		2.30	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
NMeFOSAA	ND		2.30	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
10:2 FTS	ND		2.30	0.690	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluoropentanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluoroheptanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorononanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorodecanesulfonic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.30	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorooctanesulfonamide	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorohexadecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorooctadecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorobutanoic acid	ND		2.30	0.920	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluoropentanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
NMeFOSE	ND		2.30	0.575	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
NMeFOSA	ND		2.30	0.575	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
NEtFOSE	ND		2.30	0.575	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
NEtFOSA	ND		2.30	0.575	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
HFPODA	ND		2.30	1.15	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
DONA	ND		3.45	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
9Cl-PF3ONS	ND		2.30	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
11Cl-PF3OUdS	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluorododecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
4:2 Fluorotelomer sulfonic acid	ND		2.30	0.690	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
Perfluoroundecanoic acid	ND		0.690	0.230	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-04-1012' **Lab Sample ID: 620-10080-19**
Date Collected: 03/02/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.30	0.690	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1
8:2 Fluorotelomer sulfonic acid	ND		3.45	0.690	ug/Kg	☼	03/07/23 22:57	03/16/23 06:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
M2-6:2 FTS	*102*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C5 PFHxA	*111*		*10 - 174*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C4 PFHpA	*119*		*10 - 178*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C8 PFOA	*115*		*26 - 159*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C9 PFNA	*111*		*26 - 165*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C6 PFDA	*110*		*26 - 161*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C7 PFUnA	*111*		*12 - 173*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C2 PFTeDA	*112*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C3 PFBS	*111*		*27 - 179*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C3 PFHxS	*113*		*24 - 171*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
d3-NMeFOSAA	*100*		*10 - 178*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
d5-NEtFOSAA	*107*		*10 - 193*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C4 PFBA	*115*		*28 - 153*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C5 PFPeA	*110*		*24 - 161*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
d7-N-MeFOSE-M	*99*		*10 - 179*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
d3-NMePFOSA	*95*		*10 - 175*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
d9-N-EtFOSE-M	*101*		*10 - 185*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
d5-NEtPFOSA	*97*		*10 - 180*	*03/07/23 22:57*	*03/16/23 06:45*	*1*
13C3 HFPO-DA	*101*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.17	1.42	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Arsenic	**2.55**		2.50	1.17	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Barium	**13.3**		0.417	0.125	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Beryllium	**0.215**	**J**	0.417	0.0833	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Cadmium	ND		0.417	0.0833	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Chromium	**6.37**		1.25	0.292	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Lead	**2.19**		1.25	0.500	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Nickel	**2.96**		0.833	0.217	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Selenium	ND		4.17	1.25	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Silver	ND	^3+	0.833	0.333	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Thallium	ND		2.50	1.08	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Vanadium	**7.79**		0.833	0.358	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1
Zinc	**14.8**		1.67	0.667	mg/Kg	☼	03/08/23 13:50	03/09/23 15:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0745	0.0248	mg/Kg	☼	03/08/23 14:08	03/09/23 09:11	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-1012'
Date Collected: 03/02/23 09:35
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-19
Matrix: Solid
Percent Solids: 80.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.5		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	80.5		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0002'
Date Collected: 03/02/23 10:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-20
Matrix: Solid
Percent Solids: 92.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00478	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Acetone	ND		0.0478	0.0107	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Acrylonitrile	ND		0.00478	0.00287	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Benzene	ND		0.00478	0.00319	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Bromobenzene	ND		0.00478	0.00318	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Bromochloromethane	ND		0.00478	0.00272	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Bromodichloromethane	ND		0.00478	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Bromoform	ND		0.00478	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Bromomethane	ND		0.00956	0.00596	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
2-Butanone (MEK)	ND		0.00956	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
n-Butylbenzene	ND		0.00956	0.00512	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
sec-Butylbenzene	ND		0.00478	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
tert-Butylbenzene	ND		0.00478	0.00377	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Carbon disulfide	ND		0.00956	0.00336	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Carbon tetrachloride	ND		0.00478	0.00301	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Chlorobenzene	ND		0.00478	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Chloroethane	ND		0.00956	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Chloroform	ND		0.00478	0.00321	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Chloromethane	ND		0.00956	0.00367	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
2-Chlorotoluene	ND		0.00478	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
4-Chlorotoluene	ND		0.00478	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2-Dibromo-3-Chloropropane	ND		0.00956	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Dibromochloromethane	ND		0.00478	0.00316	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2-Dibromoethane (EDB)	ND		0.00478	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Dibromomethane	ND		0.00478	0.00281	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2-Dichlorobenzene	ND		0.00478	0.00444	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,3-Dichlorobenzene	ND		0.00478	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,4-Dichlorobenzene	ND		0.00478	0.00453	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Dichlorodifluoromethane (Freon 12)	ND		0.00956	0.00256	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,1-Dichloroethane	ND		0.00478	0.00324	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2-Dichloroethane	ND		0.00478	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,1-Dichloroethene	ND		0.00478	0.00293	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
cis-1,2-Dichloroethene	ND		0.00478	0.00276	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
trans-1,2-Dichloroethene	ND		0.00478	0.00297	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2-Dichloropropane	ND		0.00478	0.00316	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,3-Dichloropropane	ND		0.00478	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
2,2-Dichloropropane	ND		0.00478	0.00330	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,1-Dichloropropene	ND		0.00478	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
cis-1,3-Dichloropropene	ND		0.00478	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
trans-1,3-Dichloropropene	ND		0.00478	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Ethylbenzene	ND		0.00478	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Hexachlorobutadiene	ND		0.00956	0.00481	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
2-Hexanone (MBK)	ND		0.00956	0.00281	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Isopropylbenzene	ND		0.00478	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
4-Isopropyltoluene	ND		0.00478	0.00469	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Methyl tert-butyl ether	ND		0.00478	0.00275	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.00956	0.00309	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Methylene Chloride	ND		0.00956	0.00256	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Naphthalene	ND		0.00478	0.00432	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1

Client Sample ID: 2023-SB-03-0002' **Lab Sample ID: 620-10080-20**
Date Collected: 03/02/23 10:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00478	0.00404	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Styrene	ND		0.00478	0.00370	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,1,1,2-Tetrachloroethane	ND		0.00478	0.00359	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,1,2,2-Tetrachloroethane	ND		0.00478	0.00438	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Tetrachloroethene	ND		0.00478	0.00266	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Toluene	ND		0.00478	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2,3-Trichlorobenzene	ND		0.00478	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2,4-Trichlorobenzene	ND		0.00478	0.00441	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,3,5-Trichlorobenzene	ND		0.00478	0.00454	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,1,1-Trichloroethane	ND		0.00478	0.00326	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,1,2-Trichloroethane	ND		0.00478	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Trichloroethene	ND		0.00478	0.00321	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00478	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2,3-Trichloropropane	ND		0.00478	0.00424	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,2,4-Trimethylbenzene	ND		0.00478	0.00404	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,3,5-Trimethylbenzene	ND		0.00478	0.00406	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Vinyl chloride	ND		0.00478	0.00292	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
m,p-Xylene	ND		0.00478	0.00653	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
o-Xylene	ND		0.00478	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Tetrahydrofuran	ND		0.00956	0.00242	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Ethyl ether	ND		0.00478	0.00251	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Tert-amyl methyl ether	ND		0.00478	0.00378	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Ethyl tert-butyl ether	ND		0.00478	0.00315	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
di-Isopropyl ether	ND		0.00478	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
tert-Butanol	ND		0.0956	0.0256	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,4-Dioxane	ND		0.0956	0.0297	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
trans-1,4-Dichloro-2-butene	ND		0.0239	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Ethanol	ND		0.956	0.0593	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
1,3-Dichloropropene, Total	ND		0.00478	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1
Xylenes, Total	ND		0.0143	0.00478	mg/Kg	☼	03/07/23 09:52	03/07/23 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/07/23 09:52*	*03/07/23 16:40*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 16:40*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 16:40*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.711	0.126	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
1,2,4-Trichlorobenzene	ND		0.711	0.163	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
1,2-Dichlorobenzene	ND		0.711	0.137	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
1,3-Dichlorobenzene	ND		0.711	0.172	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
1,4-Dichlorobenzene	ND		0.711	0.167	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
1-Methylnaphthalene	ND		0.144	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2,4,5-Trichlorophenol	ND		0.711	0.0814	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2,4,6-Trichlorophenol	ND		0.360	0.0879	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2,4-Dichlorophenol	ND		0.360	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2,4-Dimethylphenol	ND		0.711	0.104	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2,4-Dinitrophenol	ND		0.711	0.187	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0002'
Date Collected: 03/02/23 10:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-20
Matrix: Solid
Percent Solids: 92.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.360	0.0842	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2,6-Dinitrotoluene	ND		0.360	0.0842	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2-Chloronaphthalene	ND		0.711	0.164	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2-Chlorophenol	ND		0.360	0.147	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2-Methylnaphthalene	ND		0.144	0.106	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2-Methylphenol	ND		0.711	0.104	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2-Nitroaniline	ND		0.711	0.0676	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
2-Nitrophenol	ND		0.360	0.128	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
3 & 4 Methylphenol	ND		0.711	0.135	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
3,3'-Dichlorobenzidine	ND		0.711	0.117	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
3-Nitroaniline	ND		0.711	0.0635	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
4,6-Dinitro-2-methylphenol	ND		0.711	0.128	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
4-Bromophenyl phenyl ether	ND		0.711	0.0803	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
4-Chloro-3-methylphenol	ND		0.711	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
4-Chloroaniline	ND		0.360	0.0545	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
4-Chlorophenyl phenyl ether	ND		0.711	0.0760	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
4-Nitroaniline	ND		0.360	0.114	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
4-Nitrophenol	ND		0.711	0.248	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Acenaphthene	ND		0.144	0.115	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Acenaphthylene	ND		0.144	0.0944	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Acetophenone	ND		0.360	0.0877	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Aniline	ND		0.711	0.0545	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Anthracene	ND		0.144	0.0831	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Azobenzene/Diphenyldiazene	ND		0.711	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzidine	ND		1.42	0.210	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzo[a]anthracene	ND		0.144	0.0808	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzo[a]pyrene	ND		0.144	0.103	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzo[b]fluoranthene	ND		0.144	0.119	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzo[g,h,i]perylene	ND		0.144	0.112	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzo[k]fluoranthene	ND		0.144	0.112	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzoic acid	ND		0.711	0.489	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Benzyl alcohol	ND		0.711	0.129	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Bis(2-chloroethoxy)methane	ND		0.711	0.124	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Bis(2-chloroethyl)ether	ND		0.360	0.118	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
bis (2-chloroisopropyl) ether	ND		0.360	0.160	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Bis(2-ethylhexyl) phthalate	ND		0.360	0.0916	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Butyl benzyl phthalate	ND		0.711	0.0713	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Carbazole	ND		0.360	0.0941	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Chrysene	ND		0.144	0.0812	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Dibenz(a,h)anthracene	ND		0.144	0.110	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Dibenzofuran	ND		0.360	0.125	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Diethyl phthalate	ND		0.711	0.0780	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Dimethyl phthalate	ND		0.711	0.0926	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Di-n-butyl phthalate	ND		0.711	0.0760	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Di-n-octyl phthalate	ND		0.711	0.117	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Fluoranthene	ND		0.144	0.0842	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Fluorene	ND		0.144	0.131	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Hexachlorobenzene	ND		0.360	0.0997	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Hexachlorobutadiene	ND		0.360	0.179	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1

Client Sample ID: 2023-SB-03-0002' **Lab Sample ID: 620-10080-20**
Date Collected: 03/02/23 10:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.360	0.137	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Hexachloroethane	ND		0.360	0.141	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Indeno[1,2,3-cd]pyrene	ND		0.144	0.122	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Isophorone	ND		0.360	0.0984	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Naphthalene	ND		0.144	0.138	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Nitrobenzene	ND		0.360	0.166	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
N-Nitrosodimethylamine	ND		0.360	0.0944	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
N-Nitrosodi-n-propylamine	ND		0.360	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
N-Nitrosodiphenylamine	ND		0.711	0.0907	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Pentachloronitrobenzene	ND		0.711	0.112	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Pentachlorophenol	ND		0.711	0.291	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Phenanthrene	ND		0.144	0.0814	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Phenol	ND		0.711	0.146	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Pyrene	ND		0.144	0.0793	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1
Pyridine	ND		0.711	0.168	mg/Kg	☼	03/10/23 11:19	03/14/23 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/10/23 11:19*	*03/14/23 02:39*	*1*
2-Fluorophenol (Surr)	*85*		*15 - 110*	*03/10/23 11:19*	*03/14/23 02:39*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/10/23 11:19*	*03/14/23 02:39*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/10/23 11:19*	*03/14/23 02:39*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*15 - 110*	*03/10/23 11:19*	*03/14/23 02:39*	*1*
Terphenyl-d14	*73*		*30 - 130*	*03/10/23 11:19*	*03/14/23 02:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.247	0.126	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	**0.238**	**J**	0.247	0.106	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0494	0.00988	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
Ethylbenzene	ND		0.0494	0.00988	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
Methyl tert-butyl ether	ND		0.0494	0.00988	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
m,p-Xylene	ND		0.0988	0.00988	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
Naphthalene	ND		0.0494	0.0336	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
o-Xylene	ND		0.0494	0.00988	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
Toluene	ND		0.0494	0.00988	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
C5-C8 Aliphatics (unadjusted)	ND		0.247	0.126	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
C9-C10 Aromatics	**0.168**	**J**	0.247	0.0346	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1
C9-C12 Aliphatics (unadjusted)	**0.406**		0.247	0.106	mg/Kg	☼	03/06/23 10:00	03/06/23 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/06/23 10:00*	*03/06/23 21:51*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/06/23 10:00*	*03/06/23 21:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1
PCB-1221	ND		0.0208	0.00616	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1
PCB-1232	ND		0.0208	0.00577	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1

Client Sample ID: 2023-SB-03-0002' **Lab Sample ID: 620-10080-20**
Date Collected: 03/02/23 10:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1
PCB-1248	ND		0.0208	0.00651	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1
PCB-1254	**0.0502**		0.0208	0.0162	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1
PCB-1262	ND		0.0208	0.00486	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1
PCB-1260	ND		0.0208	0.00448	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1
PCB-1268	ND		0.0208	0.00444	mg/Kg	☼	03/09/23 15:17	03/11/23 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:20*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:20*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:20*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:20*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluoroheptanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorooctanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorononanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorodecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorotridecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorotetradecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorobutanesulfonic acid	ND		2.02	0.403	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorohexanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorooctanesulfonic acid	**0.286**	**J**	0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
NEtFOSAA	ND		2.02	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
NMeFOSAA	ND		2.02	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
10:2 FTS	ND		2.02	0.605	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluoropentanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluoroheptanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorononanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorodecanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.02	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorooctanesulfonamide	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorohexadecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorooctadecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorobutanoic acid	ND		2.02	0.806	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluoropentanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
NMeFOSE	ND		2.02	0.504	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
NMeFOSA	ND		2.02	0.504	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
NEtFOSE	ND		2.02	0.504	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
NEtFOSA	ND		2.02	0.504	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
HFPODA	ND		2.02	1.01	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
DONA	ND		3.02	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
9Cl-PF3ONS	ND		2.02	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
11Cl-PF3OUdS	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluorododecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
4:2 Fluorotelomer sulfonic acid	ND		2.02	0.605	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
Perfluoroundecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1

Client Sample ID: 2023-SB-03-0002' **Lab Sample ID: 620-10080-20**
Date Collected: 03/02/23 10:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.02	0.605	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1
8:2 Fluorotelomer sulfonic acid	ND		3.02	0.605	ug/Kg	☼	03/07/23 22:57	03/16/23 06:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*46*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
M2-8:2 FTS	*57*		*15 - 200*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
M2-6:2 FTS	*58*		*10 - 200*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C5 PFHxA	*61*		*10 - 174*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C4 PFHpA	*69*		*10 - 178*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C8 PFOA	*66*		*26 - 159*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C9 PFNA	*68*		*26 - 165*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C6 PFDA	*66*		*26 - 161*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C7 PFUnA	*68*		*12 - 173*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C2-PFDoDA	*68*		*11 - 166*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C2 PFTeDA	*70*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C3 PFBS	*83*		*27 - 179*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C3 PFHxS	*84*		*24 - 171*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C8 PFOS	*86*		*41 - 154*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
d3-NMeFOSAA	*6*	**5-*	*10 - 178*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
d5-NEtFOSAA	*7*	**5-*	*10 - 193*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C4 PFBA	*58*		*28 - 153*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C5 PFPeA	*58*		*24 - 161*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
d5-NEtPFOSA	*90*		*10 - 180*	*03/07/23 22:57*	*03/16/23 06:56*	*1*
13C3 HFPO-DA	*77*		*10 - 169*	*03/07/23 22:57*	*03/16/23 06:56*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluoroheptanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorooctanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorononanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorodecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorotridecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorotetradecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorobutanesulfonic acid	ND		2.14	0.427	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorohexanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorooctanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
NEtFOSAA	ND		2.14	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
NMeFOSAA	ND		2.14	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
10:2 FTS	ND		2.14	0.641	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluoropentanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluoroheptanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorononanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorodecanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.14	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorooctanesulfonamide	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1

Client Sample ID: 2023-SB-03-0002' **Lab Sample ID: 620-10080-20**
Date Collected: 03/02/23 10:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorooctadecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorobutanoic acid	ND		2.14	0.854	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluoropentanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
NMeFOSE	ND		2.14	0.534	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
NMeFOSA	ND		2.14	0.534	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
NEtFOSE	ND		2.14	0.534	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
NEtFOSA	ND		2.14	0.534	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
HFPODA	ND		2.14	1.07	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
DONA	ND		3.20	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
9Cl-PF3ONS	ND		2.14	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
11Cl-PF3OUdS	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluorododecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
4:2 Fluorotelomer sulfonic acid	ND		2.14	0.641	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
Perfluoroundecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
6:2 Fluorotelomer sulfonic acid	ND		2.14	0.641	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1
8:2 Fluorotelomer sulfonic acid	ND		3.20	0.641	ug/Kg	☼	03/20/23 00:33	03/21/23 06:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
M2-6:2 FTS	*96*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C5 PFHxA	*105*		*10 - 174*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C8 PFOA	*111*		*26 - 159*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C9 PFNA	*99*		*26 - 165*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C6 PFDA	*102*		*26 - 161*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C7 PFUnA	*106*		*12 - 173*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C2-PFDoDA	*104*		*11 - 166*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C2 PFTeDA	*109*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C3 PFBS	*123*		*27 - 179*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C3 PFHxS	*141*		*24 - 171*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C8 PFOS	*126*		*41 - 154*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
d3-NMeFOSAA	*9*	*5-	*10 - 178*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
d5-NEtFOSAA	*12*		*10 - 193*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C8 FOSA	*110*		*14 - 163*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C4 PFBA	*96*		*28 - 153*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C5 PFPeA	*92*		*24 - 161*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
d7-N-MeFOSE-M	*99*		*10 - 179*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
d3-NMePFOSA	*33*		*10 - 175*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
d5-NEtPFOSA	*35*		*10 - 180*	*03/20/23 00:33*	*03/21/23 06:21*	*1*
13C3 HFPO-DA	*99*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:21*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.53	1.54	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Arsenic	**2.43**	**J**	2.72	1.27	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Barium	**15.0**		0.453	0.136	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Beryllium	**0.316**	**J**	0.453	0.0906	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0002'

Date Collected: 03/02/23 10:05
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-20

Matrix: Solid
Percent Solids: 92.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.453	0.0906	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Chromium	**4.34**		1.36	0.317	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Lead	**2.89**		1.36	0.544	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Nickel	**2.51**		0.906	0.236	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Selenium	ND		4.53	1.36	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Silver	ND	^3+	0.906	0.362	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Thallium	ND		2.72	1.18	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Vanadium	**6.81**		0.906	0.390	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1
Zinc	**8.66**		1.81	0.725	mg/Kg	☼	03/08/23 13:50	03/09/23 15:22	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0626	0.0209	mg/Kg	☼	03/08/23 13:59	03/09/23 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.3**		0.1	0.1	%			03/03/23 09:45	1
Percent Solids (EPA Moisture)	**92.7**		0.1	0.1	%			03/03/23 09:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0204'
Date Collected: 03/02/23 10:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-21
Matrix: Solid
Percent Solids: 81.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00583	0.00380	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Acetone	ND		0.0583	0.0130	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Acrylonitrile	ND		0.00583	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Benzene	ND		0.00583	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Bromobenzene	ND		0.00583	0.00388	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Bromochloromethane	ND		0.00583	0.00331	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Bromodichloromethane	ND		0.00583	0.00428	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Bromoform	ND		0.00583	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Bromomethane	ND		0.0117	0.00726	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
2-Butanone (MEK)	ND		0.0117	0.00464	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
n-Butylbenzene	ND		0.0117	0.00624	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
sec-Butylbenzene	ND		0.00583	0.00470	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
tert-Butylbenzene	ND		0.00583	0.00459	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Carbon disulfide	ND		0.0117	0.00409	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Carbon tetrachloride	ND		0.00583	0.00367	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Chlorobenzene	ND		0.00583	0.00426	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Chloroethane	ND		0.0117	0.00428	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Chloroform	ND		0.00583	0.00391	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Chloromethane	ND		0.0117	0.00447	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
2-Chlorotoluene	ND		0.00583	0.00464	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
4-Chlorotoluene	ND		0.00583	0.00506	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2-Dibromo-3-Chloropropane	ND		0.0117	0.00494	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Dibromochloromethane	ND		0.00583	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2-Dibromoethane (EDB)	ND		0.00583	0.00418	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Dibromomethane	ND		0.00583	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2-Dichlorobenzene	ND		0.00583	0.00541	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,3-Dichlorobenzene	ND		0.00583	0.00467	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,4-Dichlorobenzene	ND		0.00583	0.00552	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Dichlorodifluoromethane (Freon 12)	ND		0.0117	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,1-Dichloroethane	ND		0.00583	0.00395	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2-Dichloroethane	ND		0.00583	0.00393	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,1-Dichloroethene	ND		0.00583	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
cis-1,2-Dichloroethene	ND		0.00583	0.00337	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
trans-1,2-Dichloroethene	ND		0.00583	0.00362	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2-Dichloropropane	ND		0.00583	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,3-Dichloropropane	ND		0.00583	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
2,2-Dichloropropane	ND		0.00583	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,1-Dichloropropene	ND		0.00583	0.00396	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
cis-1,3-Dichloropropene	ND		0.00583	0.00380	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
trans-1,3-Dichloropropene	ND		0.00583	0.00443	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Ethylbenzene	ND		0.00583	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Hexachlorobutadiene	ND		0.0117	0.00586	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
2-Hexanone (MBK)	ND		0.0117	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Isopropylbenzene	ND		0.00583	0.00440	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
4-Isopropyltoluene	ND		0.00583	0.00572	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Methyl tert-butyl ether	ND		0.00583	0.00336	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0117	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Methylene Chloride	ND		0.0117	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Naphthalene	ND		0.00583	0.00527	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1

Client Sample ID: 2023-SB-03-0204' **Lab Sample ID: 620-10080-21**
Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00583	0.00493	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Styrene	ND		0.00583	0.00451	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,1,1,2-Tetrachloroethane	ND		0.00583	0.00437	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,1,2,2-Tetrachloroethane	ND		0.00583	0.00534	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Tetrachloroethene	ND		0.00583	0.00324	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Toluene	ND		0.00583	0.00369	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2,3-Trichlorobenzene	ND		0.00583	0.00492	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2,4-Trichlorobenzene	ND		0.00583	0.00537	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,3,5-Trichlorobenzene	ND		0.00583	0.00553	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,1,1-Trichloroethane	ND		0.00583	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,1,2-Trichloroethane	ND		0.00583	0.00439	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Trichloroethene	ND		0.00583	0.00391	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00583	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2,3-Trichloropropane	ND		0.00583	0.00517	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,2,4-Trimethylbenzene	ND		0.00583	0.00493	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,3,5-Trimethylbenzene	ND		0.00583	0.00495	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Vinyl chloride	ND		0.00583	0.00355	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
m,p-Xylene	ND		0.00583	0.00796	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
o-Xylene	ND		0.00583	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Tetrahydrofuran	ND		0.0117	0.00295	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Ethyl ether	ND		0.00583	0.00306	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Tert-amyl methyl ether	ND		0.00583	0.00460	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Ethyl tert-butyl ether	ND		0.00583	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
di-Isopropyl ether	ND		0.00583	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
tert-Butanol	ND		0.117	0.0312	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,4-Dioxane	ND		0.117	0.0362	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
trans-1,4-Dichloro-2-butene	ND		0.0291	0.00430	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Ethanol	ND		1.17	0.0722	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
1,3-Dichloropropene, Total	ND		0.00583	0.00443	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1
Xylenes, Total	ND		0.0175	0.00583	mg/Kg	☼	03/07/23 09:52	03/07/23 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:06*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.398	0.0707	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
1,2,4-Trichlorobenzene	ND		0.398	0.0911	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
1,2-Dichlorobenzene	ND		0.398	0.0766	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
1,3-Dichlorobenzene	ND		0.398	0.0963	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
1,4-Dichlorobenzene	ND		0.398	0.0936	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
1-Methylnaphthalene	ND		0.0804	0.0675	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2,4,5-Trichlorophenol	ND		0.398	0.0455	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2,4,6-Trichlorophenol	ND		0.201	0.0492	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2,4-Dichlorophenol	ND		0.201	0.0801	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2,4-Dimethylphenol	ND		0.398	0.0583	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2,4-Dinitrophenol	ND		0.398	0.105	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0204'
Date Collected: 03/02/23 10:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-21
Matrix: Solid
Percent Solids: 81.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0471	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2,6-Dinitrotoluene	ND		0.201	0.0471	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2-Chloronaphthalene	ND		0.398	0.0919	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2-Chlorophenol	ND		0.201	0.0823	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2-Methylnaphthalene	ND		0.0804	0.0594	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2-Methylphenol	ND		0.398	0.0581	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2-Nitroaniline	ND		0.398	0.0378	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
2-Nitrophenol	ND		0.201	0.0715	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
3 & 4 Methylphenol	ND		0.398	0.0753	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
3,3'-Dichlorobenzidine	ND		0.398	0.0657	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
3-Nitroaniline	ND		0.398	0.0355	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
4,6-Dinitro-2-methylphenol	ND		0.398	0.0715	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
4-Bromophenyl phenyl ether	ND		0.398	0.0449	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
4-Chloro-3-methylphenol	ND		0.398	0.0778	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
4-Chloroaniline	ND		0.201	0.0305	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
4-Chlorophenyl phenyl ether	ND		0.398	0.0425	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
4-Nitroaniline	ND		0.201	0.0635	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
4-Nitrophenol	ND		0.398	0.139	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Acenaphthene	ND		0.0804	0.0641	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Acenaphthylene	ND		0.0804	0.0528	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Acetophenone	ND		0.201	0.0490	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Aniline	ND		0.398	0.0305	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Anthracene	ND		0.0804	0.0465	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Azobenzene/Diphenyldiazene	ND		0.398	0.0678	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzidine	ND		0.795	0.118	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzo[a]anthracene	ND		0.0804	0.0452	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzo[a]pyrene	ND		0.0804	0.0575	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzo[b]fluoranthene	ND		0.0804	0.0666	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzo[g,h,i]perylene	ND		0.0804	0.0628	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzo[k]fluoranthene	ND		0.0804	0.0625	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzoic acid	ND		0.398	0.274	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Benzyl alcohol	ND		0.398	0.0721	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Bis(2-chloroethoxy)methane	ND		0.398	0.0692	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Bis(2-chloroethyl)ether	ND		0.201	0.0658	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0895	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0512	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Butyl benzyl phthalate	ND		0.398	0.0399	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Carbazole	ND		0.201	0.0527	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Chrysene	ND		0.0804	0.0454	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Dibenz(a,h)anthracene	ND		0.0804	0.0613	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Dibenzofuran	ND		0.201	0.0696	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Diethyl phthalate	ND		0.398	0.0436	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Dimethyl phthalate	ND		0.398	0.0518	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Di-n-butyl phthalate	ND		0.398	0.0425	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Di-n-octyl phthalate	ND		0.398	0.0657	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Fluoranthene	ND		0.0804	0.0471	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Fluorene	ND		0.0804	0.0734	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Hexachlorobenzene	ND		0.201	0.0558	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1

Client Sample ID: 2023-SB-03-0204' **Lab Sample ID: 620-10080-21**
Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0769	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Hexachloroethane	ND		0.201	0.0790	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0804	0.0682	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Isophorone	ND		0.201	0.0551	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Naphthalene	ND		0.0804	0.0771	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Nitrobenzene	ND		0.201	0.0929	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
N-Nitrosodimethylamine	ND		0.201	0.0528	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0801	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
N-Nitrosodiphenylamine	ND		0.398	0.0507	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Pentachloronitrobenzene	ND		0.398	0.0628	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Pentachlorophenol	ND		0.398	0.163	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Phenanthrene	ND		0.0804	0.0455	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Phenol	ND		0.398	0.0819	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Pyrene	ND		0.0804	0.0443	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1
Pyridine	ND		0.398	0.0941	mg/Kg	☼	03/10/23 11:19	03/10/23 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/10/23 11:19*	*03/10/23 22:54*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/10/23 11:19*	*03/10/23 22:54*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*03/10/23 11:19*	*03/10/23 22:54*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/10/23 11:19*	*03/10/23 22:54*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*03/10/23 11:19*	*03/10/23 22:54*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/10/23 11:19*	*03/10/23 22:54*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.419	0.214	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.419	0.179	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0838	0.0168	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
Ethylbenzene	ND		0.0838	0.0168	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
Methyl tert-butyl ether	ND		0.0838	0.0168	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
m,p-Xylene	ND		0.168	0.0168	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
Naphthalene	ND		0.0838	0.0570	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
o-Xylene	ND		0.0838	0.0168	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
Toluene	ND		0.0838	0.0168	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
C5-C8 Aliphatics (unadjusted)	ND		0.419	0.214	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
C9-C10 Aromatics	ND		0.419	0.0586	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1
C9-C12 Aliphatics (unadjusted)	ND		0.419	0.179	mg/Kg	☼	03/06/23 10:00	03/06/23 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/06/23 10:00*	*03/06/23 22:31*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/06/23 10:00*	*03/06/23 22:31*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0243	0.0175	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1
PCB-1221	ND		0.0243	0.00720	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1
PCB-1232	ND		0.0243	0.00674	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1

Client Sample ID: 2023-SB-03-0204' **Lab Sample ID: 620-10080-21**
Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0243	0.00385	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1
PCB-1248	ND		0.0243	0.00761	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1
PCB-1254	ND		0.0243	0.0189	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1
PCB-1262	ND		0.0243	0.00567	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1
PCB-1260	ND		0.0243	0.00524	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1
PCB-1268	ND		0.0243	0.00519	mg/Kg	☼	03/09/23 15:17	03/11/23 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:39*	*1*
Tetrachloro-m-xylene	*108*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:39*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:39*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:39*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluoroheptanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorooctanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorononanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorodecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorotridecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorotetradecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorobutanesulfonic acid	ND		2.37	0.475	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorohexanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorooctanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
NEtFOSAA	ND		2.37	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
NMeFOSAA	ND		2.37	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
10:2 FTS	ND		2.37	0.712	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluoropentanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluoroheptanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorononanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorodecanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.37	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorooctanesulfonamide	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorohexadecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorooctadecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorobutanoic acid	ND		2.37	0.949	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluoropentanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
NMeFOSE	ND		2.37	0.593	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
NMeFOSA	ND		2.37	0.593	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
NEtFOSE	ND		2.37	0.593	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
NEtFOSA	ND		2.37	0.593	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
HFPODA	ND		2.37	1.19	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
DONA	ND		3.56	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
9Cl-PF3ONS	ND		2.37	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
11Cl-PF3OUdS	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluorododecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
4:2 Fluorotelomer sulfonic acid	ND		2.37	0.712	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
Perfluoroundecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-03-0204' **Lab Sample ID: 620-10080-21**
Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.37	0.712	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1
8:2 Fluorotelomer sulfonic acid	ND		3.56	0.712	ug/Kg	☼	03/07/23 22:57	03/16/23 07:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*36*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
M2-8:2 FTS	*47*		*15 - 200*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
M2-6:2 FTS	*40*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C5 PFHxA	*48*		*10 - 174*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C4 PFHpA	*48*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C8 PFOA	*49*		*26 - 159*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C9 PFNA	*49*		*26 - 165*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C6 PFDA	*49*		*26 - 161*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C7 PFUnA	*53*		*12 - 173*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C2-PFDoDA	*49*		*11 - 166*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C2 PFTeDA	*57*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C3 PFBS	*67*		*27 - 179*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C3 PFHxS	*69*		*24 - 171*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C8 PFOS	*70*		*41 - 154*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
d3-NMeFOSAA	*7*	*5-	*10 - 178*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
d5-NEtFOSAA	*9*	*5-	*10 - 193*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C8 FOSA	*105*		*14 - 163*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C4 PFBA	*45*		*28 - 153*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C5 PFPeA	*44*		*24 - 161*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
d7-N-MeFOSE-M	*101*		*10 - 179*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
d9-N-EtFOSE-M	*98*		*10 - 185*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/07/23 22:57*	*03/16/23 07:07*	*1*
13C3 HFPO-DA	*53*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluoroheptanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorooctanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorononanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorodecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorotridecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorotetradecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorobutanesulfonic acid	ND		2.28	0.457	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorohexanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorooctanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
10:2 FTS	ND		2.28	0.685	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluoropentanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluoroheptanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorononanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorodecanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorooctanesulfonamide	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1

Client Sample ID: 2023-SB-03-0204' **Lab Sample ID: 620-10080-21**
Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorooctadecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorobutanoic acid	ND		2.28	0.914	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluoropentanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
NMeFOSE	ND		2.28	0.571	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
NMeFOSA	ND		2.28	0.571	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
NEtFOSE	ND		2.28	0.571	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
NEtFOSA	ND		2.28	0.571	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
DONA	ND		3.43	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
11Cl-PF3OUdS	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluorododecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.685	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
Perfluoroundecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.685	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1
8:2 Fluorotelomer sulfonic acid	ND		3.43	0.685	ug/Kg	☼	03/20/23 00:33	03/21/23 06:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*40*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
M2-8:2 FTS	*43*		*15 - 200*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
M2-6:2 FTS	*46*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C5 PFHxA	*52*		*10 - 174*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C4 PFHpA	*56*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C8 PFOA	*56*		*26 - 159*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C9 PFNA	*46*		*26 - 165*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C6 PFDA	*52*		*26 - 161*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C7 PFUnA	*55*		*12 - 173*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C2-PFDoDA	*52*		*11 - 166*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C2 PFTeDA	*54*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C3 PFBS	*73*		*27 - 179*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C3 PFHxS	*82*		*24 - 171*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C8 PFOS	*70*		*41 - 154*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
d3-NMeFOSAA	*9*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
d5-NEtFOSAA	*11*		*10 - 193*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C8 FOSA	*129*		*14 - 163*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C4 PFBA	*47*		*28 - 153*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C5 PFPeA	*46*		*24 - 161*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
d7-N-MeFOSE-M	*129*		*10 - 179*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
d3-NMePFOSA	*102*		*10 - 175*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
d9-N-EtFOSE-M	*129*		*10 - 185*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
d5-NEtPFOSA	*110*		*10 - 180*	*03/20/23 00:33*	*03/21/23 06:32*	*1*
13C3 HFPO-DA	*49*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.46	1.52	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Arsenic	**4.28**		2.68	1.25	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Barium	**30.8**		0.446	0.134	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Beryllium	**0.437**	**J**	0.446	0.0892	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0204'

Date Collected: 03/02/23 10:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-21

Matrix: Solid
Percent Solids: 81.8

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.446	0.0892	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Chromium	**7.62**		1.34	0.312	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Lead	**3.35**		1.34	0.535	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Nickel	**3.44**		0.892	0.232	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Selenium	ND		4.46	1.34	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Silver	ND	^3+	0.892	0.357	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Thallium	ND		2.68	1.16	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Vanadium	**12.6**		0.892	0.384	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1
Zinc	**14.4**		1.78	0.714	mg/Kg	☼	03/08/23 13:50	03/09/23 14:57	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0698	0.0233	mg/Kg	☼	03/08/23 13:59	03/09/23 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.2**		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	**81.8**		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0406'
Date Collected: 03/02/23 10:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-22
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00531	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Acetone	ND		0.0531	0.0119	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Acrylonitrile	ND		0.00531	0.00318	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Benzene	ND		0.00531	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Bromobenzene	ND		0.00531	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Bromochloromethane	ND		0.00531	0.00301	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Bromodichloromethane	ND		0.00531	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Bromoform	ND		0.00531	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Bromomethane	ND		0.0106	0.00661	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
2-Butanone (MEK)	ND		0.0106	0.00422	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
n-Butylbenzene	ND		0.0106	0.00569	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
sec-Butylbenzene	ND		0.00531	0.00428	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
tert-Butylbenzene	ND		0.00531	0.00418	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Carbon disulfide	ND		0.0106	0.00372	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Carbon tetrachloride	ND		0.00531	0.00334	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Chlorobenzene	ND		0.00531	0.00388	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Chloroethane	ND		0.0106	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Chloroform	ND		0.00531	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Chloromethane	ND		0.0106	0.00408	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
2-Chlorotoluene	ND		0.00531	0.00422	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
4-Chlorotoluene	ND		0.00531	0.00461	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Dibromochloromethane	ND		0.00531	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2-Dibromoethane (EDB)	ND		0.00531	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Dibromomethane	ND		0.00531	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2-Dichlorobenzene	ND		0.00531	0.00492	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,3-Dichlorobenzene	ND		0.00531	0.00426	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,4-Dichlorobenzene	ND		0.00531	0.00503	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Dichlorodifluoromethane (Freon 12)	ND		0.0106	0.00284	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,1-Dichloroethane	ND		0.00531	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2-Dichloroethane	ND		0.00531	0.00358	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,1-Dichloroethene	ND		0.00531	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
cis-1,2-Dichloroethene	ND		0.00531	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
trans-1,2-Dichloroethene	ND		0.00531	0.00330	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2-Dichloropropane	ND		0.00531	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,3-Dichloropropane	ND		0.00531	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
2,2-Dichloropropane	ND		0.00531	0.00366	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,1-Dichloropropene	ND		0.00531	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
cis-1,3-Dichloropropene	ND		0.00531	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
trans-1,3-Dichloropropene	ND		0.00531	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Ethylbenzene	ND		0.00531	0.00379	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Hexachlorobutadiene	ND		0.0106	0.00534	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
2-Hexanone (MBK)	ND		0.0106	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Isopropylbenzene	ND		0.00531	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
4-Isopropyltoluene	ND		0.00531	0.00521	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Methyl tert-butyl ether	ND		0.00531	0.00306	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Methylene Chloride	ND		0.0106	0.00284	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Naphthalene	ND		0.00531	0.00480	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1

Client Sample ID: 2023-SB-03-0406' **Lab Sample ID: 620-10080-22**
Date Collected: 03/02/23 10:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00531	0.00449	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Styrene	ND		0.00531	0.00411	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,1,1,2-Tetrachloroethane	ND		0.00531	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,1,2,2-Tetrachloroethane	ND		0.00531	0.00486	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Tetrachloroethene	ND		0.00531	0.00295	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Toluene	ND		0.00531	0.00336	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2,3-Trichlorobenzene	ND		0.00531	0.00448	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2,4-Trichlorobenzene	ND		0.00531	0.00489	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,3,5-Trichlorobenzene	ND		0.00531	0.00504	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,1,1-Trichloroethane	ND		0.00531	0.00362	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,1,2-Trichloroethane	ND		0.00531	0.00400	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Trichloroethene	ND		0.00531	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Trichlorofluoromethane (Freon 11)	ND		0.00531	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2,3-Trichloropropane	ND		0.00531	0.00471	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,2,4-Trimethylbenzene	ND		0.00531	0.00449	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,3,5-Trimethylbenzene	ND		0.00531	0.00451	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Vinyl chloride	ND		0.00531	0.00324	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
m,p-Xylene	ND		0.00531	0.00725	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
o-Xylene	ND		0.00531	0.00387	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Ethyl ether	ND		0.00531	0.00279	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Tert-amyl methyl ether	ND		0.00531	0.00419	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Ethyl tert-butyl ether	ND		0.00531	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
di-Isopropyl ether	ND		0.00531	0.00379	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
tert-Butanol	ND		0.106	0.0284	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,4-Dioxane	ND		0.106	0.0330	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
trans-1,4-Dichloro-2-butene	ND		0.0265	0.00392	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Ethanol	ND		1.06	0.0658	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
1,3-Dichloropropene, Total	ND		0.00531	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1
Xylenes, Total	ND		0.0159	0.00531	mg/Kg	☼	03/07/23 09:52	03/07/23 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:32*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:32*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 17:32*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.383	0.0681	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
1,2,4-Trichlorobenzene	ND		0.383	0.0877	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
1,2-Dichlorobenzene	ND		0.383	0.0738	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
1,3-Dichlorobenzene	ND		0.383	0.0927	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
1,4-Dichlorobenzene	ND		0.383	0.0901	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
1-Methylnaphthalene	ND		0.0774	0.0650	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2,4,5-Trichlorophenol	ND		0.383	0.0438	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2,4,6-Trichlorophenol	ND		0.194	0.0473	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2,4-Dichlorophenol	ND		0.194	0.0771	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2,4-Dimethylphenol	ND		0.383	0.0561	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2,4-Dinitrophenol	ND		0.383	0.101	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0406'
Date Collected: 03/02/23 10:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-22
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.194	0.0454	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2,6-Dinitrotoluene	ND		0.194	0.0454	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2-Chloronaphthalene	ND		0.383	0.0885	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2-Chlorophenol	ND		0.194	0.0792	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2-Methylnaphthalene	ND		0.0774	0.0572	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2-Methylphenol	ND		0.383	0.0559	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2-Nitroaniline	ND		0.383	0.0364	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
2-Nitrophenol	ND		0.194	0.0688	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
3 & 4 Methylphenol	ND		0.383	0.0725	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
3,3'-Dichlorobenzidine	ND		0.383	0.0632	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
3-Nitroaniline	ND		0.383	0.0342	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
4,6-Dinitro-2-methylphenol	ND		0.383	0.0688	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
4-Bromophenyl phenyl ether	ND		0.383	0.0433	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
4-Chloro-3-methylphenol	ND		0.383	0.0749	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
4-Chloroaniline	ND		0.194	0.0293	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
4-Chlorophenyl phenyl ether	ND		0.383	0.0409	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
4-Nitroaniline	ND		0.194	0.0611	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
4-Nitrophenol	ND		0.383	0.133	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Acenaphthene	ND		0.0774	0.0617	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Acenaphthylene	ND		0.0774	0.0508	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Acetophenone	ND		0.194	0.0472	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Aniline	ND		0.383	0.0293	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Anthracene	ND		0.0774	0.0448	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Azobenzene/Diphenyldiazene	ND		0.383	0.0653	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzidine	ND		0.766	0.113	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzo[a]anthracene	ND		0.0774	0.0435	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzo[a]pyrene	ND		0.0774	0.0553	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzo[b]fluoranthene	ND		0.0774	0.0642	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzo[g,h,i]perylene	ND		0.0774	0.0604	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzo[k]fluoranthene	ND		0.0774	0.0602	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzoic acid	ND		0.383	0.263	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Benzyl alcohol	ND		0.383	0.0694	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Bis(2-chloroethoxy)methane	ND		0.383	0.0666	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Bis(2-chloroethyl)ether	ND		0.194	0.0633	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
bis (2-chloroisopropyl) ether	ND		0.194	0.0862	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Bis(2-ethylhexyl) phthalate	ND		0.194	0.0493	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Butyl benzyl phthalate	ND		0.383	0.0384	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Carbazole	ND		0.194	0.0507	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Chrysene	ND		0.0774	0.0437	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Dibenz(a,h)anthracene	ND		0.0774	0.0590	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Dibenzofuran	ND		0.194	0.0671	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Diethyl phthalate	ND		0.383	0.0420	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Dimethyl phthalate	ND		0.383	0.0499	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Di-n-butyl phthalate	ND		0.383	0.0409	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Di-n-octyl phthalate	ND		0.383	0.0632	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Fluoranthene	ND		0.0774	0.0454	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Fluorene	ND		0.0774	0.0706	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Hexachlorobenzene	ND		0.194	0.0537	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Hexachlorobutadiene	ND		0.194	0.0966	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1

Client Sample ID: 2023-SB-03-0406' **Lab Sample ID: 620-10080-22**
Date Collected: 03/02/23 10:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.194	0.0740	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Hexachloroethane	ND		0.194	0.0761	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Indeno[1,2,3-cd]pyrene	ND		0.0774	0.0657	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Isophorone	ND		0.194	0.0530	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Naphthalene	ND		0.0774	0.0742	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Nitrobenzene	ND		0.194	0.0894	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
N-Nitrosodimethylamine	ND		0.194	0.0508	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
N-Nitrosodi-n-propylamine	ND		0.194	0.0771	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
N-Nitrosodiphenylamine	ND		0.383	0.0488	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Pentachloronitrobenzene	ND		0.383	0.0604	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Pentachlorophenol	ND		0.383	0.157	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Phenanthrene	ND		0.0774	0.0438	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Phenol	ND		0.383	0.0789	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Pyrene	ND		0.0774	0.0427	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1
Pyridine	ND		0.383	0.0906	mg/Kg	☼	03/10/23 11:19	03/14/23 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/10/23 11:19*	*03/14/23 03:07*	*1*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/10/23 11:19*	*03/14/23 03:07*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*03/10/23 11:19*	*03/14/23 03:07*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/10/23 11:19*	*03/14/23 03:07*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/10/23 11:19*	*03/14/23 03:07*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/10/23 11:19*	*03/14/23 03:07*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.271	0.139	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.271	0.116	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
Ethylbenzene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
Methyl tert-butyl ether	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
m,p-Xylene	ND		0.108	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
Naphthalene	ND		0.0542	0.0369	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
o-Xylene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
Toluene	ND		0.0542	0.0108	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
C5-C8 Aliphatics (unadjusted)	ND		0.271	0.139	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
C9-C10 Aromatics	ND		0.271	0.0379	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1
C9-C12 Aliphatics (unadjusted)	ND		0.271	0.116	mg/Kg	☼	03/06/23 10:00	03/06/23 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/06/23 10:00*	*03/06/23 23:10*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/06/23 10:00*	*03/06/23 23:10*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0231	0.0166	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1
PCB-1221	ND		0.0231	0.00681	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1
PCB-1232	ND		0.0231	0.00639	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1

Client Sample ID: 2023-SB-03-0406' **Lab Sample ID: 620-10080-22**
Date Collected: 03/02/23 10:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0231	0.00364	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1
PCB-1248	ND		0.0231	0.00720	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1
PCB-1254	ND		0.0231	0.0179	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1
PCB-1262	ND		0.0231	0.00537	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1
PCB-1260	ND		0.0231	0.00496	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1
PCB-1268	ND		0.0231	0.00491	mg/Kg	☼	03/09/23 15:17	03/11/23 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:58*	*1*
Tetrachloro-m-xylene	*109*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:58*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:58*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*30 - 150*	*03/09/23 15:17*	*03/11/23 11:58*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluoroheptanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorooctanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorononanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorodecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorotridecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorotetradecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorobutanesulfonic acid	ND		2.28	0.456	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorohexanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorooctanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
10:2 FTS	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluoropentanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluoroheptanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorononanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorodecanesulfonic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorooctanesulfonamide	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorohexadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorooctadecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorobutanoic acid	ND		2.28	0.912	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluoropentanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
NMeFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
NMeFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
NEtFOSE	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
NEtFOSA	ND		2.28	0.570	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
11Cl-PF3OUdS	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluorododecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
Perfluoroundecanoic acid	ND		0.684	0.228	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1

Client Sample ID: 2023-SB-03-0406' **Lab Sample ID: 620-10080-22**
Date Collected: 03/02/23 10:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.684	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.684	ug/Kg	☼	03/07/23 22:57	03/16/23 07:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
M2-8:2 FTS	*82*		*15 - 200*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
M2-6:2 FTS	*84*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C5 PFHxA	*89*		*10 - 174*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C4 PFHpA	*88*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C8 PFOA	*88*		*26 - 159*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C9 PFNA	*86*		*26 - 165*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C6 PFDA	*86*		*26 - 161*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C7 PFUnA	*90*		*12 - 173*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C2-PFDoDA	*93*		*11 - 166*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C2 PFTeDA	*94*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C3 PFBS	*100*		*27 - 179*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C3 PFHxS	*99*		*24 - 171*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
d3-NMeFOSAA	*30*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
d5-NEtFOSAA	*34*		*10 - 193*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C8 FOSA	*98*		*14 - 163*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C4 PFBA	*87*		*28 - 153*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
d7-N-MeFOSE-M	*91*		*10 - 179*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
d3-NMePFOSA	*30*		*10 - 175*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
d5-NEtPFOSA	*31*		*10 - 180*	*03/07/23 22:57*	*03/16/23 07:18*	*1*
13C3 HFPO-DA	*85*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:18*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.49	1.87	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Arsenic	**3.03**	**J**	3.29	1.54	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Barium	**18.5**		0.549	0.165	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Beryllium	**0.257**	**J**	0.549	0.110	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Cadmium	ND		0.549	0.110	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Chromium	**5.02**		1.65	0.384	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Lead	**2.59**		1.65	0.658	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Nickel	**1.97**		1.10	0.285	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Selenium	ND		5.49	1.65	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Silver	ND	^3+	1.10	0.439	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Thallium	ND		3.29	1.43	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Vanadium	**7.81**		1.10	0.472	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1
Zinc	**9.61**		2.19	0.878	mg/Kg	☼	03/08/23 13:50	03/09/23 14:34	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0671	0.0224	mg/Kg	☼	03/08/23 13:59	03/09/23 08:43	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-03-0406' **Lab Sample ID: 620-10080-22**
Date Collected: 03/02/23 10:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	85.2		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0608'
Date Collected: 03/02/23 10:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-23
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00482	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Acetone	ND		0.0482	0.0108	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Acrylonitrile	ND		0.00482	0.00289	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Benzene	ND		0.00482	0.00322	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Bromobenzene	ND		0.00482	0.00321	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Bromochloromethane	ND		0.00482	0.00274	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Bromodichloromethane	ND		0.00482	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Bromoform	ND		0.00482	0.00368	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Bromomethane	ND		0.00964	0.00601	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
2-Butanone (MEK)	ND		0.00964	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
n-Butylbenzene	ND		0.00964	0.00517	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
sec-Butylbenzene	ND		0.00482	0.00388	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
tert-Butylbenzene	ND		0.00482	0.00380	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Carbon disulfide	ND		0.00964	0.00338	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Carbon tetrachloride	ND		0.00482	0.00304	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Chlorobenzene	ND		0.00482	0.00353	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Chloroethane	ND		0.00964	0.00354	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Chloroform	ND		0.00482	0.00324	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Chloromethane	ND		0.00964	0.00370	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
2-Chlorotoluene	ND		0.00482	0.00384	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
4-Chlorotoluene	ND		0.00482	0.00418	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2-Dibromo-3-Chloropropane	ND		0.00964	0.00409	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Dibromochloromethane	ND		0.00482	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2-Dibromoethane (EDB)	ND		0.00482	0.00346	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Dibromomethane	ND		0.00482	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2-Dichlorobenzene	ND		0.00482	0.00447	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,3-Dichlorobenzene	ND		0.00482	0.00387	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,4-Dichlorobenzene	ND		0.00482	0.00457	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Dichlorodifluoromethane (Freon 12)	ND		0.00964	0.00258	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,1-Dichloroethane	ND		0.00482	0.00327	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2-Dichloroethane	ND		0.00482	0.00325	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,1-Dichloroethene	ND		0.00482	0.00295	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
cis-1,2-Dichloroethene	ND		0.00482	0.00279	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
trans-1,2-Dichloroethene	ND		0.00482	0.00300	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2-Dichloropropane	ND		0.00482	0.00319	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,3-Dichloropropane	ND		0.00482	0.00368	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
2,2-Dichloropropane	ND		0.00482	0.00333	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,1-Dichloropropene	ND		0.00482	0.00328	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
cis-1,3-Dichloropropene	ND		0.00482	0.00314	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
trans-1,3-Dichloropropene	ND		0.00482	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Ethylbenzene	ND		0.00482	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Hexachlorobutadiene	ND		0.00964	0.00485	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
2-Hexanone (MBK)	ND		0.00964	0.00283	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Isopropylbenzene	ND		0.00482	0.00364	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
4-Isopropyltoluene	ND		0.00482	0.00473	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Methyl tert-butyl ether	ND		0.00482	0.00278	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
4-Methyl-2-pentanone (MIBK)	ND		0.00964	0.00311	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Methylene Chloride	ND		0.00964	0.00258	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Naphthalene	ND		0.00482	0.00436	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1

Client Sample ID: 2023-SB-03-0608' **Lab Sample ID: 620-10080-23**
Date Collected: 03/02/23 10:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00482	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Styrene	ND		0.00482	0.00373	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,1,1,2-Tetrachloroethane	ND		0.00482	0.00361	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,1,2,2-Tetrachloroethane	ND		0.00482	0.00442	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Tetrachloroethene	ND		0.00482	0.00268	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Toluene	ND		0.00482	0.00306	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2,3-Trichlorobenzene	ND		0.00482	0.00407	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2,4-Trichlorobenzene	ND		0.00482	0.00444	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,3,5-Trichlorobenzene	ND		0.00482	0.00458	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,1,1-Trichloroethane	ND		0.00482	0.00329	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,1,2-Trichloroethane	ND		0.00482	0.00363	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Trichloroethene	ND		0.00482	0.00324	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Trichlorofluoromethane (Freon 11)	ND		0.00482	0.00368	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2,3-Trichloropropane	ND		0.00482	0.00428	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,2,4-Trimethylbenzene	ND		0.00482	0.00408	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,3,5-Trimethylbenzene	ND		0.00482	0.00410	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Vinyl chloride	ND		0.00482	0.00294	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
m,p-Xylene	ND		0.00482	0.00658	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
o-Xylene	ND		0.00482	0.00352	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Tetrahydrofuran	ND		0.00964	0.00244	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Ethyl ether	ND		0.00482	0.00254	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Tert-amyl methyl ether	ND		0.00482	0.00381	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Ethyl tert-butyl ether	ND		0.00482	0.00317	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
di-Isopropyl ether	ND		0.00482	0.00344	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
tert-Butanol	ND		0.0964	0.0258	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,4-Dioxane	ND		0.0964	0.0300	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
trans-1,4-Dichloro-2-butene	ND		0.0241	0.00356	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Ethanol	ND		0.964	0.0598	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
1,3-Dichloropropene, Total	ND		0.00482	0.00366	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1
Xylenes, Total	ND		0.0145	0.00482	mg/Kg	☼	03/08/23 10:32	03/08/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:29*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:29*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 16:29*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.409	0.0728	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
1,2,4-Trichlorobenzene	ND		0.409	0.0937	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
1,2-Dichlorobenzene	ND		0.409	0.0789	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
1,3-Dichlorobenzene	ND		0.409	0.0991	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
1,4-Dichlorobenzene	ND		0.409	0.0963	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
1-Methylnaphthalene	ND		0.0827	0.0694	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2,4,5-Trichlorophenol	ND		0.409	0.0469	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2,4,6-Trichlorophenol	ND		0.207	0.0506	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2,4-Dichlorophenol	ND		0.207	0.0825	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2,4-Dimethylphenol	ND		0.409	0.0600	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2,4-Dinitrophenol	ND		0.409	0.108	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0608'
Date Collected: 03/02/23 10:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-23
Matrix: Solid
Percent Solids: 80.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.207	0.0485	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2,6-Dinitrotoluene	ND		0.207	0.0485	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2-Chloronaphthalene	ND		0.409	0.0946	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2-Chlorophenol	ND		0.207	0.0847	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2-Methylnaphthalene	ND		0.0827	0.0611	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2-Methylphenol	ND		0.409	0.0598	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2-Nitroaniline	ND		0.409	0.0389	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
2-Nitrophenol	ND		0.207	0.0735	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
3 & 4 Methylphenol	ND		0.409	0.0775	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
3,3'-Dichlorobenzidine	ND		0.409	0.0676	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
3-Nitroaniline	ND		0.409	0.0366	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
4,6-Dinitro-2-methylphenol	ND		0.409	0.0735	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
4-Bromophenyl phenyl ether	ND		0.409	0.0463	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
4-Chloro-3-methylphenol	ND		0.409	0.0801	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
4-Chloroaniline	ND		0.207	0.0314	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
4-Chlorophenyl phenyl ether	ND		0.409	0.0438	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
4-Nitroaniline	ND		0.207	0.0653	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
4-Nitrophenol	ND		0.409	0.143	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Acenaphthene	ND		0.0827	0.0660	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Acenaphthylene	ND		0.0827	0.0543	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Acetophenone	ND		0.207	0.0505	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Aniline	ND		0.409	0.0314	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Anthracene	ND		0.0827	0.0479	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Azobenzene/Diphenyldiazene	ND		0.409	0.0698	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzidine	ND		0.818	0.121	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzo[a]anthracene	ND		0.0827	0.0465	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzo[a]pyrene	ND		0.0827	0.0591	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzo[b]fluoranthene	ND		0.0827	0.0686	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzo[g,h,i]perylene	ND		0.0827	0.0646	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzo[k]fluoranthene	ND		0.0827	0.0644	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzoic acid	ND		0.409	0.281	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Benzyl alcohol	ND		0.409	0.0742	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Bis(2-chloroethoxy)methane	ND		0.409	0.0712	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Bis(2-chloroethyl)ether	ND		0.207	0.0677	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
bis (2-chloroisopropyl) ether	ND		0.207	0.0921	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Bis(2-ethylhexyl) phthalate	ND		0.207	0.0527	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Butyl benzyl phthalate	ND		0.409	0.0410	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Carbazole	ND		0.207	0.0542	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Chrysene	ND		0.0827	0.0467	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Dibenz(a,h)anthracene	ND		0.0827	0.0631	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Dibenzofuran	ND		0.207	0.0717	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Diethyl phthalate	ND		0.409	0.0449	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Dimethyl phthalate	ND		0.409	0.0533	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Di-n-butyl phthalate	ND		0.409	0.0438	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Di-n-octyl phthalate	ND		0.409	0.0676	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Fluoranthene	ND		0.0827	0.0485	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Fluorene	ND		0.0827	0.0755	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Hexachlorobenzene	ND		0.207	0.0574	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Hexachlorobutadiene	ND		0.207	0.103	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1

Client Sample ID: 2023-SB-03-0608' **Lab Sample ID: 620-10080-23**
Date Collected: 03/02/23 10:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.207	0.0791	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Hexachloroethane	ND		0.207	0.0813	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0827	0.0702	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Isophorone	ND		0.207	0.0567	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Naphthalene	ND		0.0827	0.0794	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Nitrobenzene	ND		0.207	0.0956	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
N-Nitrosodimethylamine	ND		0.207	0.0543	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
N-Nitrosodi-n-propylamine	ND		0.207	0.0825	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
N-Nitrosodiphenylamine	ND		0.409	0.0522	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Pentachloronitrobenzene	ND		0.409	0.0646	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Pentachlorophenol	ND		0.409	0.167	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Phenanthrene	ND		0.0827	0.0469	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Phenol	ND		0.409	0.0843	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Pyrene	ND		0.0827	0.0456	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1
Pyridine	ND		0.409	0.0968	mg/Kg	☼	03/10/23 11:19	03/10/23 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*30 - 130*	*03/10/23 11:19*	*03/10/23 23:22*	*1*
2-Fluorophenol (Surr)	*116*	*S1+*	*15 - 110*	*03/10/23 11:19*	*03/10/23 23:22*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/10/23 11:19*	*03/10/23 23:22*	*1*
Phenol-d5 (Surr)	*93*		*15 - 110*	*03/10/23 11:19*	*03/10/23 23:22*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*15 - 110*	*03/10/23 11:19*	*03/10/23 23:22*	*1*
Terphenyl-d14	*98*		*30 - 130*	*03/10/23 11:19*	*03/10/23 23:22*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.259	0.133	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.259	0.111	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
Ethylbenzene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
Methyl tert-butyl ether	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
Naphthalene	ND		0.0518	0.0352	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
o-Xylene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
Toluene	ND		0.0518	0.0104	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
C5-C8 Aliphatics (unadjusted)	ND		0.259	0.133	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
C9-C10 Aromatics	ND		0.259	0.0362	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1
C9-C12 Aliphatics (unadjusted)	ND		0.259	0.111	mg/Kg	☼	03/06/23 10:00	03/07/23 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/06/23 10:00*	*03/07/23 00:29*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/06/23 10:00*	*03/07/23 00:29*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0247	0.0178	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1
PCB-1221	ND		0.0247	0.00729	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1
PCB-1232	ND		0.0247	0.00683	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1

Client Sample ID: 2023-SB-03-0608' **Lab Sample ID: 620-10080-23**
Date Collected: 03/02/23 10:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0247	0.00390	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1
PCB-1248	ND		0.0247	0.00770	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1
PCB-1254	ND		0.0247	0.0192	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1
PCB-1262	ND		0.0247	0.00574	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1
PCB-1260	ND		0.0247	0.00530	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1
PCB-1268	ND		0.0247	0.00525	mg/Kg	☼	03/09/23 15:17	03/11/23 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:17*	*1*
Tetrachloro-m-xylene	*91*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:17*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:17*	*1*
DCB Decachlorobiphenyl (Surr)	*114*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:17*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluoroheptanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorooctanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorononanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorodecanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorotridecanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorotetradecanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorobutanesulfonic acid	ND		2.38	0.477	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorohexanesulfonic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorooctanesulfonic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
NEtFOSAA	ND		2.38	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
NMeFOSAA	ND		2.38	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
10:2 FTS	ND		2.38	0.715	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluoropentanesulfonic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluoroheptanesulfonic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorononanesulfonic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorodecanesulfonic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.38	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorooctanesulfonamide	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorohexadecanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorooctadecanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorobutanoic acid	ND		2.38	0.954	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluoropentanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
NMeFOSE	ND		2.38	0.596	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
NMeFOSA	ND		2.38	0.596	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
NEtFOSE	ND		2.38	0.596	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
NEtFOSA	ND		2.38	0.596	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
HFPODA	ND		2.38	1.19	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
DONA	ND		3.58	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
9Cl-PF3ONS	ND		2.38	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
11Cl-PF3OUdS	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluorododecanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
4:2 Fluorotelomer sulfonic acid	ND		2.38	0.715	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
Perfluoroundecanoic acid	ND		0.715	0.238	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1

Client Sample ID: 2023-SB-03-0608' **Lab Sample ID: 620-10080-23**
Date Collected: 03/02/23 10:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.38	0.715	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1
8:2 Fluorotelomer sulfonic acid	ND		3.58	0.715	ug/Kg	☼	03/07/23 22:57	03/16/23 07:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
M2-6:2 FTS	*75*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C4 PFHpA	*93*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C8 PFOA	*93*		*26 - 159*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C9 PFNA	*99*		*26 - 165*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C6 PFDA	*88*		*26 - 161*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C7 PFUnA	*91*		*12 - 173*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C2 PFTeDA	*98*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C3 PFBS	*98*		*27 - 179*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C3 PFHxS	*101*		*24 - 171*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
d5-NEtFOSAA	*19*		*10 - 193*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C8 FOSA	*101*		*14 - 163*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C4 PFBA	*90*		*28 - 153*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C5 PFPeA	*86*		*24 - 161*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
d9-N-EtFOSE-M	*92*		*10 - 185*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
d5-NEtPFOSA	*87*		*10 - 180*	*03/07/23 22:57*	*03/16/23 07:29*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:29*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.54	1.88	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Arsenic	**3.73**		3.32	1.55	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Barium	**32.5**		0.554	0.166	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Beryllium	**0.414**	**J**	0.554	0.111	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Cadmium	ND		0.554	0.111	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Chromium	**8.36**		1.66	0.388	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Lead	**3.32**		1.66	0.664	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Nickel	**4.10**		1.11	0.288	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Selenium	ND		5.54	1.66	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Silver	ND	^3+	1.11	0.443	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Thallium	ND		3.32	1.44	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Vanadium	**13.9**		1.11	0.476	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1
Zinc	**16.8**		2.21	0.886	mg/Kg	☼	03/08/23 13:50	03/09/23 15:00	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0698	0.0233	mg/Kg	☼	03/08/23 13:59	03/09/23 08:51	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0608'
Date Collected: 03/02/23 10:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-23
Matrix: Solid
Percent Solids: 80.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.4		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	80.6		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0810'
Date Collected: 03/02/23 10:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-24
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00458	0.00299	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Acetone	ND		0.0458	0.0103	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Acrylonitrile	ND		0.00458	0.00275	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Benzene	ND		0.00458	0.00306	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Bromobenzene	ND		0.00458	0.00305	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Bromochloromethane	ND		0.00458	0.00260	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Bromodichloromethane	ND		0.00458	0.00336	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Bromoform	ND		0.00458	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Bromomethane	ND		0.00917	0.00571	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
2-Butanone (MEK)	ND		0.00917	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
n-Butylbenzene	ND		0.00917	0.00491	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
sec-Butylbenzene	ND		0.00458	0.00369	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
tert-Butylbenzene	ND		0.00458	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Carbon disulfide	ND		0.00917	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Carbon tetrachloride	ND		0.00458	0.00289	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Chlorobenzene	ND		0.00458	0.00335	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Chloroethane	ND		0.00917	0.00336	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Chloroform	ND		0.00458	0.00308	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Chloromethane	ND		0.00917	0.00352	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
2-Chlorotoluene	ND		0.00458	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
4-Chlorotoluene	ND		0.00458	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2-Dibromo-3-Chloropropane	ND		0.00917	0.00389	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Dibromochloromethane	ND		0.00458	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2-Dibromoethane (EDB)	ND		0.00458	0.00329	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Dibromomethane	ND		0.00458	0.00269	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2-Dichlorobenzene	ND		0.00458	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,3-Dichlorobenzene	ND		0.00458	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,4-Dichlorobenzene	ND		0.00458	0.00434	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Dichlorodifluoromethane (Freon 12)	ND		0.00917	0.00246	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,1-Dichloroethane	ND		0.00458	0.00311	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2-Dichloroethane	ND		0.00458	0.00309	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,1-Dichloroethene	ND		0.00458	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
cis-1,2-Dichloroethene	ND		0.00458	0.00265	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
trans-1,2-Dichloroethene	ND		0.00458	0.00285	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2-Dichloropropane	ND		0.00458	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,3-Dichloropropane	ND		0.00458	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
2,2-Dichloropropane	ND		0.00458	0.00316	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,1-Dichloropropene	ND		0.00458	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
cis-1,3-Dichloropropene	ND		0.00458	0.00299	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
trans-1,3-Dichloropropene	ND		0.00458	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Ethylbenzene	ND		0.00458	0.00327	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Hexachlorobutadiene	ND		0.00917	0.00461	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
2-Hexanone (MBK)	ND		0.00917	0.00269	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Isopropylbenzene	ND		0.00458	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
4-Isopropyltoluene	ND		0.00458	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Methyl tert-butyl ether	ND		0.00458	0.00264	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.00917	0.00296	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Methylene Chloride	ND		0.00917	0.00246	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Naphthalene	ND		0.00458	0.00414	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1

Client Sample ID: 2023-SB-03-0810' **Lab Sample ID: 620-10080-24**
Date Collected: 03/02/23 10:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00458	0.00388	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Styrene	ND		0.00458	0.00355	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,1,1,2-Tetrachloroethane	ND		0.00458	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,1,2,2-Tetrachloroethane	ND		0.00458	0.00420	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Tetrachloroethene	ND		0.00458	0.00255	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Toluene	ND		0.00458	0.00291	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2,3-Trichlorobenzene	ND		0.00458	0.00387	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2,4-Trichlorobenzene	ND		0.00458	0.00423	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,3,5-Trichlorobenzene	ND		0.00458	0.00435	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,1,1-Trichloroethane	ND		0.00458	0.00313	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,1,2-Trichloroethane	ND		0.00458	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Trichloroethene	ND		0.00458	0.00308	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Trichlorofluoromethane (Freon 11)	ND		0.00458	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2,3-Trichloropropane	ND		0.00458	0.00407	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,2,4-Trimethylbenzene	ND		0.00458	0.00388	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,3,5-Trimethylbenzene	ND		0.00458	0.00390	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Vinyl chloride	ND		0.00458	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
m,p-Xylene	ND		0.00458	0.00626	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
o-Xylene	ND		0.00458	0.00335	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Tetrahydrofuran	ND		0.00917	0.00232	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Ethyl ether	ND		0.00458	0.00241	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Tert-amyl methyl ether	ND		0.00458	0.00362	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Ethyl tert-butyl ether	ND		0.00458	0.00302	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
di-Isopropyl ether	ND		0.00458	0.00327	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
tert-Butanol	ND		0.0917	0.0246	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,4-Dioxane	ND		0.0917	0.0285	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
trans-1,4-Dichloro-2-butene	ND		0.0229	0.00338	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Ethanol	ND		0.917	0.0568	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
1,3-Dichloropropene, Total	ND		0.00458	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1
Xylenes, Total	ND		0.0137	0.00458	mg/Kg	☼	03/07/23 09:52	03/07/23 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:24*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.405	0.0720	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
1,2,4-Trichlorobenzene	ND		0.405	0.0928	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
1,2-Dichlorobenzene	ND		0.405	0.0780	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
1,3-Dichlorobenzene	ND		0.405	0.0980	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
1,4-Dichlorobenzene	ND		0.405	0.0953	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
1-Methylnaphthalene	ND		0.0818	0.0687	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2,4,5-Trichlorophenol	ND		0.405	0.0464	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2,4,6-Trichlorophenol	ND		0.205	0.0501	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2,4-Dichlorophenol	ND		0.205	0.0816	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2,4-Dimethylphenol	ND		0.405	0.0594	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2,4-Dinitrophenol	ND		0.405	0.107	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0810'
Date Collected: 03/02/23 10:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-24
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.205	0.0480	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2,6-Dinitrotoluene	ND		0.205	0.0480	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2-Chloronaphthalene	ND		0.405	0.0936	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2-Chlorophenol	ND		0.205	0.0838	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2-Methylnaphthalene	ND		0.0818	0.0605	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2-Methylphenol	ND		0.405	0.0591	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2-Nitroaniline	ND		0.405	0.0385	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
2-Nitrophenol	ND		0.205	0.0728	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
3 & 4 Methylphenol	ND		0.405	0.0767	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
3,3'-Dichlorobenzidine	ND		0.405	0.0669	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
3-Nitroaniline	ND		0.405	0.0362	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
4,6-Dinitro-2-methylphenol	ND		0.405	0.0728	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
4-Bromophenyl phenyl ether	ND		0.405	0.0458	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
4-Chloro-3-methylphenol	ND		0.405	0.0793	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
4-Chloroaniline	ND		0.205	0.0310	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
4-Chlorophenyl phenyl ether	ND		0.405	0.0433	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
4-Nitroaniline	ND		0.205	0.0647	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
4-Nitrophenol	ND		0.405	0.141	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Acenaphthene	ND		0.0818	0.0653	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Acenaphthylene	ND		0.0818	0.0537	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Acetophenone	ND		0.205	0.0499	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Aniline	ND		0.405	0.0310	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Anthracene	ND		0.0818	0.0474	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Azobenzene/Diphenyldiazene	ND		0.405	0.0691	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzidine	ND		0.810	0.120	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzo[a]anthracene	ND		0.0818	0.0460	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzo[a]pyrene	ND		0.0818	0.0585	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzo[b]fluoranthene	ND		0.0818	0.0679	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzo[g,h,i]perylene	ND		0.0818	0.0639	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzo[k]fluoranthene	ND		0.0818	0.0637	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzoic acid	ND		0.405	0.279	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Benzyl alcohol	ND		0.405	0.0734	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Bis(2-chloroethoxy)methane	ND		0.405	0.0704	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Bis(2-chloroethyl)ether	ND		0.205	0.0670	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
bis (2-chloroisopropyl) ether	ND		0.205	0.0912	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Bis(2-ethylhexyl) phthalate	ND		0.205	0.0521	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Butyl benzyl phthalate	ND		0.405	0.0406	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Carbazole	ND		0.205	0.0536	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Chrysene	ND		0.0818	0.0463	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Dibenz(a,h)anthracene	ND		0.0818	0.0625	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Dibenzofuran	ND		0.205	0.0709	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Diethyl phthalate	ND		0.405	0.0444	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Dimethyl phthalate	ND		0.405	0.0528	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Di-n-butyl phthalate	ND		0.405	0.0433	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Di-n-octyl phthalate	ND		0.405	0.0669	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Fluoranthene	ND		0.0818	0.0480	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Fluorene	ND		0.0818	0.0747	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Hexachlorobenzene	ND		0.205	0.0568	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Hexachlorobutadiene	ND		0.205	0.102	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1

Client Sample ID: 2023-SB-03-0810' **Lab Sample ID: 620-10080-24**
Date Collected: 03/02/23 10:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.205	0.0783	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Hexachloroethane	ND		0.205	0.0805	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0818	0.0694	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Isophorone	ND		0.205	0.0561	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Naphthalene	ND		0.0818	0.0785	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Nitrobenzene	ND		0.205	0.0946	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
N-Nitrosodimethylamine	ND		0.205	0.0537	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
N-Nitrosodi-n-propylamine	ND		0.205	0.0816	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
N-Nitrosodiphenylamine	ND		0.405	0.0517	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Pentachloronitrobenzene	ND		0.405	0.0639	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Pentachlorophenol	ND		0.405	0.166	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Phenanthrene	ND		0.0818	0.0464	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Phenol	ND		0.405	0.0834	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Pyrene	ND		0.0818	0.0452	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1
Pyridine	ND		0.405	0.0958	mg/Kg	☼	03/10/23 11:19	03/10/23 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/10/23 11:19*	*03/10/23 23:50*	*1*
2-Fluorophenol (Surr)	*110*		*15 - 110*	*03/10/23 11:19*	*03/10/23 23:50*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/10/23 11:19*	*03/10/23 23:50*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/10/23 11:19*	*03/10/23 23:50*	*1*
2,4,6-Tribromophenol (Surr)	*96*		*15 - 110*	*03/10/23 11:19*	*03/10/23 23:50*	*1*
Terphenyl-d14	*100*		*30 - 130*	*03/10/23 11:19*	*03/10/23 23:50*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.253	0.130	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.253	0.108	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0507	0.0101	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
Ethylbenzene	ND		0.0507	0.0101	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
Methyl tert-butyl ether	ND		0.0507	0.0101	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
Naphthalene	ND		0.0507	0.0345	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
o-Xylene	ND		0.0507	0.0101	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
Toluene	ND		0.0507	0.0101	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
C5-C8 Aliphatics (unadjusted)	ND		0.253	0.130	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
C9-C10 Aromatics	ND		0.253	0.0355	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1
C9-C12 Aliphatics (unadjusted)	ND		0.253	0.108	mg/Kg	☼	03/06/23 10:00	03/07/23 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/06/23 10:00*	*03/07/23 01:08*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/06/23 10:00*	*03/07/23 01:08*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0249	0.0179	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1
PCB-1221	ND		0.0249	0.00735	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1
PCB-1232	ND		0.0249	0.00689	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1

Client Sample ID: 2023-SB-03-0810' **Lab Sample ID: 620-10080-24**
Date Collected: 03/02/23 10:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0249	0.00393	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1
PCB-1248	ND		0.0249	0.00778	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1
PCB-1254	**0.0216**	**J**	0.0249	0.0194	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1
PCB-1262	ND		0.0249	0.00580	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1
PCB-1260	ND		0.0249	0.00535	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1
PCB-1268	ND		0.0249	0.00530	mg/Kg	☼	03/09/23 15:17	03/11/23 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*32*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:36*	*1*
Tetrachloro-m-xylene	*33*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:36*	*1*
DCB Decachlorobiphenyl (Surr)	*30*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:36*	*1*
DCB Decachlorobiphenyl (Surr)	*30*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:36*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluoroheptanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorooctanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorononanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorodecanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorotridecanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorotetradecanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorobutanesulfonic acid	ND		2.29	0.458	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorohexanesulfonic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorooctanesulfonic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
10:2 FTS	ND		2.29	0.687	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluoropentanesulfonic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluoroheptanesulfonic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorononanesulfonic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorodecanesulfonic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorooctanesulfonamide	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorohexadecanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorooctadecanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorobutanoic acid	ND		2.29	0.915	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluoropentanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
NMeFOSE	ND		2.29	0.572	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
NMeFOSA	ND		2.29	0.572	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
NEtFOSE	ND		2.29	0.572	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
NEtFOSA	ND		2.29	0.572	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
HFPODA	ND		2.29	1.14	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
DONA	ND		3.43	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
11Cl-PF3OUdS	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluorododecanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.687	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
Perfluoroundecanoic acid	ND		0.687	0.229	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1

Client Sample ID: 2023-SB-03-0810' **Lab Sample ID: 620-10080-24**
Date Collected: 03/02/23 10:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.687	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1
8:2 Fluorotelomer sulfonic acid	ND		3.43	0.687	ug/Kg	☼	03/07/23 22:57	03/16/23 07:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*68*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
M2-8:2 FTS	*86*		*15 - 200*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
M2-6:2 FTS	*75*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C5 PFHxA	*94*		*10 - 174*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C4 PFHpA	*101*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C8 PFOA	*98*		*26 - 159*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C9 PFNA	*100*		*26 - 165*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C6 PFDA	*94*		*26 - 161*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C7 PFUnA	*97*		*12 - 173*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C2-PFDoDA	*89*		*11 - 166*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C8 PFOS	*110*		*41 - 154*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
d3-NMeFOSAA	*22*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C8 FOSA	*103*		*14 - 163*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C4 PFBA	*97*		*28 - 153*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C5 PFPeA	*91*		*24 - 161*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
d5-NEtPFOSA	*87*		*10 - 180*	*03/07/23 22:57*	*03/16/23 07:40*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:40*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.88**	**J**	5.38	1.83	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Arsenic	**7.89**		3.23	1.51	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Barium	**101**		0.538	0.161	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Beryllium	**1.32**		0.538	0.108	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Cadmium	ND		0.538	0.108	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Chromium	**27.1**		1.61	0.376	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Lead	**11.6**		1.61	0.645	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Nickel	**18.1**		1.08	0.280	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Selenium	ND		5.38	1.61	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Silver	ND	^3+	1.08	0.430	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Thallium	ND		32.3	14.0	mg/Kg	☼	03/08/23 13:50	03/09/23 15:51	10
Vanadium	**45.5**		1.08	0.462	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1
Zinc	**64.8**		2.15	0.860	mg/Kg	☼	03/08/23 13:50	03/09/23 14:37	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0713	0.0238	mg/Kg	☼	03/08/23 13:59	03/09/23 08:49	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0810'
Date Collected: 03/02/23 10:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-24
Matrix: Solid
Percent Solids: 80.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.8		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	80.2		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-1012'
Date Collected: 03/02/23 10:36
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-25
Matrix: Solid
Percent Solids: 82.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00526	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Acetone	ND		0.0526	0.0118	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Acrylonitrile	ND		0.00526	0.00315	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Benzene	ND		0.00526	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Bromobenzene	ND		0.00526	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Bromochloromethane	ND		0.00526	0.00299	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Bromodichloromethane	ND		0.00526	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Bromoform	ND		0.00526	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Bromomethane	ND		0.0105	0.00655	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
2-Butanone (MEK)	ND		0.0105	0.00418	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
n-Butylbenzene	ND		0.0105	0.00564	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
sec-Butylbenzene	ND		0.00526	0.00424	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
tert-Butylbenzene	ND		0.00526	0.00414	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Carbon disulfide	ND		0.0105	0.00369	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Carbon tetrachloride	ND		0.00526	0.00331	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Chlorobenzene	ND		0.00526	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Chloroethane	ND		0.0105	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Chloroform	ND		0.00526	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Chloromethane	ND		0.0105	0.00404	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
2-Chlorotoluene	ND		0.00526	0.00418	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
4-Chlorotoluene	ND		0.00526	0.00456	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Dibromochloromethane	ND		0.00526	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2-Dibromoethane (EDB)	ND		0.00526	0.00377	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Dibromomethane	ND		0.00526	0.00309	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2-Dichlorobenzene	ND		0.00526	0.00488	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,3-Dichlorobenzene	ND		0.00526	0.00422	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,4-Dichlorobenzene	ND		0.00526	0.00498	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00282	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,1-Dichloroethane	ND		0.00526	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2-Dichloroethane	ND		0.00526	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,1-Dichloroethene	ND		0.00526	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
cis-1,2-Dichloroethene	ND		0.00526	0.00304	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
trans-1,2-Dichloroethene	ND		0.00526	0.00327	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2-Dichloropropane	ND		0.00526	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,3-Dichloropropane	ND		0.00526	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
2,2-Dichloropropane	ND		0.00526	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,1-Dichloropropene	ND		0.00526	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
cis-1,3-Dichloropropene	ND		0.00526	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
trans-1,3-Dichloropropene	ND		0.00526	0.00400	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Ethylbenzene	ND		0.00526	0.00375	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Hexachlorobutadiene	ND		0.0105	0.00529	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
2-Hexanone (MBK)	ND		0.0105	0.00309	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Isopropylbenzene	ND		0.00526	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
4-Isopropyltoluene	ND		0.00526	0.00516	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Methyl tert-butyl ether	ND		0.00526	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00340	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Methylene Chloride	ND		0.0105	0.00282	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Naphthalene	ND		0.00526	0.00475	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1

Client Sample ID: 2023-SB-03-1012' **Lab Sample ID: 620-10080-25**
Date Collected: 03/02/23 10:36 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 82.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00526	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Styrene	ND		0.00526	0.00407	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,1,1,2-Tetrachloroethane	ND		0.00526	0.00394	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.00526	0.00482	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Tetrachloroethene	ND		0.00526	0.00292	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Toluene	ND		0.00526	0.00333	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2,3-Trichlorobenzene	ND		0.00526	0.00444	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2,4-Trichlorobenzene	ND		0.00526	0.00485	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,3,5-Trichlorobenzene	ND		0.00526	0.00499	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,1,1-Trichloroethane	ND		0.00526	0.00359	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,1,2-Trichloroethane	ND		0.00526	0.00396	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Trichloroethene	ND		0.00526	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00526	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2,3-Trichloropropane	ND		0.00526	0.00467	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,2,4-Trimethylbenzene	ND		0.00526	0.00445	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,3,5-Trimethylbenzene	ND		0.00526	0.00447	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Vinyl chloride	ND		0.00526	0.00321	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
m,p-Xylene	ND		0.00526	0.00718	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
o-Xylene	ND		0.00526	0.00384	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Tetrahydrofuran	ND		0.0105	0.00266	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Ethyl ether	ND		0.00526	0.00277	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Tert-amyl methyl ether	ND		0.00526	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Ethyl tert-butyl ether	ND		0.00526	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
di-Isopropyl ether	ND		0.00526	0.00375	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
tert-Butanol	ND		0.105	0.0282	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,4-Dioxane	ND		0.105	0.0327	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
trans-1,4-Dichloro-2-butene	ND		0.0263	0.00388	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Ethanol	ND		1.05	0.0652	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
1,3-Dichloropropene, Total	ND		0.00526	0.00400	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1
Xylenes, Total	ND		0.0158	0.00526	mg/Kg	☼	03/07/23 09:52	03/07/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:49*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 18:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.397	0.0707	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
1,2,4-Trichlorobenzene	ND		0.397	0.0910	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
1,2-Dichlorobenzene	ND		0.397	0.0766	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
1,3-Dichlorobenzene	ND		0.397	0.0962	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
1,4-Dichlorobenzene	ND		0.397	0.0936	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
1-Methylnaphthalene	ND		0.0803	0.0674	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2,4,5-Trichlorophenol	ND		0.397	0.0455	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2,4,6-Trichlorophenol	ND		0.201	0.0491	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2,4-Dichlorophenol	ND		0.201	0.0801	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2,4-Dimethylphenol	ND		0.397	0.0583	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2,4-Dinitrophenol	ND		0.397	0.105	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-1012'
Date Collected: 03/02/23 10:36
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-25
Matrix: Solid
Percent Solids: 82.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0471	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2,6-Dinitrotoluene	ND		0.201	0.0471	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2-Chloronaphthalene	ND		0.397	0.0919	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2-Chlorophenol	ND		0.201	0.0823	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2-Methylnaphthalene	ND		0.0803	0.0594	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2-Methylphenol	ND		0.397	0.0580	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2-Nitroaniline	ND		0.397	0.0378	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
2-Nitrophenol	ND		0.201	0.0714	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
3 & 4 Methylphenol	ND		0.397	0.0753	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
3,3'-Dichlorobenzidine	ND		0.397	0.0656	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
3-Nitroaniline	ND		0.397	0.0355	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
4,6-Dinitro-2-methylphenol	ND		0.397	0.0714	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
4-Bromophenyl phenyl ether	ND		0.397	0.0449	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
4-Chloro-3-methylphenol	ND		0.397	0.0778	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
4-Chloroaniline	ND		0.201	0.0305	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
4-Chlorophenyl phenyl ether	ND		0.397	0.0425	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
4-Nitroaniline	ND		0.201	0.0635	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
4-Nitrophenol	ND		0.397	0.138	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Acenaphthene	ND		0.0803	0.0641	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Acenaphthylene	ND		0.0803	0.0527	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Acetophenone	ND		0.201	0.0490	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Aniline	ND		0.397	0.0305	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Anthracene	ND		0.0803	0.0465	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Azobenzene/Diphenyldiazene	ND		0.397	0.0678	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzidine	ND		0.795	0.118	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzo[a]anthracene	ND		0.0803	0.0452	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzo[a]pyrene	ND		0.0803	0.0574	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzo[b]fluoranthene	ND		0.0803	0.0666	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzo[g,h,i]perylene	ND		0.0803	0.0627	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzo[k]fluoranthene	ND		0.0803	0.0625	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzoic acid	ND		0.397	0.273	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Benzyl alcohol	ND		0.397	0.0720	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Bis(2-chloroethoxy)methane	ND		0.397	0.0691	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Bis(2-chloroethyl)ether	ND		0.201	0.0658	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0895	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0512	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Butyl benzyl phthalate	ND		0.397	0.0399	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Carbazole	ND		0.201	0.0526	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Chrysene	ND		0.0803	0.0454	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Dibenz(a,h)anthracene	ND		0.0803	0.0613	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Dibenzofuran	ND		0.201	0.0696	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Diethyl phthalate	ND		0.397	0.0436	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Dimethyl phthalate	ND		0.397	0.0518	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Di-n-butyl phthalate	ND		0.397	0.0425	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Di-n-octyl phthalate	ND		0.397	0.0656	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Fluoranthene	ND		0.0803	0.0471	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Fluorene	ND		0.0803	0.0733	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Hexachlorobenzene	ND		0.201	0.0558	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1

Client Sample ID: 2023-SB-03-1012' **Lab Sample ID: 620-10080-25**
Date Collected: 03/02/23 10:36 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 82.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0768	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Hexachloroethane	ND		0.201	0.0790	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0803	0.0682	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Isophorone	ND		0.201	0.0550	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Naphthalene	ND		0.0803	0.0771	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Nitrobenzene	ND		0.201	0.0929	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
N-Nitrosodimethylamine	ND		0.201	0.0527	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0801	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
N-Nitrosodiphenylamine	ND		0.397	0.0507	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Pentachloronitrobenzene	ND		0.397	0.0627	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Pentachlorophenol	ND		0.397	0.163	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Phenanthrene	ND		0.0803	0.0455	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Phenol	ND		0.397	0.0819	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Pyrene	ND		0.0803	0.0443	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1
Pyridine	ND		0.397	0.0941	mg/Kg	☼	03/10/23 11:19	03/14/23 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*	*03/10/23 11:19*	*03/14/23 03:36*	*1*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/10/23 11:19*	*03/14/23 03:36*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/10/23 11:19*	*03/14/23 03:36*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/10/23 11:19*	*03/14/23 03:36*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*15 - 110*	*03/10/23 11:19*	*03/14/23 03:36*	*1*
Terphenyl-d14	*94*		*30 - 130*	*03/10/23 11:19*	*03/14/23 03:36*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.279	0.143	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.279	0.119	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0557	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
Ethylbenzene	ND		0.0557	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
Methyl tert-butyl ether	ND		0.0557	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
Naphthalene	ND		0.0557	0.0379	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
o-Xylene	ND		0.0557	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
Toluene	ND		0.0557	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
C5-C8 Aliphatics (unadjusted)	ND		0.279	0.143	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
C9-C10 Aromatics	ND		0.279	0.0390	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1
C9-C12 Aliphatics (unadjusted)	ND		0.279	0.119	mg/Kg	☼	03/06/23 10:00	03/07/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/06/23 10:00*	*03/07/23 01:47*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/06/23 10:00*	*03/07/23 01:47*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1
PCB-1221	ND		0.0229	0.00677	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1
PCB-1232	ND		0.0229	0.00635	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1

Client Sample ID: 2023-SB-03-1012' **Lab Sample ID: 620-10080-25**
Date Collected: 03/02/23 10:36 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 82.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0229	0.00362	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1
PCB-1248	ND		0.0229	0.00716	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1
PCB-1254	ND		0.0229	0.0178	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1
PCB-1262	ND		0.0229	0.00534	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1
PCB-1260	ND		0.0229	0.00493	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1
PCB-1268	ND		0.0229	0.00488	mg/Kg	☼	03/09/23 15:17	03/10/23 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*30 - 150*	*03/09/23 15:17*	*03/10/23 20:59*	*1*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/09/23 15:17*	*03/10/23 20:59*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*03/09/23 15:17*	*03/10/23 20:59*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/09/23 15:17*	*03/10/23 20:59*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluoroheptanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorooctanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorononanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorodecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorotridecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorotetradecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorobutanesulfonic acid	ND		2.22	0.443	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorohexanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorooctanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
10:2 FTS	ND		2.22	0.665	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluoropentanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluoroheptanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorononanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorodecanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorooctanesulfonamide	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorohexadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorooctadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorobutanoic acid	ND		2.22	0.887	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluoropentanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
NMeFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
NMeFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
NEtFOSE	ND		2.22	0.554	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
NEtFOSA	ND		2.22	0.554	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
DONA	ND		3.33	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
11Cl-PF3OUdS	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluorododecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
Perfluoroundecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1

Client Sample ID: 2023-SB-03-1012' **Lab Sample ID: 620-10080-25**
Date Collected: 03/02/23 10:36 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 82.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1
8:2 Fluorotelomer sulfonic acid	ND		3.33	0.665	ug/Kg	☼	03/07/23 22:57	03/16/23 07:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*32*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
M2-8:2 FTS	*35*		*15 - 200*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
M2-6:2 FTS	*35*		*10 - 200*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C5 PFHxA	*37*		*10 - 174*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C4 PFHpA	*43*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C8 PFOA	*44*		*26 - 159*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C9 PFNA	*45*		*26 - 165*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C6 PFDA	*41*		*26 - 161*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C7 PFUnA	*42*		*12 - 173*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C2-PFDoDA	*42*		*11 - 166*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C2 PFTeDA	*46*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C3 PFBS	*55*		*27 - 179*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C3 PFHxS	*57*		*24 - 171*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C8 PFOS	*60*		*41 - 154*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
d3-NMeFOSAA	*13*		*10 - 178*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C8 FOSA	*103*		*14 - 163*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C4 PFBA	*38*		*28 - 153*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C5 PFPeA	*36*		*24 - 161*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
d7-N-MeFOSE-M	*97*		*10 - 179*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
d3-NMePFOSA	*88*		*10 - 175*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
d5-NEtPFOSA	*92*		*10 - 180*	*03/07/23 22:57*	*03/16/23 07:51*	*1*
13C3 HFPO-DA	*45*		*10 - 169*	*03/07/23 22:57*	*03/16/23 07:51*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.51	1.53	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Arsenic	**5.20**		2.71	1.26	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Barium	**34.5**		0.451	0.135	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Beryllium	**0.481**		0.451	0.0902	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Cadmium	ND		0.451	0.0902	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Chromium	**8.67**		1.35	0.316	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Lead	**3.54**		1.35	0.541	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Nickel	**3.78**		0.902	0.234	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Selenium	ND		4.51	1.35	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Silver	ND	^3+	0.902	0.361	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Thallium	ND		2.71	1.17	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Vanadium	**13.8**		0.902	0.388	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1
Zinc	**15.2**		1.80	0.721	mg/Kg	☼	03/08/23 13:50	03/09/23 14:31	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0725	0.0242	mg/Kg	☼	03/08/23 13:59	03/09/23 08:41	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-1012'
Date Collected: 03/02/23 10:36
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-25
Matrix: Solid
Percent Solids: 82.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.3		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	82.7		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0002'
Date Collected: 03/02/23 11:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-26
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00522	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Acetone	ND		0.0522	0.0117	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Acrylonitrile	ND		0.00522	0.00313	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Benzene	ND		0.00522	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Bromobenzene	ND		0.00522	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Bromochloromethane	ND		0.00522	0.00297	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Bromodichloromethane	ND		0.00522	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Bromoform	ND		0.00522	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Bromomethane	ND		0.0104	0.00651	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
2-Butanone (MEK)	ND		0.0104	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
n-Butylbenzene	ND		0.0104	0.00560	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
sec-Butylbenzene	ND		0.00522	0.00421	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
tert-Butylbenzene	ND		0.00522	0.00412	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Carbon disulfide	ND		0.0104	0.00367	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Carbon tetrachloride	ND		0.00522	0.00329	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Chlorobenzene	ND		0.00522	0.00382	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Chloroform	ND		0.00522	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Chloromethane	ND		0.0104	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
2-Chlorotoluene	ND		0.00522	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
4-Chlorotoluene	ND		0.00522	0.00454	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00443	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Dibromochloromethane	ND		0.00522	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2-Dibromoethane (EDB)	ND		0.00522	0.00375	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Dibromomethane	ND		0.00522	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2-Dichlorobenzene	ND		0.00522	0.00485	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,3-Dichlorobenzene	ND		0.00522	0.00419	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,4-Dichlorobenzene	ND		0.00522	0.00495	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Dichlorodifluoromethane (Freon 12)	ND		0.0104	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,1-Dichloroethane	ND		0.00522	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2-Dichloroethane	ND		0.00522	0.00352	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,1-Dichloroethene	ND		0.00522	0.00320	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
cis-1,2-Dichloroethene	ND		0.00522	0.00302	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
trans-1,2-Dichloroethene	ND		0.00522	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2-Dichloropropane	ND		0.00522	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,3-Dichloropropane	ND		0.00522	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
2,2-Dichloropropane	ND		0.00522	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,1-Dichloropropene	ND		0.00522	0.00355	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
cis-1,3-Dichloropropene	ND		0.00522	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
trans-1,3-Dichloropropene	ND		0.00522	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Ethylbenzene	ND		0.00522	0.00373	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Hexachlorobutadiene	ND		0.0104	0.00526	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
2-Hexanone (MBK)	ND		0.0104	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Isopropylbenzene	ND		0.00522	0.00395	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
4-Isopropyltoluene	ND		0.00522	0.00513	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Methyl tert-butyl ether	ND		0.00522	0.00301	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00338	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Methylene Chloride	ND		0.0104	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Naphthalene	ND		0.00522	0.00472	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1

Client Sample ID: 2023-MW-04-0002' **Lab Sample ID: 620-10080-26**
Date Collected: 03/02/23 11:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 94.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Styrene	ND		0.00522	0.00404	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,1,1,2-Tetrachloroethane	ND		0.00522	0.00392	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,1,2,2-Tetrachloroethane	ND		0.00522	0.00479	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Tetrachloroethene	ND		0.00522	0.00290	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Toluene	ND		0.00522	0.00331	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2,3-Trichlorobenzene	ND		0.00522	0.00441	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2,4-Trichlorobenzene	ND		0.00522	0.00482	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,3,5-Trichlorobenzene	ND		0.00522	0.00496	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,1,1-Trichloroethane	ND		0.00522	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,1,2-Trichloroethane	ND		0.00522	0.00394	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Trichloroethene	ND		0.00522	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00522	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2,3-Trichloropropane	ND		0.00522	0.00464	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,2,4-Trimethylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,3,5-Trimethylbenzene	ND		0.00522	0.00444	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Vinyl chloride	ND		0.00522	0.00319	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
m,p-Xylene	ND		0.00522	0.00714	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
o-Xylene	ND		0.00522	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Ethyl ether	ND		0.00522	0.00275	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Tert-amyl methyl ether	ND		0.00522	0.00413	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Ethyl tert-butyl ether	ND		0.00522	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
di-Isopropyl ether	ND		0.00522	0.00373	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
tert-Butanol	ND		0.104	0.0280	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,4-Dioxane	ND		0.104	0.0325	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Ethanol	ND		1.04	0.0648	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
1,3-Dichloropropene, Total	ND		0.00522	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1
Xylenes, Total	ND		0.0157	0.00522	mg/Kg	☼	03/07/23 09:52	03/07/23 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:15*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:15*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.692	0.123	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
1,2,4-Trichlorobenzene	ND		0.692	0.158	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
1,2-Dichlorobenzene	ND		0.692	0.133	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
1,3-Dichlorobenzene	ND		0.692	0.167	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
1,4-Dichlorobenzene	ND		0.692	0.163	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
1-Methylnaphthalene	ND		0.140	0.117	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2,4,5-Trichlorophenol	ND		0.692	0.0792	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2,4,6-Trichlorophenol	ND		0.350	0.0855	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2,4-Dichlorophenol	ND		0.350	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2,4-Dimethylphenol	ND		0.692	0.101	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2,4-Dinitrophenol	ND		0.692	0.182	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0002'
Date Collected: 03/02/23 11:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-26
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.350	0.0819	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2,6-Dinitrotoluene	ND		0.350	0.0819	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2-Chloronaphthalene	ND		0.692	0.160	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2-Chlorophenol	ND		0.350	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2-Methylnaphthalene	ND		0.140	0.103	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2-Methylphenol	ND		0.692	0.101	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2-Nitroaniline	ND		0.692	0.0658	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
2-Nitrophenol	ND		0.350	0.124	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
3 & 4 Methylphenol	ND		0.692	0.131	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
3,3'-Dichlorobenzidine	ND		0.692	0.114	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
3-Nitroaniline	ND		0.692	0.0618	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
4,6-Dinitro-2-methylphenol	ND		0.692	0.124	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
4-Bromophenyl phenyl ether	ND		0.692	0.0782	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
4-Chloro-3-methylphenol	ND		0.692	0.135	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
4-Chloroaniline	ND		0.350	0.0530	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
4-Chlorophenyl phenyl ether	ND		0.692	0.0740	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
4-Nitroaniline	ND		0.350	0.110	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
4-Nitrophenol	ND		0.692	0.241	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Acenaphthene	ND		0.140	0.111	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Acenaphthylene	ND		0.140	0.0918	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Acetophenone	ND		0.350	0.0853	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Aniline	ND		0.692	0.0530	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Anthracene	ND		0.140	0.0809	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Azobenzene/Diphenyldiazene	ND		0.692	0.118	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzidine	ND		1.38	0.205	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzo[a]anthracene	ND		0.140	0.0786	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzo[a]pyrene	ND		0.140	0.100	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzo[b]fluoranthene	ND		0.140	0.116	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzo[g,h,i]perylene	ND		0.140	0.109	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzo[k]fluoranthene	ND		0.140	0.109	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzoic acid	ND		0.692	0.476	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Benzyl alcohol	ND		0.692	0.125	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Bis(2-chloroethoxy)methane	ND		0.692	0.120	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Bis(2-chloroethyl)ether	ND		0.350	0.114	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
bis (2-chloroisopropyl) ether	ND		0.350	0.156	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Bis(2-ethylhexyl) phthalate	ND		0.350	0.0891	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Butyl benzyl phthalate	ND		0.692	0.0694	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Carbazole	ND		0.350	0.0916	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Chrysene	ND		0.140	0.0790	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Dibenz(a,h)anthracene	ND		0.140	0.107	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Dibenzofuran	ND		0.350	0.121	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Diethyl phthalate	ND		0.692	0.0759	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Dimethyl phthalate	ND		0.692	0.0901	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Di-n-butyl phthalate	ND		0.692	0.0740	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Di-n-octyl phthalate	ND		0.692	0.114	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Fluoranthene	ND		0.140	0.0819	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Fluorene	ND		0.140	0.128	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Hexachlorobenzene	ND		0.350	0.0970	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Hexachlorobutadiene	ND		0.350	0.175	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1

Client Sample ID: 2023-MW-04-0002' **Lab Sample ID: 620-10080-26**
Date Collected: 03/02/23 11:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 94.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.350	0.134	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Hexachloroethane	ND		0.350	0.137	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Indeno[1,2,3-cd]pyrene	ND		0.140	0.119	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Isophorone	ND		0.350	0.0958	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Naphthalene	ND		0.140	0.134	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Nitrobenzene	ND		0.350	0.162	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
N-Nitrosodimethylamine	ND		0.350	0.0918	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
N-Nitrosodi-n-propylamine	ND		0.350	0.139	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
N-Nitrosodiphenylamine	ND		0.692	0.0882	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Pentachloronitrobenzene	ND		0.692	0.109	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Pentachlorophenol	ND		0.692	0.283	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Phenanthrene	ND		0.140	0.0792	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Phenol	ND		0.692	0.143	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Pyrene	**0.0807**	**J**	0.140	0.0771	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1
Pyridine	ND		0.692	0.164	mg/Kg	☼	03/10/23 11:19	03/14/23 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/10/23 11:19*	*03/14/23 04:04*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/10/23 11:19*	*03/14/23 04:04*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/10/23 11:19*	*03/14/23 04:04*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/10/23 11:19*	*03/14/23 04:04*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/10/23 11:19*	*03/14/23 04:04*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/10/23 11:19*	*03/14/23 04:04*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.264	0.135	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.264	0.113	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0527	0.0105	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
Ethylbenzene	ND		0.0527	0.0105	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
Methyl tert-butyl ether	ND		0.0527	0.0105	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
Naphthalene	ND		0.0527	0.0359	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
o-Xylene	ND		0.0527	0.0105	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
Toluene	ND		0.0527	0.0105	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
C5-C8 Aliphatics (unadjusted)	ND		0.264	0.135	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
C9-C10 Aromatics	ND		0.264	0.0369	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1
C9-C12 Aliphatics (unadjusted)	ND		0.264	0.113	mg/Kg	☼	03/06/23 10:00	03/07/23 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/06/23 10:00*	*03/07/23 02:27*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/06/23 10:00*	*03/07/23 02:27*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0193	0.0139	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1
PCB-1221	ND		0.0193	0.00570	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1
PCB-1232	ND		0.0193	0.00534	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1

Client Sample ID: 2023-MW-04-0002' **Lab Sample ID: 620-10080-26**
Date Collected: 03/02/23 11:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 94.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0193	0.00305	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1
PCB-1248	ND		0.0193	0.00602	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1
PCB-1254	**0.792**		0.0193	0.0150	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1
PCB-1262	ND		0.0193	0.00449	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1
PCB-1260	ND		0.0193	0.00414	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1
PCB-1268	ND		0.0193	0.00411	mg/Kg	☼	03/13/23 14:49	03/15/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:21*	*1*
Tetrachloro-m-xylene	*103*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:21*	*1*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:21*	*1*
DCB Decachlorobiphenyl (Surr)	*131*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:21*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluoroheptanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorooctanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorononanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorodecanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorotridecanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorotetradecanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorobutanesulfonic acid	ND		1.98	0.397	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorohexanesulfonic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorooctanesulfonic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
NEtFOSAA	ND		1.98	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
NMeFOSAA	ND		1.98	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
10:2 FTS	ND		1.98	0.595	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluoropentanesulfonic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluoroheptanesulfonic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorononanesulfonic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorodecanesulfonic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.98	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorooctanesulfonamide	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorohexadecanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorooctadecanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorobutanoic acid	ND		1.98	0.794	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluoropentanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
NMeFOSE	ND		1.98	0.496	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
NMeFOSA	ND		1.98	0.496	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
NEtFOSE	ND		1.98	0.496	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
NEtFOSA	ND		1.98	0.496	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
HFPODA	ND		1.98	0.992	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
DONA	ND		2.98	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
9Cl-PF3ONS	ND		1.98	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
11Cl-PF3OUdS	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluorododecanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
4:2 Fluorotelomer sulfonic acid	ND		1.98	0.595	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
Perfluoroundecanoic acid	ND		0.595	0.198	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04-0002' **Lab Sample ID: 620-10080-26**
Date Collected: 03/02/23 11:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 94.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.98	0.595	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1
8:2 Fluorotelomer sulfonic acid	ND		2.98	0.595	ug/Kg	☼	03/07/23 22:57	03/16/23 08:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
M2-8:2 FTS	*89*		*15 - 200*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
M2-6:2 FTS	*92*		*10 - 200*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C4 PFHpA	*82*		*10 - 178*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C8 PFOA	*87*		*26 - 159*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C9 PFNA	*82*		*26 - 165*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C6 PFDA	*90*		*26 - 161*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C7 PFUnA	*90*		*12 - 173*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C2-PFDoDA	*93*		*11 - 166*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C2 PFTeDA	*104*		*10 - 169*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C3 PFBS	*103*		*27 - 179*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C3 PFHxS	*104*		*24 - 171*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C8 PFOS	*104*		*41 - 154*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
d3-NMeFOSAA	*19*		*10 - 178*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
d5-NEtFOSAA	*25*		*10 - 193*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C8 FOSA	*45*		*14 - 163*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C5 PFPeA	*71*		*24 - 161*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
d7-N-MeFOSE-M	*33*		*10 - 179*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
d3-NMePFOSA	*3*	**5-*	*10 - 175*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
d9-N-EtFOSE-M	*44*		*10 - 185*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
d5-NEtPFOSA	*4*	**5-*	*10 - 180*	*03/07/23 22:57*	*03/16/23 08:02*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/07/23 22:57*	*03/16/23 08:02*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluoroheptanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorooctanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorononanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorodecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorotridecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorotetradecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorobutanesulfonic acid	ND		2.00	0.401	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorohexanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorooctanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
NEtFOSAA	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
NMeFOSAA	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
10:2 FTS	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluoropentanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluoroheptanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorononanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorodecanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorooctanesulfonamide	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1

Client Sample ID: 2023-MW-04-0002' **Lab Sample ID: 620-10080-26**
Date Collected: 03/02/23 11:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 94.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorooctadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorobutanoic acid	ND		2.00	0.801	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluoropentanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
NMeFOSE	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
NMeFOSA	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
NEtFOSE	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
NEtFOSA	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
HFPODA	ND		2.00	1.00	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
DONA	ND		3.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
11Cl-PF3OUdS	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluorododecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
Perfluoroundecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 06:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
M2-8:2 FTS	*124*		*15 - 200*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
M2-6:2 FTS	*107*		*10 - 200*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C4 PFHpA	*121*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C8 PFOA	*120*		*26 - 159*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C6 PFDA	*130*		*26 - 161*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C7 PFUnA	*131*		*12 - 173*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C2-PFDoDA	*136*		*11 - 166*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C2 PFTeDA	*135*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C3 PFBS	*133*		*27 - 179*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C3 PFHxS	*143*		*24 - 171*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C8 PFOS	*128*		*41 - 154*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
d3-NMeFOSAA	*32*		*10 - 178*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
d5-NEtFOSAA	*43*		*10 - 193*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C8 FOSA	*50*		*14 - 163*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C4 PFBA	*97*		*28 - 153*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C5 PFPeA	*100*		*24 - 161*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
d7-N-MeFOSE-M	*36*		*10 - 179*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
d3-NMePFOSA	*5*	*5-	*10 - 175*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
d9-N-EtFOSE-M	*47*		*10 - 185*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
d5-NEtPFOSA	*5*	*5-	*10 - 180*	*03/20/23 00:33*	*03/21/23 06:43*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/20/23 00:33*	*03/21/23 06:43*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.31	1.80	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Arsenic	**3.35**		3.18	1.49	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Barium	**35.2**		0.531	0.159	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Beryllium	**0.262**	**J**	0.531	0.106	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0002'

Date Collected: 03/02/23 11:10
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-26

Matrix: Solid
Percent Solids: 94.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.531	0.106	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Chromium	**6.28**		1.59	0.372	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Lead	**5.41**		1.59	0.637	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Nickel	**2.49**		1.06	0.276	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Selenium	ND		5.31	1.59	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Silver	ND	^3+	1.06	0.425	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Thallium	ND		3.18	1.38	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Vanadium	**7.71**		1.06	0.457	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1
Zinc	**23.3**		2.12	0.849	mg/Kg	☼	03/08/23 13:50	03/09/23 15:12	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0616	0.0205	mg/Kg	☼	03/08/23 14:08	03/09/23 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.8**		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	**94.2**		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0204'
Date Collected: 03/02/23 11:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-27
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00479	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Acetone	ND		0.0479	0.0107	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Acrylonitrile	ND		0.00479	0.00287	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Benzene	ND		0.00479	0.00320	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Bromobenzene	ND		0.00479	0.00319	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Bromochloromethane	ND		0.00479	0.00272	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Bromodichloromethane	ND		0.00479	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Bromoform	ND		0.00479	0.00366	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Bromomethane	ND		0.00957	0.00596	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
2-Butanone (MEK)	ND		0.00957	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
n-Butylbenzene	ND		0.00957	0.00513	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
sec-Butylbenzene	ND		0.00479	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
tert-Butylbenzene	ND		0.00479	0.00377	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Carbon disulfide	ND		0.00957	0.00336	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Carbon tetrachloride	ND		0.00479	0.00302	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Chlorobenzene	ND		0.00479	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Chloroethane	ND		0.00957	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Chloroform	ND		0.00479	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Chloromethane	ND		0.00957	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
2-Chlorotoluene	ND		0.00479	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
4-Chlorotoluene	ND		0.00479	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2-Dibromo-3-Chloropropane	ND		0.00957	0.00406	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Dibromochloromethane	ND		0.00479	0.00317	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2-Dibromoethane (EDB)	ND		0.00479	0.00344	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Dibromomethane	ND		0.00479	0.00281	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2-Dichlorobenzene	ND		0.00479	0.00444	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,3-Dichlorobenzene	ND		0.00479	0.00384	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,4-Dichlorobenzene	ND		0.00479	0.00454	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Dichlorodifluoromethane (Freon 12)	ND		0.00957	0.00257	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,1-Dichloroethane	ND		0.00479	0.00325	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2-Dichloroethane	ND		0.00479	0.00323	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,1-Dichloroethene	ND		0.00479	0.00293	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
cis-1,2-Dichloroethene	ND		0.00479	0.00277	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
trans-1,2-Dichloroethene	ND		0.00479	0.00298	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2-Dichloropropane	ND		0.00479	0.00317	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,3-Dichloropropane	ND		0.00479	0.00366	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
2,2-Dichloropropane	ND		0.00479	0.00330	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,1-Dichloropropene	ND		0.00479	0.00326	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
cis-1,3-Dichloropropene	ND		0.00479	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
trans-1,3-Dichloropropene	ND		0.00479	0.00364	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Ethylbenzene	ND		0.00479	0.00342	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Hexachlorobutadiene	ND		0.00957	0.00482	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
2-Hexanone (MBK)	ND		0.00957	0.00281	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Isopropylbenzene	ND		0.00479	0.00362	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
4-Isopropyltoluene	ND		0.00479	0.00470	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Methyl tert-butyl ether	ND		0.00479	0.00276	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.00957	0.00309	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Methylene Chloride	ND		0.00957	0.00257	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Naphthalene	ND		0.00479	0.00433	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1

Client Sample ID: 2023-MW-04-0204' **Lab Sample ID: 620-10080-27**
Date Collected: 03/02/23 11:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00479	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Styrene	ND		0.00479	0.00371	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,1,1,2-Tetrachloroethane	ND		0.00479	0.00359	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,1,2,2-Tetrachloroethane	ND		0.00479	0.00438	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Tetrachloroethene	ND		0.00479	0.00266	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Toluene	ND		0.00479	0.00303	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2,3-Trichlorobenzene	ND		0.00479	0.00404	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2,4-Trichlorobenzene	ND		0.00479	0.00441	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,3,5-Trichlorobenzene	ND		0.00479	0.00455	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,1,1-Trichloroethane	ND		0.00479	0.00326	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,1,2-Trichloroethane	ND		0.00479	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Trichloroethene	ND		0.00479	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00479	0.00366	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2,3-Trichloropropane	ND		0.00479	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,2,4-Trimethylbenzene	ND		0.00479	0.00405	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,3,5-Trimethylbenzene	ND		0.00479	0.00407	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Vinyl chloride	ND		0.00479	0.00292	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
m,p-Xylene	ND		0.00479	0.00654	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
o-Xylene	ND		0.00479	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Tetrahydrofuran	ND		0.00957	0.00242	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Ethyl ether	ND		0.00479	0.00252	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Tert-amyl methyl ether	ND		0.00479	0.00378	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Ethyl tert-butyl ether	ND		0.00479	0.00315	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
di-Isopropyl ether	ND		0.00479	0.00342	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
tert-Butanol	ND		0.0957	0.0257	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,4-Dioxane	ND		0.0957	0.0298	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
trans-1,4-Dichloro-2-butene	ND		0.0239	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Ethanol	ND		0.957	0.0594	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
1,3-Dichloropropene, Total	ND		0.00479	0.00364	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1
Xylenes, Total	ND		0.0144	0.00479	mg/Kg	☼	03/07/23 09:52	03/07/23 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:40*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:40*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 19:40*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.350	0.0622	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
1,2,4-Trichlorobenzene	ND		0.350	0.0801	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
1,2-Dichlorobenzene	ND		0.350	0.0674	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
1,3-Dichlorobenzene	ND		0.350	0.0847	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
1,4-Dichlorobenzene	ND		0.350	0.0824	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
1-Methylnaphthalene	ND		0.0707	0.0594	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2,4,5-Trichlorophenol	ND		0.350	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2,4,6-Trichlorophenol	ND		0.177	0.0433	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2,4-Dichlorophenol	ND		0.177	0.0705	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2,4-Dimethylphenol	ND		0.350	0.0513	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2,4-Dinitrophenol	ND		0.350	0.0920	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0204'
Date Collected: 03/02/23 11:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-27
Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.177	0.0414	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2,6-Dinitrotoluene	ND		0.177	0.0414	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2-Chloronaphthalene	ND		0.350	0.0809	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2-Chlorophenol	ND		0.177	0.0724	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2-Methylnaphthalene	ND		0.0707	0.0523	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2-Methylphenol	ND		0.350	0.0511	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2-Nitroaniline	ND		0.350	0.0333	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
2-Nitrophenol	ND		0.177	0.0629	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
3 & 4 Methylphenol	ND		0.350	0.0663	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
3,3'-Dichlorobenzidine	ND		0.350	0.0578	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
3-Nitroaniline	ND		0.350	0.0313	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
4,6-Dinitro-2-methylphenol	ND		0.350	0.0629	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
4-Bromophenyl phenyl ether	ND		0.350	0.0395	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
4-Chloro-3-methylphenol	ND		0.350	0.0685	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
4-Chloroaniline	ND		0.177	0.0268	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
4-Chlorophenyl phenyl ether	ND		0.350	0.0374	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
4-Nitroaniline	ND		0.177	0.0559	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
4-Nitrophenol	ND		0.350	0.122	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Acenaphthene	ND		0.0707	0.0564	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Acenaphthylene	ND		0.0707	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Acetophenone	ND		0.177	0.0431	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Aniline	ND		0.350	0.0268	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Anthracene	ND		0.0707	0.0409	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Azobenzene/Diphenyldiazene	ND		0.350	0.0597	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzidine	ND		0.700	0.104	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzo[a]anthracene	ND		0.0707	0.0398	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzo[a]pyrene	ND		0.0707	0.0506	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzo[b]fluoranthene	ND		0.0707	0.0586	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzo[g,h,i]perylene	ND		0.0707	0.0552	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzo[k]fluoranthene	ND		0.0707	0.0550	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzoic acid	ND	*- *1	0.350	0.241	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Benzyl alcohol	ND		0.350	0.0634	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Bis(2-chloroethoxy)methane	ND		0.350	0.0608	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Bis(2-chloroethyl)ether	ND		0.177	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
bis (2-chloroisopropyl) ether	ND		0.177	0.0788	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Bis(2-ethylhexyl) phthalate	ND		0.177	0.0451	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Butyl benzyl phthalate	ND		0.350	0.0351	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Carbazole	ND		0.177	0.0463	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Chrysene	ND		0.0707	0.0400	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Dibenz(a,h)anthracene	ND		0.0707	0.0540	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Dibenzofuran	ND		0.177	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Diethyl phthalate	ND		0.350	0.0384	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Dimethyl phthalate	ND		0.350	0.0456	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Di-n-butyl phthalate	ND		0.350	0.0374	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Di-n-octyl phthalate	ND		0.350	0.0578	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Fluoranthene	ND		0.0707	0.0414	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Fluorene	ND		0.0707	0.0646	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Hexachlorobenzene	ND		0.177	0.0491	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Hexachlorobutadiene	ND		0.177	0.0883	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1

Client Sample ID: 2023-MW-04-0204' **Lab Sample ID: 620-10080-27**
Date Collected: 03/02/23 11:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.177	0.0676	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Hexachloroethane	ND		0.177	0.0695	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0707	0.0600	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Isophorone	ND		0.177	0.0484	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Naphthalene	ND		0.0707	0.0678	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Nitrobenzene	ND		0.177	0.0817	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
N-Nitrosodimethylamine	ND		0.177	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
N-Nitrosodi-n-propylamine	ND		0.177	0.0705	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
N-Nitrosodiphenylamine	ND		0.350	0.0446	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Pentachloronitrobenzene	ND		0.350	0.0552	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Pentachlorophenol	ND		0.350	0.143	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Phenanthrene	ND		0.0707	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Phenol	ND		0.350	0.0721	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Pyrene	ND		0.0707	0.0390	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1
Pyridine	ND		0.350	0.0828	mg/Kg	☼	03/13/23 11:00	03/14/23 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/13/23 11:00*	*03/14/23 04:33*	*1*
2-Fluorophenol (Surr)	*98*		*15 - 110*	*03/13/23 11:00*	*03/14/23 04:33*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/13/23 11:00*	*03/14/23 04:33*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/13/23 11:00*	*03/14/23 04:33*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/13/23 11:00*	*03/14/23 04:33*	*1*
Terphenyl-d14	*97*		*30 - 130*	*03/13/23 11:00*	*03/14/23 04:33*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.277	0.142	mg/Kg			03/07/23 11:23	1
C9-C12 Aliphatics (adjusted)	ND		0.277	0.119	mg/Kg			03/07/23 11:23	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0554	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
Ethylbenzene	ND		0.0554	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
Methyl tert-butyl ether	ND		0.0554	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
Naphthalene	ND		0.0554	0.0377	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
o-Xylene	ND		0.0554	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
Toluene	ND		0.0554	0.0111	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
C5-C8 Aliphatics (unadjusted)	ND		0.277	0.142	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
C9-C10 Aromatics	ND		0.277	0.0388	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1
C9-C12 Aliphatics (unadjusted)	ND		0.277	0.119	mg/Kg	☼	03/06/23 10:00	03/07/23 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/06/23 10:00*	*03/07/23 03:06*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/06/23 10:00*	*03/07/23 03:06*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0212	0.0153	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1
PCB-1221	ND		0.0212	0.00626	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1
PCB-1232	ND		0.0212	0.00587	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1

Client Sample ID: 2023-MW-04-0204' **Lab Sample ID: 620-10080-27**
Date Collected: 03/02/23 11:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0212	0.00335	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1
PCB-1248	ND		0.0212	0.00662	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1
PCB-1254	**0.320**		0.0212	0.0165	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1
PCB-1262	ND		0.0212	0.00494	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1
PCB-1260	ND		0.0212	0.00456	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1
PCB-1268	ND		0.0212	0.00451	mg/Kg	☼	03/09/23 15:17	03/10/23 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*03/09/23 15:17*	*03/10/23 21:37*	*1*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/09/23 15:17*	*03/10/23 21:37*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/09/23 15:17*	*03/10/23 21:37*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:17*	*03/10/23 21:37*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluoroheptanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorooctanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorononanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorodecanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorotridecanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorotetradecanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorobutanesulfonic acid	ND		2.15	0.431	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorohexanesulfonic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorooctanesulfonic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
NEtFOSAA	ND		2.15	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
NMeFOSAA	ND		2.15	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
10:2 FTS	ND		2.15	0.646	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluoropentanesulfonic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluoroheptanesulfonic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorononanesulfonic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorodecanesulfonic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.15	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorooctanesulfonamide	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorohexadecanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorooctadecanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorobutanoic acid	ND		2.15	0.861	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluoropentanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
NMeFOSE	ND		2.15	0.538	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
NMeFOSA	ND		2.15	0.538	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
NEtFOSE	ND		2.15	0.538	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
NEtFOSA	ND		2.15	0.538	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
HFPODA	ND		2.15	1.08	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
DONA	ND		3.23	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
9Cl-PF3ONS	ND		2.15	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
11Cl-PF3OUdS	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluorododecanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
4:2 Fluorotelomer sulfonic acid	ND		2.15	0.646	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
Perfluoroundecanoic acid	ND		0.646	0.215	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1

Client Sample ID: 2023-MW-04-0204' **Lab Sample ID: 620-10080-27**
Date Collected: 03/02/23 11:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.15	0.646	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.646	ug/Kg	☼	03/07/23 22:57	03/16/23 08:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*10 - 200*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
M2-8:2 FTS	*110*		*15 - 200*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
M2-6:2 FTS	*101*		*10 - 200*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C4 PFHpA	*105*		*10 - 178*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C9 PFNA	*110*		*26 - 165*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C7 PFUnA	*109*		*12 - 173*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C2-PFDoDA	*107*		*11 - 166*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C2 PFTeDA	*116*		*10 - 169*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
d3-NMeFOSAA	*46*		*10 - 178*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
d5-NEtFOSAA	*53*		*10 - 193*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C8 FOSA	*86*		*14 - 163*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C4 PFBA	*96*		*28 - 153*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C5 PFPeA	*91*		*24 - 161*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
d7-N-MeFOSE-M	*80*		*10 - 179*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
d3-NMePFOSA	*53*		*10 - 175*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
d5-NEtPFOSA	*54*		*10 - 180*	*03/07/23 22:57*	*03/16/23 08:13*	*1*
13C3 HFPO-DA	*97*		*10 - 169*	*03/07/23 22:57*	*03/16/23 08:13*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.56	1.55	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Arsenic	**2.52**	**J**	2.74	1.28	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Barium	**21.6**		0.456	0.137	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Beryllium	**0.203**	**J**	0.456	0.0912	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Cadmium	ND		0.456	0.0912	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Chromium	**3.98**		1.37	0.319	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Lead	**4.24**		1.37	0.547	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Nickel	**2.09**		0.912	0.237	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Selenium	ND		4.56	1.37	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Silver	ND	^3+	0.912	0.365	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Thallium	ND		2.74	1.19	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Vanadium	**6.38**		0.912	0.392	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1
Zinc	**17.8**		1.82	0.730	mg/Kg	☼	03/08/23 13:50	03/09/23 15:35	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0596	0.0199	mg/Kg	☼	03/08/23 13:59	03/09/23 09:03	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0204'
Date Collected: 03/02/23 11:15
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-27
Matrix: Solid
Percent Solids: 92.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.1		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	92.9		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0406'
Date Collected: 03/02/23 11:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-28
Matrix: Solid
Percent Solids: 84.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00587	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Acetone	ND		0.0587	0.0132	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Acrylonitrile	ND		0.00587	0.00352	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Benzene	ND		0.00587	0.00392	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Bromobenzene	ND		0.00587	0.00391	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Bromochloromethane	ND		0.00587	0.00334	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Bromodichloromethane	ND		0.00587	0.00431	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Bromoform	ND		0.00587	0.00449	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Bromomethane	ND		0.0117	0.00732	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
2-Butanone (MEK)	ND		0.0117	0.00468	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
n-Butylbenzene	ND		0.0117	0.00630	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
sec-Butylbenzene	ND		0.00587	0.00473	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
tert-Butylbenzene	ND		0.00587	0.00463	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Carbon disulfide	ND		0.0117	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Carbon tetrachloride	ND		0.00587	0.00370	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Chlorobenzene	ND		0.00587	0.00430	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Chloroethane	ND		0.0117	0.00431	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Chloroform	ND		0.00587	0.00395	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Chloromethane	ND		0.0117	0.00451	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
2-Chlorotoluene	ND		0.00587	0.00468	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
4-Chlorotoluene	ND		0.00587	0.00510	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2-Dibromo-3-Chloropropane	ND		0.0117	0.00498	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Dibromochloromethane	ND		0.00587	0.00389	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2-Dibromoethane (EDB)	ND		0.00587	0.00422	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Dibromomethane	ND		0.00587	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2-Dichlorobenzene	ND		0.00587	0.00545	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,3-Dichlorobenzene	ND		0.00587	0.00471	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,4-Dichlorobenzene	ND		0.00587	0.00557	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Dichlorodifluoromethane (Freon 12)	ND		0.0117	0.00315	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,1-Dichloroethane	ND		0.00587	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2-Dichloroethane	ND		0.00587	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,1-Dichloroethene	ND		0.00587	0.00360	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
cis-1,2-Dichloroethene	ND		0.00587	0.00340	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
trans-1,2-Dichloroethene	ND		0.00587	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2-Dichloropropane	ND		0.00587	0.00389	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,3-Dichloropropane	ND		0.00587	0.00449	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
2,2-Dichloropropane	ND		0.00587	0.00405	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,1-Dichloropropene	ND		0.00587	0.00399	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
cis-1,3-Dichloropropene	ND		0.00587	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
trans-1,3-Dichloropropene	ND		0.00587	0.00446	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Ethylbenzene	ND		0.00587	0.00419	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Hexachlorobutadiene	ND		0.0117	0.00591	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
2-Hexanone (MBK)	ND		0.0117	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Isopropylbenzene	ND		0.00587	0.00444	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
4-Isopropyltoluene	ND		0.00587	0.00577	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Methyl tert-butyl ether	ND		0.00587	0.00338	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		0.0117	0.00380	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Methylene Chloride	ND		0.0117	0.00315	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Naphthalene	ND		0.00587	0.00531	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1

Client Sample ID: 2023-MW-04-0406' **Lab Sample ID: 620-10080-28**
Date Collected: 03/02/23 11:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 84.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00587	0.00497	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Styrene	ND		0.00587	0.00455	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,1,1,2-Tetrachloroethane	ND		0.00587	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,1,2,2-Tetrachloroethane	ND	F1	0.00587	0.00538	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Tetrachloroethene	ND		0.00587	0.00327	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Toluene	ND		0.00587	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2,3-Trichlorobenzene	ND		0.00587	0.00496	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2,4-Trichlorobenzene	ND		0.00587	0.00542	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,3,5-Trichlorobenzene	ND		0.00587	0.00558	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,1,1-Trichloroethane	ND		0.00587	0.00401	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,1,2-Trichloroethane	ND	F1	0.00587	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Trichloroethene	ND		0.00587	0.00395	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Trichlorofluoromethane (Freon 11)	ND		0.00587	0.00449	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2,3-Trichloropropane	ND		0.00587	0.00522	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,2,4-Trimethylbenzene	ND		0.00587	0.00497	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,3,5-Trimethylbenzene	ND		0.00587	0.00499	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Vinyl chloride	ND		0.00587	0.00358	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
m,p-Xylene	ND		0.00587	0.00802	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
o-Xylene	ND		0.00587	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Tetrahydrofuran	ND		0.0117	0.00297	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Ethyl ether	ND		0.00587	0.00309	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Tert-amyl methyl ether	ND		0.00587	0.00464	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Ethyl tert-butyl ether	ND		0.00587	0.00387	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
di-Isopropyl ether	ND		0.00587	0.00419	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
tert-Butanol	ND		0.117	0.0315	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,4-Dioxane	ND		0.117	0.0365	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
trans-1,4-Dichloro-2-butene	ND		0.0294	0.00434	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Ethanol	ND		1.17	0.0728	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
1,3-Dichloropropene, Total	ND		0.00587	0.00446	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1
Xylenes, Total	ND		0.0176	0.00587	mg/Kg	☼	03/06/23 09:50	03/06/23 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:34*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:34*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 15:34*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.390	0.0694	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
1,2,4-Trichlorobenzene	ND		0.390	0.0893	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
1,2-Dichlorobenzene	ND		0.390	0.0751	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
1,3-Dichlorobenzene	ND		0.390	0.0944	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
1,4-Dichlorobenzene	ND		0.390	0.0918	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
1-Methylnaphthalene	ND		0.0788	0.0662	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2,4,5-Trichlorophenol	ND		0.390	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2,4,6-Trichlorophenol	ND		0.197	0.0482	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2,4-Dichlorophenol	ND		0.197	0.0786	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2,4-Dimethylphenol	ND		0.390	0.0572	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2,4-Dinitrophenol	ND		0.390	0.103	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0406'
Date Collected: 03/02/23 11:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-28
Matrix: Solid
Percent Solids: 84.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.197	0.0462	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2,6-Dinitrotoluene	ND		0.197	0.0462	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2-Chloronaphthalene	ND		0.390	0.0901	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2-Chlorophenol	ND		0.197	0.0807	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2-Methylnaphthalene	ND		0.0788	0.0582	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2-Methylphenol	ND		0.390	0.0569	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2-Nitroaniline	ND		0.390	0.0371	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
2-Nitrophenol	ND		0.197	0.0701	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
3 & 4 Methylphenol	ND		0.390	0.0738	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
3,3'-Dichlorobenzidine	ND		0.390	0.0644	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
3-Nitroaniline	ND		0.390	0.0349	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
4,6-Dinitro-2-methylphenol	ND		0.390	0.0701	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
4-Bromophenyl phenyl ether	ND		0.390	0.0441	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
4-Chloro-3-methylphenol	ND		0.390	0.0763	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
4-Chloroaniline	ND		0.197	0.0299	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
4-Chlorophenyl phenyl ether	ND		0.390	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
4-Nitroaniline	ND		0.197	0.0623	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
4-Nitrophenol	ND		0.390	0.136	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Acenaphthene	ND		0.0788	0.0629	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Acenaphthylene	ND		0.0788	0.0517	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Acetophenone	ND		0.197	0.0481	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Aniline	ND		0.390	0.0299	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Anthracene	ND		0.0788	0.0456	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Azobenzene/Diphenyldiazene	ND		0.390	0.0665	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzidine	ND	F1 F2	0.780	0.115	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzo[a]anthracene	ND		0.0788	0.0443	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzo[a]pyrene	ND		0.0788	0.0564	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzo[b]fluoranthene	ND		0.0788	0.0653	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzo[g,h,i]perylene	ND		0.0788	0.0616	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzo[k]fluoranthene	ND		0.0788	0.0613	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzoic acid	ND	*- *1	0.390	0.268	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Benzyl alcohol	ND		0.390	0.0707	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Bis(2-chloroethoxy)methane	ND		0.390	0.0678	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Bis(2-chloroethyl)ether	ND		0.197	0.0645	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
bis (2-chloroisopropyl) ether	ND		0.197	0.0878	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Bis(2-ethylhexyl) phthalate	ND		0.197	0.0502	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Butyl benzyl phthalate	ND		0.390	0.0391	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Carbazole	ND		0.197	0.0516	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Chrysene	ND		0.0788	0.0445	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Dibenz(a,h)anthracene	ND		0.0788	0.0601	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Dibenzofuran	ND		0.197	0.0683	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Diethyl phthalate	ND		0.390	0.0428	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Dimethyl phthalate	ND		0.390	0.0508	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Di-n-butyl phthalate	ND		0.390	0.0417	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Di-n-octyl phthalate	ND		0.390	0.0644	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Fluoranthene	ND		0.0788	0.0462	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Fluorene	ND		0.0788	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Hexachlorobenzene	ND		0.197	0.0547	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Hexachlorobutadiene	ND		0.197	0.0984	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1

Client Sample ID: 2023-MW-04-0406' **Lab Sample ID: 620-10080-28**
Date Collected: 03/02/23 11:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 84.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND	F1 F2	0.197	0.0754	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Hexachloroethane	ND		0.197	0.0775	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0788	0.0669	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Isophorone	ND		0.197	0.0540	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Naphthalene	ND		0.0788	0.0756	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Nitrobenzene	ND		0.197	0.0911	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
N-Nitrosodimethylamine	ND		0.197	0.0517	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
N-Nitrosodi-n-propylamine	ND		0.197	0.0786	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
N-Nitrosodiphenylamine	ND		0.390	0.0497	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Pentachloronitrobenzene	ND		0.390	0.0616	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Pentachlorophenol	ND		0.390	0.160	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Phenanthrene	ND		0.0788	0.0447	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Phenol	ND		0.390	0.0803	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Pyrene	ND		0.0788	0.0435	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1
Pyridine	ND		0.390	0.0923	mg/Kg	☼	03/13/23 11:00	03/14/23 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/13/23 11:00*	*03/14/23 05:01*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/13/23 11:00*	*03/14/23 05:01*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/13/23 11:00*	*03/14/23 05:01*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/13/23 11:00*	*03/14/23 05:01*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/13/23 11:00*	*03/14/23 05:01*	*1*
Terphenyl-d14	*92*		*30 - 130*	*03/13/23 11:00*	*03/14/23 05:01*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.266	0.136	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.266	0.114	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
Ethylbenzene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
Methyl tert-butyl ether	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
Naphthalene	**0.0391**	**J B**	0.0532	0.0362	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
o-Xylene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
Toluene	ND		0.0532	0.0106	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.266	0.136	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
C9-C10 Aromatics	ND		0.266	0.0372	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1
C9-C12 Aliphatics (unadjusted)	ND		0.266	0.114	mg/Kg	☼	03/07/23 07:22	03/07/23 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/07/23 07:22*	*03/07/23 10:39*	*1*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*	*03/07/23 07:22*	*03/07/23 10:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1
PCB-1221	ND		0.0228	0.00673	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1
PCB-1232	ND		0.0228	0.00631	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1

Client Sample ID: 2023-MW-04-0406' **Lab Sample ID: 620-10080-28**
Date Collected: 03/02/23 11:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 84.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00360	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1
PCB-1248	ND		0.0228	0.00712	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1
PCB-1254	**0.160**		0.0228	0.0177	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1
PCB-1262	ND		0.0228	0.00531	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1
PCB-1260	ND	F1	0.0228	0.00490	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1
PCB-1268	ND		0.0228	0.00485	mg/Kg	☼	03/13/23 14:49	03/15/23 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*123*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:40*	*1*
Tetrachloro-m-xylene	*123*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:40*	*1*
DCB Decachlorobiphenyl (Surr)	*124*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:40*	*1*
DCB Decachlorobiphenyl (Surr)	*135*		*30 - 150*	*03/13/23 14:49*	*03/15/23 13:40*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluoroheptanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorooctanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorononanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorodecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorotridecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorotetradecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorobutanesulfonic acid	ND		2.36	0.471	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorohexanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorooctanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
NEtFOSAA	ND		2.36	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
NMeFOSAA	ND		2.36	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
10:2 FTS	ND		2.36	0.707	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluoropentanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluoroheptanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorononanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorodecanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.36	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorooctanesulfonamide	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorohexadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorooctadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorobutanoic acid	ND		2.36	0.942	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluoropentanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
NMeFOSE	ND		2.36	0.589	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
NMeFOSA	ND		2.36	0.589	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
NEtFOSE	ND		2.36	0.589	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
NEtFOSA	ND		2.36	0.589	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
HFPODA	ND		2.36	1.18	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
DONA	ND		3.53	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
9Cl-PF3ONS	ND		2.36	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
11Cl-PF3OUdS	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluorododecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
4:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
Perfluoroundecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1

Client Sample ID: 2023-MW-04-0406' **Lab Sample ID: 620-10080-28**
Date Collected: 03/02/23 11:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 84.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1
8:2 Fluorotelomer sulfonic acid	ND		3.53	0.707	ug/Kg	☼	03/07/23 22:53	03/15/23 21:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*98*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
M2-8:2 FTS	*103*		*15 - 200*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
M2-6:2 FTS	*115*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C5 PFHxA	*112*		*10 - 174*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C4 PFHpA	*116*		*10 - 178*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C9 PFNA	*120*		*26 - 165*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C6 PFDA	*112*		*26 - 161*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C3 PFBS	*122*		*27 - 179*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C3 PFHxS	*116*		*24 - 171*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C8 PFOS	*120*		*41 - 154*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
d3-NMeFOSAA	*85*		*10 - 178*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
d5-NEtFOSAA	*93*		*10 - 193*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C8 FOSA	*103*		*14 - 163*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C4 PFBA	*113*		*28 - 153*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C5 PFPeA	*103*		*24 - 161*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
d7-N-MeFOSE-M	*110*		*10 - 179*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
d3-NMePFOSA	*95*		*10 - 175*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
d9-N-EtFOSE-M	*106*		*10 - 185*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
d5-NEtPFOSA	*97*		*10 - 180*	*03/07/23 22:53*	*03/15/23 21:40*	*1*
13C3 HFPO-DA	*98*		*10 - 169*	*03/07/23 22:53*	*03/15/23 21:40*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.89	2.00	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Arsenic	**2.48**	**J**	3.53	1.65	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Barium	**17.7**		0.589	0.177	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Beryllium	**0.163**	**J**	0.589	0.118	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Cadmium	ND		0.589	0.118	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Chromium	**3.87**		1.77	0.412	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Lead	**3.20**		1.77	0.707	mg/Kg	☼	03/08/23 20:04	03/10/23 13:46	1
Nickel	**1.76**		1.18	0.306	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Selenium	ND		5.89	1.77	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Silver	ND		1.18	0.471	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Thallium	**2.16**	**J**	3.53	1.53	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Vanadium	**6.04**		1.18	0.507	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1
Zinc	**19.8**		2.36	0.942	mg/Kg	☼	03/08/23 20:04	03/09/23 21:43	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0714	0.0238	mg/Kg	☼	03/09/23 23:15	03/10/23 10:50	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0406'
Date Collected: 03/02/23 11:20
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-28
Matrix: Solid
Percent Solids: 84.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.9		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	84.1		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0608'
Date Collected: 03/02/23 11:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-29
Matrix: Solid
Percent Solids: 74.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00593	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Acetone	ND		0.0593	0.0133	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Acrylonitrile	ND		0.00593	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Benzene	ND		0.00593	0.00396	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Bromobenzene	ND		0.00593	0.00395	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Bromochloromethane	ND		0.00593	0.00337	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Bromodichloromethane	ND		0.00593	0.00435	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Bromoform	ND		0.00593	0.00453	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Bromomethane	ND		0.0119	0.00738	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
2-Butanone (MEK)	ND		0.0119	0.00472	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
n-Butylbenzene	ND		0.0119	0.00635	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
sec-Butylbenzene	ND		0.00593	0.00478	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
tert-Butylbenzene	ND		0.00593	0.00467	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Carbon disulfide	ND		0.0119	0.00416	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Carbon tetrachloride	ND		0.00593	0.00373	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Chlorobenzene	ND		0.00593	0.00434	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Chloroethane	ND		0.0119	0.00435	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Chloroform	ND		0.00593	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Chloromethane	ND		0.0119	0.00455	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
2-Chlorotoluene	ND		0.00593	0.00472	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
4-Chlorotoluene	ND		0.00593	0.00514	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2-Dibromo-3-Chloropropane	ND		0.0119	0.00502	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Dibromochloromethane	ND		0.00593	0.00392	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2-Dibromoethane (EDB)	ND		0.00593	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Dibromomethane	ND		0.00593	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2-Dichlorobenzene	ND		0.00593	0.00550	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,3-Dichlorobenzene	ND		0.00593	0.00475	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,4-Dichlorobenzene	ND		0.00593	0.00562	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Dichlorodifluoromethane (Freon 12)	ND		0.0119	0.00318	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,1-Dichloroethane	ND		0.00593	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2-Dichloroethane	ND		0.00593	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,1-Dichloroethene	ND		0.00593	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
cis-1,2-Dichloroethene	ND		0.00593	0.00342	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
trans-1,2-Dichloroethene	ND		0.00593	0.00369	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2-Dichloropropane	ND		0.00593	0.00392	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,3-Dichloropropane	ND		0.00593	0.00453	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
2,2-Dichloropropane	ND		0.00593	0.00409	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,1-Dichloropropene	ND		0.00593	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
cis-1,3-Dichloropropene	ND		0.00593	0.00386	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
trans-1,3-Dichloropropene	ND		0.00593	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Ethylbenzene	ND		0.00593	0.00423	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Hexachlorobutadiene	ND		0.0119	0.00596	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
2-Hexanone (MBK)	ND		0.0119	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Isopropylbenzene	ND		0.00593	0.00448	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
4-Isopropyltoluene	ND		0.00593	0.00582	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Methyl tert-butyl ether	ND		0.00593	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0119	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Methylene Chloride	ND		0.0119	0.00318	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Naphthalene	ND		0.00593	0.00536	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1

Client Sample ID: 2023-MW-04-0608' **Lab Sample ID: 620-10080-29**
Date Collected: 03/02/23 11:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 74.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00593	0.00501	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Styrene	ND		0.00593	0.00459	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,1,1,2-Tetrachloroethane	ND		0.00593	0.00444	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,1,2,2-Tetrachloroethane	ND		0.00593	0.00543	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Tetrachloroethene	ND		0.00593	0.00329	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Toluene	ND		0.00593	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2,3-Trichlorobenzene	ND		0.00593	0.00500	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2,4-Trichlorobenzene	ND		0.00593	0.00546	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,3,5-Trichlorobenzene	ND		0.00593	0.00563	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,1,1-Trichloroethane	ND		0.00593	0.00404	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,1,2-Trichloroethane	ND		0.00593	0.00447	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Trichloroethene	ND		0.00593	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00593	0.00453	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2,3-Trichloropropane	ND		0.00593	0.00526	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,2,4-Trimethylbenzene	ND		0.00593	0.00501	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,3,5-Trimethylbenzene	ND		0.00593	0.00504	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Vinyl chloride	ND		0.00593	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
m,p-Xylene	ND		0.00593	0.00809	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
o-Xylene	ND		0.00593	0.00433	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Tetrahydrofuran	ND		0.0119	0.00300	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Ethyl ether	ND		0.00593	0.00312	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Tert-amyl methyl ether	ND		0.00593	0.00468	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Ethyl tert-butyl ether	ND		0.00593	0.00390	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
di-Isopropyl ether	ND		0.00593	0.00423	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
tert-Butanol	ND		0.119	0.0318	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,4-Dioxane	ND		0.119	0.0369	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
trans-1,4-Dichloro-2-butene	ND		0.0296	0.00437	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Ethanol	ND		1.19	0.0735	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
1,3-Dichloropropene, Total	ND		0.00593	0.00450	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1
Xylenes, Total	ND		0.0178	0.00593	mg/Kg	☼	03/07/23 09:52	03/07/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:06*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.435	0.0773	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
1,2,4-Trichlorobenzene	ND		0.435	0.0996	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
1,2-Dichlorobenzene	ND		0.435	0.0838	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
1,3-Dichlorobenzene	ND		0.435	0.105	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
1,4-Dichlorobenzene	ND		0.435	0.102	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
1-Methylnaphthalene	ND		0.0878	0.0738	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2,4,5-Trichlorophenol	ND		0.435	0.0498	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2,4,6-Trichlorophenol	ND		0.220	0.0537	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2,4-Dichlorophenol	ND		0.220	0.0876	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2,4-Dimethylphenol	ND		0.435	0.0637	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2,4-Dinitrophenol	ND		0.435	0.114	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0608'
Date Collected: 03/02/23 11:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-29
Matrix: Solid
Percent Solids: 74.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.220	0.0515	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2,6-Dinitrotoluene	ND		0.220	0.0515	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2-Chloronaphthalene	ND		0.435	0.100	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2-Chlorophenol	ND		0.220	0.0899	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2-Methylnaphthalene	ND		0.0878	0.0649	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2-Methylphenol	ND		0.435	0.0635	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2-Nitroaniline	ND		0.435	0.0414	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
2-Nitrophenol	ND		0.220	0.0781	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
3 & 4 Methylphenol	ND		0.435	0.0823	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
3,3'-Dichlorobenzidine	ND		0.435	0.0718	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
3-Nitroaniline	ND		0.435	0.0389	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
4,6-Dinitro-2-methylphenol	ND		0.435	0.0781	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
4-Bromophenyl phenyl ether	ND		0.435	0.0491	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
4-Chloro-3-methylphenol	ND		0.435	0.0851	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
4-Chloroaniline	ND		0.220	0.0333	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
4-Chlorophenyl phenyl ether	ND		0.435	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
4-Nitroaniline	ND		0.220	0.0694	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
4-Nitrophenol	ND		0.435	0.151	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Acenaphthene	ND		0.0878	0.0701	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Acenaphthylene	ND		0.0878	0.0577	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Acetophenone	ND		0.220	0.0536	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Aniline	ND		0.435	0.0333	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Anthracene	ND		0.0878	0.0508	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Azobenzene/Diphenyldiazene	ND		0.435	0.0741	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzidine	ND		0.869	0.129	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzo[a]anthracene	ND		0.0878	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzo[a]pyrene	ND		0.0878	0.0628	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzo[b]fluoranthene	ND		0.0878	0.0728	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzo[g,h,i]perylene	ND		0.0878	0.0686	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzo[k]fluoranthene	ND		0.0878	0.0684	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzoic acid	ND	*- *1	0.435	0.299	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Benzyl alcohol	ND		0.435	0.0788	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Bis(2-chloroethoxy)methane	ND		0.435	0.0756	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Bis(2-chloroethyl)ether	ND		0.220	0.0719	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
bis (2-chloroisopropyl) ether	ND		0.220	0.0979	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Bis(2-ethylhexyl) phthalate	ND		0.220	0.0560	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Butyl benzyl phthalate	ND		0.435	0.0436	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Carbazole	ND		0.220	0.0576	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Chrysene	ND		0.0878	0.0496	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Dibenz(a,h)anthracene	ND		0.0878	0.0670	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Dibenzofuran	ND		0.220	0.0761	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Diethyl phthalate	ND		0.435	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Dimethyl phthalate	ND		0.435	0.0566	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Di-n-butyl phthalate	ND		0.435	0.0465	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Di-n-octyl phthalate	ND		0.435	0.0718	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Fluoranthene	ND		0.0878	0.0515	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Fluorene	ND		0.0878	0.0802	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Hexachlorobenzene	ND		0.220	0.0610	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Hexachlorobutadiene	ND		0.220	0.110	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1

Client Sample ID: 2023-MW-04-0608' **Lab Sample ID: 620-10080-29**
Date Collected: 03/02/23 11:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 74.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.220	0.0840	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Hexachloroethane	ND		0.220	0.0864	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0878	0.0745	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Isophorone	ND		0.220	0.0602	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Naphthalene	ND		0.0878	0.0843	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Nitrobenzene	ND		0.220	0.102	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
N-Nitrosodimethylamine	ND		0.220	0.0577	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
N-Nitrosodi-n-propylamine	ND		0.220	0.0876	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
N-Nitrosodiphenylamine	ND		0.435	0.0554	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Pentachloronitrobenzene	ND		0.435	0.0686	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Pentachlorophenol	**0.222**	**J**	0.435	0.178	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Phenanthrene	ND		0.0878	0.0498	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Phenol	ND		0.435	0.0896	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Pyrene	ND		0.0878	0.0485	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1
Pyridine	ND		0.435	0.103	mg/Kg	☼	03/13/23 11:00	03/14/23 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/13/23 11:00*	*03/14/23 15:08*	*1*
2-Fluorophenol (Surr)	*107*		*15 - 110*	*03/13/23 11:00*	*03/14/23 15:08*	*1*
Nitrobenzene-d5 (Surr)	*97*		*30 - 130*	*03/13/23 11:00*	*03/14/23 15:08*	*1*
Phenol-d5 (Surr)	*94*		*15 - 110*	*03/13/23 11:00*	*03/14/23 15:08*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/13/23 11:00*	*03/14/23 15:08*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/13/23 11:00*	*03/14/23 15:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.286	0.146	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.286	0.122	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0572	0.0114	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
Ethylbenzene	ND		0.0572	0.0114	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
Methyl tert-butyl ether	ND		0.0572	0.0114	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
m,p-Xylene	ND		0.114	0.0114	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
Naphthalene	ND		0.0572	0.0389	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
o-Xylene	ND		0.0572	0.0114	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
Toluene	ND		0.0572	0.0114	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
C5-C8 Aliphatics (unadjusted)	ND		0.286	0.146	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
C9-C10 Aromatics	ND		0.286	0.0400	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1
C9-C12 Aliphatics (unadjusted)	ND		0.286	0.122	mg/Kg	☼	03/07/23 07:22	03/07/23 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/07/23 07:22*	*03/07/23 12:37*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/07/23 07:22*	*03/07/23 12:37*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0262	0.0189	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1
PCB-1221	ND		0.0262	0.00775	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1
PCB-1232	ND		0.0262	0.00727	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1

Client Sample ID: 2023-MW-04-0608' **Lab Sample ID: 620-10080-29**
Date Collected: 03/02/23 11:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 74.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0262	0.00415	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1
PCB-1248	ND		0.0262	0.00820	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1
PCB-1254	**0.141**		0.0262	0.0204	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1
PCB-1262	ND		0.0262	0.00611	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1
PCB-1260	ND		0.0262	0.00564	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1
PCB-1268	ND		0.0262	0.00559	mg/Kg	☼	03/09/23 15:17	03/11/23 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*30 - 150*	*03/09/23 15:17*	*03/11/23 06:46*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/09/23 15:17*	*03/11/23 06:46*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/09/23 15:17*	*03/11/23 06:46*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*03/09/23 15:17*	*03/11/23 06:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluoroheptanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorooctanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorononanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorodecanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorotridecanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorotetradecanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorobutanesulfonic acid	ND		2.47	0.495	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorohexanesulfonic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorooctanesulfonic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
NEtFOSAA	ND		2.47	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
NMeFOSAA	ND		2.47	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
10:2 FTS	ND		2.47	0.742	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluoropentanesulfonic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluoroheptanesulfonic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorononanesulfonic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorodecanesulfonic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.47	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorooctanesulfonamide	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorohexadecanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorooctadecanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorobutanoic acid	ND		2.47	0.990	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluoropentanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
NMeFOSE	ND		2.47	0.619	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
NMeFOSA	ND		2.47	0.619	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
NEtFOSE	ND		2.47	0.619	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
NEtFOSA	ND		2.47	0.619	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
HFPODA	ND		2.47	1.24	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
DONA	ND		3.71	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
9Cl-PF3ONS	ND		2.47	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
11Cl-PF3OUdS	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluorododecanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
4:2 Fluorotelomer sulfonic acid	ND		2.47	0.742	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
Perfluoroundecanoic acid	ND		0.742	0.247	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1

Client Sample ID: 2023-MW-04-0608' **Lab Sample ID: 620-10080-29**
Date Collected: 03/02/23 11:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 74.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.47	0.742	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1
8:2 Fluorotelomer sulfonic acid	ND		3.71	0.742	ug/Kg	☼	03/23/23 15:12	03/27/23 20:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
M2-8:2 FTS	*122*		*15 - 200*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
M2-6:2 FTS	*127*		*10 - 200*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C5 PFHxA	*136*		*10 - 174*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C4 PFHpA	*138*		*10 - 178*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C8 PFOA	*130*		*26 - 159*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C9 PFNA	*117*		*26 - 165*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C6 PFDA	*118*		*26 - 161*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C2-PFDoDA	*129*		*11 - 166*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C2 PFTeDA	*152*		*10 - 169*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C3 PFBS	*132*		*27 - 179*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C3 PFHxS	*141*		*24 - 171*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C8 FOSA	*127*		*14 - 163*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C4 PFBA	*113*		*28 - 153*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C5 PFPeA	*116*		*24 - 161*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
d7-N-MeFOSE-M	*122*		*10 - 179*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
d3-NMePFOSA	*119*		*10 - 175*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
d9-N-EtFOSE-M	*140*		*10 - 185*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
d5-NEtPFOSA	*121*		*10 - 180*	*03/23/23 15:12*	*03/27/23 20:25*	*1*
13C3 HFPO-DA	*112*		*10 - 169*	*03/23/23 15:12*	*03/27/23 20:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.61	1.57	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Arsenic	**8.20**		2.76	1.29	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Barium	**94.7**		0.461	0.138	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Beryllium	**1.41**		0.461	0.0921	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Cadmium	ND		0.461	0.0921	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Chromium	**25.3**		1.38	0.322	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Lead	**12.5**		1.38	0.553	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Nickel	**13.3**		0.921	0.240	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Selenium	ND		4.61	1.38	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Silver	ND	^3+	0.921	0.369	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Thallium	ND		27.6	12.0	mg/Kg	☼	03/08/23 13:50	03/09/23 16:13	10
Vanadium	**42.3**		0.921	0.396	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1
Zinc	**59.5**		1.84	0.737	mg/Kg	☼	03/08/23 13:50	03/09/23 15:05	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0751	0.0250	mg/Kg	☼	03/08/23 13:59	03/09/23 08:57	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0608'
Date Collected: 03/02/23 11:25
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-29
Matrix: Solid
Percent Solids: 74.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	25.1		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	74.9		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0810'
Date Collected: 03/02/23 11:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-30
Matrix: Solid
Percent Solids: 77.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00475	0.00310	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Acetone	ND		0.0475	0.0107	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Acrylonitrile	ND		0.00475	0.00285	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Benzene	ND		0.00475	0.00318	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Bromobenzene	ND		0.00475	0.00317	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Bromochloromethane	ND		0.00475	0.00270	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Bromodichloromethane	ND		0.00475	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Bromoform	ND		0.00475	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Bromomethane	ND		0.00951	0.00592	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
2-Butanone (MEK)	ND		0.00951	0.00378	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
n-Butylbenzene	ND		0.00951	0.00510	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
sec-Butylbenzene	ND		0.00475	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
tert-Butylbenzene	ND		0.00475	0.00375	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Carbon disulfide	ND		0.00951	0.00334	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Carbon tetrachloride	ND		0.00475	0.00300	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Chlorobenzene	ND		0.00475	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Chloroethane	ND		0.00951	0.00349	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Chloroform	ND		0.00475	0.00320	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Chloromethane	ND		0.00951	0.00365	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
2-Chlorotoluene	ND		0.00475	0.00378	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
4-Chlorotoluene	ND		0.00475	0.00413	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2-Dibromo-3-Chloropropane	ND		0.00951	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Dibromochloromethane	ND		0.00475	0.00315	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2-Dibromoethane (EDB)	ND		0.00475	0.00341	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Dibromomethane	ND		0.00475	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2-Dichlorobenzene	ND		0.00475	0.00441	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,3-Dichlorobenzene	ND		0.00475	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,4-Dichlorobenzene	ND		0.00475	0.00451	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Dichlorodifluoromethane (Freon 12)	ND		0.00951	0.00255	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,1-Dichloroethane	ND		0.00475	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2-Dichloroethane	ND		0.00475	0.00320	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,1-Dichloroethene	ND		0.00475	0.00291	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
cis-1,2-Dichloroethene	ND		0.00475	0.00275	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
trans-1,2-Dichloroethene	ND		0.00475	0.00296	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2-Dichloropropane	ND		0.00475	0.00315	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,3-Dichloropropane	ND		0.00475	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
2,2-Dichloropropane	ND		0.00475	0.00328	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,1-Dichloropropene	ND		0.00475	0.00323	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
cis-1,3-Dichloropropene	ND		0.00475	0.00310	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
trans-1,3-Dichloropropene	ND		0.00475	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Ethylbenzene	ND		0.00475	0.00339	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Hexachlorobutadiene	ND		0.00951	0.00478	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
2-Hexanone (MBK)	ND		0.00951	0.00280	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Isopropylbenzene	ND		0.00475	0.00359	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
4-Isopropyltoluene	ND		0.00475	0.00467	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Methyl tert-butyl ether	ND		0.00475	0.00274	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.00951	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Methylene Chloride	ND		0.00951	0.00255	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Naphthalene	ND		0.00475	0.00430	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1

Client Sample ID: 2023-MW-04-0810' **Lab Sample ID: 620-10080-30**
Date Collected: 03/02/23 11:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00475	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Styrene	ND		0.00475	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,1,1,2-Tetrachloroethane	ND		0.00475	0.00357	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,1,2,2-Tetrachloroethane	ND		0.00475	0.00436	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Tetrachloroethene	ND		0.00475	0.00264	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Toluene	ND		0.00475	0.00301	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2,3-Trichlorobenzene	ND		0.00475	0.00401	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2,4-Trichlorobenzene	ND		0.00475	0.00438	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,3,5-Trichlorobenzene	ND		0.00475	0.00452	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,1,1-Trichloroethane	ND		0.00475	0.00324	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,1,2-Trichloroethane	ND		0.00475	0.00358	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Trichloroethene	ND		0.00475	0.00320	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Trichlorofluoromethane (Freon 11)	ND		0.00475	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2,3-Trichloropropane	ND		0.00475	0.00422	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,2,4-Trimethylbenzene	ND		0.00475	0.00402	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,3,5-Trimethylbenzene	ND		0.00475	0.00404	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Vinyl chloride	ND		0.00475	0.00290	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
m,p-Xylene	ND		0.00475	0.00649	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
o-Xylene	ND		0.00475	0.00347	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Tetrahydrofuran	ND		0.00951	0.00241	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Ethyl ether	ND		0.00475	0.00250	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Tert-amyl methyl ether	ND		0.00475	0.00376	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Ethyl tert-butyl ether	ND		0.00475	0.00313	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
di-Isopropyl ether	ND		0.00475	0.00339	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
tert-Butanol	ND		0.0951	0.0255	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,4-Dioxane	ND		0.0951	0.0296	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
trans-1,4-Dichloro-2-butene	ND		0.0238	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Ethanol	ND		0.951	0.0590	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
1,3-Dichloropropene, Total	ND		0.00475	0.00361	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1
Xylenes, Total	ND		0.0143	0.00475	mg/Kg	☼	03/07/23 09:52	03/07/23 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:32*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:32*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:32*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.422	0.0751	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
1,2,4-Trichlorobenzene	ND		0.422	0.0967	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
1,2-Dichlorobenzene	ND		0.422	0.0813	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
1,3-Dichlorobenzene	ND		0.422	0.102	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
1,4-Dichlorobenzene	ND		0.422	0.0993	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
1-Methylnaphthalene	ND		0.0853	0.0716	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2,4,5-Trichlorophenol	ND		0.422	0.0483	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2,4,6-Trichlorophenol	ND		0.214	0.0522	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2,4-Dichlorophenol	ND		0.214	0.0850	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2,4-Dimethylphenol	ND		0.422	0.0619	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2,4-Dinitrophenol	ND		0.422	0.111	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-0810'
Date Collected: 03/02/23 11:30
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-30
Matrix: Solid
Percent Solids: 77.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.214	0.0500	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2,6-Dinitrotoluene	ND		0.214	0.0500	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2-Chloronaphthalene	ND		0.422	0.0976	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2-Chlorophenol	ND		0.214	0.0873	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2-Methylnaphthalene	ND		0.0853	0.0630	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2-Methylphenol	ND		0.422	0.0616	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2-Nitroaniline	ND		0.422	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
2-Nitrophenol	ND		0.214	0.0758	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
3 & 4 Methylphenol	ND		0.422	0.0799	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
3,3'-Dichlorobenzidine	ND		0.422	0.0697	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
3-Nitroaniline	ND		0.422	0.0377	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
4,6-Dinitro-2-methylphenol	ND		0.422	0.0758	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
4-Bromophenyl phenyl ether	ND		0.422	0.0477	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
4-Chloro-3-methylphenol	ND		0.422	0.0826	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
4-Chloroaniline	ND		0.214	0.0323	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
4-Chlorophenyl phenyl ether	ND		0.422	0.0451	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
4-Nitroaniline	ND		0.214	0.0674	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
4-Nitrophenol	ND		0.422	0.147	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Acenaphthene	ND		0.0853	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Acenaphthylene	ND		0.0853	0.0560	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Acetophenone	ND		0.214	0.0520	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Aniline	ND		0.422	0.0323	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Anthracene	ND		0.0853	0.0494	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Azobenzene/Diphenyldiazene	ND		0.422	0.0720	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzidine	ND		0.844	0.125	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzo[a]anthracene	ND		0.0853	0.0479	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzo[a]pyrene	ND		0.0853	0.0610	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzo[b]fluoranthene	ND		0.0853	0.0707	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzo[g,h,i]perylene	ND		0.0853	0.0666	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzo[k]fluoranthene	ND		0.0853	0.0664	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzoic acid	ND	*- *1	0.422	0.290	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Benzyl alcohol	ND		0.422	0.0765	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Bis(2-chloroethoxy)methane	ND		0.422	0.0734	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Bis(2-chloroethyl)ether	ND		0.214	0.0698	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
bis (2-chloroisopropyl) ether	ND		0.214	0.0950	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Bis(2-ethylhexyl) phthalate	ND		0.214	0.0543	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Butyl benzyl phthalate	ND		0.422	0.0423	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Carbazole	ND		0.214	0.0559	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Chrysene	ND		0.0853	0.0482	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Dibenz(a,h)anthracene	ND		0.0853	0.0651	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Dibenzofuran	ND		0.214	0.0739	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Diethyl phthalate	ND		0.422	0.0463	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Dimethyl phthalate	ND		0.422	0.0550	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Di-n-butyl phthalate	ND		0.422	0.0451	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Di-n-octyl phthalate	ND		0.422	0.0697	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Fluoranthene	ND		0.0853	0.0500	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Fluorene	ND		0.0853	0.0779	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Hexachlorobenzene	ND		0.214	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Hexachlorobutadiene	ND		0.214	0.107	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1

Client Sample ID: 2023-MW-04-0810' **Lab Sample ID: 620-10080-30**
Date Collected: 03/02/23 11:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.214	0.0816	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Hexachloroethane	ND		0.214	0.0839	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0853	0.0724	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Isophorone	ND		0.214	0.0584	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Naphthalene	ND		0.0853	0.0818	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Nitrobenzene	ND		0.214	0.0986	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
N-Nitrosodimethylamine	ND		0.214	0.0560	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
N-Nitrosodi-n-propylamine	ND		0.214	0.0850	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
N-Nitrosodiphenylamine	ND		0.422	0.0538	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Pentachloronitrobenzene	ND		0.422	0.0666	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Pentachlorophenol	ND		0.422	0.173	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Phenanthrene	ND		0.0853	0.0483	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Phenol	ND		0.422	0.0869	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Pyrene	ND		0.0853	0.0471	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1
Pyridine	ND		0.422	0.0999	mg/Kg	☼	03/13/23 11:00	03/14/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*30 - 130*	*03/13/23 11:00*	*03/14/23 15:37*	*1*
2-Fluorophenol (Surr)	*112*	*S1+*	*15 - 110*	*03/13/23 11:00*	*03/14/23 15:37*	*1*
Nitrobenzene-d5 (Surr)	*95*		*30 - 130*	*03/13/23 11:00*	*03/14/23 15:37*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/13/23 11:00*	*03/14/23 15:37*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/13/23 11:00*	*03/14/23 15:37*	*1*
Terphenyl-d14	*95*		*30 - 130*	*03/13/23 11:00*	*03/14/23 15:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.253	0.129	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.253	0.108	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0506	0.0101	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
Ethylbenzene	ND		0.0506	0.0101	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
Methyl tert-butyl ether	ND		0.0506	0.0101	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
Naphthalene	ND		0.0506	0.0344	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
o-Xylene	ND		0.0506	0.0101	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
Toluene	ND		0.0506	0.0101	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.253	0.129	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
C9-C10 Aromatics	ND		0.253	0.0354	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.253	0.108	mg/Kg	☼	03/07/23 07:22	03/07/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/07/23 07:22*	*03/07/23 13:16*	*1*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/07/23 07:22*	*03/07/23 13:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0253	0.0182	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1
PCB-1221	ND		0.0253	0.00748	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1
PCB-1232	ND		0.0253	0.00701	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1

Client Sample ID: 2023-MW-04-0810' **Lab Sample ID: 620-10080-30**
Date Collected: 03/02/23 11:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0253	0.00400	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1
PCB-1248	ND		0.0253	0.00791	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1
PCB-1254	ND		0.0253	0.0197	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1
PCB-1262	ND		0.0253	0.00590	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1
PCB-1260	ND		0.0253	0.00544	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1
PCB-1268	ND		0.0253	0.00539	mg/Kg	☼	03/09/23 15:17	03/11/23 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:17*	*03/11/23 13:13*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:17*	*03/11/23 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*30 - 150*	*03/09/23 15:17*	*03/11/23 13:13*	*1*
DCB Decachlorobiphenyl (Surr)	*104*		*30 - 150*	*03/09/23 15:17*	*03/11/23 13:13*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluoroheptanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorooctanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorononanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorodecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorotridecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorotetradecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorobutanesulfonic acid	ND		2.59	0.519	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorohexanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorooctanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
NEtFOSAA	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
NMeFOSAA	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
10:2 FTS	ND		2.59	0.778	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluoropentanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluoroheptanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorononanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorodecanesulfonic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorooctanesulfonamide	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorohexadecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorooctadecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorobutanoic acid	ND		2.59	1.04	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluoropentanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
NMeFOSE	ND		2.59	0.649	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
NMeFOSA	ND		2.59	0.649	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
NEtFOSE	ND		2.59	0.649	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
NEtFOSA	ND		2.59	0.649	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
HFPODA	ND		2.59	1.30	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
DONA	ND		3.89	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
9Cl-PF3ONS	ND		2.59	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
11Cl-PF3OUdS	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluorododecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
4:2 Fluorotelomer sulfonic acid	ND		2.59	0.778	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
Perfluoroundecanoic acid	ND		0.778	0.259	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1

Client Sample ID: 2023-MW-04-0810' **Lab Sample ID: 620-10080-30**
Date Collected: 03/02/23 11:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.59	0.778	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1
8:2 Fluorotelomer sulfonic acid	ND		3.89	0.778	ug/Kg	☼	03/07/23 22:53	03/15/23 22:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
M2-8:2 FTS	*89*		*15 - 200*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
M2-6:2 FTS	*93*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C5 PFHxA	*108*		*10 - 174*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C4 PFHpA	*109*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C8 PFOA	*112*		*26 - 159*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C9 PFNA	*105*		*26 - 165*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C6 PFDA	*98*		*26 - 161*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C7 PFUnA	*108*		*12 - 173*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C2-PFDoDA	*104*		*11 - 166*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C2 PFTeDA	*119*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C3 PFBS	*116*		*27 - 179*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
d3-NMeFOSAA	*25*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
d5-NEtFOSAA	*28*		*10 - 193*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C8 FOSA	*100*		*14 - 163*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C4 PFBA	*107*		*28 - 153*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
d7-N-MeFOSE-M	*108*		*10 - 179*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
d9-N-EtFOSE-M	*116*		*10 - 185*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
d5-NEtPFOSA	*106*		*10 - 180*	*03/07/23 22:53*	*03/15/23 22:24*	*1*
13C3 HFPO-DA	*99*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:24*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.69**	**J**	4.47	1.52	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Arsenic	**9.06**		2.68	1.25	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Barium	**103**		0.447	0.134	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Beryllium	**1.51**		0.447	0.0895	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Cadmium	ND		0.447	0.0895	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Chromium	**28.6**		1.34	0.313	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Lead	**13.8**		1.34	0.537	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Nickel	**16.1**		0.895	0.233	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Selenium	ND		4.47	1.34	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Silver	ND	^3+	0.895	0.358	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Thallium	ND		26.8	11.6	mg/Kg	☼	03/08/23 13:50	03/09/23 16:26	10
Vanadium	**47.1**		0.895	0.385	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1
Zinc	**65.5**		1.79	0.716	mg/Kg	☼	03/08/23 13:50	03/09/23 15:18	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0374**	**J**	0.0778	0.0259	mg/Kg	☼	03/08/23 13:59	03/09/23 09:07	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04-0810' **Lab Sample ID: 620-10080-30**
Date Collected: 03/02/23 11:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	22.9		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	77.1		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-1012'
Date Collected: 03/02/23 11:35
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-31
Matrix: Solid
Percent Solids: 81.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00556	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Acetone	ND		0.0556	0.0125	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Acrylonitrile	ND		0.00556	0.00334	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Benzene	ND		0.00556	0.00372	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Bromobenzene	ND		0.00556	0.00370	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Bromochloromethane	ND		0.00556	0.00316	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Bromodichloromethane	ND		0.00556	0.00408	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Bromoform	ND		0.00556	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Bromomethane	ND		0.0111	0.00693	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
2-Butanone (MEK)	ND		0.0111	0.00443	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
n-Butylbenzene	ND		0.0111	0.00596	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
sec-Butylbenzene	ND		0.00556	0.00448	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
tert-Butylbenzene	ND		0.00556	0.00438	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Carbon disulfide	ND		0.0111	0.00391	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Carbon tetrachloride	ND		0.00556	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Chlorobenzene	ND		0.00556	0.00407	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Chloroethane	ND		0.0111	0.00408	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Chloroform	ND		0.00556	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Chloromethane	ND		0.0111	0.00427	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
2-Chlorotoluene	ND		0.00556	0.00443	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
4-Chlorotoluene	ND		0.00556	0.00483	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2-Dibromo-3-Chloropropane	ND		0.0111	0.00472	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Dibromochloromethane	ND		0.00556	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2-Dibromoethane (EDB)	ND		0.00556	0.00399	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Dibromomethane	ND		0.00556	0.00327	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2-Dichlorobenzene	ND		0.00556	0.00516	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,3-Dichlorobenzene	ND		0.00556	0.00446	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,4-Dichlorobenzene	ND		0.00556	0.00527	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Dichlorodifluoromethane (Freon 12)	ND		0.0111	0.00298	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,1-Dichloroethane	ND		0.00556	0.00377	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2-Dichloroethane	ND		0.00556	0.00375	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,1-Dichloroethene	ND		0.00556	0.00340	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
cis-1,2-Dichloroethene	ND		0.00556	0.00322	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
trans-1,2-Dichloroethene	ND		0.00556	0.00346	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2-Dichloropropane	ND		0.00556	0.00368	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,3-Dichloropropane	ND		0.00556	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
2,2-Dichloropropane	ND		0.00556	0.00384	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,1-Dichloropropene	ND		0.00556	0.00378	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
cis-1,3-Dichloropropene	ND		0.00556	0.00363	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
trans-1,3-Dichloropropene	ND		0.00556	0.00423	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Ethylbenzene	ND		0.00556	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Hexachlorobutadiene	ND		0.0111	0.00560	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
2-Hexanone (MBK)	ND		0.0111	0.00327	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Isopropylbenzene	ND		0.00556	0.00421	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
4-Isopropyltoluene	ND		0.00556	0.00546	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Methyl tert-butyl ether	ND		0.00556	0.00320	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.0111	0.00359	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Methylene Chloride	ND		0.0111	0.00298	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Naphthalene	ND		0.00556	0.00503	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1

Client Sample ID: 2023-MW-04-1012' **Lab Sample ID: 620-10080-31**
Date Collected: 03/02/23 11:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00556	0.00471	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Styrene	ND		0.00556	0.00431	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,1,1,2-Tetrachloroethane	ND		0.00556	0.00417	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,1,2,2-Tetrachloroethane	ND		0.00556	0.00510	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Tetrachloroethene	ND		0.00556	0.00309	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Toluene	ND		0.00556	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2,3-Trichlorobenzene	ND		0.00556	0.00470	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2,4-Trichlorobenzene	ND		0.00556	0.00513	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,3,5-Trichlorobenzene	ND		0.00556	0.00528	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,1,1-Trichloroethane	ND		0.00556	0.00379	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,1,2-Trichloroethane	ND		0.00556	0.00419	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Trichloroethene	ND		0.00556	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Trichlorofluoromethane (Freon 11)	ND		0.00556	0.00425	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2,3-Trichloropropane	ND		0.00556	0.00494	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,2,4-Trimethylbenzene	ND		0.00556	0.00471	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,3,5-Trimethylbenzene	ND		0.00556	0.00473	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Vinyl chloride	ND		0.00556	0.00339	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
m,p-Xylene	ND		0.00556	0.00760	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
o-Xylene	ND		0.00556	0.00406	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Tetrahydrofuran	ND		0.0111	0.00281	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Ethyl ether	ND		0.00556	0.00293	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Tert-amyl methyl ether	ND		0.00556	0.00439	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Ethyl tert-butyl ether	ND		0.00556	0.00366	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
di-Isopropyl ether	ND		0.00556	0.00397	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
tert-Butanol	ND		0.111	0.0298	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,4-Dioxane	ND		0.111	0.0346	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
trans-1,4-Dichloro-2-butene	ND		0.0278	0.00411	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Ethanol	ND		1.11	0.0690	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
1,3-Dichloropropene, Total	ND		0.00556	0.00423	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1
Xylenes, Total	ND		0.0167	0.00556	mg/Kg	☼	03/07/23 09:52	03/07/23 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:57*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:57*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 20:57*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.396	0.0705	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
1,2,4-Trichlorobenzene	ND		0.396	0.0908	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
1,2-Dichlorobenzene	ND		0.396	0.0764	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
1,3-Dichlorobenzene	ND		0.396	0.0960	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
1,4-Dichlorobenzene	ND		0.396	0.0934	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
1-Methylnaphthalene	ND		0.0801	0.0673	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2,4,5-Trichlorophenol	ND		0.396	0.0454	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2,4,6-Trichlorophenol	ND		0.201	0.0490	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2,4-Dichlorophenol	ND		0.201	0.0799	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2,4-Dimethylphenol	ND		0.396	0.0581	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2,4-Dinitrophenol	ND		0.396	0.104	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-1012'
Date Collected: 03/02/23 11:35
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-31
Matrix: Solid
Percent Solids: 81.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2,6-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2-Chloronaphthalene	ND		0.396	0.0917	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2-Chlorophenol	ND		0.201	0.0821	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2-Methylnaphthalene	ND		0.0801	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2-Methylphenol	ND		0.396	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2-Nitroaniline	ND		0.396	0.0377	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
2-Nitrophenol	ND		0.201	0.0712	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
3 & 4 Methylphenol	ND		0.396	0.0751	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
3,3'-Dichlorobenzidine	ND		0.396	0.0655	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
3-Nitroaniline	ND		0.396	0.0354	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
4,6-Dinitro-2-methylphenol	ND		0.396	0.0712	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
4-Bromophenyl phenyl ether	ND		0.396	0.0448	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
4-Chloro-3-methylphenol	ND		0.396	0.0776	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
4-Chloroaniline	ND		0.201	0.0304	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
4-Chlorophenyl phenyl ether	ND		0.396	0.0424	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
4-Nitroaniline	ND		0.201	0.0633	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
4-Nitrophenol	ND		0.396	0.138	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Acenaphthene	ND		0.0801	0.0639	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Acenaphthylene	ND		0.0801	0.0526	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Acetophenone	ND		0.201	0.0489	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Aniline	ND		0.396	0.0304	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Anthracene	ND		0.0801	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Azobenzene/Diphenyldiazene	ND		0.396	0.0676	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzidine	ND		0.793	0.117	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzo[a]anthracene	ND		0.0801	0.0451	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzo[a]pyrene	ND		0.0801	0.0573	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzo[b]fluoranthene	ND		0.0801	0.0664	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzo[g,h,i]perylene	ND		0.0801	0.0626	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzo[k]fluoranthene	ND		0.0801	0.0624	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzoic acid	ND	*- *1	0.396	0.273	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Benzyl alcohol	ND		0.396	0.0718	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Bis(2-chloroethoxy)methane	ND		0.396	0.0690	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Bis(2-chloroethyl)ether	ND		0.201	0.0656	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0893	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0511	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Butyl benzyl phthalate	ND		0.396	0.0398	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Carbazole	ND		0.201	0.0525	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Chrysene	ND		0.0801	0.0453	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Dibenz(a,h)anthracene	ND		0.0801	0.0612	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Dibenzofuran	ND		0.201	0.0694	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Diethyl phthalate	ND		0.396	0.0435	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Dimethyl phthalate	ND		0.396	0.0517	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Di-n-butyl phthalate	ND		0.396	0.0424	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Di-n-octyl phthalate	ND		0.396	0.0655	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Fluoranthene	ND		0.0801	0.0470	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Fluorene	ND		0.0801	0.0732	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Hexachlorobenzene	ND		0.201	0.0556	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1

Client Sample ID: 2023-MW-04-1012' **Lab Sample ID: 620-10080-31**
Date Collected: 03/02/23 11:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0767	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Hexachloroethane	ND		0.201	0.0788	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0801	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Isophorone	ND		0.201	0.0549	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Naphthalene	ND		0.0801	0.0769	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Nitrobenzene	ND		0.201	0.0926	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
N-Nitrosodimethylamine	ND		0.201	0.0526	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0799	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
N-Nitrosodiphenylamine	ND		0.396	0.0506	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Pentachloronitrobenzene	ND		0.396	0.0626	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Pentachlorophenol	ND		0.396	0.162	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Phenanthrene	ND		0.0801	0.0454	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Phenol	ND		0.396	0.0817	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Pyrene	ND		0.0801	0.0442	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1
Pyridine	ND		0.396	0.0938	mg/Kg	☼	03/13/23 11:00	03/14/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/13/23 11:00*	*03/14/23 16:06*	*1*
2-Fluorophenol (Surr)	*110*		*15 - 110*	*03/13/23 11:00*	*03/14/23 16:06*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/13/23 11:00*	*03/14/23 16:06*	*1*
Phenol-d5 (Surr)	*97*		*15 - 110*	*03/13/23 11:00*	*03/14/23 16:06*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/13/23 11:00*	*03/14/23 16:06*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/13/23 11:00*	*03/14/23 16:06*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.283	0.145	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.283	0.121	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0566	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
Ethylbenzene	ND		0.0566	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
Methyl tert-butyl ether	ND		0.0566	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
Naphthalene	ND		0.0566	0.0385	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
o-Xylene	ND		0.0566	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
Toluene	ND		0.0566	0.0113	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
C5-C8 Aliphatics (unadjusted)	ND		0.283	0.145	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
C9-C10 Aromatics	ND		0.283	0.0396	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1
C9-C12 Aliphatics (unadjusted)	ND		0.283	0.121	mg/Kg	☼	03/07/23 07:22	03/07/23 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/07/23 07:22*	*03/07/23 13:56*	*1*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/07/23 07:22*	*03/07/23 13:56*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0239	0.0172	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1
PCB-1221	ND		0.0239	0.00706	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1
PCB-1232	ND		0.0239	0.00662	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1

Client Sample ID: 2023-MW-04-1012' **Lab Sample ID: 620-10080-31**
Date Collected: 03/02/23 11:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0239	0.00377	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1
PCB-1248	ND		0.0239	0.00747	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1
PCB-1254	ND		0.0239	0.0186	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1
PCB-1262	ND		0.0239	0.00557	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1
PCB-1260	ND		0.0239	0.00514	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1
PCB-1268	ND		0.0239	0.00509	mg/Kg	☼	03/09/23 15:17	03/11/23 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:54*	*1*
Tetrachloro-m-xylene	*52*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:54*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:54*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*30 - 150*	*03/09/23 15:17*	*03/11/23 12:54*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluoroheptanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorooctanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorononanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorodecanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorotridecanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorotetradecanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorobutanesulfonic acid	ND		2.44	0.488	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorohexanesulfonic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorooctanesulfonic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
NEtFOSAA	ND		2.44	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
NMeFOSAA	ND		2.44	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
10:2 FTS	ND		2.44	0.732	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluoropentanesulfonic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluoroheptanesulfonic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorononanesulfonic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorodecanesulfonic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.44	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorooctanesulfonamide	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorohexadecanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorooctadecanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorobutanoic acid	ND		2.44	0.976	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluoropentanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
NMeFOSE	ND		2.44	0.610	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
NMeFOSA	ND		2.44	0.610	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
NEtFOSE	ND		2.44	0.610	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
NEtFOSA	ND		2.44	0.610	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
HFPODA	ND		2.44	1.22	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
DONA	ND		3.66	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
9Cl-PF3ONS	ND		2.44	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
11Cl-PF3OUdS	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluorododecanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
4:2 Fluorotelomer sulfonic acid	ND		2.44	0.732	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
Perfluoroundecanoic acid	ND		0.732	0.244	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1

Client Sample ID: 2023-MW-04-1012' **Lab Sample ID: 620-10080-31**
Date Collected: 03/02/23 11:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.44	0.732	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1
8:2 Fluorotelomer sulfonic acid	ND		3.66	0.732	ug/Kg	☼	03/07/23 22:53	03/15/23 22:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*99*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
M2-6:2 FTS	*109*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C5 PFHxA	*115*		*10 - 174*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C4 PFHpA	*114*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C9 PFNA	*110*		*26 - 165*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C6 PFDA	*111*		*26 - 161*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C7 PFUnA	*117*		*12 - 173*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C2-PFDoDA	*106*		*11 - 166*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C2 PFTeDA	*132*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C3 PFBS	*121*		*27 - 179*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C3 PFHxS	*114*		*24 - 171*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C8 PFOS	*117*		*41 - 154*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
d3-NMeFOSAA	*80*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
d5-NEtFOSAA	*85*		*10 - 193*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C4 PFBA	*113*		*28 - 153*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C5 PFPeA	*98*		*24 - 161*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
d7-N-MeFOSE-M	*109*		*10 - 179*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
d3-NMePFOSA	*95*		*10 - 175*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
d9-N-EtFOSE-M	*112*		*10 - 185*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
d5-NEtPFOSA	*97*		*10 - 180*	*03/07/23 22:53*	*03/15/23 22:35*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.60	1.90	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Arsenic	**4.76**		3.36	1.57	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Barium	**52.8**		0.560	0.168	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Beryllium	**0.705**		0.560	0.112	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Cadmium	ND		0.560	0.112	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Chromium	**14.6**		1.68	0.392	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Lead	**5.16**		1.68	0.672	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Nickel	**7.09**		1.12	0.291	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Selenium	ND		5.60	1.68	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Silver	ND	^3+	1.12	0.448	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Thallium	ND		33.6	14.6	mg/Kg	☼	03/08/23 13:50	03/09/23 15:54	10
Vanadium	**21.6**		1.12	0.482	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1
Zinc	**35.0**		2.24	0.896	mg/Kg	☼	03/08/23 13:50	03/09/23 14:41	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0716	0.0239	mg/Kg	☼	03/08/23 13:59	03/09/23 08:47	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-04-1012'
Date Collected: 03/02/23 11:35
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-31
Matrix: Solid
Percent Solids: 81.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.9		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	81.1		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-FD-05
Date Collected: 03/02/23 08:00
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-32
Matrix: Solid
Percent Solids: 85.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00521	0.00340	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Acetone	ND		0.0521	0.0117	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Acrylonitrile	ND		0.00521	0.00313	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Benzene	ND		0.00521	0.00348	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Bromobenzene	ND		0.00521	0.00347	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Bromochloromethane	ND		0.00521	0.00296	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Bromodichloromethane	ND		0.00521	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Bromoform	ND		0.00521	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Bromomethane	ND		0.0104	0.00650	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
2-Butanone (MEK)	ND		0.0104	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
n-Butylbenzene	ND		0.0104	0.00559	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
sec-Butylbenzene	ND		0.00521	0.00420	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
tert-Butylbenzene	ND		0.00521	0.00411	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Carbon disulfide	ND		0.0104	0.00366	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Carbon tetrachloride	ND		0.00521	0.00328	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Chlorobenzene	ND		0.00521	0.00382	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Chloroform	ND		0.00521	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Chloromethane	ND		0.0104	0.00400	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
2-Chlorotoluene	ND		0.00521	0.00415	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
4-Chlorotoluene	ND		0.00521	0.00452	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00442	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Dibromochloromethane	ND		0.00521	0.00345	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2-Dibromoethane (EDB)	ND		0.00521	0.00374	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Dibromomethane	ND		0.00521	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2-Dichlorobenzene	ND		0.00521	0.00484	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,3-Dichlorobenzene	ND		0.00521	0.00418	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,4-Dichlorobenzene	ND		0.00521	0.00494	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Dichlorodifluoromethane (Freon 12)	ND		0.0104	0.00279	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,1-Dichloroethane	ND		0.00521	0.00353	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2-Dichloroethane	ND		0.00521	0.00351	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,1-Dichloroethene	ND		0.00521	0.00319	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
cis-1,2-Dichloroethene	ND		0.00521	0.00301	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
trans-1,2-Dichloroethene	ND		0.00521	0.00324	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2-Dichloropropane	ND		0.00521	0.00345	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,3-Dichloropropane	ND		0.00521	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
2,2-Dichloropropane	ND		0.00521	0.00360	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,1-Dichloropropene	ND		0.00521	0.00354	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
cis-1,3-Dichloropropene	ND		0.00521	0.00340	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
trans-1,3-Dichloropropene	ND		0.00521	0.00396	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Ethylbenzene	ND		0.00521	0.00372	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Hexachlorobutadiene	ND		0.0104	0.00524	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
2-Hexanone (MBK)	ND		0.0104	0.00307	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Isopropylbenzene	ND		0.00521	0.00394	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
4-Isopropyltoluene	ND		0.00521	0.00512	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Methyl tert-butyl ether	ND		0.00521	0.00300	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00337	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Methylene Chloride	ND		0.0104	0.00279	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Naphthalene	ND		0.00521	0.00471	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-FD-05
Date Collected: 03/02/23 08:00
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-32
Matrix: Solid
Percent Solids: 85.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00521	0.00441	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Styrene	ND		0.00521	0.00403	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,1,1,2-Tetrachloroethane	ND		0.00521	0.00391	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,1,2,2-Tetrachloroethane	ND		0.00521	0.00477	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Tetrachloroethene	ND		0.00521	0.00290	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Toluene	ND		0.00521	0.00330	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2,3-Trichlorobenzene	ND		0.00521	0.00440	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2,4-Trichlorobenzene	ND		0.00521	0.00481	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,3,5-Trichlorobenzene	ND		0.00521	0.00495	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,1,1-Trichloroethane	ND		0.00521	0.00356	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,1,2-Trichloroethane	ND		0.00521	0.00393	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Trichloroethene	ND		0.00521	0.00350	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Trichlorofluoromethane (Freon 11)	ND		0.00521	0.00398	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2,3-Trichloropropane	ND		0.00521	0.00463	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,2,4-Trimethylbenzene	ND		0.00521	0.00441	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,3,5-Trimethylbenzene	ND		0.00521	0.00443	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Vinyl chloride	ND		0.00521	0.00318	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
m,p-Xylene	ND		0.00521	0.00712	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
o-Xylene	ND		0.00521	0.00381	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Ethyl ether	ND		0.00521	0.00274	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Tert-amyl methyl ether	ND		0.00521	0.00412	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Ethyl tert-butyl ether	ND		0.00521	0.00343	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
di-Isopropyl ether	ND		0.00521	0.00372	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
tert-Butanol	ND		0.104	0.0279	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,4-Dioxane	ND		0.104	0.0324	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00385	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Ethanol	ND		1.04	0.0646	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
1,3-Dichloropropene, Total	ND		0.00521	0.00396	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1
Xylenes, Total	ND		0.0156	0.00521	mg/Kg	☼	03/07/23 09:52	03/07/23 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:23*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:23*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 21:23*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0667	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
1,2,4-Trichlorobenzene	ND		0.375	0.0860	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
1,2-Dichlorobenzene	ND		0.375	0.0723	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
1,3-Dichlorobenzene	ND		0.375	0.0908	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
1,4-Dichlorobenzene	ND		0.375	0.0883	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
1-Methylnaphthalene	ND		0.0758	0.0637	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2,4,5-Trichlorophenol	ND		0.375	0.0430	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2,4-Dichlorophenol	ND		0.190	0.0756	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2,4-Dimethylphenol	ND		0.375	0.0550	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2,4-Dinitrophenol	ND		0.375	0.0987	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-FD-05
Date Collected: 03/02/23 08:00
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-32
Matrix: Solid
Percent Solids: 85.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2-Chloronaphthalene	ND		0.375	0.0868	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2-Chlorophenol	ND		0.190	0.0777	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2-Methylnaphthalene	ND		0.0758	0.0561	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2-Methylphenol	ND		0.375	0.0548	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2-Nitroaniline	ND		0.375	0.0357	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
2-Nitrophenol	ND		0.190	0.0674	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
3 & 4 Methylphenol	ND		0.375	0.0711	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
3,3'-Dichlorobenzidine	ND		0.375	0.0620	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
3-Nitroaniline	ND		0.375	0.0335	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0674	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
4-Bromophenyl phenyl ether	ND		0.375	0.0424	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
4-Chloro-3-methylphenol	ND		0.375	0.0735	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
4-Nitroaniline	ND		0.190	0.0599	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Acenaphthene	ND		0.0758	0.0605	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Acenaphthylene	ND		0.0758	0.0498	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Aniline	ND		0.375	0.0288	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Anthracene	ND		0.0758	0.0439	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0640	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzidine	ND		0.750	0.111	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzo[a]anthracene	ND		0.0758	0.0426	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzo[a]pyrene	ND		0.0758	0.0542	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzo[b]fluoranthene	ND		0.0758	0.0629	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzo[g,h,i]perylene	ND		0.0758	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzo[k]fluoranthene	ND		0.0758	0.0590	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzoic acid	ND	*- *1	0.375	0.258	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Benzyl alcohol	ND		0.375	0.0680	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0653	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Bis(2-chloroethyl)ether	ND		0.190	0.0621	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0845	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0483	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Butyl benzyl phthalate	ND		0.375	0.0376	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Chrysene	ND		0.0758	0.0429	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Dibenz(a,h)anthracene	ND		0.0758	0.0579	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Dibenzofuran	ND		0.190	0.0657	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Diethyl phthalate	ND		0.375	0.0412	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Dimethyl phthalate	ND		0.375	0.0489	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Di-n-butyl phthalate	ND		0.375	0.0401	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Di-n-octyl phthalate	ND		0.375	0.0620	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Fluoranthene	ND		0.0758	0.0445	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Fluorene	ND		0.0758	0.0692	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Hexachlorobenzene	ND		0.190	0.0526	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Hexachlorobutadiene	ND		0.190	0.0947	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1

Client Sample ID: 2023-FD-05
Date Collected: 03/02/23 08:00
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-32
Matrix: Solid
Percent Solids: 85.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0725	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Hexachloroethane	ND		0.190	0.0746	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Indeno[1,2,3-cd]pyrene	ND		0.0758	0.0644	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Isophorone	ND		0.190	0.0520	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Naphthalene	ND		0.0758	0.0728	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Nitrobenzene	ND		0.190	0.0877	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
N-Nitrosodimethylamine	ND		0.190	0.0498	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0756	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
N-Nitrosodiphenylamine	ND		0.375	0.0479	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Pentachloronitrobenzene	ND		0.375	0.0592	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Pentachlorophenol	ND		0.375	0.154	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Phenanthrene	ND		0.0758	0.0430	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Phenol	ND		0.375	0.0773	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Pyrene	ND		0.0758	0.0418	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1
Pyridine	ND		0.375	0.0888	mg/Kg	☼	03/13/23 11:00	03/14/23 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/13/23 11:00*	*03/14/23 16:35*	*1*
2-Fluorophenol (Surr)	*113*	*S1+*	*15 - 110*	*03/13/23 11:00*	*03/14/23 16:35*	*1*
Nitrobenzene-d5 (Surr)	*87*		*30 - 130*	*03/13/23 11:00*	*03/14/23 16:35*	*1*
Phenol-d5 (Surr)	*100*		*15 - 110*	*03/13/23 11:00*	*03/14/23 16:35*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*15 - 110*	*03/13/23 11:00*	*03/14/23 16:35*	*1*
Terphenyl-d14	*96*		*30 - 130*	*03/13/23 11:00*	*03/14/23 16:35*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.275	0.141	mg/Kg			03/08/23 08:11	1
C9-C12 Aliphatics (adjusted)	ND		0.275	0.118	mg/Kg			03/08/23 08:11	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0551	0.0110	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
Ethylbenzene	ND		0.0551	0.0110	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
Methyl tert-butyl ether	ND		0.0551	0.0110	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
m,p-Xylene	ND		0.110	0.0110	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
Naphthalene	ND		0.0551	0.0374	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
o-Xylene	ND		0.0551	0.0110	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
Toluene	ND		0.0551	0.0110	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
C5-C8 Aliphatics (unadjusted)	ND		0.275	0.141	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
C9-C10 Aromatics	ND		0.275	0.0385	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1
C9-C12 Aliphatics (unadjusted)	ND		0.275	0.118	mg/Kg	☼	03/07/23 07:22	03/07/23 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/07/23 07:22*	*03/07/23 14:35*	*1*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/07/23 07:22*	*03/07/23 14:35*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0227	0.0164	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1
PCB-1221	ND		0.0227	0.00672	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1
PCB-1232	ND		0.0227	0.00630	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1

Client Sample ID: 2023-FD-05 **Lab Sample ID: 620-10080-32**
Date Collected: 03/02/23 08:00 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0227	0.00359	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1
PCB-1248	ND		0.0227	0.00710	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1
PCB-1254	ND		0.0227	0.0177	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1
PCB-1262	ND		0.0227	0.00530	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1
PCB-1260	ND		0.0227	0.00489	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1
PCB-1268	ND		0.0227	0.00484	mg/Kg	☼	03/09/23 15:26	03/11/23 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:34*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:34*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:34*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/09/23 15:26*	*03/11/23 01:34*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluoroheptanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorooctanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorononanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorodecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorotridecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorotetradecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorobutanesulfonic acid	ND		2.18	0.436	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorohexanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorooctanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
10:2 FTS	ND		2.18	0.655	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluoropentanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluoroheptanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorononanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorodecanesulfonic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorooctanesulfonamide	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorohexadecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorooctadecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorobutanoic acid	ND		2.18	0.873	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluoropentanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
NMeFOSE	ND		2.18	0.545	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
NMeFOSA	ND		2.18	0.545	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
NEtFOSE	ND		2.18	0.545	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
NEtFOSA	ND		2.18	0.545	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
DONA	ND		3.27	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
11Cl-PF3OUdS	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluorododecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.655	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
Perfluoroundecanoic acid	ND		0.655	0.218	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1

Client Sample ID: 2023-FD-05 **Lab Sample ID: 620-10080-32**
Date Collected: 03/02/23 08:00 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.655	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.27	0.655	ug/Kg	☼	03/07/23 22:53	03/15/23 22:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*108*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
M2-8:2 FTS	*115*		*15 - 200*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
M2-6:2 FTS	*111*		*10 - 200*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C5 PFHxA	*109*		*10 - 174*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C8 PFOA	*120*		*26 - 159*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C9 PFNA	*117*		*26 - 165*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C6 PFDA	*118*		*26 - 161*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C2-PFDoDA	*118*		*11 - 166*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C2 PFTeDA	*145*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C3 PFHxS	*118*		*24 - 171*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C8 PFOS	*117*		*41 - 154*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
d3-NMeFOSAA	*67*		*10 - 178*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
d5-NEtFOSAA	*71*		*10 - 193*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C8 FOSA	*115*		*14 - 163*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C4 PFBA	*115*		*28 - 153*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C5 PFPeA	*106*		*24 - 161*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
d7-N-MeFOSE-M	*115*		*10 - 179*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
d3-NMePFOSA	*111*		*10 - 175*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
d9-N-EtFOSE-M	*125*		*10 - 185*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
d5-NEtPFOSA	*113*		*10 - 180*	*03/07/23 22:53*	*03/15/23 22:46*	*1*
13C3 HFPO-DA	*104*		*10 - 169*	*03/07/23 22:53*	*03/15/23 22:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.67	1.93	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Arsenic	**2.43**	**J**	3.40	1.59	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Barium	**16.6**		0.567	0.170	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Beryllium	**0.239**	**J**	0.567	0.113	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Cadmium	ND		0.567	0.113	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Chromium	**4.99**		1.70	0.397	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Lead	**2.29**		1.70	0.680	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Nickel	**1.87**		1.13	0.295	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Selenium	ND		5.67	1.70	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Silver	ND	^3+	1.13	0.453	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Thallium	ND		3.40	1.47	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Vanadium	**7.22**		1.13	0.487	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1
Zinc	**8.73**		2.27	0.907	mg/Kg	☼	03/08/23 13:50	03/09/23 14:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0678	0.0226	mg/Kg	☼	03/08/23 13:59	03/09/23 08:24	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-FD-05
Date Collected: 03/02/23 08:00
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-32
Matrix: Solid
Percent Solids: 85.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.3		0.1	0.1	%			03/03/23 10:15	1
Percent Solids (EPA Moisture)	85.7		0.1	0.1	%			03/03/23 10:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: Trip Blank-04

Date Collected: 03/02/23 00:00
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-33

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Acetone	**0.0235**	**J B**	0.0500	0.0112	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Methylene Chloride	**0.00985**	**J**	0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/07/23 09:52	03/07/23 13:53	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: Trip Blank-04

Date Collected: 03/02/23 00:00
Date Received: 03/02/23 16:16

Lab Sample ID: 620-10080-33

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Toluene	**0.0111**		0.00500	0.00317	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:53	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/07/23 09:52	03/07/23 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:53*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:53*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:53*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10080-1	2023-MW-07-0002'	82	97	97	103
620-10080-1 - RA	2023-MW-07-0002'	87	99	99	103
620-10080-1 MS	2023-MW-07-0002'	90	100	100	103
620-10080-1 MSD	2023-MW-07-0002'	91	100	96	101
620-10080-2	2023-MW-07-0204'	95	100	100	101
620-10080-3	2023-MW-07-0406'	97	100	96	102
620-10080-4	2023-MW-07-0608'	98	100	95	99
620-10080-5	2023-MW-07-0810'	98	101	94	98
620-10080-6	2023-MW-07-1012'	98	101	98	101
620-10080-7	2023-SS-06	102	102	103	104
620-10080-7 MS	2023-SS-06	106	103	99	103
620-10080-7 MSD	2023-SS-06	105	103	98	102
620-10080-8	2023-SS-05	109	102	99	100
620-10080-9	2023-SS-04	103	102	97	100
620-10080-10	2023-SS-03	101	102	100	101
620-10080-11	2023-SS-02	101	102	97	99
620-10080-12 - ME	2023-SS-01	98	100	101	100
620-10080-13 - ME	2023-FD-02	98	99	101	100
620-10080-14	2023-SB-04-0002'	96	101	96	101
620-10080-15	2023-SB-04-0204'	97	102	94	100
620-10080-16	2023-SB-04-0406'	91	99	94	100
620-10080-17	2023-SB-04-0608'	99	102	94	101
620-10080-18	2023-SB-04-0810'	96	103	98	101
620-10080-19	2023-SB-04-1012'	98	102	95	100
620-10080-20	2023-SB-03-0002'	97	102	96	101
620-10080-21	2023-SB-03-0204'	98	102	96	100
620-10080-22	2023-SB-03-0406'	98	102	95	100
620-10080-23	2023-SB-03-0608'	99	103	95	102
620-10080-24	2023-SB-03-0810'	96	103	98	101
620-10080-25	2023-SB-03-1012'	96	102	94	100
620-10080-26	2023-MW-04-0002'	96	103	99	103
620-10080-27	2023-MW-04-0204'	96	103	94	101
620-10080-28	2023-MW-04-0406'	97	101	94	101
620-10080-28 MS	2023-MW-04-0406'	99	102	95	101
620-10080-28 MSD	2023-MW-04-0406'	100	101	95	101
620-10080-29	2023-MW-04-0608'	97	102	93	99
620-10080-30	2023-MW-04-0810'	98	103	96	102
620-10080-31	2023-MW-04-1012'	96	103	95	100
620-10080-32	2023-FD-05	94	102	92	99
620-10080-33	Trip Blank-04	100	102	96	99
LCS 620-20252/1-A	Lab Control Sample	102	101	94	99
LCS 620-20295/1-A	Lab Control Sample	100	101	93	99
LCS 620-20322/1-A	Lab Control Sample	104	103	99	104
LCS 620-20327/1-A	Lab Control Sample	102	102	94	100
LCS 620-20360/1-A	Lab Control Sample	101	103	92	102
LCS 620-20489/1-A	Lab Control Sample	101	100	98	100
LCSD 620-20252/2-A	Lab Control Sample Dup	101	102	97	99
LCSD 620-20295/2-A	Lab Control Sample Dup	100	101	93	100
LCSD 620-20322/2-A	Lab Control Sample Dup	105	103	101	105

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
LCSD 620-20327/2-A	Lab Control Sample Dup	101	101	94	99
LCSD 620-20360/2-A	Lab Control Sample Dup	103	102	94	101
LCSD 620-20489/2-A	Lab Control Sample Dup	100	100	98	100
MB 620-20252/3-A	Method Blank	100	101	101	100
MB 620-20295/3-A	Method Blank	99	100	94	101
MB 620-20322/3-A	Method Blank	100	102	100	104
MB 620-20327/3-A	Method Blank	100	101	94	99
MB 620-20360/3-A	Method Blank	100	103	94	102
MB 620-20489/3-A	Method Blank	97	99	99	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10080-1	2023-MW-07-0002'	73	90	73	73	78	68
620-10080-1 MS	2023-MW-07-0002'	84	93	81	86	84	72
620-10080-1 MSD	2023-MW-07-0002'	79	92	78	83	82	66
620-10080-2	2023-MW-07-0204'	71	96	57	73	92	74
620-10080-3	2023-MW-07-0406'	66	82	64	64	73	71
620-10080-4	2023-MW-07-0608'	62	80	49	62	75	68
620-10080-5	2023-MW-07-0810'	74	103	61	78	89	86
620-10080-6	2023-MW-07-1012'	79	106	66	81	94	95
620-10080-14	2023-SB-04-0002'	76	91	80	76	77	81
620-10080-15	2023-SB-04-0204'	70	93	56	73	81	79
620-10080-16	2023-SB-04-0406'	87	106	88	82	93	99
620-10080-17	2023-SB-04-0608'	91	126 S1+	80	99	103	109
620-10080-18	2023-SB-04-0810'	86	119 S1+	74	92	104	112
620-10080-19	2023-SB-04-1012'	81	100	78	78	85	89
620-10080-20	2023-SB-03-0002'	70	85	70	67	72	73
620-10080-21	2023-SB-03-0204'	70	93	57	73	81	78
620-10080-22	2023-SB-03-0406'	82	104	85	84	79	93
620-10080-23	2023-SB-03-0608'	85	116 S1+	74	93	100	98
620-10080-24	2023-SB-03-0810'	80	110	66	84	96	100
620-10080-25	2023-SB-03-1012'	79	97	80	77	67	94
620-10080-26	2023-MW-04-0002'	72	89	80	73	74	88
620-10080-27	2023-MW-04-0204'	77	98	83	78	75	97
620-10080-28	2023-MW-04-0406'	76	100	82	80	76	92
620-10080-28 MS	2023-MW-04-0406'	78	99	88	95	83	79
620-10080-28 MSD	2023-MW-04-0406'	79	98	86	92	84	82
620-10080-29	2023-MW-04-0608'	75	107	97	94	79	88
620-10080-30	2023-MW-04-0810'	87	112 S1+	95	97	80	95
620-10080-31	2023-MW-04-1012'	81	110	64	97	79	78
620-10080-32	2023-FD-05	86	113 S1+	87	100	87	96

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
LCS 620-20445/2-A	Lab Control Sample	82	92	83	87	90	88
LCS 620-20475/2-A	Lab Control Sample	76	93	79	83	79	76
LCSD 620-20445/3-A	Lab Control Sample Dup	73	86	76	79	80	81
LCSD 620-20475/3-A	Lab Control Sample Dup	76	91	79	82	76	75
MB 620-20445/1-A	Method Blank	78	99	83	86	66	90
MB 620-20475/1-A	Method Blank	66	81	68	69	46	70

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT-F1	TFT-P2
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10080-1	2023-MW-07-0002'	103	100
620-10080-1 MS	2023-MW-07-0002'	98	99
620-10080-1 MSD	2023-MW-07-0002'	103	101
620-10080-2	2023-MW-07-0204'	100	99
620-10080-3	2023-MW-07-0406'	100	98
620-10080-4	2023-MW-07-0608'	101	98
620-10080-5	2023-MW-07-0810'	101	99
620-10080-6	2023-MW-07-1012'	98	96
620-10080-14	2023-SB-04-0002'	99	97
620-10080-15	2023-SB-04-0204'	99	97
620-10080-16	2023-SB-04-0406'	98	95
620-10080-17	2023-SB-04-0608'	98	96
620-10080-18	2023-SB-04-0810'	97	95
620-10080-19	2023-SB-04-1012'	96	95
620-10080-20	2023-SB-03-0002'	97	95
620-10080-21	2023-SB-03-0204'	98	96
620-10080-22	2023-SB-03-0406'	97	95
620-10080-23	2023-SB-03-0608'	98	96
620-10080-24	2023-SB-03-0810'	96	94
620-10080-25	2023-SB-03-1012'	96	94
620-10080-26	2023-MW-04-0002'	95	93
620-10080-27	2023-MW-04-0204'	94	93
620-10080-28	2023-MW-04-0406'	103	101
620-10080-28 MS	2023-MW-04-0406'	103	102
620-10080-28 MSD	2023-MW-04-0406'	101	100
620-10080-29	2023-MW-04-0608'	100	99
620-10080-30	2023-MW-04-0810'	100	98
620-10080-31	2023-MW-04-1012'	101	99
620-10080-32	2023-FD-05	99	97
LCS 480-660571/2-A	Lab Control Sample	99	99

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TFT-F1 (70-130)	TFT-P2 (70-130)								
LCS 480-660655/2-A	Lab Control Sample	98	99								
LCSD 480-660571/3-A	Lab Control Sample Dup	99	98								
LCSD 480-660655/3-A	Lab Control Sample Dup	98	97								
MB 480-660571/1-A	Method Blank	111	109								
MB 480-660655/1-A	Method Blank	118	116								

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)
TFT-P = a,a,a-Trifluorotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)						
620-10080-1	2023-MW-07-0002'	65	70	132	131						
620-10080-1 MS	2023-MW-07-0002'	0 S1-	0 S1-	0 S1-	0 S1-						
620-10080-1 MSD	2023-MW-07-0002'	0 S1-	0 S1-	0 S1-	0 S1-						
620-10080-2	2023-MW-07-0204'	70	69	77	85						
620-10080-3	2023-MW-07-0406'	98	99	98	104						
620-10080-4	2023-MW-07-0608'	94	96	103	112						
620-10080-5	2023-MW-07-0810'	96	99	96	108						
620-10080-6	2023-MW-07-1012'	82	84	99	109						
620-10080-7	2023-SS-06	69	74	140	118						
620-10080-7 MS	2023-SS-06	89	82	128	120						
620-10080-7 MSD	2023-SS-06	92	84	120	121						
620-10080-8	2023-SS-05	79	85	100	104						
620-10080-9	2023-SS-04	86	88	134	132						
620-10080-10	2023-SS-03	96	102	137	136						
620-10080-11	2023-SS-02	102	105	109	110						
620-10080-12	2023-SS-01	98	102	139	131						
620-10080-13	2023-FD-02	79	86	96	101						
620-10080-14	2023-SB-04-0002'	76	78	90	93						
620-10080-15	2023-SB-04-0204'	109	115	136	143						
620-10080-16	2023-SB-04-0406'	93	99	106	111						
620-10080-17	2023-SB-04-0608'	47	47	55	56						
620-10080-18	2023-SB-04-0810'	100	102	116	123						
620-10080-19	2023-SB-04-1012'	95	97	115	119						
620-10080-20	2023-SB-03-0002'	95	102	95	100						
620-10080-21	2023-SB-03-0204'	101	108	107	112						
620-10080-22	2023-SB-03-0406'	107	109	117	121						
620-10080-23	2023-SB-03-0608'	89	91	110	114						
620-10080-24	2023-SB-03-0810'	32	33	30	30						
620-10080-25	2023-SB-03-1012'	64	65	68	72						
620-10080-26	2023-MW-04-0002'	101	103	120	131						
620-10080-27	2023-MW-04-0204'	87	85	97	96						
620-10080-28	2023-MW-04-0406'	123	123	124	135						
620-10080-28 MS	2023-MW-04-0406'	90	94	102	107						
620-10080-28 MSD	2023-MW-04-0406'	99	98	120	121						
620-10080-29	2023-MW-04-0608'	91	78	112	99						

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10080-30	2023-MW-04-0810'	89	90	100	104
620-10080-31	2023-MW-04-1012'	50	52	53	55
620-10080-32	2023-FD-05	58	60	72	75
LCS 620-20412/2-A	Lab Control Sample	91	96	116	127
LCS 620-20414/2-A	Lab Control Sample	76	79	106	114
LCS 620-20450/2-A	Lab Control Sample	89	93	94	118
LCS 620-20453/2-A	Lab Control Sample	94	97	103	115
LCS 620-20488/2-A	Lab Control Sample	98	114	101	126
LCSD 620-20412/3-A	Lab Control Sample Dup	110	117	129	136
LCSD 620-20414/3-A	Lab Control Sample Dup	91	94	116	123
LCSD 620-20450/3-A	Lab Control Sample Dup	109	116	117	135
LCSD 620-20453/3-A	Lab Control Sample Dup	88	94	99	109
LCSD 620-20488/3-A	Lab Control Sample Dup	109	112	126	138
MB 620-20412/1-A	Method Blank	94	97	103	105
MB 620-20414/1-A	Method Blank	92	95	120	125
MB 620-20450/1-A	Method Blank	97	99	107	119
MB 620-20453/1-A	Method Blank	97	100	106	121
MB 620-20488/1-A	Method Blank	99	101	129	136

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		1COD1	OTPH1	FBP1
Lab Sample ID	Client Sample ID	(40-140)	(40-140)	(40-140)
620-10080-7	2023-SS-06	46	70	109
620-10080-7 MS	2023-SS-06	59	80	108
620-10080-7 MSD	2023-SS-06	60	83	110
620-10080-8	2023-SS-05	55	52	96
620-10080-9	2023-SS-04	63	65	104
620-10080-10	2023-SS-03	56	61	91
620-10080-11	2023-SS-02	62	67	102
620-10080-12	2023-SS-01	54	55	108
620-10080-13	2023-FD-02	66	82	91
LCS 620-20278/2-B	Lab Control Sample	74	72	98
LCSD 620-20278/3-B	Lab Control Sample Dup	76	76	106
MB 620-20278/1-B	Method Blank	70	65	79

Surrogate Legend

1COD = 1-Chlorooctadecane (Surr)
OTPH = o-Terphenyl (Surr)
FBP = 2-Fluorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10080-1	2023-MW-07-0002'	61	69	62	57	59	65	65	67
620-10080-1 MS	2023-MW-07-0002'	86	85	85	87	88	84	90	92
620-10080-1 MSD	2023-MW-07-0002'	84	125	91	69	70	73	82	80
620-10080-2	2023-MW-07-0204'	12	17	14	16	17	17 *5-	17 *5-	18 *5-
620-10080-2 - RE	2023-MW-07-0204'	13	14 *5-	17	16	18	17 *5-	17 *5-	17 *5-
620-10080-3	2023-MW-07-0406'	46	48	52	53	58	56	51	54
620-10080-3 - RE	2023-MW-07-0406'	95	119	95	95	105	97	87	100
620-10080-4	2023-MW-07-0608'	94	102	101	99	110	105	101	108
620-10080-5	2023-MW-07-0810'	92	93	94	102	103	106	106	101
620-10080-6	2023-MW-07-1012'	73	86	85	99	97	98	91	86
620-10080-14	2023-SB-04-0002'	128	151	145	141	149	145	129	137
620-10080-15	2023-SB-04-0204'	97	114	118	114	119	121	108	114
620-10080-16	2023-SB-04-0406'	97	109	118	111	122	115	112	108
620-10080-17	2023-SB-04-0608'	93	114	103	113	117	115	111	112
620-10080-18	2023-SB-04-0810'	64	71	73	94	96	94	102	95
620-10080-19	2023-SB-04-1012'	95	114	102	111	119	115	111	110
620-10080-20	2023-SB-03-0002'	46	57	58	61	69	66	68	66
620-10080-20 - RE	2023-SB-03-0002'	88	99	96	105	106	111	99	102
620-10080-21	2023-SB-03-0204'	36	47	40	48	48	49	49	49
620-10080-21 - RE	2023-SB-03-0204'	40	43	46	52	56	56	46	52
620-10080-22	2023-SB-03-0406'	72	82	84	89	88	88	86	86
620-10080-23	2023-SB-03-0608'	73	74	75	96	93	93	99	88
620-10080-24	2023-SB-03-0810'	68	86	75	94	101	98	100	94
620-10080-25	2023-SB-03-1012'	32	35	35	37	43	44	45	41
620-10080-26	2023-MW-04-0002'	86	89	92	80	82	87	82	90
620-10080-26 - RE	2023-MW-04-0002'	109	124	107	107	121	120	118	130
620-10080-27	2023-MW-04-0204'	89	110	101	102	105	107	110	104
620-10080-28	2023-MW-04-0406'	98	103	115	112	116	107	120	112
620-10080-28 MS	2023-MW-04-0406'	86	100	99	99	103	105	106	108
620-10080-28 MSD	2023-MW-04-0406'	89	96	102	107	108	108	109	109
620-10080-29	2023-MW-04-0608'	114	122	127	136	138	130	117	118
620-10080-30	2023-MW-04-0810'	79	89	93	108	109	112	105	98
620-10080-31	2023-MW-04-1012'	99	102	109	115	114	114	110	111
620-10080-32	2023-FD-05	108	115	111	109	115	120	117	118
LCS 410-351205/2-B	Lab Control Sample	101	101	108	110	111	112	116	107
LCS 410-351207/2-B	Lab Control Sample	97	115	106	116	112	112	109	115
LCS 410-355125/2-B	Lab Control Sample	115	126	117	129	129	130	126	131
LCS 410-356793/2-B	Lab Control Sample	108	103	119	112	112	116	114	114
MB 410-351205/1-B	Method Blank	88	99	113	107	113	114	114	105
MB 410-351207/1-B	Method Blank	100	109	111	115	122	121	115	108
MB 410-355125/1-B	Method Blank	127	130	139	136	146	144	131	136
MB 410-356793/1-B	Method Blank	126	113	123	112	125	111	117	113

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10080-1	2023-MW-07-0002'	66	70	75	88	98	93	25	32
620-10080-1 MS	2023-MW-07-0002'	95	87	98	96	106	101	57	78
620-10080-1 MSD	2023-MW-07-0002'	70	72	79	87	93	94	44	46
620-10080-2	2023-MW-07-0204'	18	19	21	25 *5-	28	29 *5-	2 *5-	2 *5-

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10080-2 - RE	2023-MW-07-0204'	18	17	18	24 *5-	27	26 *5-	2 *5-	3 *5-
620-10080-3	2023-MW-07-0406'	60	56	61	62	69	63	4 *5-	6 *5-
620-10080-3 - RE	2023-MW-07-0406'	105	107	115	115	123	116	12	17
620-10080-4	2023-MW-07-0608'	112	118	124	109	113	112	16	21
620-10080-5	2023-MW-07-0810'	97	103	125	101	102	103	28	30
620-10080-6	2023-MW-07-1012'	91	83	86	89	92	91	54	48
620-10080-14	2023-SB-04-0002'	146	141	144	142	159	145	39	40
620-10080-15	2023-SB-04-0204'	122	118	120	113	117	113	109	98
620-10080-16	2023-SB-04-0406'	108	116	122	109	114	111	101	98
620-10080-17	2023-SB-04-0608'	111	116	131	107	103	108	108	109
620-10080-18	2023-SB-04-0810'	92	95	100	100	96	108	16	19
620-10080-19	2023-SB-04-1012'	111	107	112	111	113	111	100	107
620-10080-20	2023-SB-03-0002'	68	68	70	83	84	86	6 *5-	7 *5-
620-10080-20 - RE	2023-SB-03-0002'	106	104	109	123	141	126	9 *5-	12
620-10080-21	2023-SB-03-0204'	53	49	57	67	69	70	7 *5-	9 *5-
620-10080-21 - RE	2023-SB-03-0204'	55	52	54	73	82	70	9 *5-	11
620-10080-22	2023-SB-03-0406'	90	93	94	100	99	102	30	34
620-10080-23	2023-SB-03-0608'	91	94	98	98	101	110	16	19
620-10080-24	2023-SB-03-0810'	97	89	106	107	110	110	22	27
620-10080-25	2023-SB-03-1012'	42	42	46	55	57	60	13	13
620-10080-26	2023-MW-04-0002'	90	93	104	103	104	104	19	25
620-10080-26 - RE	2023-MW-04-0002'	131	136	135	133	143	128	32	43
620-10080-27	2023-MW-04-0204'	109	107	116	107	110	111	46	53
620-10080-28	2023-MW-04-0406'	117	108	130	122	116	120	85	93
620-10080-28 MS	2023-MW-04-0406'	119	112	132	108	105	111	56	62
620-10080-28 MSD	2023-MW-04-0406'	116	105	130	114	109	112	92	94
620-10080-29	2023-MW-04-0608'	124	129	152	132	141	136	12	15
620-10080-30	2023-MW-04-0810'	108	104	119	116	112	113	25	28
620-10080-31	2023-MW-04-1012'	117	106	132	121	114	117	80	85
620-10080-32	2023-FD-05	122	118	145	117	118	117	67	71
LCS 410-351205/2-B	Lab Control Sample	120	118	139	118	113	115	97	104
LCS 410-351207/2-B	Lab Control Sample	130	112	128	106	115	114	119	114
LCS 410-355125/2-B	Lab Control Sample	138	130	139	136	139	133	123	126
LCS 410-356793/2-B	Lab Control Sample	105	111	120	111	115	115	102	103
MB 410-351205/1-B	Method Blank	115	112	126	115	114	114	87	95
MB 410-351207/1-B	Method Blank	112	108	118	107	121	109	106	99
MB 410-355125/1-B	Method Blank	139	138	139	134	150	136	114	114
MB 410-356793/1-B	Method Blank	109	106	105	118	112	115	89	95

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10080-1	2023-MW-07-0002'	67	46	49	63	16	68	18	63
620-10080-1 MS	2023-MW-07-0002'	89	81	79	90	48	87	48	86
620-10080-1 MSD	2023-MW-07-0002'	60	70	69	55	13	53	14	78
620-10080-2	2023-MW-07-0204'	102	14 *5-	14 *5-	112	79	109	80	21
620-10080-2 - RE	2023-MW-07-0204'	116	15 *5-	15 *5-	111	74	109	80	19
620-10080-3	2023-MW-07-0406'	79	51	50	76	43	74	44	64
620-10080-3 - RE	2023-MW-07-0406'	81	91	87	59	7 *5-	72	9 *5-	93
620-10080-4	2023-MW-07-0608'	79	91	91	71	20	76	25	102
620-10080-5	2023-MW-07-0810'	91	96	96	86	47	83	50	99

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10080-6	2023-MW-07-1012'	93	89	84	87	52	85	54	99
620-10080-14	2023-SB-04-0002'	139	134	127	125	120	130	128	148
620-10080-15	2023-SB-04-0204'	117	118	114	109	92	109	94	111
620-10080-16	2023-SB-04-0406'	102	117	112	95	42	95	47	117
620-10080-17	2023-SB-04-0608'	112	115	109	107	97	110	104	100
620-10080-18	2023-SB-04-0810'	107	91	89	107	93	105	94	94
620-10080-19	2023-SB-04-1012'	108	115	110	99	95	101	97	101
620-10080-20	2023-SB-03-0002'	107	58	58	103	83	94	90	77
620-10080-20 - RE	2023-SB-03-0002'	110	96	92	99	33	108	35	99
620-10080-21	2023-SB-03-0204'	105	45	44	101	81	98	80	53
620-10080-21 - RE	2023-SB-03-0204'	129	47	46	129	102	129	110	49
620-10080-22	2023-SB-03-0406'	98	87	85	91	30	93	31	85
620-10080-23	2023-SB-03-0608'	101	90	86	94	83	92	87	89
620-10080-24	2023-SB-03-0810'	103	97	91	96	84	94	87	107
620-10080-25	2023-SB-03-1012'	103	38	36	97	88	96	92	45
620-10080-26	2023-MW-04-0002'	45	69	71	33	3 *5-	44	4 *5-	83
620-10080-26 - RE	2023-MW-04-0002'	50	97	100	36	5 *5-	47	5 *5-	96
620-10080-27	2023-MW-04-0204'	86	96	91	80	53	79	54	97
620-10080-28	2023-MW-04-0406'	103	113	103	110	95	106	97	98
620-10080-28 MS	2023-MW-04-0406'	105	105	99	116	102	114	104	87
620-10080-28 MSD	2023-MW-04-0406'	104	110	105	112	102	116	104	87
620-10080-29	2023-MW-04-0608'	127	113	116	122	119	140	121	112
620-10080-30	2023-MW-04-0810'	100	107	99	108	101	116	106	99
620-10080-31	2023-MW-04-1012'	108	113	98	109	95	112	97	89
620-10080-32	2023-FD-05	115	115	106	115	111	125	113	104
LCS 410-351205/2-B	Lab Control Sample	91	107	113	95	69	97	68	94
LCS 410-351207/2-B	Lab Control Sample	112	117	113	99	71	97	69	111
LCS 410-355125/2-B	Lab Control Sample	76	118	120	69	53	79	50	112
LCS 410-356793/2-B	Lab Control Sample	108	110	118	105	84	102	88	101
MB 410-351205/1-B	Method Blank	76	97	92	82	74	88	76	93
MB 410-351207/1-B	Method Blank	78	104	105	65	23	66	20	111
MB 410-355125/1-B	Method Blank	77	114	118	68	25	73	26	124
MB 410-356793/1-B	Method Blank	104	109	119	95	91	92	84	103

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02096		mg/Kg		105	70 - 130
Acetone	0.0200	0.01748	J	mg/Kg		87	70 - 130
Acrylonitrile	0.0200	0.01945		mg/Kg		97	70 - 130
Benzene	0.0200	0.02067		mg/Kg		103	70 - 130
Bromobenzene	0.0200	0.01988		mg/Kg		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.02025		mg/Kg		101	70 - 130
Bromodichloromethane	0.0200	0.02042		mg/Kg		102	70 - 130
Bromoform	0.0200	0.02011		mg/Kg		101	70 - 130
Bromomethane	0.0200	0.02293		mg/Kg		115	70 - 130
2-Butanone (MEK)	0.0200	0.01932		mg/Kg		97	70 - 130
n-Butylbenzene	0.0200	0.02077		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0200	0.02139		mg/Kg		107	70 - 130
tert-Butylbenzene	0.0200	0.02043		mg/Kg		102	70 - 130
Carbon disulfide	0.0200	0.02131		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0200	0.02046		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02083		mg/Kg		104	70 - 130
Chloroethane	0.0200	0.02435		mg/Kg		122	70 - 130
Chloroform	0.0200	0.02055		mg/Kg		103	70 - 130
Chloromethane	0.0200	0.02048		mg/Kg		102	70 - 130
2-Chlorotoluene	0.0200	0.02147		mg/Kg		107	70 - 130
4-Chlorotoluene	0.0200	0.02089		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01950		mg/Kg		98	70 - 130
Dibromochloromethane	0.0200	0.01977		mg/Kg		99	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02009		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.02040		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.02033		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0200	0.02106		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.02063		mg/Kg		103	70 - 130
1,1-Dichloroethane	0.0200	0.01982		mg/Kg		99	70 - 130
1,2-Dichloroethane	0.0200	0.01963		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01956		mg/Kg		98	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01971		mg/Kg		99	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02011		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0200	0.02010		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0200	0.02008		mg/Kg		100	70 - 130
2,2-Dichloropropane	0.0200	0.01921		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0200	0.01973		mg/Kg		99	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01942		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02028		mg/Kg		101	70 - 130
Ethylbenzene	0.0200	0.02106		mg/Kg		105	70 - 130
Hexachlorobutadiene	0.0200	0.01937		mg/Kg		97	70 - 130
2-Hexanone (MBK)	0.0200	0.01706		mg/Kg		85	70 - 130
Isopropylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130
4-Isopropyltoluene	0.0200	0.02046		mg/Kg		102	70 - 130
Methyl tert-butyl ether	0.0200	0.01835		mg/Kg		92	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01801		mg/Kg		90	70 - 130
Methylene Chloride	0.0200	0.01923		mg/Kg		96	70 - 130
Naphthalene	0.0200	0.01982		mg/Kg		99	70 - 130
N-Propylbenzene	0.0200	0.02133		mg/Kg		107	70 - 130
Styrene	0.0200	0.02090		mg/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02057		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02149		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.01948		mg/Kg		97	70 - 130
Toluene	0.0200	0.02071		mg/Kg		104	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01977		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01996		mg/Kg		100	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02024		mg/Kg		101	70 - 130
1,1,1-Trichloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02094		mg/Kg		105	70 - 130
Trichloroethene	0.0200	0.02045		mg/Kg		102	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01966		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	0.0200	0.02100		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02101		mg/Kg		105	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02122		mg/Kg		106	70 - 130
Vinyl chloride	0.0200	0.02156		mg/Kg		108	70 - 130
m,p-Xylene	0.0200	0.02023		mg/Kg		101	70 - 130
o-Xylene	0.0200	0.02000		mg/Kg		100	70 - 130
Tetrahydrofuran	0.0200	0.01770		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.01933		mg/Kg		97	70 - 130
Tert-amyl methyl ether	0.0200	0.01885		mg/Kg		94	70 - 130
Ethyl tert-butyl ether	0.0200	0.01830		mg/Kg		92	70 - 130
di-Isopropyl ether	0.0200	0.01818		mg/Kg		91	70 - 130
tert-Butanol	0.200	0.1695		mg/Kg		85	70 - 130
1,4-Dioxane	0.200	0.1818		mg/Kg		91	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.01981	J	mg/Kg		99	70 - 130
Ethanol	0.400	0.3363	J	mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01969		mg/Kg		98	70 - 130	6	30
Acetone	0.0200	0.01853	J	mg/Kg		93	70 - 130	6	30
Acrylonitrile	0.0200	0.01950		mg/Kg		97	70 - 130	0	30
Benzene	0.0200	0.02062		mg/Kg		103	70 - 130	0	30
Bromobenzene	0.0200	0.01973		mg/Kg		99	70 - 130	1	30
Bromochloromethane	0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Bromodichloromethane	0.0200	0.02010		mg/Kg		100	70 - 130	2	30
Bromoform	0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Bromomethane	0.0200	0.02172		mg/Kg		109	70 - 130	5	30
2-Butanone (MEK)	0.0200	0.01913		mg/Kg		96	70 - 130	1	30
n-Butylbenzene	0.0200	0.02045		mg/Kg		102	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene			0.0200	0.02078		mg/Kg		104	70 - 130	3	30
tert-Butylbenzene			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Carbon disulfide			0.0200	0.02026		mg/Kg		101	70 - 130	5	30
Carbon tetrachloride			0.0200	0.01986		mg/Kg		99	70 - 130	3	30
Chlorobenzene			0.0200	0.02018		mg/Kg		101	70 - 130	3	30
Chloroethane			0.0200	0.02343		mg/Kg		117	70 - 130	4	30
Chloroform			0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Chloromethane			0.0200	0.02018		mg/Kg		101	70 - 130	1	30
2-Chlorotoluene			0.0200	0.02119		mg/Kg		106	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02057		mg/Kg		103	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02022		mg/Kg		101	70 - 130	4	30
Dibromochloromethane			0.0200	0.01999		mg/Kg		100	70 - 130	1	30
1,2-Dibromoethane (EDB)			0.0200	0.01981		mg/Kg		99	70 - 130	1	30
Dibromomethane			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02035		mg/Kg		102	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.02060		mg/Kg		103	70 - 130	2	30
1,4-Dichlorobenzene			0.0200	0.02055		mg/Kg		103	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01996		mg/Kg		100	70 - 130	3	30
1,1-Dichloroethane			0.0200	0.02026		mg/Kg		101	70 - 130	2	30
1,2-Dichloroethane			0.0200	0.01996		mg/Kg		100	70 - 130	2	30
1,1-Dichloroethene			0.0200	0.01930		mg/Kg		96	70 - 130	1	30
cis-1,2-Dichloroethene			0.0200	0.01928		mg/Kg		96	70 - 130	2	30
trans-1,2-Dichloroethene			0.0200	0.01953		mg/Kg		98	70 - 130	3	30
1,2-Dichloropropane			0.0200	0.02020		mg/Kg		101	70 - 130	0	30
1,3-Dichloropropane			0.0200	0.02039		mg/Kg		102	70 - 130	2	30
2,2-Dichloropropane			0.0200	0.01931		mg/Kg		97	70 - 130	1	30
1,1-Dichloropropene			0.0200	0.01930		mg/Kg		96	70 - 130	2	30
cis-1,3-Dichloropropene			0.0200	0.01923		mg/Kg		96	70 - 130	1	30
trans-1,3-Dichloropropene			0.0200	0.02008		mg/Kg		100	70 - 130	1	30
Ethylbenzene			0.0200	0.02082		mg/Kg		104	70 - 130	1	30
Hexachlorobutadiene			0.0200	0.01970		mg/Kg		98	70 - 130	2	30
2-Hexanone (MBK)			0.0200	0.01794		mg/Kg		90	70 - 130	5	30
Isopropylbenzene			0.0200	0.02027		mg/Kg		101	70 - 130	2	30
4-Isopropyltoluene			0.0200	0.01996		mg/Kg		100	70 - 130	2	30
Methyl tert-butyl ether			0.0200	0.01876		mg/Kg		94	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.01850		mg/Kg		92	70 - 130	3	30
Methylene Chloride			0.0200	0.01923		mg/Kg		96	70 - 130	0	30
Naphthalene			0.0200	0.02154		mg/Kg		108	70 - 130	8	30
N-Propylbenzene			0.0200	0.02078		mg/Kg		104	70 - 130	3	30
Styrene			0.0200	0.02010		mg/Kg		101	70 - 130	4	30
1,1,1,2-Tetrachloroethane			0.0200	0.02000		mg/Kg		100	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.02199		mg/Kg		110	70 - 130	2	30
Tetrachloroethene			0.0200	0.01857		mg/Kg		93	70 - 130	5	30
Toluene			0.0200	0.02034		mg/Kg		102	70 - 130	2	30
1,2,3-Trichlorobenzene			0.0200	0.02093		mg/Kg		105	70 - 130	6	30
1,2,4-Trichlorobenzene			0.0200	0.02061		mg/Kg		103	70 - 130	3	30
1,3,5-Trichlorobenzene			0.0200	0.02032		mg/Kg		102	70 - 130	0	30
1,1,1-Trichloroethane			0.0200	0.01941		mg/Kg		97	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02077		mg/Kg		104	70 - 130	1	30
Trichloroethene			0.0200	0.02030		mg/Kg		102	70 - 130	1	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01940		mg/Kg		97	70 - 130	1	30
1,2,3-Trichloropropane			0.0200	0.02111		mg/Kg		106	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0200	0.02073		mg/Kg		104	70 - 130	1	30
1,3,5-Trimethylbenzene			0.0200	0.02053		mg/Kg		103	70 - 130	3	30
Vinyl chloride			0.0200	0.02060		mg/Kg		103	70 - 130	5	30
m,p-Xylene			0.0200	0.02004		mg/Kg		100	70 - 130	1	30
o-Xylene			0.0200	0.01964		mg/Kg		98	70 - 130	2	30
Tetrahydrofuran			0.0200	0.01787		mg/Kg		89	70 - 130	1	30
Ethyl ether			0.0200	0.01916		mg/Kg		96	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.01857		mg/Kg		93	70 - 130	1	30
Ethyl tert-butyl ether			0.0200	0.01822		mg/Kg		91	70 - 130	0	30
di-Isopropyl ether			0.0200	0.01887		mg/Kg		94	70 - 130	4	30
tert-Butanol			0.200	0.1846		mg/Kg		92	70 - 130	9	30
1,4-Dioxane			0.200	0.1951		mg/Kg		98	70 - 130	7	30
trans-1,4-Dichloro-2-butene			0.0200	0.02027	J	mg/Kg		101	70 - 130	2	30
Ethanol			0.400	0.4041	J	mg/Kg		101	70 - 130	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/06/23 09:50	03/06/23 13:14	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/06/23 09:50	03/06/23 13:14	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/06/23 09:50	03/06/23 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*

Lab Sample ID: LCS 620-20295/1-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02105		mg/Kg		105	70 - 130
Acetone	0.0200	0.01858	J	mg/Kg		93	70 - 130
Acrylonitrile	0.0200	0.01925		mg/Kg		96	70 - 130
Benzene	0.0200	0.02129		mg/Kg		106	70 - 130
Bromobenzene	0.0200	0.02084		mg/Kg		104	70 - 130
Bromochloromethane	0.0200	0.02048		mg/Kg		102	70 - 130
Bromodichloromethane	0.0200	0.02083		mg/Kg		104	70 - 130
Bromoform	0.0200	0.02048		mg/Kg		102	70 - 130
Bromomethane	0.0200	0.02105		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0200	0.02054		mg/Kg		103	70 - 130
n-Butylbenzene	0.0200	0.02130		mg/Kg		107	70 - 130
sec-Butylbenzene	0.0200	0.02167		mg/Kg		108	70 - 130
tert-Butylbenzene	0.0200	0.02099		mg/Kg		105	70 - 130
Carbon disulfide	0.0200	0.02158		mg/Kg		108	70 - 130
Carbon tetrachloride	0.0200	0.02079		mg/Kg		104	70 - 130
Chlorobenzene	0.0200	0.02128		mg/Kg		106	70 - 130
Chloroethane	0.0200	0.02335		mg/Kg		117	70 - 130
Chloroform	0.0200	0.02101		mg/Kg		105	70 - 130
Chloromethane	0.0200	0.02179		mg/Kg		109	70 - 130
2-Chlorotoluene	0.0200	0.02152		mg/Kg		108	70 - 130
4-Chlorotoluene	0.0200	0.02143		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02064		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02026		mg/Kg		101	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20295/1-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0200	0.02051		mg/Kg		103	70 - 130
Dibromomethane	0.0200	0.02068		mg/Kg		103	70 - 130
1,2-Dichlorobenzene	0.0200	0.02123		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02157		mg/Kg		108	70 - 130
1,4-Dichlorobenzene	0.0200	0.02118		mg/Kg		106	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01915		mg/Kg		96	70 - 130
1,1-Dichloroethane	0.0200	0.02063		mg/Kg		103	70 - 130
1,2-Dichloroethane	0.0200	0.01976		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0200	0.02090		mg/Kg		105	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01999		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02027		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0200	0.02004		mg/Kg		100	70 - 130
1,3-Dichloropropane	0.0200	0.02061		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01966		mg/Kg		98	70 - 130
1,1-Dichloropropene	0.0200	0.01999		mg/Kg		100	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01921		mg/Kg		96	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02008		mg/Kg		100	70 - 130
Ethylbenzene	0.0200	0.02142		mg/Kg		107	70 - 130
Hexachlorobutadiene	0.0200	0.02025		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01770		mg/Kg		88	70 - 130
Isopropylbenzene	0.0200	0.02108		mg/Kg		105	70 - 130
4-Isopropyltoluene	0.0200	0.02089		mg/Kg		104	70 - 130
Methyl tert-butyl ether	0.0200	0.01869		mg/Kg		93	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01805		mg/Kg		90	70 - 130
Methylene Chloride	0.0200	0.02069		mg/Kg		103	70 - 130
Naphthalene	0.0200	0.02055		mg/Kg		103	70 - 130
N-Propylbenzene	0.0200	0.02172		mg/Kg		109	70 - 130
Styrene	0.0200	0.02145		mg/Kg		107	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02082		mg/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02171		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01976		mg/Kg		99	70 - 130
Toluene	0.0200	0.02129		mg/Kg		106	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02067		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02063		mg/Kg		103	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02114		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02031		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02147		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02056		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02029		mg/Kg		101	70 - 130
1,2,3-Trichloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02186		mg/Kg		109	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Vinyl chloride	0.0200	0.02059		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02052		mg/Kg		103	70 - 130
o-Xylene	0.0200	0.02028		mg/Kg		101	70 - 130
Tetrahydrofuran	0.0200	0.01779		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.01992		mg/Kg		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20295/1-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20295

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0200	0.01848		mg/Kg		92	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01805		mg/Kg		90	70 - 130		
di-Isopropyl ether			0.0200	0.01874		mg/Kg		94	70 - 130		
tert-Butanol			0.200	0.1710		mg/Kg		86	70 - 130		
1,4-Dioxane			0.200	0.1766		mg/Kg		88	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.01971	J	mg/Kg		99	70 - 130		
Ethanol			0.400	0.3660	J	mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20295/2-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20295

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02085		mg/Kg		104	70 - 130	1	30
Acetone			0.0200	0.01856	J	mg/Kg		93	70 - 130	0	30
Acrylonitrile			0.0200	0.01985		mg/Kg		99	70 - 130	3	30
Benzene			0.0200	0.02138		mg/Kg		107	70 - 130	0	30
Bromobenzene			0.0200	0.02056		mg/Kg		103	70 - 130	1	30
Bromochloromethane			0.0200	0.02068		mg/Kg		103	70 - 130	1	30
Bromodichloromethane			0.0200	0.02054		mg/Kg		103	70 - 130	1	30
Bromoform			0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Bromomethane			0.0200	0.02162		mg/Kg		108	70 - 130	3	30
2-Butanone (MEK)			0.0200	0.01767		mg/Kg		88	70 - 130	15	30
n-Butylbenzene			0.0200	0.02093		mg/Kg		105	70 - 130	2	30
sec-Butylbenzene			0.0200	0.02131		mg/Kg		107	70 - 130	2	30
tert-Butylbenzene			0.0200	0.02072		mg/Kg		104	70 - 130	1	30
Carbon disulfide			0.0200	0.02150		mg/Kg		107	70 - 130	0	30
Carbon tetrachloride			0.0200	0.02066		mg/Kg		103	70 - 130	1	30
Chlorobenzene			0.0200	0.02122		mg/Kg		106	70 - 130	0	30
Chloroethane			0.0200	0.02299		mg/Kg		115	70 - 130	2	30
Chloroform			0.0200	0.02096		mg/Kg		105	70 - 130	0	30
Chloromethane			0.0200	0.02130		mg/Kg		107	70 - 130	2	30
2-Chlorotoluene			0.0200	0.02018		mg/Kg		101	70 - 130	6	30
4-Chlorotoluene			0.0200	0.02115		mg/Kg		106	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02062		mg/Kg		103	70 - 130	0	30
Dibromochloromethane			0.0200	0.02042		mg/Kg		102	70 - 130	1	30
1,2-Dibromoethane (EDB)			0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Dibromomethane			0.0200	0.02069		mg/Kg		103	70 - 130	0	30
1,2-Dichlorobenzene			0.0200	0.02119		mg/Kg		106	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.02145		mg/Kg		107	70 - 130	1	30
1,4-Dichlorobenzene			0.0200	0.02097		mg/Kg		105	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20295/2-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0200	0.01844		mg/Kg		92	70 - 130	4	30
1,1-Dichloroethane	0.0200	0.02050		mg/Kg		103	70 - 130	1	30
1,2-Dichloroethane	0.0200	0.01989		mg/Kg		99	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.02052		mg/Kg		103	70 - 130	2	30
cis-1,2-Dichloroethene	0.0200	0.02006		mg/Kg		100	70 - 130	0	30
trans-1,2-Dichloroethene	0.0200	0.02036		mg/Kg		102	70 - 130	0	30
1,2-Dichloropropane	0.0200	0.02010		mg/Kg		100	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.02041		mg/Kg		102	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01969		mg/Kg		98	70 - 130	0	30
1,1-Dichloropropene	0.0200	0.02030		mg/Kg		101	70 - 130	2	30
cis-1,3-Dichloropropene	0.0200	0.01953		mg/Kg		98	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02033		mg/Kg		102	70 - 130	1	30
Ethylbenzene	0.0200	0.02140		mg/Kg		107	70 - 130	0	30
Hexachlorobutadiene	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
2-Hexanone (MBK)	0.0200	0.01737		mg/Kg		87	70 - 130	2	30
Isopropylbenzene	0.0200	0.02103		mg/Kg		105	70 - 130	0	30
4-Isopropyltoluene	0.0200	0.02080		mg/Kg		104	70 - 130	0	30
Methyl tert-butyl ether	0.0200	0.01895		mg/Kg		95	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01804		mg/Kg		90	70 - 130	0	30
Methylene Chloride	0.0200	0.02066		mg/Kg		103	70 - 130	0	30
Naphthalene	0.0200	0.02133		mg/Kg		107	70 - 130	4	30
N-Propylbenzene	0.0200	0.02157		mg/Kg		108	70 - 130	1	30
Styrene	0.0200	0.02114		mg/Kg		106	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02094		mg/Kg		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02174		mg/Kg		109	70 - 130	0	30
Tetrachloroethene	0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Toluene	0.0200	0.02111		mg/Kg		106	70 - 130	1	30
1,2,3-Trichlorobenzene	0.0200	0.02132		mg/Kg		107	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,3,5-Trichlorobenzene	0.0200	0.02047		mg/Kg		102	70 - 130	3	30
1,1,1-Trichloroethane	0.0200	0.02073		mg/Kg		104	70 - 130	2	30
1,1,2-Trichloroethane	0.0200	0.02063		mg/Kg		103	70 - 130	4	30
Trichloroethene	0.0200	0.02052		mg/Kg		103	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	0.0200	0.02006		mg/Kg		100	70 - 130	1	30
1,2,3-Trichloropropane	0.0200	0.02060		mg/Kg		103	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02124		mg/Kg		106	70 - 130	3	30
1,3,5-Trimethylbenzene	0.0200	0.02105		mg/Kg		105	70 - 130	2	30
Vinyl chloride	0.0200	0.02080		mg/Kg		104	70 - 130	1	30
m,p-Xylene	0.0200	0.02049		mg/Kg		102	70 - 130	0	30
o-Xylene	0.0200	0.02034		mg/Kg		102	70 - 130	0	30
Tetrahydrofuran	0.0200	0.01702		mg/Kg		85	70 - 130	4	30
Ethyl ether	0.0200	0.01983		mg/Kg		99	70 - 130	0	30
Tert-amyl methyl ether	0.0200	0.01838		mg/Kg		92	70 - 130	1	30
Ethyl tert-butyl ether	0.0200	0.01860		mg/Kg		93	70 - 130	3	30
di-Isopropyl ether	0.0200	0.01917		mg/Kg		96	70 - 130	2	30
tert-Butanol	0.200	0.1740		mg/Kg		87	70 - 130	2	30
1,4-Dioxane	0.200	0.1814		mg/Kg		91	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20295/2-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20295

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0200	0.01989	J	mg/Kg		99	70 - 130	1	30
Ethanol			0.400	0.3912	J	mg/Kg		98	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.0233	0.02711		mg/Kg	☼	116	70 - 130
Acetone	ND	F1	0.0233	0.01578	J F1	mg/Kg	☼	68	70 - 130
Acrylonitrile	ND		0.0233	0.02324		mg/Kg	☼	100	70 - 130
Benzene	ND		0.0233	0.02539		mg/Kg	☼	109	70 - 130
Bromobenzene	ND	F1	0.0233	0.01589	F1	mg/Kg	☼	68	70 - 130
Bromochloromethane	ND		0.0233	0.02236		mg/Kg	☼	96	70 - 130
Bromodichloromethane	ND		0.0233	0.02590		mg/Kg	☼	111	70 - 130
Bromoform	ND		0.0233	0.02330		mg/Kg	☼	100	70 - 130
Bromomethane	ND		0.0233	0.02295		mg/Kg	☼	98	70 - 130
2-Butanone (MEK)	ND		0.0233	0.01913		mg/Kg	☼	82	70 - 130
n-Butylbenzene	ND	*3	0.0233	0.02206		mg/Kg	☼	95	70 - 130
sec-Butylbenzene	ND		0.0233	0.02153		mg/Kg	☼	92	70 - 130
tert-Butylbenzene	ND		0.0233	0.02043		mg/Kg	☼	88	70 - 130
Carbon disulfide	ND		0.0233	0.02103		mg/Kg	☼	90	70 - 130
Carbon tetrachloride	ND		0.0233	0.02546		mg/Kg	☼	109	70 - 130
Chlorobenzene	ND		0.0233	0.02316		mg/Kg	☼	99	70 - 130
Chloroethane	ND	F1	0.0233	0.02731		mg/Kg	☼	117	70 - 130
Chloroform	ND		0.0233	0.02473		mg/Kg	☼	106	70 - 130
Chloromethane	ND		0.0233	0.02593		mg/Kg	☼	111	70 - 130
2-Chlorotoluene	ND		0.0233	0.02108		mg/Kg	☼	90	70 - 130
4-Chlorotoluene	ND		0.0233	0.01697		mg/Kg	☼	73	70 - 130
1,2-Dibromo-3-Chloropropane	ND	*3	0.0233	0.02562		mg/Kg	☼	110	70 - 130
Dibromochloromethane	ND		0.0233	0.02330		mg/Kg	☼	100	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0233	0.01855		mg/Kg	☼	80	70 - 130
Dibromomethane	ND		0.0233	0.02137		mg/Kg	☼	92	70 - 130
1,2-Dichlorobenzene	ND	*3	0.0233	0.01948		mg/Kg	☼	83	70 - 130
1,3-Dichlorobenzene	ND	F1	0.0233	0.01464	F1	mg/Kg	☼	63	70 - 130
1,4-Dichlorobenzene	ND	*3	0.0233	0.01874		mg/Kg	☼	80	70 - 130
Dichlorodifluoromethane (Freon 12)	ND		0.0233	0.01908		mg/Kg	☼	82	70 - 130
1,1-Dichloroethane	ND	F1	0.0233	0.02732		mg/Kg	☼	117	70 - 130
1,2-Dichloroethane	ND		0.0233	0.02161		mg/Kg	☼	93	70 - 130
1,1-Dichloroethene	ND		0.0233	0.02451		mg/Kg	☼	105	70 - 130
cis-1,2-Dichloroethene	ND		0.0233	0.02151		mg/Kg	☼	92	70 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	ND		0.0233	0.02219		mg/Kg	☼	95	70 - 130
1,2-Dichloropropane	ND	F1	0.0233	0.02732		mg/Kg	☼	117	70 - 130
1,3-Dichloropropane	ND		0.0233	0.02052		mg/Kg	☼	88	70 - 130
2,2-Dichloropropane	ND		0.0233	0.02511		mg/Kg	☼	108	70 - 130
1,1-Dichloropropene	ND		0.0233	0.02035		mg/Kg	☼	87	70 - 130
cis-1,3-Dichloropropene	ND		0.0233	0.01725		mg/Kg	☼	74	70 - 130
trans-1,3-Dichloropropene	ND		0.0233	0.01650		mg/Kg	☼	71	70 - 130
Ethylbenzene	ND		0.0233	0.02508		mg/Kg	☼	108	70 - 130
Hexachlorobutadiene	ND	*3	0.0233	0.01643		mg/Kg	☼	70	70 - 130
2-Hexanone (MBK)	ND	F1	0.0233	0.01575	F1	mg/Kg	☼	68	70 - 130
Isopropylbenzene	ND		0.0233	0.02324		mg/Kg	☼	100	70 - 130
4-Isopropyltoluene	ND	*3	0.0233	0.02488		mg/Kg	☼	107	70 - 130
Methyl tert-butyl ether	ND		0.0233	0.02177		mg/Kg	☼	93	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		0.0233	0.02027		mg/Kg	☼	87	70 - 130
Methylene Chloride	ND		0.0233	0.02354		mg/Kg	☼	101	70 - 130
Naphthalene	ND	F1 *3	0.0233	0.008328	F1	mg/Kg	☼	36	70 - 130
N-Propylbenzene	ND		0.0233	0.02171		mg/Kg	☼	93	70 - 130
Styrene	ND		0.0233	0.01828		mg/Kg	☼	78	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0233	0.02712		mg/Kg	☼	116	70 - 130
1,1,2,2-Tetrachloroethane	ND	F1	0.0233	0.02820		mg/Kg	☼	121	70 - 130
Tetrachloroethene	ND		0.0233	0.02073		mg/Kg	☼	89	70 - 130
Toluene	ND		0.0233	0.02342		mg/Kg	☼	100	70 - 130
1,2,3-Trichlorobenzene	ND	F1 *3	0.0233	0.01031	F1	mg/Kg	☼	44	70 - 130
1,2,4-Trichlorobenzene	ND	F1	0.0233	0.007044	F1	mg/Kg	☼	30	70 - 130
1,3,5-Trichlorobenzene	ND	F1 *3	0.0233	0.01460	F1	mg/Kg	☼	63	70 - 130
1,1,1-Trichloroethane	ND		0.0233	0.02596		mg/Kg	☼	111	70 - 130
1,1,2-Trichloroethane	ND	F1	0.0233	0.02650		mg/Kg	☼	114	70 - 130
Trichloroethene	ND		0.0233	0.02089		mg/Kg	☼	90	70 - 130
Trichlorofluoromethane (Freon 11)	ND	F1	0.0233	0.02626		mg/Kg	☼	113	70 - 130
1,2,3-Trichloropropane	ND		0.0233	0.02408		mg/Kg	☼	103	70 - 130
1,2,4-Trimethylbenzene	ND		0.0233	0.02038		mg/Kg	☼	87	70 - 130
1,3,5-Trimethylbenzene	ND		0.0233	0.02254		mg/Kg	☼	97	70 - 130
Vinyl chloride	ND		0.0233	0.02386		mg/Kg	☼	102	70 - 130
m,p-Xylene	ND		0.0467	0.04954		mg/Kg	☼	106	70 - 130
o-Xylene	ND		0.0233	0.02302		mg/Kg	☼	99	70 - 130
Tetrahydrofuran	ND		0.0233	0.02452		mg/Kg	☼	105	70 - 130
Ethyl ether	ND		0.0233	0.02149		mg/Kg	☼	92	70 - 130
Tert-amyl methyl ether	ND		0.0233	0.02221		mg/Kg	☼	95	70 - 130
Ethyl tert-butyl ether	ND		0.0233	0.02110		mg/Kg	☼	90	70 - 130
di-Isopropyl ether	ND		0.0233	0.02136		mg/Kg	☼	92	70 - 130
tert-Butanol	ND		0.233	0.2507		mg/Kg	☼	107	70 - 130
1,4-Dioxane	ND		0.233	0.2613		mg/Kg	☼	112	70 - 130
trans-1,4-Dichloro-2-butene	ND	F1	0.0233	0.01433	J F1	mg/Kg	☼	61	70 - 130
Ethanol	ND	F1	0.467	0.5811	J	mg/Kg	☼	125	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20295

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1	0.0202	0.02636	F1	mg/Kg	☼	131	70 - 130	3	30
Acetone	ND	F1	0.0202	0.01421	J	mg/Kg	☼	70	70 - 130	10	30
Acrylonitrile	ND		0.0202	0.02171		mg/Kg	☼	108	70 - 130	7	30
Benzene	ND		0.0202	0.02560		mg/Kg	☼	127	70 - 130	1	30
Bromobenzene	ND	F1	0.0202	0.01828		mg/Kg	☼	91	70 - 130	14	30
Bromochloromethane	ND		0.0202	0.02291		mg/Kg	☼	114	70 - 130	2	30
Bromodichloromethane	ND		0.0202	0.02622		mg/Kg	☼	130	70 - 130	1	30
Bromoform	ND		0.0202	0.02356		mg/Kg	☼	117	70 - 130	1	30
Bromomethane	ND		0.0202	0.02329		mg/Kg	☼	115	70 - 130	1	30
2-Butanone (MEK)	ND		0.0202	0.01637		mg/Kg	☼	81	70 - 130	16	30
n-Butylbenzene	ND	*3	0.0202	0.02158		mg/Kg	☼	107	70 - 130	2	30
sec-Butylbenzene	ND		0.0202	0.02141		mg/Kg	☼	106	70 - 130	1	30
tert-Butylbenzene	ND		0.0202	0.02037		mg/Kg	☼	101	70 - 130	0	30
Carbon disulfide	ND		0.0202	0.02260		mg/Kg	☼	112	70 - 130	7	30
Carbon tetrachloride	ND		0.0202	0.02503		mg/Kg	☼	124	70 - 130	2	30
Chlorobenzene	ND		0.0202	0.02509		mg/Kg	☼	124	70 - 130	8	30
Chloroethane	ND	F1	0.0202	0.02742	F1	mg/Kg	☼	136	70 - 130	0	30
Chloroform	ND		0.0202	0.02471		mg/Kg	☼	122	70 - 130	0	30
Chloromethane	ND		0.0202	0.02577		mg/Kg	☼	128	70 - 130	1	30
2-Chlorotoluene	ND		0.0202	0.01917		mg/Kg	☼	95	70 - 130	9	30
4-Chlorotoluene	ND		0.0202	0.01882		mg/Kg	☼	93	70 - 130	10	30
1,2-Dibromo-3-Chloropropane	ND	*3	0.0202	0.02547		mg/Kg	☼	126	70 - 130	1	30
Dibromochloromethane	ND		0.0202	0.02443		mg/Kg	☼	121	70 - 130	5	30
1,2-Dibromoethane (EDB)	ND		0.0202	0.02037		mg/Kg	☼	101	70 - 130	9	30
Dibromomethane	ND		0.0202	0.02296		mg/Kg	☼	114	70 - 130	7	30
1,2-Dichlorobenzene	ND	*3	0.0202	0.02211		mg/Kg	☼	110	70 - 130	13	30
1,3-Dichlorobenzene	ND	F1	0.0202	0.01711		mg/Kg	☼	85	70 - 130	16	30
1,4-Dichlorobenzene	ND	*3	0.0202	0.02125		mg/Kg	☼	105	70 - 130	13	30
Dichlorodifluoromethane (Freon 12)	ND		0.0202	0.01903		mg/Kg	☼	94	70 - 130	0	30
1,1-Dichloroethane	ND	F1	0.0202	0.02637	F1	mg/Kg	☼	131	70 - 130	4	30
1,2-Dichloroethane	ND		0.0202	0.02249		mg/Kg	☼	111	70 - 130	4	30
1,1-Dichloroethene	ND		0.0202	0.02538		mg/Kg	☼	126	70 - 130	3	30
cis-1,2-Dichloroethene	ND		0.0202	0.02329		mg/Kg	☼	115	70 - 130	8	30
trans-1,2-Dichloroethene	ND		0.0202	0.02389		mg/Kg	☼	118	70 - 130	7	30
1,2-Dichloropropane	ND	F1	0.0202	0.02696	F1	mg/Kg	☼	134	70 - 130	1	30
1,3-Dichloropropane	ND		0.0202	0.02158		mg/Kg	☼	107	70 - 130	5	30
2,2-Dichloropropane	ND		0.0202	0.02395		mg/Kg	☼	119	70 - 130	5	30
1,1-Dichloropropene	ND		0.0202	0.02095		mg/Kg	☼	104	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		0.0202	0.01917		mg/Kg	☼	95	70 - 130	10	30
trans-1,3-Dichloropropene	ND		0.0202	0.01943		mg/Kg	☼	96	70 - 130	16	30
Ethylbenzene	ND		0.0202	0.02570		mg/Kg	☼	127	70 - 130	2	30
Hexachlorobutadiene	ND	*3	0.0202	0.01533		mg/Kg	☼	76	70 - 130	7	30
2-Hexanone (MBK)	ND	F1	0.0202	0.01468		mg/Kg	☼	73	70 - 130	7	30
Isopropylbenzene	ND		0.0202	0.02271		mg/Kg	☼	113	70 - 130	2	30
4-Isopropyltoluene	ND	*3	0.0202	0.02367		mg/Kg	☼	117	70 - 130	5	30
Methyl tert-butyl ether	ND		0.0202	0.02083		mg/Kg	☼	103	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	ND		0.0202	0.01996		mg/Kg	☼	99	70 - 130	2	30
Methylene Chloride	ND		0.0202	0.02345		mg/Kg	☼	116	70 - 130	0	30
Naphthalene	ND	F1 *3	0.0202	0.01030	F1	mg/Kg	☼	51	70 - 130	21	30
N-Propylbenzene	ND		0.0202	0.02230		mg/Kg	☼	110	70 - 130	3	30
Styrene	ND		0.0202	0.02071		mg/Kg	☼	103	70 - 130	12	30
1,1,1,2-Tetrachloroethane	ND		0.0202	0.02562		mg/Kg	☼	127	70 - 130	6	30
1,1,2,2-Tetrachloroethane	ND	F1	0.0202	0.02844	F1	mg/Kg	☼	141	70 - 130	1	30
Tetrachloroethene	ND		0.0202	0.02204		mg/Kg	☼	109	70 - 130	6	30
Toluene	ND		0.0202	0.02429		mg/Kg	☼	120	70 - 130	4	30
1,2,3-Trichlorobenzene	ND	F1 *3	0.0202	0.01138	F1	mg/Kg	☼	56	70 - 130	10	30
1,2,4-Trichlorobenzene	ND	F1	0.0202	0.009225	F1	mg/Kg	☼	46	70 - 130	27	30
1,3,5-Trichlorobenzene	ND	F1 *3	0.0202	0.01553		mg/Kg	☼	77	70 - 130	6	30
1,1,1-Trichloroethane	ND		0.0202	0.02493		mg/Kg	☼	124	70 - 130	4	30
1,1,2-Trichloroethane	ND	F1	0.0202	0.02677	F1	mg/Kg	☼	133	70 - 130	1	30
Trichloroethene	ND		0.0202	0.02205		mg/Kg	☼	109	70 - 130	5	30
Trichlorofluoromethane (Freon 11)	ND	F1	0.0202	0.02637	F1	mg/Kg	☼	131	70 - 130	0	30
1,2,3-Trichloropropane	ND		0.0202	0.02470		mg/Kg	☼	122	70 - 130	3	30
1,2,4-Trimethylbenzene	ND		0.0202	0.02083		mg/Kg	☼	103	70 - 130	2	30
1,3,5-Trimethylbenzene	ND		0.0202	0.02212		mg/Kg	☼	110	70 - 130	2	30
Vinyl chloride	ND		0.0202	0.02442		mg/Kg	☼	121	70 - 130	2	30
m,p-Xylene	ND		0.0404	0.05090		mg/Kg	☼	126	70 - 130	3	30
o-Xylene	ND		0.0202	0.02345		mg/Kg	☼	116	70 - 130	2	30
Tetrahydrofuran	ND		0.0202	0.01983		mg/Kg	☼	98	70 - 130	21	30
Ethyl ether	ND		0.0202	0.02086		mg/Kg	☼	103	70 - 130	3	30
Tert-amyl methyl ether	ND		0.0202	0.02109		mg/Kg	☼	105	70 - 130	5	30
Ethyl tert-butyl ether	ND		0.0202	0.02057		mg/Kg	☼	102	70 - 130	3	30
di-Isopropyl ether	ND		0.0202	0.02048		mg/Kg	☼	101	70 - 130	4	30
tert-Butanol	ND		0.202	0.2271		mg/Kg	☼	113	70 - 130	10	30
1,4-Dioxane	ND		0.202	0.2363		mg/Kg	☼	117	70 - 130	10	30
trans-1,4-Dichloro-2-butene	ND	F1	0.0202	0.01848	J	mg/Kg	☼	92	70 - 130	25	30
Ethanol	ND	F1	0.404	0.5267	J F1	mg/Kg	☼	131	70 - 130	10	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0210	0.02295		mg/Kg	☼	109	70 - 130
Acetone	ND		0.0210	0.01885	J	mg/Kg	☼	90	70 - 130
Acrylonitrile	ND		0.0210	0.01917		mg/Kg	☼	91	70 - 130
Benzene	ND		0.0210	0.02339		mg/Kg	☼	112	70 - 130
Bromobenzene	ND		0.0210	0.02090		mg/Kg	☼	100	70 - 130
Bromochloromethane	ND		0.0210	0.02199		mg/Kg	☼	105	70 - 130
Bromodichloromethane	ND		0.0210	0.02489		mg/Kg	☼	119	70 - 130
Bromoform	ND		0.0210	0.02199		mg/Kg	☼	105	70 - 130
Bromomethane	ND		0.0210	0.02120		mg/Kg	☼	101	70 - 130
2-Butanone (MEK)	ND		0.0210	0.01607		mg/Kg	☼	77	70 - 130
n-Butylbenzene	ND		0.0210	0.02358		mg/Kg	☼	113	70 - 130
sec-Butylbenzene	ND		0.0210	0.02278		mg/Kg	☼	109	70 - 130
tert-Butylbenzene	ND		0.0210	0.02196		mg/Kg	☼	105	70 - 130
Carbon disulfide	ND		0.0210	0.02229		mg/Kg	☼	106	70 - 130
Carbon tetrachloride	ND		0.0210	0.02220		mg/Kg	☼	106	70 - 130
Chlorobenzene	ND		0.0210	0.02472		mg/Kg	☼	118	70 - 130
Chloroethane	ND		0.0210	0.02368		mg/Kg	☼	113	70 - 130
Chloroform	ND		0.0210	0.02226		mg/Kg	☼	106	70 - 130
Chloromethane	ND		0.0210	0.02235		mg/Kg	☼	107	70 - 130
2-Chlorotoluene	ND		0.0210	0.02326		mg/Kg	☼	111	70 - 130
4-Chlorotoluene	ND		0.0210	0.02251		mg/Kg	☼	107	70 - 130
1,2-Dibromo-3-Chloropropane	ND		0.0210	0.01963		mg/Kg	☼	94	70 - 130
Dibromochloromethane	ND		0.0210	0.02329		mg/Kg	☼	111	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0210	0.02143		mg/Kg	☼	102	70 - 130
Dibromomethane	ND		0.0210	0.02227		mg/Kg	☼	106	70 - 130
1,2-Dichlorobenzene	ND		0.0210	0.02286		mg/Kg	☼	109	70 - 130
1,3-Dichlorobenzene	ND		0.0210	0.02214		mg/Kg	☼	106	70 - 130
1,4-Dichlorobenzene	ND		0.0210	0.02343		mg/Kg	☼	112	70 - 130
Dichlorodifluoromethane (Freon 12)	ND		0.0210	0.01624		mg/Kg	☼	77	70 - 130
1,1-Dichloroethane	ND		0.0210	0.02369		mg/Kg	☼	113	70 - 130
1,2-Dichloroethane	ND		0.0210	0.02102		mg/Kg	☼	100	70 - 130
1,1-Dichloroethene	ND		0.0210	0.02337		mg/Kg	☼	111	70 - 130
cis-1,2-Dichloroethene	ND		0.0210	0.02245		mg/Kg	☼	107	70 - 130
trans-1,2-Dichloroethene	ND		0.0210	0.02333		mg/Kg	☼	111	70 - 130
1,2-Dichloropropane	ND		0.0210	0.02399		mg/Kg	☼	114	70 - 130
1,3-Dichloropropane	ND		0.0210	0.02116		mg/Kg	☼	101	70 - 130
2,2-Dichloropropane	ND		0.0210	0.02078		mg/Kg	☼	99	70 - 130
1,1-Dichloropropene	ND		0.0210	0.02029		mg/Kg	☼	97	70 - 130
cis-1,3-Dichloropropene	ND		0.0210	0.01965		mg/Kg	☼	94	70 - 130
trans-1,3-Dichloropropene	ND		0.0210	0.02130		mg/Kg	☼	102	70 - 130
Ethylbenzene	ND		0.0210	0.02401		mg/Kg	☼	115	70 - 130
Hexachlorobutadiene	ND		0.0210	0.01739		mg/Kg	☼	83	70 - 130
2-Hexanone (MBK)	ND		0.0210	0.01504		mg/Kg	☼	72	70 - 130
Isopropylbenzene	ND		0.0210	0.02230		mg/Kg	☼	106	70 - 130
4-Isopropyltoluene	ND		0.0210	0.02141		mg/Kg	☼	102	70 - 130
Methyl tert-butyl ether	ND		0.0210	0.01842		mg/Kg	☼	88	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		0.0210	0.01695		mg/Kg	☼	81	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	ND		0.0210	0.02573		mg/Kg	☼	123	70 - 130
Naphthalene	ND		0.0210	0.01608		mg/Kg	☼	77	70 - 130
N-Propylbenzene	ND		0.0210	0.02404		mg/Kg	☼	115	70 - 130
Styrene	ND		0.0210	0.02286		mg/Kg	☼	109	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0210	0.02267		mg/Kg	☼	108	70 - 130
1,1,2,2-Tetrachloroethane	ND	F1	0.0210	0.02484		mg/Kg	☼	119	70 - 130
Tetrachloroethene	ND		0.0210	0.02191		mg/Kg	☼	105	70 - 130
Toluene	ND		0.0210	0.02339		mg/Kg	☼	112	70 - 130
1,2,3-Trichlorobenzene	ND		0.0210	0.01716		mg/Kg	☼	82	70 - 130
1,2,4-Trichlorobenzene	ND		0.0210	0.01716		mg/Kg	☼	82	70 - 130
1,3,5-Trichlorobenzene	ND		0.0210	0.01967		mg/Kg	☼	94	70 - 130
1,1,1-Trichloroethane	ND		0.0210	0.02248		mg/Kg	☼	107	70 - 130
1,1,2-Trichloroethane	ND	F1	0.0210	0.02454		mg/Kg	☼	117	70 - 130
Trichloroethene	ND		0.0210	0.02193		mg/Kg	☼	105	70 - 130
Trichlorofluoromethane (Freon 11)	ND		0.0210	0.02337		mg/Kg	☼	112	70 - 130
1,2,3-Trichloropropane	ND		0.0210	0.02150		mg/Kg	☼	103	70 - 130
1,2,4-Trimethylbenzene	ND		0.0210	0.02264		mg/Kg	☼	108	70 - 130
1,3,5-Trimethylbenzene	ND		0.0210	0.02285		mg/Kg	☼	109	70 - 130
Vinyl chloride	ND		0.0210	0.02214		mg/Kg	☼	106	70 - 130
m,p-Xylene	ND		0.0419	0.04881		mg/Kg	☼	116	70 - 130
o-Xylene	ND		0.0210	0.02237		mg/Kg	☼	107	70 - 130
Tetrahydrofuran	ND		0.0210	0.01653		mg/Kg	☼	79	70 - 130
Ethyl ether	ND		0.0210	0.01849		mg/Kg	☼	88	70 - 130
Tert-amyl methyl ether	ND		0.0210	0.01881		mg/Kg	☼	90	70 - 130
Ethyl tert-butyl ether	ND		0.0210	0.01807		mg/Kg	☼	86	70 - 130
di-Isopropyl ether	ND		0.0210	0.01853		mg/Kg	☼	88	70 - 130
tert-Butanol	ND		0.210	0.1900		mg/Kg	☼	91	70 - 130
1,4-Dioxane	ND		0.210	0.1912		mg/Kg	☼	91	70 - 130
trans-1,4-Dichloro-2-butene	ND		0.0210	0.02100	J	mg/Kg	☼	100	70 - 130
Ethanol	ND		0.419	0.4213	J	mg/Kg	☼	100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0212	0.02623		mg/Kg	☼	124	70 - 130	13	30
Acetone	ND		0.0212	0.01971	J	mg/Kg	☼	93	70 - 130	4	30
Acrylonitrile	ND		0.0212	0.02286		mg/Kg	☼	108	70 - 130	18	30
Benzene	ND		0.0212	0.02598		mg/Kg	☼	123	70 - 130	11	30
Bromobenzene	ND		0.0212	0.02270		mg/Kg	☼	107	70 - 130	8	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane	ND		0.0212	0.02467		mg/Kg	☼	116	70 - 130	11	30
Bromodichloromethane	ND		0.0212	0.02739		mg/Kg	☼	129	70 - 130	10	30
Bromoform	ND		0.0212	0.02572		mg/Kg	☼	121	70 - 130	16	30
Bromomethane	ND		0.0212	0.02375		mg/Kg	☼	112	70 - 130	11	30
2-Butanone (MEK)	ND		0.0212	0.02152		mg/Kg	☼	101	70 - 130	29	30
n-Butylbenzene	ND		0.0212	0.02577		mg/Kg	☼	122	70 - 130	9	30
sec-Butylbenzene	ND		0.0212	0.02587		mg/Kg	☼	122	70 - 130	13	30
tert-Butylbenzene	ND		0.0212	0.02465		mg/Kg	☼	116	70 - 130	12	30
Carbon disulfide	ND		0.0212	0.02487		mg/Kg	☼	117	70 - 130	11	30
Carbon tetrachloride	ND		0.0212	0.02522		mg/Kg	☼	119	70 - 130	13	30
Chlorobenzene	ND		0.0212	0.02751		mg/Kg	☼	130	70 - 130	11	30
Chloroethane	ND		0.0212	0.02686		mg/Kg	☼	127	70 - 130	13	30
Chloroform	ND		0.0212	0.02534		mg/Kg	☼	120	70 - 130	13	30
Chloromethane	ND		0.0212	0.02514		mg/Kg	☼	119	70 - 130	12	30
2-Chlorotoluene	ND		0.0212	0.02530		mg/Kg	☼	119	70 - 130	8	30
4-Chlorotoluene	ND		0.0212	0.02424		mg/Kg	☼	114	70 - 130	7	30
1,2-Dibromo-3-Chloropropane	ND		0.0212	0.02239		mg/Kg	☼	106	70 - 130	13	30
Dibromochloromethane	ND		0.0212	0.02680		mg/Kg	☼	126	70 - 130	14	30
1,2-Dibromoethane (EDB)	ND		0.0212	0.02467		mg/Kg	☼	116	70 - 130	14	30
Dibromomethane	ND		0.0212	0.02537		mg/Kg	☼	120	70 - 130	13	30
1,2-Dichlorobenzene	ND		0.0212	0.02546		mg/Kg	☼	120	70 - 130	11	30
1,3-Dichlorobenzene	ND		0.0212	0.02436		mg/Kg	☼	115	70 - 130	10	30
1,4-Dichlorobenzene	ND		0.0212	0.02524		mg/Kg	☼	119	70 - 130	7	30
Dichlorodifluoromethane (Freon 12)	ND		0.0212	0.01871		mg/Kg	☼	88	70 - 130	14	30
1,1-Dichloroethane	ND		0.0212	0.02663		mg/Kg	☼	126	70 - 130	12	30
1,2-Dichloroethane	ND		0.0212	0.02390		mg/Kg	☼	113	70 - 130	13	30
1,1-Dichloroethene	ND		0.0212	0.02628		mg/Kg	☼	124	70 - 130	12	30
cis-1,2-Dichloroethene	ND		0.0212	0.02531		mg/Kg	☼	119	70 - 130	12	30
trans-1,2-Dichloroethene	ND		0.0212	0.02674		mg/Kg	☼	126	70 - 130	14	30
1,2-Dichloropropane	ND		0.0212	0.02716		mg/Kg	☼	128	70 - 130	12	30
1,3-Dichloropropane	ND		0.0212	0.02385		mg/Kg	☼	112	70 - 130	12	30
2,2-Dichloropropane	ND		0.0212	0.02378		mg/Kg	☼	112	70 - 130	13	30
1,1-Dichloropropene	ND		0.0212	0.02356		mg/Kg	☼	111	70 - 130	15	30
cis-1,3-Dichloropropene	ND		0.0212	0.02248		mg/Kg	☼	106	70 - 130	13	30
trans-1,3-Dichloropropene	ND		0.0212	0.02405		mg/Kg	☼	113	70 - 130	12	30
Ethylbenzene	ND		0.0212	0.02657		mg/Kg	☼	125	70 - 130	10	30
Hexachlorobutadiene	ND		0.0212	0.02179		mg/Kg	☼	103	70 - 130	22	30
2-Hexanone (MBK)	ND		0.0212	0.01731		mg/Kg	☼	82	70 - 130	14	30
Isopropylbenzene	ND		0.0212	0.02459		mg/Kg	☼	116	70 - 130	10	30
4-Isopropyltoluene	ND		0.0212	0.02428		mg/Kg	☼	114	70 - 130	13	30
Methyl tert-butyl ether	ND		0.0212	0.02089		mg/Kg	☼	99	70 - 130	13	30
4-Methyl-2-pentanone (MIBK)	ND		0.0212	0.02013		mg/Kg	☼	95	70 - 130	17	30
Methylene Chloride	ND		0.0212	0.02435		mg/Kg	☼	115	70 - 130	5	30
Naphthalene	ND		0.0212	0.02081		mg/Kg	☼	98	70 - 130	26	30
N-Propylbenzene	ND		0.0212	0.02616		mg/Kg	☼	123	70 - 130	8	30
Styrene	ND		0.0212	0.02478		mg/Kg	☼	117	70 - 130	8	30
1,1,1,2-Tetrachloroethane	ND		0.0212	0.02480		mg/Kg	☼	117	70 - 130	9	30
1,1,2,2-Tetrachloroethane	ND	F1	0.0212	0.02825	F1	mg/Kg	☼	133	70 - 130	13	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	ND		0.0212	0.02513		mg/Kg	☼	119	70 - 130	14	30
Toluene	ND		0.0212	0.02642		mg/Kg	☼	125	70 - 130	12	30
1,2,3-Trichlorobenzene	ND		0.0212	0.02157		mg/Kg	☼	102	70 - 130	23	30
1,2,4-Trichlorobenzene	ND		0.0212	0.02084		mg/Kg	☼	98	70 - 130	19	30
1,3,5-Trichlorobenzene	ND		0.0212	0.02258		mg/Kg	☼	107	70 - 130	14	30
1,1,1-Trichloroethane	ND		0.0212	0.02539		mg/Kg	☼	120	70 - 130	12	30
1,1,2-Trichloroethane	ND	F1	0.0212	0.02790	F1	mg/Kg	☼	132	70 - 130	13	30
Trichloroethene	ND		0.0212	0.02442		mg/Kg	☼	115	70 - 130	11	30
Trichlorofluoromethane (Freon 11)	ND		0.0212	0.02630		mg/Kg	☼	124	70 - 130	12	30
1,2,3-Trichloropropane	ND		0.0212	0.02470		mg/Kg	☼	117	70 - 130	14	30
1,2,4-Trimethylbenzene	ND		0.0212	0.02458		mg/Kg	☼	116	70 - 130	8	30
1,3,5-Trimethylbenzene	ND		0.0212	0.02513		mg/Kg	☼	119	70 - 130	10	30
Vinyl chloride	ND		0.0212	0.02484		mg/Kg	☼	117	70 - 130	12	30
m,p-Xylene	ND		0.0424	0.05350		mg/Kg	☼	126	70 - 130	9	30
o-Xylene	ND		0.0212	0.02494		mg/Kg	☼	118	70 - 130	11	30
Tetrahydrofuran	ND		0.0212	0.01986		mg/Kg	☼	94	70 - 130	18	30
Ethyl ether	ND		0.0212	0.02122		mg/Kg	☼	100	70 - 130	14	30
Tert-amyl methyl ether	ND		0.0212	0.02151		mg/Kg	☼	101	70 - 130	13	30
Ethyl tert-butyl ether	ND		0.0212	0.02060		mg/Kg	☼	97	70 - 130	13	30
di-Isopropyl ether	ND		0.0212	0.02099		mg/Kg	☼	99	70 - 130	12	30
tert-Butanol	ND		0.212	0.2302		mg/Kg	☼	109	70 - 130	19	30
1,4-Dioxane	ND		0.212	0.2384		mg/Kg	☼	112	70 - 130	22	30
trans-1,4-Dichloro-2-butene	ND		0.0212	0.02531	J	mg/Kg	☼	119	70 - 130	19	30
Ethanol	ND		0.424	0.4739	J	mg/Kg	☼	112	70 - 130	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0500	0.0274	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Acetone	ND		0.500	0.0630	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Acrylonitrile	ND		0.0500	0.0181	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Benzene	ND		0.0500	0.00800	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromobenzene	ND		0.0500	0.0113	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromochloromethane	ND		0.0500	0.00715	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromodichloromethane	ND		0.0500	0.0129	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromoform	ND		0.0500	0.0107	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromomethane	ND		0.100	0.0247	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Butanone (MEK)	ND		0.100	0.0229	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
n-Butylbenzene	ND		0.0500	0.0200	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0500	0.0154	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
tert-Butylbenzene	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Carbon disulfide	ND		0.100	0.0185	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Carbon tetrachloride	ND		0.0500	0.0150	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chlorobenzene	ND		0.0500	0.00605	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloroethane	ND		0.100	0.0223	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloroform	ND		0.0500	0.00590	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloromethane	ND		0.100	0.0595	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Chlorotoluene	ND		0.0500	0.0124	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Chlorotoluene	ND		0.0500	0.00905	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dibromo-3-Chloropropane	ND		0.100	0.0198	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dibromochloromethane	ND		0.0500	0.00790	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dibromoethane (EDB)	ND		0.0500	0.0136	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dibromomethane	ND		0.0500	0.00940	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichlorobenzene	ND		0.0500	0.00900	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichlorobenzene	ND		0.0500	0.0125	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,4-Dichlorobenzene	ND		0.0500	0.00895	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dichlorodifluoromethane (Freon 12)	ND		0.100	0.0655	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloroethane	ND		0.0500	0.0116	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichloroethane	ND		0.0500	0.0131	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloroethene	ND		0.0500	0.0128	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
cis-1,2-Dichloroethene	ND		0.0500	0.0167	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,2-Dichloroethene	ND		0.0500	0.0114	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichloropropane	ND		0.0500	0.0174	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichloropropane	ND		0.0500	0.0158	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2,2-Dichloropropane	ND		0.0500	0.0132	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloropropene	ND		0.0500	0.0153	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
cis-1,3-Dichloropropene	ND		0.0500	0.0118	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,3-Dichloropropene	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethylbenzene	ND		0.0500	0.0105	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Hexachlorobutadiene	ND		0.0500	0.0160	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Hexanone (MBK)	ND		0.100	0.0333	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Isopropylbenzene	ND		0.0500	0.0182	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Isopropyltoluene	ND		0.0500	0.0139	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Methyl tert-butyl ether	ND		0.0500	0.0151	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.100	0.0358	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Methylene Chloride	ND		0.100	0.0427	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Naphthalene	ND		0.0500	0.0145	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
N-Propylbenzene	ND		0.0500	0.0125	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Styrene	ND		0.0500	0.00660	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0121	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0159	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tetrachloroethene	ND		0.0500	0.0158	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Toluene	ND		0.0500	0.00805	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,3-Trichlorobenzene	ND		0.0500	0.0117	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,4-Trichlorobenzene	ND		0.0500	0.00825	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3,5-Trichlorobenzene	ND		0.0500	0.00790	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,1-Trichloroethane	ND		0.0500	0.0121	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,2-Trichloroethane	ND		0.0500	0.0155	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0500	0.00855	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Trichlorofluoromethane (Freon 11)	ND		0.0500	0.0226	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,3-Trichloropropane	ND		0.0500	0.0231	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,4-Trimethylbenzene	ND		0.0500	0.0127	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3,5-Trimethylbenzene	ND		0.0500	0.0105	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Vinyl chloride	ND		0.0500	0.0246	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
m,p-Xylene	ND		0.0500	0.0294	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
o-Xylene	ND		0.0500	0.0154	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tetrahydrofuran	ND		0.100	0.0366	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethyl ether	ND		0.0500	0.0136	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tert-amyl methyl ether	ND		0.0500	0.0277	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethyl tert-butyl ether	ND		0.0500	0.0139	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
di-Isopropyl ether	ND		0.0500	0.0162	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
tert-Butanol	ND		1.00	0.710	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,4-Dioxane	ND		1.00	0.295	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,4-Dichloro-2-butene	ND		0.250	0.0330	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethanol	ND		10.0	0.860	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichloropropene, Total	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Xylenes, Total	ND		0.150	0.150	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.00	1.106		mg/Kg		111	70 - 130
Acetone	1.00	1.153		mg/Kg		115	70 - 130
Acrylonitrile	1.00	1.064		mg/Kg		106	70 - 130
Benzene	1.00	1.109		mg/Kg		111	70 - 130
Bromobenzene	1.00	1.042		mg/Kg		104	70 - 130
Bromochloromethane	1.00	1.120		mg/Kg		112	70 - 130
Bromodichloromethane	1.00	1.066		mg/Kg		107	70 - 130
Bromoform	1.00	1.084		mg/Kg		108	70 - 130
Bromomethane	1.00	0.9995		mg/Kg		100	70 - 130
2-Butanone (MEK)	1.00	1.154		mg/Kg		115	70 - 130
n-Butylbenzene	1.00	1.009		mg/Kg		101	70 - 130
sec-Butylbenzene	1.00	1.145		mg/Kg		115	70 - 130
tert-Butylbenzene	1.00	1.114		mg/Kg		111	70 - 130
Carbon disulfide	1.00	1.085		mg/Kg		108	70 - 130
Carbon tetrachloride	1.00	1.114		mg/Kg		111	70 - 130
Chlorobenzene	1.00	0.9928		mg/Kg		99	70 - 130
Chloroethane	1.00	1.056		mg/Kg		106	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	1.00	1.037		mg/Kg		104	70 - 130
Chloromethane	1.00	1.015		mg/Kg		102	70 - 130
2-Chlorotoluene	1.00	1.081		mg/Kg		108	70 - 130
4-Chlorotoluene	1.00	1.127		mg/Kg		113	70 - 130
1,2-Dibromo-3-Chloropropane	1.00	0.9423		mg/Kg		94	70 - 130
Dibromochloromethane	1.00	1.076		mg/Kg		108	70 - 130
1,2-Dibromoethane (EDB)	1.00	1.121		mg/Kg		112	70 - 130
Dibromomethane	1.00	1.077		mg/Kg		108	70 - 130
1,2-Dichlorobenzene	1.00	1.065		mg/Kg		107	70 - 130
1,3-Dichlorobenzene	1.00	1.100		mg/Kg		110	70 - 130
1,4-Dichlorobenzene	1.00	0.9312		mg/Kg		93	70 - 130
Dichlorodifluoromethane (Freon 12)	1.00	0.9875		mg/Kg		99	70 - 130
1,1-Dichloroethane	1.00	1.094		mg/Kg		109	70 - 130
1,2-Dichloroethane	1.00	1.066		mg/Kg		107	70 - 130
1,1-Dichloroethene	1.00	1.092		mg/Kg		109	70 - 130
cis-1,2-Dichloroethene	1.00	1.075		mg/Kg		108	70 - 130
trans-1,2-Dichloroethene	1.00	1.091		mg/Kg		109	70 - 130
1,2-Dichloropropane	1.00	1.070		mg/Kg		107	70 - 130
1,3-Dichloropropane	1.00	1.104		mg/Kg		110	70 - 130
2,2-Dichloropropane	1.00	1.099		mg/Kg		110	70 - 130
1,1-Dichloropropene	1.00	1.153		mg/Kg		115	70 - 130
cis-1,3-Dichloropropene	1.00	1.126		mg/Kg		113	70 - 130
trans-1,3-Dichloropropene	1.00	1.190		mg/Kg		119	70 - 130
Ethylbenzene	1.00	1.063		mg/Kg		106	70 - 130
Hexachlorobutadiene	1.00	1.005		mg/Kg		101	70 - 130
2-Hexanone (MBK)	1.00	1.097		mg/Kg		110	70 - 130
Isopropylbenzene	1.00	1.124		mg/Kg		112	70 - 130
4-Isopropyltoluene	1.00	0.9770		mg/Kg		98	70 - 130
Methyl tert-butyl ether	1.00	1.144		mg/Kg		114	70 - 130
4-Methyl-2-pentanone (MIBK)	1.00	1.125		mg/Kg		112	70 - 130
Methylene Chloride	1.00	1.055		mg/Kg		106	70 - 130
Naphthalene	1.00	0.9102		mg/Kg		91	70 - 130
N-Propylbenzene	1.00	1.120		mg/Kg		112	70 - 130
Styrene	1.00	0.9700		mg/Kg		97	70 - 130
1,1,1,2-Tetrachloroethane	1.00	1.032		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	1.00	1.013		mg/Kg		101	70 - 130
Tetrachloroethene	1.00	1.133		mg/Kg		113	70 - 130
Toluene	1.00	1.088		mg/Kg		109	70 - 130
1,2,3-Trichlorobenzene	1.00	1.092		mg/Kg		109	70 - 130
1,2,4-Trichlorobenzene	1.00	1.121		mg/Kg		112	70 - 130
1,3,5-Trichlorobenzene	1.00	1.123		mg/Kg		112	70 - 130
1,1,1-Trichloroethane	1.00	1.076		mg/Kg		108	70 - 130
1,1,2-Trichloroethane	1.00	1.073		mg/Kg		107	70 - 130
Trichloroethene	1.00	1.064		mg/Kg		106	70 - 130
Trichlorofluoromethane (Freon 11)	1.00	1.016		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	1.00	1.011		mg/Kg		101	70 - 130
1,2,4-Trimethylbenzene	1.00	1.013		mg/Kg		101	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,3,5-Trimethylbenzene			1.00	1.015		mg/Kg		101	70 - 130		
Vinyl chloride			1.00	0.8972		mg/Kg		90	70 - 130		
m,p-Xylene			1.00	1.135		mg/Kg		113	70 - 130		
o-Xylene			1.00	1.143		mg/Kg		114	70 - 130		
Tetrahydrofuran			1.00	0.9394		mg/Kg		94	70 - 130		
Ethyl ether			1.00	1.106		mg/Kg		111	70 - 130		
Tert-amyl methyl ether			1.00	1.121		mg/Kg		112	70 - 130		
Ethyl tert-butyl ether			1.00	1.144		mg/Kg		114	70 - 130		
di-Isopropyl ether			1.00	1.118		mg/Kg		112	70 - 130		
tert-Butanol			10.0	12.32		mg/Kg		123	70 - 130		
1,4-Dioxane			10.0	12.80		mg/Kg		128	70 - 130		
trans-1,4-Dichloro-2-butene			1.00	1.146		mg/Kg		115	70 - 130		
Ethanol			20.0	21.35		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			1.00	1.091		mg/Kg		109	70 - 130	1	30
Acetone			1.00	1.124		mg/Kg		112	70 - 130	2	30
Acrylonitrile			1.00	1.047		mg/Kg		105	70 - 130	2	30
Benzene			1.00	1.102		mg/Kg		110	70 - 130	1	30
Bromobenzene			1.00	1.044		mg/Kg		104	70 - 130	0	30
Bromochloromethane			1.00	1.139		mg/Kg		114	70 - 130	2	30
Bromodichloromethane			1.00	1.065		mg/Kg		107	70 - 130	0	30
Bromoform			1.00	1.073		mg/Kg		107	70 - 130	1	30
Bromomethane			1.00	1.013		mg/Kg		101	70 - 130	1	30
2-Butanone (MEK)			1.00	1.183		mg/Kg		118	70 - 130	2	30
n-Butylbenzene			1.00	0.9879		mg/Kg		99	70 - 130	2	30
sec-Butylbenzene			1.00	1.120		mg/Kg		112	70 - 130	2	30
tert-Butylbenzene			1.00	1.116		mg/Kg		112	70 - 130	0	30
Carbon disulfide			1.00	1.082		mg/Kg		108	70 - 130	0	30
Carbon tetrachloride			1.00	1.109		mg/Kg		111	70 - 130	0	30
Chlorobenzene			1.00	0.9760		mg/Kg		98	70 - 130	2	30
Chloroethane			1.00	1.061		mg/Kg		106	70 - 130	0	30
Chloroform			1.00	1.036		mg/Kg		104	70 - 130	0	30
Chloromethane			1.00	1.009		mg/Kg		101	70 - 130	1	30
2-Chlorotoluene			1.00	1.082		mg/Kg		108	70 - 130	0	30
4-Chlorotoluene			1.00	1.106		mg/Kg		111	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			1.00	0.9246		mg/Kg		92	70 - 130	2	30
Dibromochloromethane			1.00	1.085		mg/Kg		109	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			1.00	1.140		mg/Kg		114	70 - 130	2	30
Dibromomethane			1.00	1.087		mg/Kg		109	70 - 130	1	30
1,2-Dichlorobenzene			1.00	1.043		mg/Kg		104	70 - 130	2	30
1,3-Dichlorobenzene			1.00	1.088		mg/Kg		109	70 - 130	1	30
1,4-Dichlorobenzene			1.00	0.9230		mg/Kg		92	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)			1.00	0.9821		mg/Kg		98	70 - 130	1	30
1,1-Dichloroethane			1.00	1.092		mg/Kg		109	70 - 130	0	30
1,2-Dichloroethane			1.00	1.077		mg/Kg		108	70 - 130	1	30
1,1-Dichloroethene			1.00	1.090		mg/Kg		109	70 - 130	0	30
cis-1,2-Dichloroethene			1.00	1.102		mg/Kg		110	70 - 130	2	30
trans-1,2-Dichloroethene			1.00	1.112		mg/Kg		111	70 - 130	2	30
1,2-Dichloropropane			1.00	1.089		mg/Kg		109	70 - 130	2	30
1,3-Dichloropropane			1.00	1.118		mg/Kg		112	70 - 130	1	30
2,2-Dichloropropane			1.00	1.094		mg/Kg		109	70 - 130	0	30
1,1-Dichloropropene			1.00	1.148		mg/Kg		115	70 - 130	0	30
cis-1,3-Dichloropropene			1.00	1.154		mg/Kg		115	70 - 130	2	30
trans-1,3-Dichloropropene			1.00	1.211		mg/Kg		121	70 - 130	2	30
Ethylbenzene			1.00	1.036		mg/Kg		104	70 - 130	3	30
Hexachlorobutadiene			1.00	0.9825		mg/Kg		98	70 - 130	2	30
2-Hexanone (MBK)			1.00	1.089		mg/Kg		109	70 - 130	1	30
Isopropylbenzene			1.00	1.114		mg/Kg		111	70 - 130	1	30
4-Isopropyltoluene			1.00	0.9505		mg/Kg		95	70 - 130	3	30
Methyl tert-butyl ether			1.00	1.174		mg/Kg		117	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)			1.00	1.132		mg/Kg		113	70 - 130	1	30
Methylene Chloride			1.00	1.061		mg/Kg		106	70 - 130	1	30
Naphthalene			1.00	0.8998		mg/Kg		90	70 - 130	1	30
N-Propylbenzene			1.00	1.099		mg/Kg		110	70 - 130	2	30
Styrene			1.00	0.9803		mg/Kg		98	70 - 130	1	30
1,1,1,2-Tetrachloroethane			1.00	1.019		mg/Kg		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane			1.00	0.9997		mg/Kg		100	70 - 130	1	30
Tetrachloroethene			1.00	1.123		mg/Kg		112	70 - 130	1	30
Toluene			1.00	1.072		mg/Kg		107	70 - 130	2	30
1,2,3-Trichlorobenzene			1.00	1.075		mg/Kg		107	70 - 130	2	30
1,2,4-Trichlorobenzene			1.00	1.143		mg/Kg		114	70 - 130	2	30
1,3,5-Trichlorobenzene			1.00	1.124		mg/Kg		112	70 - 130	0	30
1,1,1-Trichloroethane			1.00	1.068		mg/Kg		107	70 - 130	1	30
1,1,2-Trichloroethane			1.00	1.086		mg/Kg		109	70 - 130	1	30
Trichloroethene			1.00	1.071		mg/Kg		107	70 - 130	1	30
Trichlorofluoromethane (Freon 11)			1.00	1.018		mg/Kg		102	70 - 130	0	30
1,2,3-Trichloropropane			1.00	0.9837		mg/Kg		98	70 - 130	3	30
1,2,4-Trimethylbenzene			1.00	0.9967		mg/Kg		100	70 - 130	2	30
1,3,5-Trimethylbenzene			1.00	0.9903		mg/Kg		99	70 - 130	2	30
Vinyl chloride			1.00	0.8813		mg/Kg		88	70 - 130	2	30
m,p-Xylene			1.00	1.109		mg/Kg		111	70 - 130	2	30
o-Xylene			1.00	1.127		mg/Kg		113	70 - 130	1	30
Tetrahydrofuran			1.00	0.9482		mg/Kg		95	70 - 130	1	30
Ethyl ether			1.00	1.112		mg/Kg		111	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tert-amyl methyl ether			1.00	1.145		mg/Kg		114	70 - 130	2	30
Ethyl tert-butyl ether			1.00	1.173		mg/Kg		117	70 - 130	3	30
di-Isopropyl ether			1.00	1.156		mg/Kg		116	70 - 130	3	30
tert-Butanol			10.0	12.41		mg/Kg		124	70 - 130	1	30
1,4-Dioxane			10.0	12.68		mg/Kg		127	70 - 130	1	30
trans-1,4-Dichloro-2-butene			1.00	1.136		mg/Kg		114	70 - 130	1	30
Ethanol			20.0	19.71		mg/Kg		99	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: 620-10080-7 MS
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.15	1.063		mg/Kg	☼	93	70 - 130		
Acetone	0.516	J F1	1.15	1.065	F1	mg/Kg	☼	48	70 - 130		
Acrylonitrile	ND		1.15	1.120		mg/Kg	☼	98	70 - 130		
Benzene	ND		1.15	1.176		mg/Kg	☼	102	70 - 130		
Bromobenzene	ND		1.15	1.048		mg/Kg	☼	91	70 - 130		
Bromochloromethane	ND		1.15	1.167		mg/Kg	☼	102	70 - 130		
Bromodichloromethane	ND		1.15	1.178		mg/Kg	☼	103	70 - 130		
Bromoform	ND		1.15	1.056		mg/Kg	☼	92	70 - 130		
Bromomethane	ND	F1	1.15	0.6637	F1	mg/Kg	☼	58	70 - 130		
2-Butanone (MEK)	0.0894	J	1.15	1.208		mg/Kg	☼	97	70 - 130		
n-Butylbenzene	ND		1.15	1.160		mg/Kg	☼	101	70 - 130		
sec-Butylbenzene	ND		1.15	1.171		mg/Kg	☼	102	70 - 130		
tert-Butylbenzene	ND		1.15	1.162		mg/Kg	☼	101	70 - 130		
Carbon disulfide	ND		1.15	0.9955		mg/Kg	☼	87	70 - 130		
Carbon tetrachloride	ND		1.15	1.087		mg/Kg	☼	95	70 - 130		
Chlorobenzene	ND		1.15	1.115		mg/Kg	☼	97	70 - 130		
Chloroethane	ND	F1	1.15	0.2267	F1	mg/Kg	☼	20	70 - 130		
Chloroform	ND		1.15	1.080		mg/Kg	☼	94	70 - 130		
Chloromethane	ND		1.15	1.100		mg/Kg	☼	96	70 - 130		
2-Chlorotoluene	ND		1.15	1.149		mg/Kg	☼	100	70 - 130		
4-Chlorotoluene	ND		1.15	1.140		mg/Kg	☼	99	70 - 130		
1,2-Dibromo-3-Chloropropane	ND		1.15	0.8341		mg/Kg	☼	73	70 - 130		
Dibromochloromethane	ND		1.15	1.157		mg/Kg	☼	101	70 - 130		
1,2-Dibromoethane (EDB)	ND		1.15	1.177		mg/Kg	☼	103	70 - 130		
Dibromomethane	ND		1.15	1.149		mg/Kg	☼	100	70 - 130		
1,2-Dichlorobenzene	ND		1.15	1.134		mg/Kg	☼	99	70 - 130		
1,3-Dichlorobenzene	ND		1.15	1.125		mg/Kg	☼	98	70 - 130		
1,4-Dichlorobenzene	ND		1.15	1.010		mg/Kg	☼	88	70 - 130		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-7 MS
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane (Freon 12)	ND	F1	1.15	0.7826	F1	mg/Kg	☼	68	70 - 130
1,1-Dichloroethane	ND		1.15	1.186		mg/Kg	☼	103	70 - 130
1,2-Dichloroethane	ND		1.15	1.085		mg/Kg	☼	95	70 - 130
1,1-Dichloroethene	ND		1.15	1.192		mg/Kg	☼	104	70 - 130
cis-1,2-Dichloroethene	ND		1.15	1.234		mg/Kg	☼	107	70 - 130
trans-1,2-Dichloroethene	ND		1.15	1.258		mg/Kg	☼	110	70 - 130
1,2-Dichloropropane	ND		1.15	1.255		mg/Kg	☼	109	70 - 130
1,3-Dichloropropane	ND		1.15	1.108		mg/Kg	☼	97	70 - 130
2,2-Dichloropropane	ND		1.15	1.123		mg/Kg	☼	98	70 - 130
1,1-Dichloropropene	ND		1.15	1.106		mg/Kg	☼	96	70 - 130
cis-1,3-Dichloropropene	ND		1.15	1.193		mg/Kg	☼	104	70 - 130
trans-1,3-Dichloropropene	ND		1.15	1.213		mg/Kg	☼	106	70 - 130
Ethylbenzene	ND		1.15	1.121		mg/Kg	☼	98	70 - 130
Hexachlorobutadiene	ND		1.15	1.098		mg/Kg	☼	96	70 - 130
2-Hexanone (MBK)	ND		1.15	1.003		mg/Kg	☼	87	70 - 130
Isopropylbenzene	ND		1.15	1.157		mg/Kg	☼	101	70 - 130
4-Isopropyltoluene	ND		1.15	1.010		mg/Kg	☼	88	70 - 130
Methyl tert-butyl ether	ND		1.15	1.150		mg/Kg	☼	100	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		1.15	1.034		mg/Kg	☼	90	70 - 130
Methylene Chloride	ND		1.15	1.100		mg/Kg	☼	96	70 - 130
Naphthalene	ND		1.15	0.8918		mg/Kg	☼	78	70 - 130
N-Propylbenzene	ND		1.15	1.158		mg/Kg	☼	101	70 - 130
Styrene	ND		1.15	1.041		mg/Kg	☼	91	70 - 130
1,1,1,2-Tetrachloroethane	ND		1.15	1.035		mg/Kg	☼	90	70 - 130
1,1,2,2-Tetrachloroethane	ND		1.15	1.025		mg/Kg	☼	89	70 - 130
Tetrachloroethene	ND		1.15	1.188		mg/Kg	☼	104	70 - 130
Toluene	ND		1.15	1.146		mg/Kg	☼	100	70 - 130
1,2,3-Trichlorobenzene	ND		1.15	1.062		mg/Kg	☼	93	70 - 130
1,2,4-Trichlorobenzene	ND		1.15	1.223		mg/Kg	☼	107	70 - 130
1,3,5-Trichlorobenzene	ND		1.15	1.251		mg/Kg	☼	109	70 - 130
1,1,1-Trichloroethane	ND		1.15	1.112		mg/Kg	☼	97	70 - 130
1,1,2-Trichloroethane	ND		1.15	1.196		mg/Kg	☼	104	70 - 130
Trichloroethene	ND		1.15	1.033		mg/Kg	☼	90	70 - 130
Trichlorofluoromethane (Freon 11)	ND	F1	1.15	0.2710	F1	mg/Kg	☼	24	70 - 130
1,2,3-Trichloropropane	ND		1.15	0.9080		mg/Kg	☼	79	70 - 130
1,2,4-Trimethylbenzene	ND		1.15	1.050		mg/Kg	☼	91	70 - 130
1,3,5-Trimethylbenzene	ND		1.15	1.040		mg/Kg	☼	91	70 - 130
Vinyl chloride	ND		1.15	0.8669		mg/Kg	☼	76	70 - 130
m,p-Xylene	ND		2.30	2.527		mg/Kg	☼	110	70 - 130
o-Xylene	ND		1.15	1.244		mg/Kg	☼	108	70 - 130
Tetrahydrofuran	ND		1.15	1.019		mg/Kg	☼	89	70 - 130
Ethyl ether	ND		1.15	1.074		mg/Kg	☼	94	70 - 130
Tert-amyl methyl ether	ND		1.15	1.159		mg/Kg	☼	101	70 - 130
Ethyl tert-butyl ether	ND		1.15	1.184		mg/Kg	☼	103	70 - 130
di-Isopropyl ether	ND		1.15	1.160		mg/Kg	☼	101	70 - 130
tert-Butanol	ND		11.5	9.713		mg/Kg	☼	85	70 - 130
1,4-Dioxane	ND		11.5	11.25		mg/Kg	☼	98	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-7 MS
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,4-Dichloro-2-butene	ND		1.15	1.154		mg/Kg	☼	101	70 - 130
Ethanol	ND	F1	23.0	14.35	F1	mg/Kg	☼	63	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.25	1.191		mg/Kg	☼	96	70 - 130	11	30
Acetone	0.516	J F1	1.25	1.326	F1	mg/Kg	☼	65	70 - 130	22	30
Acrylonitrile	ND		1.25	1.221		mg/Kg	☼	98	70 - 130	9	30
Benzene	ND		1.25	1.272		mg/Kg	☼	102	70 - 130	8	30
Bromobenzene	ND		1.25	1.127		mg/Kg	☼	91	70 - 130	7	30
Bromochloromethane	ND		1.25	1.271		mg/Kg	☼	102	70 - 130	9	30
Bromodichloromethane	ND		1.25	1.274		mg/Kg	☼	102	70 - 130	8	30
Bromoform	ND		1.25	1.145		mg/Kg	☼	92	70 - 130	8	30
Bromomethane	ND	F1	1.25	0.7363	F1	mg/Kg	☼	59	70 - 130	10	30
2-Butanone (MEK)	0.0894	J	1.25	1.326		mg/Kg	☼	99	70 - 130	9	30
n-Butylbenzene	ND		1.25	1.249		mg/Kg	☼	100	70 - 130	7	30
sec-Butylbenzene	ND		1.25	1.275		mg/Kg	☼	102	70 - 130	8	30
tert-Butylbenzene	ND		1.25	1.268		mg/Kg	☼	102	70 - 130	9	30
Carbon disulfide	ND		1.25	1.096		mg/Kg	☼	88	70 - 130	10	30
Carbon tetrachloride	ND		1.25	1.184		mg/Kg	☼	95	70 - 130	9	30
Chlorobenzene	ND		1.25	1.198		mg/Kg	☼	96	70 - 130	7	30
Chloroethane	ND	F1	1.25	0.2629	F1	mg/Kg	☼	21	70 - 130	15	30
Chloroform	ND		1.25	1.160		mg/Kg	☼	93	70 - 130	7	30
Chloromethane	ND		1.25	1.207		mg/Kg	☼	97	70 - 130	9	30
2-Chlorotoluene	ND		1.25	1.221		mg/Kg	☼	98	70 - 130	6	30
4-Chlorotoluene	ND		1.25	1.225		mg/Kg	☼	98	70 - 130	7	30
1,2-Dibromo-3-Chloropropane	ND		1.25	0.9208		mg/Kg	☼	74	70 - 130	10	30
Dibromochloromethane	ND		1.25	1.254		mg/Kg	☼	101	70 - 130	8	30
1,2-Dibromoethane (EDB)	ND		1.25	1.287		mg/Kg	☼	103	70 - 130	9	30
Dibromomethane	ND		1.25	1.229		mg/Kg	☼	99	70 - 130	7	30
1,2-Dichlorobenzene	ND		1.25	1.216		mg/Kg	☼	98	70 - 130	7	30
1,3-Dichlorobenzene	ND		1.25	1.222		mg/Kg	☼	98	70 - 130	8	30
1,4-Dichlorobenzene	ND		1.25	1.066		mg/Kg	☼	86	70 - 130	5	30
Dichlorodifluoromethane (Freon 12)	ND	F1	1.25	0.8533	F1	mg/Kg	☼	68	70 - 130	9	30
1,1-Dichloroethane	ND		1.25	1.285		mg/Kg	☼	103	70 - 130	8	30
1,2-Dichloroethane	ND		1.25	1.158		mg/Kg	☼	93	70 - 130	6	30
1,1-Dichloroethene	ND		1.25	1.309		mg/Kg	☼	105	70 - 130	9	30
cis-1,2-Dichloroethene	ND		1.25	1.334		mg/Kg	☼	107	70 - 130	8	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	ND		1.25	1.359		mg/Kg	☼	109	70 - 130	8	30
1,2-Dichloropropane	ND		1.25	1.340		mg/Kg	☼	108	70 - 130	7	30
1,3-Dichloropropane	ND		1.25	1.198		mg/Kg	☼	96	70 - 130	8	30
2,2-Dichloropropane	ND		1.25	1.227		mg/Kg	☼	98	70 - 130	9	30
1,1-Dichloropropene	ND		1.25	1.217		mg/Kg	☼	98	70 - 130	10	30
cis-1,3-Dichloropropene	ND		1.25	1.298		mg/Kg	☼	104	70 - 130	8	30
trans-1,3-Dichloropropene	ND		1.25	1.311		mg/Kg	☼	105	70 - 130	8	30
Ethylbenzene	ND		1.25	1.216		mg/Kg	☼	98	70 - 130	8	30
Hexachlorobutadiene	ND		1.25	1.234		mg/Kg	☼	99	70 - 130	12	30
2-Hexanone (MBK)	ND		1.25	1.174		mg/Kg	☼	94	70 - 130	16	30
Isopropylbenzene	ND		1.25	1.255		mg/Kg	☼	101	70 - 130	8	30
4-Isopropyltoluene	ND		1.25	1.066		mg/Kg	☼	86	70 - 130	5	30
Methyl tert-butyl ether	ND		1.25	1.263		mg/Kg	☼	101	70 - 130	9	30
4-Methyl-2-pentanone (MIBK)	ND		1.25	1.147		mg/Kg	☼	92	70 - 130	10	30
Methylene Chloride	ND		1.25	1.188		mg/Kg	☼	95	70 - 130	8	30
Naphthalene	ND		1.25	0.9939		mg/Kg	☼	80	70 - 130	11	30
N-Propylbenzene	ND		1.25	1.250		mg/Kg	☼	100	70 - 130	8	30
Styrene	ND		1.25	1.111		mg/Kg	☼	89	70 - 130	7	30
1,1,1,2-Tetrachloroethane	ND		1.25	1.123		mg/Kg	☼	90	70 - 130	8	30
1,1,2,2-Tetrachloroethane	ND		1.25	1.126		mg/Kg	☼	90	70 - 130	9	30
Tetrachloroethene	ND		1.25	1.304		mg/Kg	☼	105	70 - 130	9	30
Toluene	ND		1.25	1.235		mg/Kg	☼	99	70 - 130	7	30
1,2,3-Trichlorobenzene	ND		1.25	1.154		mg/Kg	☼	93	70 - 130	8	30
1,2,4-Trichlorobenzene	ND		1.25	1.343		mg/Kg	☼	108	70 - 130	9	30
1,3,5-Trichlorobenzene	ND		1.25	1.327		mg/Kg	☼	107	70 - 130	6	30
1,1,1-Trichloroethane	ND		1.25	1.208		mg/Kg	☼	97	70 - 130	8	30
1,1,2-Trichloroethane	ND		1.25	1.290		mg/Kg	☼	104	70 - 130	8	30
Trichloroethene	ND		1.25	1.144		mg/Kg	☼	92	70 - 130	10	30
Trichlorofluoromethane (Freon 11)	ND	F1	1.25	0.3240	F1	mg/Kg	☼	26	70 - 130	18	30
1,2,3-Trichloropropane	ND		1.25	1.008		mg/Kg	☼	81	70 - 130	10	30
1,2,4-Trimethylbenzene	ND		1.25	1.129		mg/Kg	☼	91	70 - 130	7	30
1,3,5-Trimethylbenzene	ND		1.25	1.124		mg/Kg	☼	90	70 - 130	8	30
Vinyl chloride	ND		1.25	0.9538		mg/Kg	☼	77	70 - 130	10	30
m,p-Xylene	ND		2.49	2.744		mg/Kg	☼	110	70 - 130	8	30
o-Xylene	ND		1.25	1.342		mg/Kg	☼	108	70 - 130	8	30
Tetrahydrofuran	ND		1.25	1.067		mg/Kg	☼	86	70 - 130	5	30
Ethyl ether	ND		1.25	1.140		mg/Kg	☼	92	70 - 130	6	30
Tert-amyl methyl ether	ND		1.25	1.247		mg/Kg	☼	100	70 - 130	7	30
Ethyl tert-butyl ether	ND		1.25	1.285		mg/Kg	☼	103	70 - 130	8	30
di-Isopropyl ether	ND		1.25	1.260		mg/Kg	☼	101	70 - 130	8	30
tert-Butanol	ND		12.5	9.405		mg/Kg	☼	75	70 - 130	3	30
1,4-Dioxane	ND		12.5	12.16		mg/Kg	☼	98	70 - 130	8	30
trans-1,4-Dichloro-2-butene	ND		1.25	1.257		mg/Kg	☼	101	70 - 130	9	30
Ethanol	ND	F1	24.9	11.58	J F1	mg/Kg	☼	46	70 - 130	21	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20322

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acetone	0.02699	J	0.0500	0.0112	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01999		mg/Kg		100	70 - 130
Acetone	0.0200	0.01764	J	mg/Kg		88	70 - 130
Acrylonitrile	0.0200	0.01974		mg/Kg		99	70 - 130
Benzene	0.0200	0.02049		mg/Kg		102	70 - 130
Bromobenzene	0.0200	0.01990		mg/Kg		100	70 - 130
Bromochloromethane	0.0200	0.02008		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.01974		mg/Kg		99	70 - 130
Bromoform	0.0200	0.02004		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02232		mg/Kg		112	70 - 130
2-Butanone (MEK)	0.0200	0.01883		mg/Kg		94	70 - 130
n-Butylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
sec-Butylbenzene	0.0200	0.02100		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0200	0.01988		mg/Kg		99	70 - 130
Carbon disulfide	0.0200	0.02084		mg/Kg		104	70 - 130
Carbon tetrachloride	0.0200	0.01948		mg/Kg		97	70 - 130
Chlorobenzene	0.0200	0.02049		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.02218		mg/Kg		111	70 - 130
Chloroform	0.0200	0.02035		mg/Kg		102	70 - 130
Chloromethane	0.0200	0.01937		mg/Kg		97	70 - 130
2-Chlorotoluene	0.0200	0.02091		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02002		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.01989		mg/Kg		99	70 - 130
1,2-Dichlorobenzene	0.0200	0.02019		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02098		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02058		mg/Kg		103	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01662		mg/Kg		83	70 - 130
1,1-Dichloroethane	0.0200	0.01992		mg/Kg		100	70 - 130
1,2-Dichloroethane	0.0200	0.01955		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01916		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01938		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.01916		mg/Kg		96	70 - 130
1,3-Dichloropropane	0.0200	0.02057		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01874		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01903		mg/Kg		95	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01846		mg/Kg		92	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01971		mg/Kg		99	70 - 130
Ethylbenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Hexachlorobutadiene	0.0200	0.01850		mg/Kg		93	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
4-Isopropyltoluene	0.0200	0.01938		mg/Kg		97	70 - 130
Methyl tert-butyl ether	0.0200	0.01825		mg/Kg		91	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01719		mg/Kg		86	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130
Naphthalene	0.0200	0.02003		mg/Kg		100	70 - 130
N-Propylbenzene	0.0200	0.02091		mg/Kg		105	70 - 130
Styrene	0.0200	0.02054		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02172		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01869		mg/Kg		93	70 - 130
Toluene	0.0200	0.02058		mg/Kg		103	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01954		mg/Kg		98	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01966		mg/Kg		98	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01991		mg/Kg		100	70 - 130
1,1,1-Trichloroethane	0.0200	0.01933		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0200	0.02138		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02068		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01910		mg/Kg		95	70 - 130
1,2,3-Trichloropropane	0.0200	0.02101		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02072		mg/Kg		104	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02044		mg/Kg		102	70 - 130
Vinyl chloride	0.0200	0.01947		mg/Kg		97	70 - 130
m,p-Xylene	0.0200	0.01982		mg/Kg		99	70 - 130
o-Xylene	0.0200	0.01928		mg/Kg		96	70 - 130
Tetrahydrofuran	0.0200	0.01673		mg/Kg		84	70 - 130
Ethyl ether	0.0200	0.01904		mg/Kg		95	70 - 130
Tert-amyl methyl ether	0.0200	0.01763		mg/Kg		88	70 - 130
Ethyl tert-butyl ether	0.0200	0.01748		mg/Kg		87	70 - 130
di-Isopropyl ether	0.0200	0.01755		mg/Kg		88	70 - 130
tert-Butanol	0.200	0.1754		mg/Kg		88	70 - 130
1,4-Dioxane	0.200	0.1699		mg/Kg		85	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02037	J	mg/Kg		102	70 - 130
Ethanol	0.400	0.4083	J	mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
Acetone	0.0200	0.02125	J	mg/Kg		106	70 - 130	19	30
Acrylonitrile	0.0200	0.02073		mg/Kg		104	70 - 130	5	30
Benzene	0.0200	0.02034		mg/Kg		102	70 - 130	1	30
Bromobenzene	0.0200	0.01934		mg/Kg		97	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane			0.0200	0.02001		mg/Kg		100	70 - 130	0	30
Bromodichloromethane			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Bromoform			0.0200	0.01998		mg/Kg		100	70 - 130	0	30
Bromomethane			0.0200	0.02216		mg/Kg		111	70 - 130	1	30
2-Butanone (MEK)			0.0200	0.02057		mg/Kg		103	70 - 130	9	30
n-Butylbenzene			0.0200	0.01974		mg/Kg		99	70 - 130	0	30
sec-Butylbenzene			0.0200	0.02023		mg/Kg		101	70 - 130	4	30
tert-Butylbenzene			0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Carbon disulfide			0.0200	0.02062		mg/Kg		103	70 - 130	1	30
Carbon tetrachloride			0.0200	0.01930		mg/Kg		96	70 - 130	1	30
Chlorobenzene			0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Chloroethane			0.0200	0.02316		mg/Kg		116	70 - 130	4	30
Chloroform			0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloromethane			0.0200	0.01938		mg/Kg		97	70 - 130	0	30
2-Chlorotoluene			0.0200	0.01922		mg/Kg		96	70 - 130	8	30
4-Chlorotoluene			0.0200	0.02018		mg/Kg		101	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Dibromochloromethane			0.0200	0.02003		mg/Kg		100	70 - 130	0	30
1,2-Dibromoethane (EDB)			0.0200	0.02050		mg/Kg		103	70 - 130	2	30
Dibromomethane			0.0200	0.02024		mg/Kg		101	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02011		mg/Kg		101	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.02043		mg/Kg		102	70 - 130	3	30
1,4-Dichlorobenzene			0.0200	0.01993		mg/Kg		100	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01643		mg/Kg		82	70 - 130	1	30
1,1-Dichloroethane			0.0200	0.01996		mg/Kg		100	70 - 130	0	30
1,2-Dichloroethane			0.0200	0.01943		mg/Kg		97	70 - 130	1	30
1,1-Dichloroethene			0.0200	0.01925		mg/Kg		96	70 - 130	0	30
cis-1,2-Dichloroethene			0.0200	0.01915		mg/Kg		96	70 - 130	1	30
trans-1,2-Dichloroethene			0.0200	0.01933		mg/Kg		97	70 - 130	0	30
1,2-Dichloropropane			0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3-Dichloropropane			0.0200	0.02026		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane			0.0200	0.01859		mg/Kg		93	70 - 130	1	30
1,1-Dichloropropene			0.0200	0.01904		mg/Kg		95	70 - 130	0	30
cis-1,3-Dichloropropene			0.0200	0.01863		mg/Kg		93	70 - 130	1	30
trans-1,3-Dichloropropene			0.0200	0.02004		mg/Kg		100	70 - 130	2	30
Ethylbenzene			0.0200	0.01993		mg/Kg		100	70 - 130	4	30
Hexachlorobutadiene			0.0200	0.01892		mg/Kg		95	70 - 130	2	30
2-Hexanone (MBK)			0.0200	0.01777		mg/Kg		89	70 - 130	8	30
Isopropylbenzene			0.0200	0.01954		mg/Kg		98	70 - 130	1	30
4-Isopropyltoluene			0.0200	0.01909		mg/Kg		95	70 - 130	2	30
Methyl tert-butyl ether			0.0200	0.01870		mg/Kg		93	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.01816		mg/Kg		91	70 - 130	6	30
Methylene Chloride			0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Naphthalene			0.0200	0.02173		mg/Kg		109	70 - 130	8	30
N-Propylbenzene			0.0200	0.02026		mg/Kg		101	70 - 130	3	30
Styrene			0.0200	0.02016		mg/Kg		101	70 - 130	2	30
1,1,1,2-Tetrachloroethane			0.0200	0.01989		mg/Kg		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane			0.0200	0.02216		mg/Kg		111	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene			0.0200	0.01808		mg/Kg		90	70 - 130	3	30
Toluene			0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,2,3-Trichlorobenzene			0.0200	0.02039		mg/Kg		102	70 - 130	4	30
1,2,4-Trichlorobenzene			0.0200	0.02030		mg/Kg		101	70 - 130	3	30
1,3,5-Trichlorobenzene			0.0200	0.02008		mg/Kg		100	70 - 130	1	30
1,1,1-Trichloroethane			0.0200	0.01923		mg/Kg		96	70 - 130	1	30
1,1,2-Trichloroethane			0.0200	0.02106		mg/Kg		105	70 - 130	1	30
Trichloroethene			0.0200	0.01959		mg/Kg		98	70 - 130	5	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01868		mg/Kg		93	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02133		mg/Kg		107	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02025		mg/Kg		101	70 - 130	2	30
1,3,5-Trimethylbenzene			0.0200	0.01990		mg/Kg		99	70 - 130	3	30
Vinyl chloride			0.0200	0.01934		mg/Kg		97	70 - 130	1	30
m,p-Xylene			0.0200	0.01933		mg/Kg		97	70 - 130	2	30
o-Xylene			0.0200	0.01913		mg/Kg		96	70 - 130	1	30
Tetrahydrofuran			0.0200	0.01835		mg/Kg		92	70 - 130	9	30
Ethyl ether			0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Tert-amyl methyl ether			0.0200	0.01803		mg/Kg		90	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01797		mg/Kg		90	70 - 130	3	30
di-Isopropyl ether			0.0200	0.01826		mg/Kg		91	70 - 130	4	30
tert-Butanol			0.200	0.1724		mg/Kg		86	70 - 130	2	30
1,4-Dioxane			0.200	0.1765		mg/Kg		88	70 - 130	4	30
trans-1,4-Dichloro-2-butene			0.0200	0.02041	J	mg/Kg		102	70 - 130	0	30
Ethanol			0.400	0.3934	J	mg/Kg		98	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Acetone	0.02060	J	0.0500	0.0112	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Methylene Chloride	0.003636	J	0.0100	0.00268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20360/3-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/08/23 10:32	03/08/23 15:39	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/08/23 10:32	03/08/23 15:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/08/23 10:32*	*03/08/23 15:39*	*1*

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02199		mg/Kg		110	70 - 130
Acetone	0.0200	0.01937	J	mg/Kg		97	70 - 130
Acrylonitrile	0.0200	0.01972		mg/Kg		99	70 - 130
Benzene	0.0200	0.02156		mg/Kg		108	70 - 130
Bromobenzene	0.0200	0.01982		mg/Kg		99	70 - 130
Bromochloromethane	0.0200	0.02105		mg/Kg		105	70 - 130
Bromodichloromethane	0.0200	0.02053		mg/Kg		103	70 - 130
Bromoform	0.0200	0.02002		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02461		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.01737		mg/Kg		87	70 - 130
n-Butylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0200	0.02140		mg/Kg		107	70 - 130
tert-Butylbenzene	0.0200	0.02108		mg/Kg		105	70 - 130
Carbon disulfide	0.0200	0.02248		mg/Kg		112	70 - 130
Carbon tetrachloride	0.0200	0.02046		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02054		mg/Kg		103	70 - 130
Chloroethane	0.0200	0.02482		mg/Kg		124	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	0.0200	0.02120		mg/Kg		106	70 - 130
Chloromethane	0.0200	0.02004		mg/Kg		100	70 - 130
2-Chlorotoluene	0.0200	0.02108		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02085		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01960		mg/Kg		98	70 - 130
Dibromochloromethane	0.0200	0.02081		mg/Kg		104	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02028		mg/Kg		101	70 - 130
Dibromomethane	0.0200	0.02089		mg/Kg		104	70 - 130
1,2-Dichlorobenzene	0.0200	0.02012		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02080		mg/Kg		104	70 - 130
1,4-Dichlorobenzene	0.0200	0.02095		mg/Kg		105	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01749		mg/Kg		87	70 - 130
1,1-Dichloroethane	0.0200	0.02097		mg/Kg		105	70 - 130
1,2-Dichloroethane	0.0200	0.02016		mg/Kg		101	70 - 130
1,1-Dichloroethene	0.0200	0.02167		mg/Kg		108	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02037		mg/Kg		102	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dichloropropane	0.0200	0.02060		mg/Kg		103	70 - 130
1,3-Dichloropropane	0.0200	0.02066		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01960		mg/Kg		98	70 - 130
1,1-Dichloropropene	0.0200	0.02003		mg/Kg		100	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01875		mg/Kg		94	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02041		mg/Kg		102	70 - 130
Ethylbenzene	0.0200	0.02094		mg/Kg		105	70 - 130
Hexachlorobutadiene	0.0200	0.02010		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01661		mg/Kg		83	70 - 130
Isopropylbenzene	0.0200	0.02009		mg/Kg		100	70 - 130
4-Isopropyltoluene	0.0200	0.02017		mg/Kg		101	70 - 130
Methyl tert-butyl ether	0.0200	0.01870		mg/Kg		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01744		mg/Kg		87	70 - 130
Methylene Chloride	0.0200	0.02164		mg/Kg		108	70 - 130
Naphthalene	0.0200	0.02025		mg/Kg		101	70 - 130
N-Propylbenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Styrene	0.0200	0.02065		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02070		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02177		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01956		mg/Kg		98	70 - 130
Toluene	0.0200	0.02141		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02066		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02041		mg/Kg		102	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02050		mg/Kg		102	70 - 130
1,1,1-Trichloroethane	0.0200	0.02041		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02206		mg/Kg		110	70 - 130
Trichloroethene	0.0200	0.02132		mg/Kg		107	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02027		mg/Kg		101	70 - 130
1,2,3-Trichloropropane	0.0200	0.02128		mg/Kg		106	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02076		mg/Kg		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20360/1-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,3,5-Trimethylbenzene			0.0200	0.02097		mg/Kg		105	70 - 130		
Vinyl chloride			0.0200	0.02063		mg/Kg		103	70 - 130		
m,p-Xylene			0.0200	0.02006		mg/Kg		100	70 - 130		
o-Xylene			0.0200	0.01932		mg/Kg		97	70 - 130		
Tetrahydrofuran			0.0200	0.01772		mg/Kg		89	70 - 130		
Ethyl ether			0.0200	0.02043		mg/Kg		102	70 - 130		
Tert-amyl methyl ether			0.0200	0.01794		mg/Kg		90	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01770		mg/Kg		88	70 - 130		
di-Isopropyl ether			0.0200	0.01848		mg/Kg		92	70 - 130		
tert-Butanol			0.200	0.1648		mg/Kg		82	70 - 130		
1,4-Dioxane			0.200	0.1786		mg/Kg		89	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02076	J	mg/Kg		104	70 - 130		
Ethanol			0.400	0.3842	J	mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.02089		mg/Kg		104	70 - 130	5	30
Acetone			0.0200	0.01744	J	mg/Kg		87	70 - 130	10	30
Acrylonitrile			0.0200	0.02036		mg/Kg		102	70 - 130	3	30
Benzene			0.0200	0.02117		mg/Kg		106	70 - 130	2	30
Bromobenzene			0.0200	0.01956		mg/Kg		98	70 - 130	1	30
Bromochloromethane			0.0200	0.02030		mg/Kg		102	70 - 130	4	30
Bromodichloromethane			0.0200	0.02077		mg/Kg		104	70 - 130	1	30
Bromoform			0.0200	0.02029		mg/Kg		101	70 - 130	1	30
Bromomethane			0.0200	0.02301		mg/Kg		115	70 - 130	7	30
2-Butanone (MEK)			0.0200	0.01880		mg/Kg		94	70 - 130	8	30
n-Butylbenzene			0.0200	0.02062		mg/Kg		103	70 - 130	1	30
sec-Butylbenzene			0.0200	0.02134		mg/Kg		107	70 - 130	0	30
tert-Butylbenzene			0.0200	0.02097		mg/Kg		105	70 - 130	1	30
Carbon disulfide			0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Carbon tetrachloride			0.0200	0.02055		mg/Kg		103	70 - 130	0	30
Chlorobenzene			0.0200	0.02064		mg/Kg		103	70 - 130	1	30
Chloroethane			0.0200	0.02387		mg/Kg		119	70 - 130	4	30
Chloroform			0.0200	0.02073		mg/Kg		104	70 - 130	2	30
Chloromethane			0.0200	0.01938		mg/Kg		97	70 - 130	3	30
2-Chlorotoluene			0.0200	0.02125		mg/Kg		106	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02081		mg/Kg		104	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02086		mg/Kg		104	70 - 130	6	30
Dibromochloromethane			0.0200	0.02025		mg/Kg		101	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	0.0200	0.02073		mg/Kg		104	70 - 130	2	30
Dibromomethane	0.0200	0.02136		mg/Kg		107	70 - 130	2	30
1,2-Dichlorobenzene	0.0200	0.02042		mg/Kg		102	70 - 130	2	30
1,3-Dichlorobenzene	0.0200	0.02087		mg/Kg		104	70 - 130	0	30
1,4-Dichlorobenzene	0.0200	0.02038		mg/Kg		102	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01708		mg/Kg		85	70 - 130	2	30
1,1-Dichloroethane	0.0200	0.02091		mg/Kg		105	70 - 130	0	30
1,2-Dichloroethane	0.0200	0.01993		mg/Kg		100	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.02078		mg/Kg		104	70 - 130	4	30
cis-1,2-Dichloroethene	0.0200	0.01995		mg/Kg		100	70 - 130	2	30
trans-1,2-Dichloroethene	0.0200	0.02028		mg/Kg		101	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02011		mg/Kg		101	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02080		mg/Kg		104	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01971		mg/Kg		99	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.02002		mg/Kg		100	70 - 130	0	30
cis-1,3-Dichloropropene	0.0200	0.01908		mg/Kg		95	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Ethylbenzene	0.0200	0.02088		mg/Kg		104	70 - 130	0	30
Hexachlorobutadiene	0.0200	0.01975		mg/Kg		99	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01748		mg/Kg		87	70 - 130	5	30
Isopropylbenzene	0.0200	0.02016		mg/Kg		101	70 - 130	0	30
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130	1	30
Methyl tert-butyl ether	0.0200	0.01852		mg/Kg		93	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01787		mg/Kg		89	70 - 130	2	30
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130	1	30
Naphthalene	0.0200	0.02120		mg/Kg		106	70 - 130	5	30
N-Propylbenzene	0.0200	0.02113		mg/Kg		106	70 - 130	1	30
Styrene	0.0200	0.02076		mg/Kg		104	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02045		mg/Kg		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02231		mg/Kg		112	70 - 130	2	30
Tetrachloroethene	0.0200	0.01951		mg/Kg		98	70 - 130	0	30
Toluene	0.0200	0.02118		mg/Kg		106	70 - 130	1	30
1,2,3-Trichlorobenzene	0.0200	0.02163		mg/Kg		108	70 - 130	5	30
1,2,4-Trichlorobenzene	0.0200	0.02076		mg/Kg		104	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0200	0.02063		mg/Kg		103	70 - 130	1	30
1,1,1-Trichloroethane	0.0200	0.02031		mg/Kg		102	70 - 130	0	30
1,1,2-Trichloroethane	0.0200	0.02130		mg/Kg		106	70 - 130	4	30
Trichloroethene	0.0200	0.02140		mg/Kg		107	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	0.0200	0.01972		mg/Kg		99	70 - 130	3	30
1,2,3-Trichloropropane	0.0200	0.02125		mg/Kg		106	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02079		mg/Kg		104	70 - 130	0	30
1,3,5-Trimethylbenzene	0.0200	0.02083		mg/Kg		104	70 - 130	1	30
Vinyl chloride	0.0200	0.02017		mg/Kg		101	70 - 130	2	30
m,p-Xylene	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
o-Xylene	0.0200	0.01955		mg/Kg		98	70 - 130	1	30
Tetrahydrofuran	0.0200	0.01674		mg/Kg		84	70 - 130	6	30
Ethyl ether	0.0200	0.02038		mg/Kg		102	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20360/2-A
Matrix: Solid
Analysis Batch: 20361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20360

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tert-amyl methyl ether			0.0200	0.01849		mg/Kg		92	70 - 130	3	30
Ethyl tert-butyl ether			0.0200	0.01797		mg/Kg		90	70 - 130	2	30
di-Isopropyl ether			0.0200	0.01870		mg/Kg		94	70 - 130	1	30
tert-Butanol			0.200	0.1734		mg/Kg		87	70 - 130	5	30
1,4-Dioxane			0.200	0.1667		mg/Kg		83	70 - 130	7	30
trans-1,4-Dichloro-2-butene			0.0200	0.02109	J	mg/Kg		105	70 - 130	2	30
Ethanol			0.400	0.3939	J	mg/Kg		98	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 620-20489/3-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0500	0.0274	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Acetone	ND		0.500	0.0630	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Acrylonitrile	ND		0.0500	0.0181	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Benzene	ND		0.0500	0.00800	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Bromobenzene	ND		0.0500	0.0113	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Bromochloromethane	ND		0.0500	0.00715	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Bromodichloromethane	ND		0.0500	0.0129	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Bromoform	ND		0.0500	0.0107	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Bromomethane	ND		0.100	0.0247	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
2-Butanone (MEK)	ND		0.100	0.0229	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
n-Butylbenzene	ND		0.0500	0.0200	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
sec-Butylbenzene	ND		0.0500	0.0154	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
tert-Butylbenzene	ND		0.0500	0.0204	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Carbon disulfide	ND		0.100	0.0185	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Carbon tetrachloride	ND		0.0500	0.0150	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Chlorobenzene	ND		0.0500	0.00605	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Chloroethane	ND		0.100	0.0223	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Chloroform	ND		0.0500	0.00590	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Chloromethane	ND		0.100	0.0595	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
2-Chlorotoluene	ND		0.0500	0.0124	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
4-Chlorotoluene	ND		0.0500	0.00905	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2-Dibromo-3-Chloropropane	ND		0.100	0.0198	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Dibromochloromethane	ND		0.0500	0.00790	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2-Dibromoethane (EDB)	ND		0.0500	0.0136	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Dibromomethane	ND		0.0500	0.00940	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2-Dichlorobenzene	ND		0.0500	0.00900	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,3-Dichlorobenzene	ND		0.0500	0.0125	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,4-Dichlorobenzene	ND		0.0500	0.00895	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Dichlorodifluoromethane (Freon 12)	ND		0.100	0.0655	mg/Kg		03/13/23 15:30	03/13/23 20:04	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20489/3-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.0500	0.0116	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2-Dichloroethane	ND		0.0500	0.0131	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,1-Dichloroethene	ND		0.0500	0.0128	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
cis-1,2-Dichloroethene	ND		0.0500	0.0167	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
trans-1,2-Dichloroethene	ND		0.0500	0.0114	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2-Dichloropropane	ND		0.0500	0.0174	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,3-Dichloropropane	ND		0.0500	0.0158	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
2,2-Dichloropropane	ND		0.0500	0.0132	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,1-Dichloropropene	ND		0.0500	0.0153	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
cis-1,3-Dichloropropene	ND		0.0500	0.0118	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
trans-1,3-Dichloropropene	ND		0.0500	0.0204	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Ethylbenzene	ND		0.0500	0.0105	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Hexachlorobutadiene	ND		0.0500	0.0160	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
2-Hexanone (MBK)	ND		0.100	0.0333	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Isopropylbenzene	ND		0.0500	0.0182	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
4-Isopropyltoluene	ND		0.0500	0.0139	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Methyl tert-butyl ether	ND		0.0500	0.0151	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
4-Methyl-2-pentanone (MIBK)	ND		0.100	0.0358	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Methylene Chloride	ND		0.100	0.0427	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Naphthalene	ND		0.0500	0.0145	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
N-Propylbenzene	ND		0.0500	0.0125	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Styrene	ND		0.0500	0.00660	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0121	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0159	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Tetrachloroethene	ND		0.0500	0.0158	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Toluene	ND		0.0500	0.00805	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2,3-Trichlorobenzene	ND		0.0500	0.0117	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2,4-Trichlorobenzene	ND		0.0500	0.00825	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,3,5-Trichlorobenzene	ND		0.0500	0.00790	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,1,1-Trichloroethane	ND		0.0500	0.0121	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,1,2-Trichloroethane	ND		0.0500	0.0155	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Trichloroethene	ND		0.0500	0.00855	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Trichlorofluoromethane (Freon 11)	ND		0.0500	0.0226	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2,3-Trichloropropane	ND		0.0500	0.0231	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,2,4-Trimethylbenzene	ND		0.0500	0.0127	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,3,5-Trimethylbenzene	ND		0.0500	0.0105	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Vinyl chloride	ND		0.0500	0.0246	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
m,p-Xylene	ND		0.0500	0.0294	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
o-Xylene	ND		0.0500	0.0154	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Tetrahydrofuran	ND		0.100	0.0366	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Ethyl ether	ND		0.0500	0.0136	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Tert-amyl methyl ether	ND		0.0500	0.0277	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Ethyl tert-butyl ether	ND		0.0500	0.0139	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
di-Isopropyl ether	ND		0.0500	0.0162	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
tert-Butanol	ND		1.00	0.710	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,4-Dioxane	ND		1.00	0.295	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
trans-1,4-Dichloro-2-butene	ND		0.250	0.0330	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
Ethanol	ND		10.0	0.860	mg/Kg		03/13/23 15:30	03/13/23 20:04	1
1,3-Dichloropropene, Total	ND		0.0500	0.0204	mg/Kg		03/13/23 15:30	03/13/23 20:04	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20489/3-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.150	0.150	mg/Kg		03/13/23 15:30	03/13/23 20:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/13/23 15:30*	*03/13/23 20:04*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/13/23 15:30*	*03/13/23 20:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/13/23 15:30*	*03/13/23 20:04*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/13/23 15:30*	*03/13/23 20:04*	*1*

Lab Sample ID: LCS 620-20489/1-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.00	0.9801		mg/Kg		98	70 - 130
Acetone	1.00	0.9456		mg/Kg		95	70 - 130
Acrylonitrile	1.00	0.9387		mg/Kg		94	70 - 130
Benzene	1.00	1.021		mg/Kg		102	70 - 130
Bromobenzene	1.00	1.004		mg/Kg		100	70 - 130
Bromochloromethane	1.00	0.9934		mg/Kg		99	70 - 130
Bromodichloromethane	1.00	0.9525		mg/Kg		95	70 - 130
Bromoform	1.00	1.011		mg/Kg		101	70 - 130
Bromomethane	1.00	1.019		mg/Kg		102	70 - 130
2-Butanone (MEK)	1.00	1.038		mg/Kg		104	70 - 130
n-Butylbenzene	1.00	1.024		mg/Kg		102	70 - 130
sec-Butylbenzene	1.00	0.9793		mg/Kg		98	70 - 130
tert-Butylbenzene	1.00	1.018		mg/Kg		102	70 - 130
Carbon disulfide	1.00	0.9609		mg/Kg		96	70 - 130
Carbon tetrachloride	1.00	0.9615		mg/Kg		96	70 - 130
Chlorobenzene	1.00	0.9518		mg/Kg		95	70 - 130
Chloroethane	1.00	1.014		mg/Kg		101	70 - 130
Chloroform	1.00	0.9423		mg/Kg		94	70 - 130
Chloromethane	1.00	0.9573		mg/Kg		96	70 - 130
2-Chlorotoluene	1.00	1.092		mg/Kg		109	70 - 130
4-Chlorotoluene	1.00	1.111		mg/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	1.00	0.9515		mg/Kg		95	70 - 130
Dibromochloromethane	1.00	0.9779		mg/Kg		98	70 - 130
1,2-Dibromoethane (EDB)	1.00	1.030		mg/Kg		103	70 - 130
Dibromomethane	1.00	0.9706		mg/Kg		97	70 - 130
1,2-Dichlorobenzene	1.00	1.062		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	1.00	1.056		mg/Kg		106	70 - 130
1,4-Dichlorobenzene	1.00	0.9404		mg/Kg		94	70 - 130
Dichlorodifluoromethane (Freon 12)	1.00	0.9859		mg/Kg		99	70 - 130
1,1-Dichloroethane	1.00	0.9740		mg/Kg		97	70 - 130
1,2-Dichloroethane	1.00	0.9682		mg/Kg		97	70 - 130
1,1-Dichloroethene	1.00	1.013		mg/Kg		101	70 - 130
cis-1,2-Dichloroethene	1.00	0.9891		mg/Kg		99	70 - 130
trans-1,2-Dichloroethene	1.00	1.012		mg/Kg		101	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20489/1-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	1.00	1.001		mg/Kg		100	70 - 130
1,3-Dichloropropane	1.00	1.023		mg/Kg		102	70 - 130
2,2-Dichloropropane	1.00	0.9847		mg/Kg		98	70 - 130
1,1-Dichloropropene	1.00	1.093		mg/Kg		109	70 - 130
cis-1,3-Dichloropropene	1.00	1.069		mg/Kg		107	70 - 130
trans-1,3-Dichloropropene	1.00	1.094		mg/Kg		109	70 - 130
Ethylbenzene	1.00	1.034		mg/Kg		103	70 - 130
Hexachlorobutadiene	1.00	1.067		mg/Kg		107	70 - 130
2-Hexanone (MBK)	1.00	0.9568		mg/Kg		96	70 - 130
Isopropylbenzene	1.00	1.016		mg/Kg		102	70 - 130
4-Isopropyltoluene	1.00	1.027		mg/Kg		103	70 - 130
Methyl tert-butyl ether	1.00	1.093		mg/Kg		109	70 - 130
4-Methyl-2-pentanone (MIBK)	1.00	1.034		mg/Kg		103	70 - 130
Methylene Chloride	1.00	0.9469		mg/Kg		95	70 - 130
Naphthalene	1.00	0.9813		mg/Kg		98	70 - 130
N-Propylbenzene	1.00	1.093		mg/Kg		109	70 - 130
Styrene	1.00	1.007		mg/Kg		101	70 - 130
1,1,1,2-Tetrachloroethane	1.00	0.9657		mg/Kg		97	70 - 130
1,1,2,2-Tetrachloroethane	1.00	0.9523		mg/Kg		95	70 - 130
Tetrachloroethene	1.00	1.021		mg/Kg		102	70 - 130
Toluene	1.00	0.9946		mg/Kg		99	70 - 130
1,2,3-Trichlorobenzene	1.00	1.024		mg/Kg		102	70 - 130
1,2,4-Trichlorobenzene	1.00	1.003		mg/Kg		100	70 - 130
1,3,5-Trichlorobenzene	1.00	1.108		mg/Kg		111	70 - 130
1,1,1-Trichloroethane	1.00	0.9793		mg/Kg		98	70 - 130
1,1,2-Trichloroethane	1.00	0.9724		mg/Kg		97	70 - 130
Trichloroethene	1.00	0.9680		mg/Kg		97	70 - 130
Trichlorofluoromethane (Freon 11)	1.00	0.9788		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	1.00	0.9451		mg/Kg		95	70 - 130
1,2,4-Trimethylbenzene	1.00	0.9827		mg/Kg		98	70 - 130
1,3,5-Trimethylbenzene	1.00	0.9884		mg/Kg		99	70 - 130
Vinyl chloride	1.00	0.9671		mg/Kg		97	70 - 130
m,p-Xylene	1.00	1.121		mg/Kg		112	70 - 130
o-Xylene	1.00	1.009		mg/Kg		101	70 - 130
Tetrahydrofuran	1.00	0.9827		mg/Kg		98	70 - 130
Ethyl ether	1.00	1.048		mg/Kg		105	70 - 130
Tert-amyl methyl ether	1.00	1.079		mg/Kg		108	70 - 130
Ethyl tert-butyl ether	1.00	0.9908		mg/Kg		99	70 - 130
di-Isopropyl ether	1.00	1.109		mg/Kg		111	70 - 130
tert-Butanol	10.0	10.36		mg/Kg		104	70 - 130
1,4-Dioxane	10.0	9.811		mg/Kg		98	70 - 130
trans-1,4-Dichloro-2-butene	1.00	0.8807		mg/Kg		88	70 - 130
Ethanol	20.0	15.25		mg/Kg		76	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20489/1-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20489

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20489/2-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20489

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			1.00	0.9859		mg/Kg		99	70 - 130	1	30
Acetone			1.00	0.8923		mg/Kg		89	70 - 130	6	30
Acrylonitrile			1.00	0.9454		mg/Kg		95	70 - 130	1	30
Benzene			1.00	1.029		mg/Kg		103	70 - 130	1	30
Bromobenzene			1.00	1.011		mg/Kg		101	70 - 130	1	30
Bromochloromethane			1.00	1.012		mg/Kg		101	70 - 130	2	30
Bromodichloromethane			1.00	0.9620		mg/Kg		96	70 - 130	1	30
Bromoform			1.00	0.9984		mg/Kg		100	70 - 130	1	30
Bromomethane			1.00	1.047		mg/Kg		105	70 - 130	3	30
2-Butanone (MEK)			1.00	0.9855		mg/Kg		99	70 - 130	5	30
n-Butylbenzene			1.00	1.022		mg/Kg		102	70 - 130	0	30
sec-Butylbenzene			1.00	0.9786		mg/Kg		98	70 - 130	0	30
tert-Butylbenzene			1.00	1.026		mg/Kg		103	70 - 130	1	30
Carbon disulfide			1.00	0.9560		mg/Kg		96	70 - 130	1	30
Carbon tetrachloride			1.00	0.9607		mg/Kg		96	70 - 130	0	30
Chlorobenzene			1.00	0.9535		mg/Kg		95	70 - 130	0	30
Chloroethane			1.00	1.017		mg/Kg		102	70 - 130	0	30
Chloroform			1.00	0.9555		mg/Kg		96	70 - 130	1	30
Chloromethane			1.00	0.9507		mg/Kg		95	70 - 130	1	30
2-Chlorotoluene			1.00	1.092		mg/Kg		109	70 - 130	0	30
4-Chlorotoluene			1.00	1.105		mg/Kg		110	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			1.00	0.9358		mg/Kg		94	70 - 130	2	30
Dibromochloromethane			1.00	0.9778		mg/Kg		98	70 - 130	0	30
1,2-Dibromoethane (EDB)			1.00	1.021		mg/Kg		102	70 - 130	1	30
Dibromomethane			1.00	0.9853		mg/Kg		99	70 - 130	2	30
1,2-Dichlorobenzene			1.00	1.065		mg/Kg		107	70 - 130	0	30
1,3-Dichlorobenzene			1.00	1.063		mg/Kg		106	70 - 130	1	30
1,4-Dichlorobenzene			1.00	0.9374		mg/Kg		94	70 - 130	0	30
Dichlorodifluoromethane (Freon 12)			1.00	0.9798		mg/Kg		98	70 - 130	1	30
1,1-Dichloroethane			1.00	0.9787		mg/Kg		98	70 - 130	0	30
1,2-Dichloroethane			1.00	0.9686		mg/Kg		97	70 - 130	0	30
1,1-Dichloroethene			1.00	1.015		mg/Kg		102	70 - 130	0	30
cis-1,2-Dichloroethene			1.00	1.001		mg/Kg		100	70 - 130	1	30
trans-1,2-Dichloroethene			1.00	1.024		mg/Kg		102	70 - 130	1	30
1,2-Dichloropropane			1.00	1.013		mg/Kg		101	70 - 130	1	30
1,3-Dichloropropane			1.00	1.030		mg/Kg		103	70 - 130	1	30
2,2-Dichloropropane			1.00	0.9807		mg/Kg		98	70 - 130	0	30
1,1-Dichloropropene			1.00	1.094		mg/Kg		109	70 - 130	0	30
cis-1,3-Dichloropropene			1.00	1.076		mg/Kg		108	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20489/2-A
Matrix: Solid
Analysis Batch: 20490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20489

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			1.00	1.115		mg/Kg		112	70 - 130	2	30
Ethylbenzene			1.00	1.031		mg/Kg		103	70 - 130	0	30
Hexachlorobutadiene			1.00	1.036		mg/Kg		104	70 - 130	3	30
2-Hexanone (MBK)			1.00	0.9200		mg/Kg		92	70 - 130	4	30
Isopropylbenzene			1.00	1.012		mg/Kg		101	70 - 130	0	30
4-Isopropyltoluene			1.00	1.045		mg/Kg		104	70 - 130	2	30
Methyl tert-butyl ether			1.00	1.085		mg/Kg		109	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)			1.00	1.010		mg/Kg		101	70 - 130	2	30
Methylene Chloride			1.00	0.9436		mg/Kg		94	70 - 130	0	30
Naphthalene			1.00	0.9455		mg/Kg		95	70 - 130	4	30
N-Propylbenzene			1.00	1.101		mg/Kg		110	70 - 130	1	30
Styrene			1.00	1.006		mg/Kg		101	70 - 130	0	30
1,1,1,2-Tetrachloroethane			1.00	0.9650		mg/Kg		96	70 - 130	0	30
1,1,2,2-Tetrachloroethane			1.00	0.9325		mg/Kg		93	70 - 130	2	30
Tetrachloroethene			1.00	1.024		mg/Kg		102	70 - 130	0	30
Toluene			1.00	1.002		mg/Kg		100	70 - 130	1	30
1,2,3-Trichlorobenzene			1.00	0.9728		mg/Kg		97	70 - 130	5	30
1,2,4-Trichlorobenzene			1.00	0.9799		mg/Kg		98	70 - 130	2	30
1,3,5-Trichlorobenzene			1.00	1.100		mg/Kg		110	70 - 130	1	30
1,1,1-Trichloroethane			1.00	0.9779		mg/Kg		98	70 - 130	0	30
1,1,2-Trichloroethane			1.00	0.9735		mg/Kg		97	70 - 130	0	30
Trichloroethene			1.00	0.9500		mg/Kg		95	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			1.00	0.9686		mg/Kg		97	70 - 130	1	30
1,2,3-Trichloropropane			1.00	0.9315		mg/Kg		93	70 - 130	1	30
1,2,4-Trimethylbenzene			1.00	0.9843		mg/Kg		98	70 - 130	0	30
1,3,5-Trimethylbenzene			1.00	0.9833		mg/Kg		98	70 - 130	1	30
Vinyl chloride			1.00	0.9615		mg/Kg		96	70 - 130	1	30
m,p-Xylene			1.00	1.143		mg/Kg		114	70 - 130	2	30
o-Xylene			1.00	1.017		mg/Kg		102	70 - 130	1	30
Tetrahydrofuran			1.00	0.9920		mg/Kg		99	70 - 130	1	30
Ethyl ether			1.00	1.034		mg/Kg		103	70 - 130	1	30
Tert-amyl methyl ether			1.00	1.087		mg/Kg		109	70 - 130	1	30
Ethyl tert-butyl ether			1.00	0.9925		mg/Kg		99	70 - 130	0	30
di-Isopropyl ether			1.00	1.098		mg/Kg		110	70 - 130	1	30
tert-Butanol			10.0	9.604		mg/Kg		96	70 - 130	8	30
1,4-Dioxane			10.0	9.266		mg/Kg		93	70 - 130	6	30
trans-1,4-Dichloro-2-butene			1.00	0.8652		mg/Kg		87	70 - 130	2	30
Ethanol			20.0	17.13		mg/Kg		86	70 - 130	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20445/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Aniline	ND		0.330	0.0253	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/10/23 11:19	03/13/23 19:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20445/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.167	0.0437	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Phenol	ND		0.330	0.0680	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/10/23 11:19	03/13/23 19:04	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/10/23 11:19	03/13/23 19:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/10/23 11:19*	*03/13/23 19:04*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/10/23 11:19*	*03/13/23 19:04*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/10/23 11:19*	*03/13/23 19:04*	*1*
Phenol-d5 (Surr)	*86*		*15 - 110*	*03/10/23 11:19*	*03/13/23 19:04*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*15 - 110*	*03/10/23 11:19*	*03/13/23 19:04*	*1*
Terphenyl-d14	*90*		*30 - 130*	*03/10/23 11:19*	*03/13/23 19:04*	*1*

Lab Sample ID: LCS 620-20445/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.101		mg/Kg		66	40 - 140
1,2,4-Trichlorobenzene	1.67	1.422		mg/Kg		85	40 - 140
1,2-Dichlorobenzene	1.67	1.286		mg/Kg		77	40 - 140
1,3-Dichlorobenzene	1.67	1.325		mg/Kg		80	40 - 140
1,4-Dichlorobenzene	1.67	1.294		mg/Kg		78	40 - 140
1-Methylnaphthalene	1.67	1.458		mg/Kg		87	40 - 140
2,4,5-Trichlorophenol	1.67	1.451		mg/Kg		87	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20445/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	1.67	1.514		mg/Kg		91	30 - 130
2,4-Dichlorophenol	1.67	1.396		mg/Kg		84	30 - 130
2,4-Dimethylphenol	1.67	1.343		mg/Kg		81	30 - 130
2,4-Dinitrophenol	1.67	1.949		mg/Kg		117	30 - 130
2,4-Dinitrotoluene	1.67	1.639		mg/Kg		98	40 - 140
2,6-Dinitrotoluene	1.67	1.554		mg/Kg		93	40 - 140
2-Chloronaphthalene	1.67	1.419		mg/Kg		85	40 - 140
2-Chlorophenol	1.67	1.384		mg/Kg		83	30 - 130
2-Methylnaphthalene	1.67	1.492		mg/Kg		89	40 - 140
2-Methylphenol	1.67	1.503		mg/Kg		90	30 - 130
2-Nitroaniline	1.67	1.537		mg/Kg		92	40 - 140
2-Nitrophenol	1.67	1.428		mg/Kg		86	30 - 130
3 & 4 Methylphenol	1.67	1.494		mg/Kg		90	30 - 130
3,3'-Dichlorobenzidine	1.67	2.206		mg/Kg		132	40 - 140
3-Nitroaniline	1.67	1.082		mg/Kg		65	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.394		mg/Kg		84	30 - 130
4-Bromophenyl phenyl ether	1.67	1.602		mg/Kg		96	40 - 140
4-Chloro-3-methylphenol	1.67	1.590		mg/Kg		95	30 - 130
4-Chloroaniline	1.67	0.8881		mg/Kg		53	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.473		mg/Kg		88	40 - 140
4-Nitroaniline	1.67	1.456		mg/Kg		87	40 - 140
4-Nitrophenol	1.67	1.358		mg/Kg		81	30 - 130
Acenaphthene	1.67	1.402		mg/Kg		84	40 - 140
Acenaphthylene	1.67	1.437		mg/Kg		86	40 - 140
Acetophenone	1.67	1.455		mg/Kg		87	40 - 140
Aniline	1.67	1.037		mg/Kg		62	40 - 140
Anthracene	1.67	1.837		mg/Kg		110	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.537		mg/Kg		92	40 - 140
Benzidine	1.67	0.7157		mg/Kg		43	40 - 140
Benzo[a]anthracene	1.67	1.777		mg/Kg		107	40 - 140
Benzo[a]pyrene	1.67	1.591		mg/Kg		95	40 - 140
Benzo[b]fluoranthene	1.67	1.585		mg/Kg		95	40 - 140
Benzo[g,h,i]perylene	1.67	1.648		mg/Kg		99	40 - 140
Benzo[k]fluoranthene	1.67	1.676		mg/Kg		101	40 - 140
Benzoic acid	1.67	0.6535		mg/Kg		39	30 - 130
Benzyl alcohol	1.67	1.266		mg/Kg		76	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.329		mg/Kg		80	40 - 140
Bis(2-chloroethyl)ether	1.67	1.317		mg/Kg		79	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.179		mg/Kg		71	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.844		mg/Kg		111	40 - 140
Butyl benzyl phthalate	1.67	1.696		mg/Kg		102	40 - 140
Carbazole	1.67	1.736		mg/Kg		104	40 - 140
Chrysene	1.67	1.726		mg/Kg		104	40 - 140
Dibenz(a,h)anthracene	1.67	1.498		mg/Kg		90	40 - 140
Dibenzofuran	1.67	1.572		mg/Kg		94	40 - 140
Diethyl phthalate	1.67	1.532		mg/Kg		92	40 - 140
Dimethyl phthalate	1.67	1.575		mg/Kg		94	40 - 140
Di-n-butyl phthalate	1.67	1.881		mg/Kg		113	40 - 140
Di-n-octyl phthalate	1.67	1.795		mg/Kg		108	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20445/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20445

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoranthene			1.67	1.829		mg/Kg		110	40 - 140		
Fluorene			1.67	1.409		mg/Kg		85	40 - 140		
Hexachlorobenzene			1.67	1.612		mg/Kg		97	40 - 140		
Hexachlorobutadiene			1.67	1.217		mg/Kg		73	40 - 140		
Hexachlorocyclopentadiene			1.67	1.493		mg/Kg		90	40 - 140		
Hexachloroethane			1.67	1.298		mg/Kg		78	40 - 140		
Indeno[1,2,3-cd]pyrene			1.67	1.479		mg/Kg		89	40 - 140		
Isophorone			1.67	1.146		mg/Kg		69	40 - 140		
Naphthalene			1.67	1.405		mg/Kg		84	40 - 140		
Nitrobenzene			1.67	1.416		mg/Kg		85	40 - 140		
N-Nitrosodimethylamine			1.67	1.134		mg/Kg		68	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.392		mg/Kg		84	40 - 140		
N-Nitrosodiphenylamine			1.67	1.649		mg/Kg		99	40 - 140		
Pentachloronitrobenzene			1.67	1.234		mg/Kg		74	40 - 140		
Pentachlorophenol			1.67	1.296		mg/Kg		78	30 - 130		
Phenanthrene			1.67	1.640		mg/Kg		98	40 - 140		
Phenol			1.67	1.445		mg/Kg		87	40 - 140		
Pyrene			1.67	1.798		mg/Kg		108	40 - 140		
Pyridine			1.67	0.9949		mg/Kg		60	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*
2-Fluorophenol (Surr)	*92*		*15 - 110*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*
Phenol-d5 (Surr)	*87*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*
Terphenyl-d14	*88*		*30 - 130*

Lab Sample ID: LCSD 620-20445/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20445

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.016		mg/Kg		61	40 - 140	8	30
1,2,4-Trichlorobenzene			1.67	1.301		mg/Kg		78	40 - 140	9	30
1,2-Dichlorobenzene			1.67	1.174		mg/Kg		70	40 - 140	9	30
1,3-Dichlorobenzene			1.67	1.228		mg/Kg		74	40 - 140	8	30
1,4-Dichlorobenzene			1.67	1.199		mg/Kg		72	40 - 140	8	30
1-Methylnaphthalene			1.67	1.351		mg/Kg		81	40 - 140	8	30
2,4,5-Trichlorophenol			1.67	1.347		mg/Kg		81	30 - 130	7	30
2,4,6-Trichlorophenol			1.67	1.410		mg/Kg		85	30 - 130	7	30
2,4-Dichlorophenol			1.67	1.251		mg/Kg		75	30 - 130	11	30
2,4-Dimethylphenol			1.67	1.241		mg/Kg		74	30 - 130	8	30
2,4-Dinitrophenol			1.67	1.759		mg/Kg		106	30 - 130	10	30
2,4-Dinitrotoluene			1.67	1.457		mg/Kg		87	40 - 140	12	30
2,6-Dinitrotoluene			1.67	1.409		mg/Kg		85	40 - 140	10	30
2-Chloronaphthalene			1.67	1.319		mg/Kg		79	40 - 140	7	30
2-Chlorophenol			1.67	1.265		mg/Kg		76	30 - 130	9	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20445/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20445

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene			1.67	1.353		mg/Kg		81	40 - 140	10	30
2-Methylphenol			1.67	1.365		mg/Kg		82	30 - 130	10	30
2-Nitroaniline			1.67	1.403		mg/Kg		84	40 - 140	9	30
2-Nitrophenol			1.67	1.319		mg/Kg		79	30 - 130	8	30
3 & 4 Methylphenol			1.67	1.376		mg/Kg		83	30 - 130	8	30
3,3'-Dichlorobenzidine			1.67	2.015		mg/Kg		121	40 - 140	9	30
3-Nitroaniline			1.67	0.9882		mg/Kg		59	40 - 140	9	30
4,6-Dinitro-2-methylphenol			1.67	1.267		mg/Kg		76	30 - 130	10	30
4-Bromophenyl phenyl ether			1.67	1.443		mg/Kg		87	40 - 140	10	30
4-Chloro-3-methylphenol			1.67	1.424		mg/Kg		85	30 - 130	11	30
4-Chloroaniline			1.67	0.8259		mg/Kg		50	40 - 140	7	30
4-Chlorophenyl phenyl ether			1.67	1.341		mg/Kg		80	40 - 140	9	30
4-Nitroaniline			1.67	1.346		mg/Kg		81	40 - 140	8	30
4-Nitrophenol			1.67	1.286		mg/Kg		77	30 - 130	5	30
Acenaphthene			1.67	1.278		mg/Kg		77	40 - 140	9	30
Acenaphthylene			1.67	1.290		mg/Kg		77	40 - 140	11	30
Acetophenone			1.67	1.320		mg/Kg		79	40 - 140	10	30
Aniline			1.67	0.9309		mg/Kg		56	40 - 140	11	30
Anthracene			1.67	1.662		mg/Kg		100	40 - 140	10	30
Azobenzene/Diphenyldiazene			1.67	1.399		mg/Kg		84	40 - 140	9	30
Benzidine			1.67	0.8458		mg/Kg		51	40 - 140	17	30
Benzo[a]anthracene			1.67	1.637		mg/Kg		98	40 - 140	8	30
Benzo[a]pyrene			1.67	1.463		mg/Kg		88	40 - 140	8	30
Benzo[b]fluoranthene			1.67	1.510		mg/Kg		91	40 - 140	5	30
Benzo[g,h,i]perylene			1.67	1.536		mg/Kg		92	40 - 140	7	30
Benzo[k]fluoranthene			1.67	1.469		mg/Kg		88	40 - 140	13	30
Benzoic acid			1.67	0.6682		mg/Kg		40	30 - 130	2	30
Benzyl alcohol			1.67	1.120		mg/Kg		67	40 - 140	12	30
Bis(2-chloroethoxy)methane			1.67	1.215		mg/Kg		73	40 - 140	9	30
Bis(2-chloroethyl)ether			1.67	1.196		mg/Kg		72	40 - 140	10	30
bis (2-chloroisopropyl) ether			1.67	1.113		mg/Kg		67	40 - 140	6	30
Bis(2-ethylhexyl) phthalate			1.67	1.678		mg/Kg		101	40 - 140	9	30
Butyl benzyl phthalate			1.67	1.598		mg/Kg		96	40 - 140	6	30
Carbazole			1.67	1.578		mg/Kg		95	40 - 140	10	30
Chrysene			1.67	1.598		mg/Kg		96	40 - 140	8	30
Dibenz(a,h)anthracene			1.67	1.415		mg/Kg		85	40 - 140	6	30
Dibenzofuran			1.67	1.437		mg/Kg		86	40 - 140	9	30
Diethyl phthalate			1.67	1.415		mg/Kg		85	40 - 140	8	30
Dimethyl phthalate			1.67	1.440		mg/Kg		86	40 - 140	9	30
Di-n-butyl phthalate			1.67	1.723		mg/Kg		103	40 - 140	9	30
Di-n-octyl phthalate			1.67	1.652		mg/Kg		99	40 - 140	8	30
Fluoranthene			1.67	1.645		mg/Kg		99	40 - 140	11	30
Fluorene			1.67	1.296		mg/Kg		78	40 - 140	8	30
Hexachlorobenzene			1.67	1.480		mg/Kg		89	40 - 140	9	30
Hexachlorobutadiene			1.67	1.109		mg/Kg		67	40 - 140	9	30
Hexachlorocyclopentadiene			1.67	1.379		mg/Kg		83	40 - 140	8	30
Hexachloroethane			1.67	1.203		mg/Kg		72	40 - 140	8	30
Indeno[1,2,3-cd]pyrene			1.67	1.377		mg/Kg		83	40 - 140	7	30
Isophorone			1.67	1.041		mg/Kg		62	40 - 140	10	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20445/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20445

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			1.67	1.286		mg/Kg		77	40 - 140	9	30
Nitrobenzene			1.67	1.306		mg/Kg		78	40 - 140	8	30
N-Nitrosodimethylamine			1.67	1.061		mg/Kg		64	40 - 140	7	30
N-Nitrosodi-n-propylamine			1.67	1.280		mg/Kg		77	40 - 140	8	30
N-Nitrosodiphenylamine			1.67	1.513		mg/Kg		91	40 - 140	9	30
Pentachloronitrobenzene			1.67	1.113		mg/Kg		67	40 - 140	10	30
Pentachlorophenol			1.67	1.257		mg/Kg		75	30 - 130	3	30
Phenanthrene			1.67	1.492		mg/Kg		90	40 - 140	9	30
Phenol			1.67	1.327		mg/Kg		80	40 - 140	8	30
Pyrene			1.67	1.676		mg/Kg		101	40 - 140	7	30
Pyridine			1.67	1.021		mg/Kg		61	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*
2-Fluorophenol (Surr)	*86*		*15 - 110*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*
Phenol-d5 (Surr)	*79*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*
Terphenyl-d14	*81*		*30 - 130*

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.83	1.338		mg/Kg	☼	73	40 - 140
1,2,4-Trichlorobenzene	ND		1.83	1.502		mg/Kg	☼	82	40 - 140
1,2-Dichlorobenzene	ND		1.83	1.386		mg/Kg	☼	76	40 - 140
1,3-Dichlorobenzene	ND		1.83	1.477		mg/Kg	☼	81	40 - 140
1,4-Dichlorobenzene	ND		1.83	1.420		mg/Kg	☼	78	40 - 140
1-Methylnaphthalene	0.158		1.83	1.825		mg/Kg	☼	91	40 - 140
2,4,5-Trichlorophenol	ND		1.83	1.847		mg/Kg	☼	101	30 - 130
2,4,6-Trichlorophenol	ND		1.83	1.861		mg/Kg	☼	102	30 - 130
2,4-Dichlorophenol	ND		1.83	1.617		mg/Kg	☼	88	30 - 130
2,4-Dimethylphenol	ND		1.83	1.409		mg/Kg	☼	77	30 - 130
2,4-Dinitrophenol	ND	F2 F1	1.83	14.61	E F1	mg/Kg	☼	798	30 - 130
2,4-Dinitrotoluene	ND		1.83	1.655		mg/Kg	☼	90	40 - 140
2,6-Dinitrotoluene	ND		1.83	1.672		mg/Kg	☼	91	40 - 140
2-Chloronaphthalene	ND		1.83	1.710		mg/Kg	☼	93	40 - 140
2-Chlorophenol	ND		1.83	1.513		mg/Kg	☼	83	30 - 130
2-Methylnaphthalene	0.256		1.83	1.828		mg/Kg	☼	86	40 - 140
2-Methylphenol	ND		1.83	1.631		mg/Kg	☼	89	30 - 130
2-Nitroaniline	ND		1.83	1.283		mg/Kg	☼	70	40 - 140
2-Nitrophenol	ND		1.83	1.583		mg/Kg	☼	86	30 - 130
3 & 4 Methylphenol	ND		1.83	1.560		mg/Kg	☼	85	30 - 130
3,3'-Dichlorobenzidine	ND	F1	1.83	ND	F1	mg/Kg	☼	0	40 - 140
3-Nitroaniline	ND	F1	1.83	ND	F1	mg/Kg	☼	0	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.83	1.437		mg/Kg	☼	78	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-1 MS
Client Sample ID: 2023-MW-07-0002'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 20495
Prep Batch: 20445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
4-Bromophenyl phenyl ether	ND		1.83	1.733		mg/Kg	☼	95	40 - 140
4-Chloro-3-methylphenol	ND		1.83	1.608		mg/Kg	☼	88	30 - 130
4-Chloroaniline	ND	F1	1.83	ND	F1	mg/Kg	☼	0	40 - 140
4-Chlorophenyl phenyl ether	ND		1.83	1.755		mg/Kg	☼	96	40 - 140
4-Nitroaniline	ND	F1	1.83	ND	F1	mg/Kg	☼	0	40 - 140
4-Nitrophenol	ND		1.83	1.480		mg/Kg	☼	81	30 - 130
Acenaphthene	ND		1.83	1.780		mg/Kg	☼	97	40 - 140
Acenaphthylene	0.613		1.83	2.250		mg/Kg	☼	89	40 - 140
Acetophenone	ND		1.83	1.669		mg/Kg	☼	91	40 - 140
Aniline	ND	F1	1.83	ND	F1	mg/Kg	☼	0	40 - 140
Anthracene	0.758	F1	1.83	2.768		mg/Kg	☼	110	40 - 140
Azobenzene/Diphenyldiazene	ND		1.83	1.573		mg/Kg	☼	86	40 - 140
Benzidine	0.666	J F1	1.83	ND	F1	mg/Kg	☼	0	40 - 140
Benzo[a]anthracene	2.78	F2 F1	1.83	4.803		mg/Kg	☼	110	40 - 140
Benzo[a]pyrene	1.67	F2 F1	1.83	1.279	F1	mg/Kg	☼	-21	40 - 140
Benzo[b]fluoranthene	2.75	F1	1.83	4.867		mg/Kg	☼	115	40 - 140
Benzo[g,h,i]perylene	0.823		1.83	2.288		mg/Kg	☼	80	40 - 140
Benzo[k]fluoranthene	1.67	F2	1.83	3.765		mg/Kg	☼	114	40 - 140
Benzoic acid	ND		1.83	2.098		mg/Kg	☼	115	30 - 130
Benzyl alcohol	ND		1.83	1.324		mg/Kg	☼	72	40 - 140
Bis(2-chloroethoxy)methane	ND		1.83	1.416		mg/Kg	☼	77	40 - 140
Bis(2-chloroethyl)ether	ND		1.83	1.354		mg/Kg	☼	74	40 - 140
bis (2-chloroisopropyl) ether	ND		1.83	1.450		mg/Kg	☼	79	40 - 140
Bis(2-ethylhexyl) phthalate	4.12		1.83	6.023		mg/Kg	☼	104	40 - 140
Butyl benzyl phthalate	0.110	J	1.83	1.707		mg/Kg	☼	87	40 - 140
Carbazole	0.276	J	1.83	1.917		mg/Kg	☼	90	40 - 140
Chrysene	3.08	F1	1.83	5.305		mg/Kg	☼	122	40 - 140
Dibenz(a,h)anthracene	0.561		1.83	2.069		mg/Kg	☼	82	40 - 140
Dibenzofuran	0.376		1.83	2.048		mg/Kg	☼	91	40 - 140
Diethyl phthalate	ND		1.83	1.604		mg/Kg	☼	88	40 - 140
Dimethyl phthalate	ND		1.83	1.648		mg/Kg	☼	90	40 - 140
Di-n-butyl phthalate	1.27		1.83	3.402		mg/Kg	☼	116	40 - 140
Di-n-octyl phthalate	ND		1.83	1.808		mg/Kg	☼	99	40 - 140
Fluoranthene	2.93	F1	1.83	6.272	F1	mg/Kg	☼	183	40 - 140
Fluorene	ND		1.83	1.740		mg/Kg	☼	95	40 - 140
Hexachlorobenzene	ND		1.83	1.702		mg/Kg	☼	93	40 - 140
Hexachlorobutadiene	ND		1.83	1.314		mg/Kg	☼	72	40 - 140
Hexachlorocyclopentadiene	ND		1.83	1.024		mg/Kg	☼	56	40 - 140
Hexachloroethane	ND		1.83	1.299		mg/Kg	☼	71	40 - 140
Indeno[1,2,3-cd]pyrene	0.942		1.83	2.342		mg/Kg	☼	76	40 - 140
Isophorone	ND		1.83	1.214		mg/Kg	☼	66	40 - 140
Naphthalene	0.835		1.83	2.416		mg/Kg	☼	86	40 - 140
Nitrobenzene	ND		1.83	1.605		mg/Kg	☼	88	40 - 140
N-Nitrosodimethylamine	ND		1.83	1.118		mg/Kg	☼	61	40 - 140
N-Nitrosodi-n-propylamine	ND		1.83	1.579		mg/Kg	☼	86	40 - 140
N-Nitrosodiphenylamine	ND		1.83	1.478		mg/Kg	☼	81	40 - 140
Pentachloronitrobenzene	ND		1.83	1.217		mg/Kg	☼	66	40 - 140
Pentachlorophenol	ND		1.83	1.632		mg/Kg	☼	89	30 - 130
Phenanthrene	1.18	F1	1.83	3.157		mg/Kg	☼	108	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	ND		1.83	1.530		mg/Kg	☼	84	40 - 140
Pyrene	2.32	F1	1.83	5.194	F1	mg/Kg	☼	157	40 - 140
Pyridine	ND	F1	1.83	0.4106	J F1	mg/Kg	☼	22	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*
Phenol-d5 (Surr)	*86*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*
Terphenyl-d14	*72*		*30 - 130*

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.84	1.301		mg/Kg	☼	71	40 - 140	3	30
1,2,4-Trichlorobenzene	ND		1.84	1.475		mg/Kg	☼	80	40 - 140	2	30
1,2-Dichlorobenzene	ND		1.84	1.358		mg/Kg	☼	74	40 - 140	2	30
1,3-Dichlorobenzene	ND		1.84	1.403		mg/Kg	☼	76	40 - 140	5	30
1,4-Dichlorobenzene	ND		1.84	1.355		mg/Kg	☼	73	40 - 140	5	30
1-Methylnaphthalene	0.158		1.84	1.956		mg/Kg	☼	97	40 - 140	7	30
2,4,5-Trichlorophenol	ND		1.84	1.711		mg/Kg	☼	93	30 - 130	8	30
2,4,6-Trichlorophenol	ND		1.84	1.850		mg/Kg	☼	100	30 - 130	1	30
2,4-Dichlorophenol	ND		1.84	1.558		mg/Kg	☼	84	30 - 130	4	30
2,4-Dimethylphenol	ND		1.84	1.415		mg/Kg	☼	77	30 - 130	0	30
2,4-Dinitrophenol	ND	F2 F1	1.84	23.29	E F1 F2	mg/Kg	☼	1262	30 - 130	46	30
2,4-Dinitrotoluene	ND		1.84	1.590		mg/Kg	☼	86	40 - 140	4	30
2,6-Dinitrotoluene	ND		1.84	1.609		mg/Kg	☼	87	40 - 140	4	30
2-Chloronaphthalene	ND		1.84	1.667		mg/Kg	☼	90	40 - 140	3	30
2-Chlorophenol	ND		1.84	1.474		mg/Kg	☼	80	30 - 130	3	30
2-Methylnaphthalene	0.256		1.84	2.001		mg/Kg	☼	95	40 - 140	9	30
2-Methylphenol	ND		1.84	1.605		mg/Kg	☼	87	30 - 130	2	30
2-Nitroaniline	ND		1.84	1.305		mg/Kg	☼	71	40 - 140	2	30
2-Nitrophenol	ND		1.84	1.559		mg/Kg	☼	84	30 - 130	2	30
3 & 4 Methylphenol	ND		1.84	1.585		mg/Kg	☼	86	30 - 130	2	30
3,3'-Dichlorobenzidine	ND	F1	1.84	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
3-Nitroaniline	ND	F1	1.84	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
4,6-Dinitro-2-methylphenol	ND		1.84	1.357		mg/Kg	☼	74	30 - 130	6	30
4-Bromophenyl phenyl ether	ND		1.84	1.684		mg/Kg	☼	91	40 - 140	3	30
4-Chloro-3-methylphenol	ND		1.84	1.563		mg/Kg	☼	85	30 - 130	3	30
4-Chloroaniline	ND	F1	1.84	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
4-Chlorophenyl phenyl ether	ND		1.84	1.717		mg/Kg	☼	93	40 - 140	2	30
4-Nitroaniline	ND	F1	1.84	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
4-Nitrophenol	ND		1.84	1.437		mg/Kg	☼	78	30 - 130	3	30
Acenaphthene	ND		1.84	1.819		mg/Kg	☼	99	40 - 140	2	30
Acenaphthylene	0.613		1.84	2.632		mg/Kg	☼	109	40 - 140	16	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20445

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone	ND		1.84	1.637		mg/Kg	☼	89	40 - 140	2	30
Aniline	ND	F1	1.84	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Anthracene	0.758	F1	1.84	3.445	F1	mg/Kg	☼	146	40 - 140	22	30
Azobenzene/Diphenyldiazene	ND		1.84	1.537		mg/Kg	☼	83	40 - 140	2	30
Benzidine	0.666	J F1	1.84	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Benzo[a]anthracene	2.78	F2 F1	1.84	6.676	F1 F2	mg/Kg	☼	211	40 - 140	33	30
Benzo[a]pyrene	1.67	F2 F1	1.84	2.092	F2 F1	mg/Kg	☼	23	40 - 140	48	30
Benzo[b]fluoranthene	2.75	F1	1.84	6.545	F1	mg/Kg	☼	206	40 - 140	29	30
Benzo[g,h,i]perylene	0.823		1.84	2.708		mg/Kg	☼	102	40 - 140	17	30
Benzo[k]fluoranthene	1.67	F2	1.84	2.675	F2	mg/Kg	☼	54	40 - 140	34	30
Benzoic acid	ND		1.84	2.122		mg/Kg	☼	115	30 - 130	1	30
Benzyl alcohol	ND		1.84	1.296		mg/Kg	☼	70	40 - 140	2	30
Bis(2-chloroethoxy)methane	ND		1.84	1.400		mg/Kg	☼	76	40 - 140	1	30
Bis(2-chloroethyl)ether	ND		1.84	1.280		mg/Kg	☼	69	40 - 140	6	30
bis (2-chloroisopropyl) ether	ND		1.84	1.329		mg/Kg	☼	72	40 - 140	9	30
Bis(2-ethylhexyl) phthalate	4.12		1.84	5.948		mg/Kg	☼	99	40 - 140	1	30
Butyl benzyl phthalate	0.110	J	1.84	1.580		mg/Kg	☼	80	40 - 140	8	30
Carbazole	0.276	J	1.84	2.092		mg/Kg	☼	98	40 - 140	9	30
Chrysene	3.08	F1	1.84	6.549	F1	mg/Kg	☼	188	40 - 140	21	30
Dibenz(a,h)anthracene	0.561		1.84	2.434		mg/Kg	☼	102	40 - 140	16	30
Dibenzofuran	0.376		1.84	2.311		mg/Kg	☼	105	40 - 140	12	30
Diethyl phthalate	ND		1.84	1.564		mg/Kg	☼	85	40 - 140	3	30
Dimethyl phthalate	ND		1.84	1.592		mg/Kg	☼	86	40 - 140	3	30
Di-n-butyl phthalate	1.27		1.84	3.364		mg/Kg	☼	113	40 - 140	1	30
Di-n-octyl phthalate	ND		1.84	1.759		mg/Kg	☼	95	40 - 140	3	30
Fluoranthene	2.93	F1	1.84	7.228	F1	mg/Kg	☼	233	40 - 140	14	30
Fluorene	ND		1.84	1.779		mg/Kg	☼	96	40 - 140	2	30
Hexachlorobenzene	ND		1.84	1.631		mg/Kg	☼	88	40 - 140	4	30
Hexachlorobutadiene	ND		1.84	1.252		mg/Kg	☼	68	40 - 140	5	30
Hexachlorocyclopentadiene	ND		1.84	0.9918		mg/Kg	☼	54	40 - 140	3	30
Hexachloroethane	ND		1.84	1.213		mg/Kg	☼	66	40 - 140	7	30
Indeno[1,2,3-cd]pyrene	0.942		1.84	2.847		mg/Kg	☼	103	40 - 140	19	30
Isophorone	ND		1.84	1.205		mg/Kg	☼	65	40 - 140	1	30
Naphthalene	0.835		1.84	3.282		mg/Kg	☼	133	40 - 140	30	30
Nitrobenzene	ND		1.84	1.503		mg/Kg	☼	81	40 - 140	7	30
N-Nitrosodimethylamine	ND		1.84	1.107		mg/Kg	☼	60	40 - 140	1	30
N-Nitrosodi-n-propylamine	ND		1.84	1.526		mg/Kg	☼	83	40 - 140	3	30
N-Nitrosodiphenylamine	ND		1.84	1.501		mg/Kg	☼	81	40 - 140	2	30
Pentachloronitrobenzene	ND		1.84	1.154		mg/Kg	☼	63	40 - 140	5	30
Pentachlorophenol	ND		1.84	1.496		mg/Kg	☼	81	30 - 130	9	30
Phenanthrene	1.18	F1	1.84	4.057	F1	mg/Kg	☼	156	40 - 140	25	30
Phenol	ND		1.84	1.503		mg/Kg	☼	81	40 - 140	2	30
Pyrene	2.32	F1	1.84	5.699	F1	mg/Kg	☼	183	40 - 140	9	30
Pyridine	ND	F1	1.84	0.4478	J F1	mg/Kg	☼	24	40 - 140	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*92*		*15 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 20445

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*
Phenol-d5 (Surr)	*83*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*
Terphenyl-d14	*66*		*30 - 130*

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Aniline	ND		0.330	0.0253	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/13/23 11:00	03/13/23 20:30	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20475/1-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20475

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Phenol	ND		0.330	0.0680	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/13/23 11:00	03/13/23 20:30	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/13/23 11:00	03/13/23 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
2-Fluorophenol (Surr)	*81*		*15 - 110*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
2,4,6-Tribromophenol (Surr)	*46*		*15 - 110*	*03/13/23 11:00*	*03/13/23 20:30*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/13/23 11:00*	*03/13/23 20:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20475/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.038		mg/Kg		62	40 - 140
1,2,4-Trichlorobenzene	1.67	1.338		mg/Kg		80	40 - 140
1,2-Dichlorobenzene	1.67	1.248		mg/Kg		75	40 - 140
1,3-Dichlorobenzene	1.67	1.271		mg/Kg		76	40 - 140
1,4-Dichlorobenzene	1.67	1.235		mg/Kg		74	40 - 140
1-Methylnaphthalene	1.67	1.376		mg/Kg		83	40 - 140
2,4,5-Trichlorophenol	1.67	1.319		mg/Kg		79	30 - 130
2,4,6-Trichlorophenol	1.67	1.424		mg/Kg		85	30 - 130
2,4-Dichlorophenol	1.67	1.294		mg/Kg		78	30 - 130
2,4-Dimethylphenol	1.67	1.256		mg/Kg		75	30 - 130
2,4-Dinitrophenol	1.67	1.737		mg/Kg		104	30 - 130
2,4-Dinitrotoluene	1.67	1.424		mg/Kg		85	40 - 140
2,6-Dinitrotoluene	1.67	1.385		mg/Kg		83	40 - 140
2-Chloronaphthalene	1.67	1.343		mg/Kg		81	40 - 140
2-Chlorophenol	1.67	1.309		mg/Kg		79	30 - 130
2-Methylnaphthalene	1.67	1.387		mg/Kg		83	40 - 140
2-Methylphenol	1.67	1.410		mg/Kg		85	30 - 130
2-Nitroaniline	1.67	1.402		mg/Kg		84	40 - 140
2-Nitrophenol	1.67	1.368		mg/Kg		82	30 - 130
3 & 4 Methylphenol	1.67	1.396		mg/Kg		84	30 - 130
3,3'-Dichlorobenzidine	1.67	1.894		mg/Kg		114	40 - 140
3-Nitroaniline	1.67	0.9997		mg/Kg		60	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.156		mg/Kg		69	30 - 130
4-Bromophenyl phenyl ether	1.67	1.419		mg/Kg		85	40 - 140
4-Chloro-3-methylphenol	1.67	1.421		mg/Kg		85	30 - 130
4-Chloroaniline	1.67	0.8748		mg/Kg		52	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.334		mg/Kg		80	40 - 140
4-Nitroaniline	1.67	1.313		mg/Kg		79	40 - 140
4-Nitrophenol	1.67	1.187		mg/Kg		71	30 - 130
Acenaphthene	1.67	1.304		mg/Kg		78	40 - 140
Acenaphthylene	1.67	1.322		mg/Kg		79	40 - 140
Acetophenone	1.67	1.366		mg/Kg		82	40 - 140
Aniline	1.67	1.065		mg/Kg		64	40 - 140
Anthracene	1.67	1.588		mg/Kg		95	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.396		mg/Kg		84	40 - 140
Benzidine	1.67	1.022		mg/Kg		61	40 - 140
Benzo[a]anthracene	1.67	1.533		mg/Kg		92	40 - 140
Benzo[a]pyrene	1.67	1.383		mg/Kg		83	40 - 140
Benzo[b]fluoranthene	1.67	1.523		mg/Kg		91	40 - 140
Benzo[g,h,i]perylene	1.67	1.427		mg/Kg		86	40 - 140
Benzo[k]fluoranthene	1.67	1.254		mg/Kg		75	40 - 140
Benzoic acid	1.67	0.5241		mg/Kg		31	30 - 130
Benzyl alcohol	1.67	1.195		mg/Kg		72	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.226		mg/Kg		74	40 - 140
Bis(2-chloroethyl)ether	1.67	1.255		mg/Kg		75	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.129		mg/Kg		68	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.577		mg/Kg		95	40 - 140
Butyl benzyl phthalate	1.67	1.492		mg/Kg		90	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20475/2-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbazole			1.67	1.451		mg/Kg		87	40 - 140		
Chrysene			1.67	1.530		mg/Kg		92	40 - 140		
Dibenz(a,h)anthracene			1.67	1.317		mg/Kg		79	40 - 140		
Dibenzofuran			1.67	1.432		mg/Kg		86	40 - 140		
Diethyl phthalate			1.67	1.337		mg/Kg		80	40 - 140		
Dimethyl phthalate			1.67	1.408		mg/Kg		84	40 - 140		
Di-n-butyl phthalate			1.67	1.587		mg/Kg		95	40 - 140		
Di-n-octyl phthalate			1.67	1.546		mg/Kg		93	40 - 140		
Fluoranthene			1.67	1.524		mg/Kg		91	40 - 140		
Fluorene			1.67	1.284		mg/Kg		77	40 - 140		
Hexachlorobenzene			1.67	1.412		mg/Kg		85	40 - 140		
Hexachlorobutadiene			1.67	1.134		mg/Kg		68	40 - 140		
Hexachlorocyclopentadiene			1.67	1.436		mg/Kg		86	40 - 140		
Hexachloroethane			1.67	1.262		mg/Kg		76	40 - 140		
Indeno[1,2,3-cd]pyrene			1.67	1.284		mg/Kg		77	40 - 140		
Isophorone			1.67	1.051		mg/Kg		63	40 - 140		
Naphthalene			1.67	1.323		mg/Kg		79	40 - 140		
Nitrobenzene			1.67	1.361		mg/Kg		82	40 - 140		
N-Nitrosodimethylamine			1.67	1.148		mg/Kg		69	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.300		mg/Kg		78	40 - 140		
N-Nitrosodiphenylamine			1.67	1.484		mg/Kg		89	40 - 140		
Pentachloronitrobenzene			1.67	1.034		mg/Kg		62	40 - 140		
Pentachlorophenol			1.67	1.122		mg/Kg		67	30 - 130		
Phenanthrene			1.67	1.427		mg/Kg		86	40 - 140		
Phenol			1.67	1.380		mg/Kg		83	40 - 140		
Pyrene			1.67	1.568		mg/Kg		94	40 - 140		
Pyridine			1.67	0.9719		mg/Kg		58	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*83*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*76*		*30 - 130*

Lab Sample ID: LCSD 620-20475/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.034		mg/Kg		62	40 - 140	0	30
1,2,4-Trichlorobenzene			1.67	1.327		mg/Kg		80	40 - 140	1	30
1,2-Dichlorobenzene			1.67	1.233		mg/Kg		74	40 - 140	1	30
1,3-Dichlorobenzene			1.67	1.261		mg/Kg		76	40 - 140	1	30
1,4-Dichlorobenzene			1.67	1.217		mg/Kg		73	40 - 140	1	30
1-Methylnaphthalene			1.67	1.364		mg/Kg		82	40 - 140	1	30
2,4,5-Trichlorophenol			1.67	1.271		mg/Kg		76	30 - 130	4	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20475/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,6-Trichlorophenol			1.67	1.395		mg/Kg		84	30 - 130	2	30
2,4-Dichlorophenol			1.67	1.264		mg/Kg		76	30 - 130	2	30
2,4-Dimethylphenol			1.67	1.252		mg/Kg		75	30 - 130	0	30
2,4-Dinitrophenol			1.67	1.679		mg/Kg		101	30 - 130	3	30
2,4-Dinitrotoluene			1.67	1.352		mg/Kg		81	40 - 140	5	30
2,6-Dinitrotoluene			1.67	1.349		mg/Kg		81	40 - 140	3	30
2-Chloronaphthalene			1.67	1.313		mg/Kg		79	40 - 140	2	30
2-Chlorophenol			1.67	1.306		mg/Kg		78	30 - 130	0	30
2-Methylnaphthalene			1.67	1.353		mg/Kg		81	40 - 140	2	30
2-Methylphenol			1.67	1.392		mg/Kg		84	30 - 130	1	30
2-Nitroaniline			1.67	1.345		mg/Kg		81	40 - 140	4	30
2-Nitrophenol			1.67	1.342		mg/Kg		81	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.408		mg/Kg		85	30 - 130	1	30
3,3'-Dichlorobenzidine			1.67	1.965		mg/Kg		118	40 - 140	4	30
3-Nitroaniline			1.67	1.078		mg/Kg		65	40 - 140	8	30
4,6-Dinitro-2-methylphenol			1.67	1.155		mg/Kg		69	30 - 130	0	30
4-Bromophenyl phenyl ether			1.67	1.385		mg/Kg		83	40 - 140	2	30
4-Chloro-3-methylphenol			1.67	1.372		mg/Kg		82	30 - 130	3	30
4-Chloroaniline			1.67	1.014		mg/Kg		61	40 - 140	15	30
4-Chlorophenyl phenyl ether			1.67	1.312		mg/Kg		79	40 - 140	2	30
4-Nitroaniline			1.67	1.286		mg/Kg		77	40 - 140	2	30
4-Nitrophenol			1.67	1.147		mg/Kg		69	30 - 130	3	30
Acenaphthene			1.67	1.276		mg/Kg		77	40 - 140	2	30
Acenaphthylene			1.67	1.301		mg/Kg		78	40 - 140	2	30
Acetophenone			1.67	1.345		mg/Kg		81	40 - 140	1	30
Aniline			1.67	1.174		mg/Kg		70	40 - 140	10	30
Anthracene			1.67	1.579		mg/Kg		95	40 - 140	1	30
Azobenzene/Diphenyldiazene			1.67	1.359		mg/Kg		82	40 - 140	3	30
Benzidine			1.67	1.063		mg/Kg		64	40 - 140	4	30
Benzo[a]anthracene			1.67	1.521		mg/Kg		91	40 - 140	1	30
Benzo[a]pyrene			1.67	1.375		mg/Kg		82	40 - 140	1	30
Benzo[b]fluoranthene			1.67	1.503		mg/Kg		90	40 - 140	1	30
Benzo[g,h,i]perylene			1.67	1.434		mg/Kg		86	40 - 140	0	30
Benzo[k]fluoranthene			1.67	1.257		mg/Kg		75	40 - 140	0	30
Benzoic acid			1.67	0.3648	*- *1	mg/Kg		22	30 - 130	36	30
Benzyl alcohol			1.67	1.203		mg/Kg		72	40 - 140	1	30
Bis(2-chloroethoxy)methane			1.67	1.240		mg/Kg		74	40 - 140	1	30
Bis(2-chloroethyl)ether			1.67	1.268		mg/Kg		76	40 - 140	1	30
bis (2-chloroisopropyl) ether			1.67	0.9673		mg/Kg		58	40 - 140	15	30
Bis(2-ethylhexyl) phthalate			1.67	1.589		mg/Kg		95	40 - 140	1	30
Butyl benzyl phthalate			1.67	1.480		mg/Kg		89	40 - 140	1	30
Carbazole			1.67	1.443		mg/Kg		87	40 - 140	1	30
Chrysene			1.67	1.519		mg/Kg		91	40 - 140	1	30
Dibenz(a,h)anthracene			1.67	1.331		mg/Kg		80	40 - 140	1	30
Dibenzofuran			1.67	1.388		mg/Kg		83	40 - 140	3	30
Diethyl phthalate			1.67	1.306		mg/Kg		78	40 - 140	2	30
Dimethyl phthalate			1.67	1.377		mg/Kg		83	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.558		mg/Kg		93	40 - 140	2	30
Di-n-octyl phthalate			1.67	1.543		mg/Kg		93	40 - 140	0	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20475/3-A
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20475

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoranthene			1.67	1.507		mg/Kg		90	40 - 140	1	30
Fluorene			1.67	1.262		mg/Kg		76	40 - 140	2	30
Hexachlorobenzene			1.67	1.405		mg/Kg		84	40 - 140	0	30
Hexachlorobutadiene			1.67	1.164		mg/Kg		70	40 - 140	3	30
Hexachlorocyclopentadiene			1.67	1.399		mg/Kg		84	40 - 140	3	30
Hexachloroethane			1.67	1.255		mg/Kg		75	40 - 140	1	30
Indeno[1,2,3-cd]pyrene			1.67	1.302		mg/Kg		78	40 - 140	1	30
Isophorone			1.67	1.052		mg/Kg		63	40 - 140	0	30
Naphthalene			1.67	1.323		mg/Kg		79	40 - 140	0	30
Nitrobenzene			1.67	1.355		mg/Kg		81	40 - 140	0	30
N-Nitrosodimethylamine			1.67	1.106		mg/Kg		66	40 - 140	4	30
N-Nitrosodi-n-propylamine			1.67	1.296		mg/Kg		78	40 - 140	0	30
N-Nitrosodiphenylamine			1.67	1.449		mg/Kg		87	40 - 140	2	30
Pentachloronitrobenzene			1.67	1.008		mg/Kg		60	40 - 140	3	30
Pentachlorophenol			1.67	1.117		mg/Kg		67	30 - 130	0	30
Phenanthrene			1.67	1.380		mg/Kg		83	40 - 140	3	30
Phenol			1.67	1.379		mg/Kg		83	40 - 140	0	30
Pyrene			1.67	1.557		mg/Kg		93	40 - 140	1	30
Pyridine			1.67	0.9389		mg/Kg		56	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*
Phenol-d5 (Surr)	*82*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*
Terphenyl-d14	*75*		*30 - 130*

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,4,5-Tetrachlorobenzene	ND		1.95	1.274		mg/Kg	☼	65	40 - 140		
1,2,4-Trichlorobenzene	ND		1.95	1.615		mg/Kg	☼	83	40 - 140		
1,2-Dichlorobenzene	ND		1.95	1.543		mg/Kg	☼	79	40 - 140		
1,3-Dichlorobenzene	ND		1.95	1.585		mg/Kg	☼	81	40 - 140		
1,4-Dichlorobenzene	ND		1.95	1.525		mg/Kg	☼	78	40 - 140		
1-Methylnaphthalene	ND		1.95	1.786		mg/Kg	☼	92	40 - 140		
2,4,5-Trichlorophenol	ND		1.95	1.650		mg/Kg	☼	85	30 - 130		
2,4,6-Trichlorophenol	ND		1.95	1.810		mg/Kg	☼	93	30 - 130		
2,4-Dichlorophenol	ND		1.95	1.616		mg/Kg	☼	83	30 - 130		
2,4-Dimethylphenol	ND		1.95	1.484		mg/Kg	☼	76	30 - 130		
2,4-Dinitrophenol	ND		1.95	1.958		mg/Kg	☼	100	30 - 130		
2,4-Dinitrotoluene	ND		1.95	1.739		mg/Kg	☼	89	40 - 140		
2,6-Dinitrotoluene	ND		1.95	1.749		mg/Kg	☼	90	40 - 140		
2-Chloronaphthalene	ND		1.95	1.640		mg/Kg	☼	84	40 - 140		
2-Chlorophenol	ND		1.95	1.711		mg/Kg	☼	88	30 - 130		

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	ND		1.95	1.734		mg/Kg	☼	89	40 - 140
2-Methylphenol	ND		1.95	1.773		mg/Kg	☼	91	30 - 130
2-Nitroaniline	ND		1.95	1.951		mg/Kg	☼	100	40 - 140
2-Nitrophenol	ND		1.95	1.760		mg/Kg	☼	90	30 - 130
3 & 4 Methylphenol	ND		1.95	1.738		mg/Kg	☼	89	30 - 130
3,3'-Dichlorobenzidine	ND		1.95	2.166		mg/Kg	☼	111	40 - 140
3-Nitroaniline	ND		1.95	1.324		mg/Kg	☼	68	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.95	0.7088		mg/Kg	☼	36	30 - 130
4-Bromophenyl phenyl ether	ND		1.95	1.670		mg/Kg	☼	86	40 - 140
4-Chloro-3-methylphenol	ND		1.95	1.784		mg/Kg	☼	91	30 - 130
4-Chloroaniline	ND		1.95	0.8645		mg/Kg	☼	44	40 - 140
4-Chlorophenyl phenyl ether	ND		1.95	1.623		mg/Kg	☼	83	40 - 140
4-Nitroaniline	ND		1.95	1.804		mg/Kg	☼	92	40 - 140
4-Nitrophenol	ND		1.95	1.379		mg/Kg	☼	71	30 - 130
Acenaphthene	ND		1.95	1.615		mg/Kg	☼	83	40 - 140
Acenaphthylene	ND		1.95	1.684		mg/Kg	☼	86	40 - 140
Acetophenone	ND		1.95	1.808		mg/Kg	☼	93	40 - 140
Aniline	ND		1.95	1.268		mg/Kg	☼	65	40 - 140
Anthracene	ND		1.95	1.927		mg/Kg	☼	99	40 - 140
Azobenzene/Diphenyldiazene	ND		1.95	1.551		mg/Kg	☼	80	40 - 140
Benzidine	ND	F1 F2	1.95	0.1254	J F1	mg/Kg	☼	6	40 - 140
Benzo[a]anthracene	ND		1.95	1.759		mg/Kg	☼	90	40 - 140
Benzo[a]pyrene	ND		1.95	1.625		mg/Kg	☼	83	40 - 140
Benzo[b]fluoranthene	ND		1.95	1.681		mg/Kg	☼	86	40 - 140
Benzo[g,h,i]perylene	ND		1.95	1.342		mg/Kg	☼	69	40 - 140
Benzo[k]fluoranthene	ND		1.95	1.807		mg/Kg	☼	93	40 - 140
Benzoic acid	ND	*- *1	1.95	1.248		mg/Kg	☼	64	30 - 130
Benzyl alcohol	ND		1.95	1.566		mg/Kg	☼	80	40 - 140
Bis(2-chloroethoxy)methane	ND		1.95	1.689		mg/Kg	☼	87	40 - 140
Bis(2-chloroethyl)ether	ND		1.95	1.713		mg/Kg	☼	88	40 - 140
bis (2-chloroisopropyl) ether	ND		1.95	1.578		mg/Kg	☼	81	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.95	1.702		mg/Kg	☼	87	40 - 140
Butyl benzyl phthalate	ND		1.95	1.829		mg/Kg	☼	94	40 - 140
Carbazole	ND		1.95	1.813		mg/Kg	☼	93	40 - 140
Chrysene	ND		1.95	1.722		mg/Kg	☼	88	40 - 140
Dibenz(a,h)anthracene	ND		1.95	1.389		mg/Kg	☼	71	40 - 140
Dibenzofuran	ND		1.95	1.744		mg/Kg	☼	89	40 - 140
Diethyl phthalate	ND		1.95	1.707		mg/Kg	☼	87	40 - 140
Dimethyl phthalate	ND		1.95	1.726		mg/Kg	☼	88	40 - 140
Di-n-butyl phthalate	ND		1.95	1.940		mg/Kg	☼	99	40 - 140
Di-n-octyl phthalate	ND		1.95	1.819		mg/Kg	☼	93	40 - 140
Fluoranthene	ND		1.95	1.754		mg/Kg	☼	90	40 - 140
Fluorene	ND		1.95	1.585		mg/Kg	☼	81	40 - 140
Hexachlorobenzene	ND		1.95	1.592		mg/Kg	☼	82	40 - 140
Hexachlorobutadiene	ND		1.95	1.308		mg/Kg	☼	67	40 - 140
Hexachlorocyclopentadiene	ND	F1 F2	1.95	0.3217	F1	mg/Kg	☼	16	40 - 140
Hexachloroethane	ND		1.95	0.9646		mg/Kg	☼	49	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.95	1.387		mg/Kg	☼	71	40 - 140
Isophorone	ND		1.95	1.387		mg/Kg	☼	71	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	ND		1.95	1.667		mg/Kg	☼	85	40 - 140
Nitrobenzene	ND		1.95	1.803		mg/Kg	☼	92	40 - 140
N-Nitrosodimethylamine	ND		1.95	1.285		mg/Kg	☼	66	40 - 140
N-Nitrosodi-n-propylamine	ND		1.95	1.724		mg/Kg	☼	88	40 - 140
N-Nitrosodiphenylamine	ND		1.95	1.810		mg/Kg	☼	93	40 - 140
Pentachloronitrobenzene	ND		1.95	1.107		mg/Kg	☼	57	40 - 140
Pentachlorophenol	ND		1.95	1.482		mg/Kg	☼	76	30 - 130
Phenanthrene	ND		1.95	1.723		mg/Kg	☼	88	40 - 140
Phenol	ND		1.95	1.750		mg/Kg	☼	90	40 - 140
Pyrene	ND		1.95	1.993		mg/Kg	☼	102	40 - 140
Pyridine	ND		1.95	1.564		mg/Kg	☼	80	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*
2-Fluorophenol (Surr)	*99*		*15 - 110*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*
Phenol-d5 (Surr)	*95*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*
Terphenyl-d14	*79*		*30 - 130*

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.93	1.351		mg/Kg	☼	70	40 - 140	6	30
1,2,4-Trichlorobenzene	ND		1.93	1.705		mg/Kg	☼	88	40 - 140	5	30
1,2-Dichlorobenzene	ND		1.93	1.587		mg/Kg	☼	82	40 - 140	3	30
1,3-Dichlorobenzene	ND		1.93	1.633		mg/Kg	☼	84	40 - 140	3	30
1,4-Dichlorobenzene	ND		1.93	1.575		mg/Kg	☼	81	40 - 140	3	30
1-Methylnaphthalene	ND		1.93	1.914		mg/Kg	☼	99	40 - 140	7	30
2,4,5-Trichlorophenol	ND		1.93	1.662		mg/Kg	☼	86	30 - 130	1	30
2,4,6-Trichlorophenol	ND		1.93	1.836		mg/Kg	☼	95	30 - 130	1	30
2,4-Dichlorophenol	ND		1.93	1.616		mg/Kg	☼	84	30 - 130	0	30
2,4-Dimethylphenol	ND		1.93	1.568		mg/Kg	☼	81	30 - 130	6	30
2,4-Dinitrophenol	ND		1.93	2.118		mg/Kg	☼	110	30 - 130	8	30
2,4-Dinitrotoluene	ND		1.93	1.806		mg/Kg	☼	93	40 - 140	4	30
2,6-Dinitrotoluene	ND		1.93	1.782		mg/Kg	☼	92	40 - 140	2	30
2-Chloronaphthalene	ND		1.93	1.696		mg/Kg	☼	88	40 - 140	3	30
2-Chlorophenol	ND		1.93	1.702		mg/Kg	☼	88	30 - 130	1	30
2-Methylnaphthalene	ND		1.93	1.835		mg/Kg	☼	95	40 - 140	6	30
2-Methylphenol	ND		1.93	1.757		mg/Kg	☼	91	30 - 130	1	30
2-Nitroaniline	ND		1.93	1.992		mg/Kg	☼	103	40 - 140	2	30
2-Nitrophenol	ND		1.93	1.756		mg/Kg	☼	91	30 - 130	0	30
3 & 4 Methylphenol	ND		1.93	1.702		mg/Kg	☼	88	30 - 130	2	30
3,3'-Dichlorobenzidine	ND		1.93	2.300		mg/Kg	☼	119	40 - 140	6	30
3-Nitroaniline	ND		1.93	1.297		mg/Kg	☼	67	40 - 140	2	30
4,6-Dinitro-2-methylphenol	ND		1.93	0.7852		mg/Kg	☼	41	30 - 130	10	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	ND		1.93	1.770		mg/Kg	☼	92	40 - 140	6	30
4-Chloro-3-methylphenol	ND		1.93	1.791		mg/Kg	☼	93	30 - 130	0	30
4-Chloroaniline	ND		1.93	0.9097		mg/Kg	☼	47	40 - 140	5	30
4-Chlorophenyl phenyl ether	ND		1.93	1.715		mg/Kg	☼	89	40 - 140	6	30
4-Nitroaniline	ND		1.93	1.766		mg/Kg	☼	91	40 - 140	2	30
4-Nitrophenol	ND		1.93	1.376		mg/Kg	☼	71	30 - 130	0	30
Acenaphthene	ND		1.93	1.675		mg/Kg	☼	87	40 - 140	4	30
Acenaphthylene	ND		1.93	1.757		mg/Kg	☼	91	40 - 140	4	30
Acetophenone	ND		1.93	1.794		mg/Kg	☼	93	40 - 140	1	30
Aniline	ND		1.93	1.265		mg/Kg	☼	65	40 - 140	0	30
Anthracene	ND		1.93	2.056		mg/Kg	☼	106	40 - 140	6	30
Azobenzene/Diphenyldiazene	ND		1.93	1.737		mg/Kg	☼	90	40 - 140	11	30
Benzidine	ND	F1 F2	1.93	0.4668	J F1 F2	mg/Kg	☼	24	40 - 140	115	30
Benzo[a]anthracene	ND		1.93	1.911		mg/Kg	☼	99	40 - 140	8	30
Benzo[a]pyrene	ND		1.93	1.747		mg/Kg	☼	90	40 - 140	7	30
Benzo[b]fluoranthene	ND		1.93	2.016		mg/Kg	☼	104	40 - 140	18	30
Benzo[g,h,i]perylene	ND		1.93	1.571		mg/Kg	☼	81	40 - 140	16	30
Benzo[k]fluoranthene	ND		1.93	1.784		mg/Kg	☼	92	40 - 140	1	30
Benzoic acid	ND	*- *1	1.93	1.112		mg/Kg	☼	58	30 - 130	12	30
Benzyl alcohol	ND		1.93	1.537		mg/Kg	☼	80	40 - 140	2	30
Bis(2-chloroethoxy)methane	ND		1.93	1.670		mg/Kg	☼	86	40 - 140	1	30
Bis(2-chloroethyl)ether	ND		1.93	1.694		mg/Kg	☼	88	40 - 140	1	30
bis (2-chloroisopropyl) ether	ND		1.93	1.588		mg/Kg	☼	82	40 - 140	1	30
Bis(2-ethylhexyl) phthalate	ND		1.93	1.971		mg/Kg	☼	102	40 - 140	15	30
Butyl benzyl phthalate	ND		1.93	1.939		mg/Kg	☼	100	40 - 140	6	30
Carbazole	ND		1.93	1.881		mg/Kg	☼	97	40 - 140	4	30
Chrysene	ND		1.93	1.926		mg/Kg	☼	100	40 - 140	11	30
Dibenz(a,h)anthracene	ND		1.93	1.568		mg/Kg	☼	81	40 - 140	12	30
Dibenzofuran	ND		1.93	1.848		mg/Kg	☼	96	40 - 140	6	30
Diethyl phthalate	ND		1.93	1.761		mg/Kg	☼	91	40 - 140	3	30
Dimethyl phthalate	ND		1.93	1.746		mg/Kg	☼	90	40 - 140	1	30
Di-n-butyl phthalate	ND		1.93	1.998		mg/Kg	☼	103	40 - 140	3	30
Di-n-octyl phthalate	ND		1.93	2.067		mg/Kg	☼	107	40 - 140	13	30
Fluoranthene	ND		1.93	1.917		mg/Kg	☼	99	40 - 140	9	30
Fluorene	ND		1.93	1.663		mg/Kg	☼	86	40 - 140	5	30
Hexachlorobenzene	ND		1.93	1.755		mg/Kg	☼	91	40 - 140	10	30
Hexachlorobutadiene	ND		1.93	1.418		mg/Kg	☼	73	40 - 140	8	30
Hexachlorocyclopentadiene	ND	F1 F2	1.93	0.4387	F1 F2	mg/Kg	☼	23	40 - 140	31	30
Hexachloroethane	ND		1.93	1.022		mg/Kg	☼	53	40 - 140	6	30
Indeno[1,2,3-cd]pyrene	ND		1.93	1.557		mg/Kg	☼	81	40 - 140	12	30
Isophorone	ND		1.93	1.390		mg/Kg	☼	72	40 - 140	0	30
Naphthalene	ND		1.93	1.716		mg/Kg	☼	89	40 - 140	3	30
Nitrobenzene	ND		1.93	1.835		mg/Kg	☼	95	40 - 140	2	30
N-Nitrosodimethylamine	ND		1.93	1.250		mg/Kg	☼	65	40 - 140	3	30
N-Nitrosodi-n-propylamine	ND		1.93	1.734		mg/Kg	☼	90	40 - 140	1	30
N-Nitrosodiphenylamine	ND		1.93	1.849		mg/Kg	☼	96	40 - 140	2	30
Pentachloronitrobenzene	ND		1.93	1.201		mg/Kg	☼	62	40 - 140	8	30
Pentachlorophenol	ND		1.93	1.465		mg/Kg	☼	76	30 - 130	1	30
Phenanthrene	ND		1.93	1.848		mg/Kg	☼	96	40 - 140	7	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20495

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	ND		1.93	1.728		mg/Kg	☼	89	40 - 140	1	30
Pyrene	ND		1.93	2.132		mg/Kg	☼	110	40 - 140	7	30
Pyridine	ND		1.93	1.460		mg/Kg	☼	75	40 - 140	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*
2-Fluorophenol (Surr)	*98*		*15 - 110*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*
Phenol-d5 (Surr)	*92*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660571/1-A
Matrix: Solid
Analysis Batch: 660522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
Naphthalene	0.03841	J	0.0500	0.0340	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/06/23 10:00	03/06/23 10:02	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/06/23 10:00	03/06/23 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*111*		*70 - 130*	*03/06/23 10:00*	*03/06/23 10:02*	*1*
a,a,a-Trifluorotoluene (pid)	*109*		*70 - 130*	*03/06/23 10:00*	*03/06/23 10:02*	*1*

Lab Sample ID: LCS 480-660571/2-A
Matrix: Solid
Analysis Batch: 660522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.478		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.506		mg/Kg		100	70 - 130
Methyl tert-butyl ether	2.50	2.292		mg/Kg		92	70 - 130
m,p-Xylene	5.00	5.023		mg/Kg		100	70 - 130
Naphthalene	2.50	2.474		mg/Kg		99	70 - 130
o-Xylene	2.50	2.497		mg/Kg		100	70 - 130
Toluene	2.50	2.504		mg/Kg		100	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.109		mg/Kg		95	70 - 130
C9-C10 Aromatics	2.50	2.476		mg/Kg		99	70 - 130

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-660571/2-A
Matrix: Solid
Analysis Batch: 660522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660571

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C9-C12 Aliphatics (unadjusted)			7.50	7.313		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Lab Sample ID: LCSD 480-660571/3-A
Matrix: Solid
Analysis Batch: 660522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660571

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.463		mg/Kg		99	70 - 130	1	25
Ethylbenzene			2.50	2.462		mg/Kg		98	70 - 130	2	25
Methyl tert-butyl ether			2.50	2.334		mg/Kg		93	70 - 130	2	25
m,p-Xylene			5.00	4.994		mg/Kg		100	70 - 130	1	25
Naphthalene			2.50	2.425		mg/Kg		97	70 - 130	2	25
o-Xylene			2.50	2.472		mg/Kg		99	70 - 130	1	25
Toluene			2.50	2.481		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	7.335		mg/Kg		98	70 - 130	3	25
C9-C10 Aromatics			2.50	2.478		mg/Kg		99	70 - 130	0	25
C9-C12 Aliphatics (unadjusted)			7.50	7.455		mg/Kg		99	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 660522

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 660571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		3.23	3.217		mg/Kg	☼	100	70 - 130		
Ethylbenzene	ND		3.23	3.265		mg/Kg	☼	101	70 - 130		
Methyl tert-butyl ether	ND		3.23	3.205		mg/Kg	☼	99	70 - 130		
m,p-Xylene	ND		6.45	6.498		mg/Kg	☼	101	70 - 130		
Naphthalene	0.248		3.23	3.218		mg/Kg	☼	92	70 - 130		
o-Xylene	ND		3.23	3.246		mg/Kg	☼	101	70 - 130		
Toluene	0.0250	J	3.23	3.265		mg/Kg	☼	100	70 - 130		
C5-C8 Aliphatics (unadjusted)	0.692		9.68	9.935		mg/Kg	☼	96	70 - 130		
C9-C10 Aromatics	0.0762	J	3.23	3.455		mg/Kg	☼	105	70 - 130		
C9-C12 Aliphatics (unadjusted)	0.281	J	9.68	10.68		mg/Kg	☼	107	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10080-1 MSD **Client Sample ID: 2023-MW-07-0002'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660522 **Prep Batch: 660571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.99	3.031		mg/Kg	☼	101	70 - 130	6	50
Ethylbenzene	ND		2.99	2.980		mg/Kg	☼	100	70 - 130	9	50
Methyl tert-butyl ether	ND		2.99	2.976		mg/Kg	☼	100	70 - 130	7	50
m,p-Xylene	ND		5.97	6.055		mg/Kg	☼	101	70 - 130	7	50
Naphthalene	0.248		2.99	3.107		mg/Kg	☼	96	70 - 130	4	50
o-Xylene	ND		2.99	3.014		mg/Kg	☼	101	70 - 130	7	50
Toluene	0.0250	J	2.99	3.075		mg/Kg	☼	102	70 - 130	6	50
C5-C8 Aliphatics (unadjusted)	0.692		8.96	9.218		mg/Kg	☼	95	70 - 130	7	50
C9-C10 Aromatics	0.0762	J	2.99	3.179		mg/Kg	☼	104	70 - 130	8	50
C9-C12 Aliphatics (unadjusted)	0.281	J	8.96	9.964		mg/Kg	☼	108	70 - 130	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*

Lab Sample ID: MB 480-660655/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660658 **Prep Batch: 660655**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Naphthalene	0.03864	J	0.0500	0.0340	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/07/23 07:22	03/07/23 08:40	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/07/23 07:22	03/07/23 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*118*		*70 - 130*	*03/07/23 07:22*	*03/07/23 08:40*	*1*
a,a,a-Trifluorotoluene (pid)	*116*		*70 - 130*	*03/07/23 07:22*	*03/07/23 08:40*	*1*

Lab Sample ID: LCS 480-660655/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660658 **Prep Batch: 660655**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.450		mg/Kg		98	70 - 130
Ethylbenzene	2.50	2.478		mg/Kg		99	70 - 130
Methyl tert-butyl ether	2.50	2.303		mg/Kg		92	70 - 130
m,p-Xylene	5.00	4.957		mg/Kg		99	70 - 130
Naphthalene	2.50	2.250		mg/Kg		90	70 - 130
o-Xylene	2.50	2.458		mg/Kg		98	70 - 130
Toluene	2.50	2.477		mg/Kg		99	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.181		mg/Kg		96	70 - 130

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-660655/2-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660655

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C9-C10 Aromatics			2.50	2.453		mg/Kg		98	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	7.459		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Lab Sample ID: LCSD 480-660655/3-A
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660655

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.425		mg/Kg		97	70 - 130	1	25
Ethylbenzene			2.50	2.451		mg/Kg		98	70 - 130	1	25
Methyl tert-butyl ether			2.50	2.237		mg/Kg		89	70 - 130	3	25
m,p-Xylene			5.00	4.950		mg/Kg		99	70 - 130	0	25
Naphthalene			2.50	2.476		mg/Kg		99	70 - 130	10	25
o-Xylene			2.50	2.452		mg/Kg		98	70 - 130	0	25
Toluene			2.50	2.462		mg/Kg		98	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	6.774		mg/Kg		90	70 - 130	6	25
C9-C10 Aromatics			2.50	2.441		mg/Kg		98	70 - 130	0	25
C9-C12 Aliphatics (unadjusted)			7.50	7.271		mg/Kg		97	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 660655

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		2.64	2.587		mg/Kg	☼	98	70 - 130		
Ethylbenzene	ND		2.64	2.636		mg/Kg	☼	100	70 - 130		
Methyl tert-butyl ether	ND		2.64	2.575		mg/Kg	☼	98	70 - 130		
m,p-Xylene	ND		5.27	5.247		mg/Kg	☼	100	70 - 130		
Naphthalene	0.0391	J B	2.64	2.401		mg/Kg	☼	90	70 - 130		
o-Xylene	ND		2.64	2.609		mg/Kg	☼	99	70 - 130		
Toluene	ND		2.64	2.613		mg/Kg	☼	99	70 - 130		
C5-C8 Aliphatics (unadjusted)	ND		7.91	7.671		mg/Kg	☼	97	70 - 130		
C9-C10 Aromatics	ND		2.64	2.679		mg/Kg	☼	102	70 - 130		
C9-C12 Aliphatics (unadjusted)	ND		7.91	8.291		mg/Kg	☼	105	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*102*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 660658

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 660655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.64	2.557		mg/Kg	☼	97	70 - 130	1	50
Ethylbenzene	ND		2.64	2.591		mg/Kg	☼	98	70 - 130	2	50
Methyl tert-butyl ether	ND		2.64	2.571		mg/Kg	☼	97	70 - 130	0	50
m,p-Xylene	ND		5.28	5.190		mg/Kg	☼	98	70 - 130	1	50
Naphthalene	0.0391	J B	2.64	2.321		mg/Kg	☼	86	70 - 130	3	50
o-Xylene	ND		2.64	2.575		mg/Kg	☼	98	70 - 130	1	50
Toluene	ND		2.64	2.595		mg/Kg	☼	98	70 - 130	1	50
C5-C8 Aliphatics (unadjusted)	ND		7.92	7.498		mg/Kg	☼	95	70 - 130	2	50
C9-C10 Aromatics	ND		2.64	2.604		mg/Kg	☼	99	70 - 130	3	50
C9-C12 Aliphatics (unadjusted)	ND		7.92	8.124		mg/Kg	☼	103	70 - 130	2	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20412/1-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:17	03/11/23 07:54	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:17	03/11/23 07:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/09/23 15:17*	*03/11/23 07:54*	*1*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/09/23 15:17*	*03/11/23 07:54*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*	*03/09/23 15:17*	*03/11/23 07:54*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*30 - 150*	*03/09/23 15:17*	*03/11/23 07:54*	*1*

Lab Sample ID: LCS 620-20412/2-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.1692		mg/Kg		102	40 - 140
PCB-1016	0.167	0.1723		mg/Kg		103	40 - 140
PCB-1260	0.167	0.2091		mg/Kg		125	40 - 140
PCB-1260	0.167	0.1956		mg/Kg		117	40 - 140

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCS 620-20412/2-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20412

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*30 - 150*
Tetrachloro-m-xylene	*96*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*127*		*30 - 150*

Lab Sample ID: LCSD 620-20412/3-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20412

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1985		mg/Kg		119	40 - 140	16	30
PCB-1016			0.167	0.1970		mg/Kg		118	40 - 140	13	30
PCB-1260			0.167	0.2145		mg/Kg		129	40 - 140	3	30
PCB-1260			0.167	0.2087		mg/Kg		125	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*110*		*30 - 150*
Tetrachloro-m-xylene	*117*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*129*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*136*		*30 - 150*

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	ND		0.194	0.2003		mg/Kg	☼	103	40 - 140		
PCB-1260	ND	F1	0.194	0.2522		mg/Kg	☼	130	40 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*30 - 150*
Tetrachloro-m-xylene	*94*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.190	0.2090		mg/Kg	☼	110	40 - 140	4	30
PCB-1260	ND	F1	0.190	0.2708	F1	mg/Kg	☼	142	40 - 140	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*99*		*30 - 150*
Tetrachloro-m-xylene	*98*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 20412

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*121*		*30 - 150*

Lab Sample ID: MB 620-20414/1-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:26	03/11/23 00:37	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:26	03/11/23 00:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*
DCB Decachlorobiphenyl (Surr)	*125*		*30 - 150*	*03/09/23 15:26*	*03/11/23 00:37*	*1*

Lab Sample ID: LCS 620-20414/2-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20414

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1563		mg/Kg		94	40 - 140		
PCB-1016			0.167	0.1575		mg/Kg		94	40 - 140		
PCB-1260			0.167	0.1889		mg/Kg		113	40 - 140		
PCB-1260			0.167	0.1772		mg/Kg		106	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*30 - 150*
Tetrachloro-m-xylene	*79*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*106*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*114*		*30 - 150*

Lab Sample ID: LCSD 620-20414/3-A
Matrix: Solid
Analysis Batch: 20434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20414

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1794		mg/Kg		108	40 - 140	14	30
PCB-1016			0.167	0.1787		mg/Kg		107	40 - 140	13	30
PCB-1260			0.167	0.2095		mg/Kg		126	40 - 140	10	30
PCB-1260			0.167	0.1942		mg/Kg		117	40 - 140	9	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	91		30 - 150
Tetrachloro-m-xylene	94		30 - 150
DCB Decachlorobiphenyl (Surr)	116		30 - 150
DCB Decachlorobiphenyl (Surr)	123		30 - 150

Lab Sample ID: MB 620-20450/1-A
Matrix: Solid
Analysis Batch: 20508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/10/23 15:06	03/14/23 12:33	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/10/23 15:06	03/14/23 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		30 - 150	03/10/23 15:06	03/14/23 12:33	1
Tetrachloro-m-xylene	99		30 - 150	03/10/23 15:06	03/14/23 12:33	1
DCB Decachlorobiphenyl (Surr)	107		30 - 150	03/10/23 15:06	03/14/23 12:33	1
DCB Decachlorobiphenyl (Surr)	119		30 - 150	03/10/23 15:06	03/14/23 12:33	1

Lab Sample ID: LCS 620-20450/2-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20450

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.1580		mg/Kg		95	40 - 140
PCB-1016	0.167	0.1573		mg/Kg		94	40 - 140
PCB-1260	0.167	0.1843		mg/Kg		111	40 - 140
PCB-1260	0.167	0.1801		mg/Kg		108	40 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	89		30 - 150
Tetrachloro-m-xylene	93		30 - 150
DCB Decachlorobiphenyl (Surr)	94		30 - 150
DCB Decachlorobiphenyl (Surr)	118		30 - 150

Lab Sample ID: LCSD 620-20450/3-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.167	0.1947		mg/Kg		117	40 - 140	21	30
PCB-1016	0.167	0.2022		mg/Kg		121	40 - 140	25	30
PCB-1260	0.167	0.2189		mg/Kg		131	40 - 140	17	30
PCB-1260	0.167	0.2194		mg/Kg		132	40 - 140	20	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	109		30 - 150
Tetrachloro-m-xylene	116		30 - 150
DCB Decachlorobiphenyl (Surr)	117		30 - 150
DCB Decachlorobiphenyl (Surr)	135		30 - 150

Lab Sample ID: 620-10080-1 MS — **Client Sample ID: 2023-MW-07-0002'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20508 — **Prep Batch: 20450**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.186	ND		mg/Kg	☼	NC	40 - 140
PCB-1260	ND	F1	0.186	ND	F1	mg/Kg	☼	0	40 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	0	S1-	30 - 150
Tetrachloro-m-xylene	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150

Lab Sample ID: 620-10080-1 MSD — **Client Sample ID: 2023-MW-07-0002'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20508 — **Prep Batch: 20450**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.186	ND		mg/Kg	☼	NC	40 - 140	NC	30
PCB-1260	ND	F1	0.186	ND	F1	mg/Kg	☼	0	40 - 140	NC	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	0	S1-	30 - 150
Tetrachloro-m-xylene	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150

Lab Sample ID: 620-10080-7 MS — **Client Sample ID: 2023-SS-06**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20508 — **Prep Batch: 20450**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.224	0.2417		mg/Kg	☼	108	40 - 140
PCB-1260	ND	F1	0.224	0.8800	F1	mg/Kg	☼	393	40 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	89		30 - 150
Tetrachloro-m-xylene	82		30 - 150
DCB Decachlorobiphenyl (Surr)	128		30 - 150
DCB Decachlorobiphenyl (Surr)	120		30 - 150

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 20508

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.217	0.2263		mg/Kg	☼	104	40 - 140	7	30
PCB-1260	ND	F1	0.217	0.7600	F1	mg/Kg	☼	350	40 - 140	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*30 - 150*
Tetrachloro-m-xylene	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*120*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*121*		*30 - 150*

Lab Sample ID: MB 620-20453/1-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/10/23 15:38	03/14/23 00:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/10/23 15:38*	*03/14/23 00:49*	*1*
Tetrachloro-m-xylene	*100*		*30 - 150*	*03/10/23 15:38*	*03/14/23 00:49*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*30 - 150*	*03/10/23 15:38*	*03/14/23 00:49*	*1*
DCB Decachlorobiphenyl (Surr)	*121*		*30 - 150*	*03/10/23 15:38*	*03/14/23 00:49*	*1*

Lab Sample ID: LCS 620-20453/2-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.1728		mg/Kg		104	40 - 140
PCB-1016	0.167	0.1750		mg/Kg		105	40 - 140
PCB-1260	0.167	0.1849		mg/Kg		111	40 - 140
PCB-1260	0.167	0.1831		mg/Kg		110	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*30 - 150*
Tetrachloro-m-xylene	*97*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*115*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20453/3-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20453

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1669		mg/Kg		100	40 - 140	3	30
PCB-1016			0.167	0.1667		mg/Kg		100	40 - 140	5	30
PCB-1260			0.167	0.1793		mg/Kg		108	40 - 140	3	30
PCB-1260			0.167	0.1775		mg/Kg		106	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*30 - 150*
Tetrachloro-m-xylene	*94*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*109*		*30 - 150*

Lab Sample ID: MB 620-20488/1-A
Matrix: Solid
Analysis Batch: 20558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20488

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/13/23 14:49	03/15/23 12:25	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/13/23 14:49	03/15/23 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/13/23 14:49*	*03/15/23 12:25*	*1*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/13/23 14:49*	*03/15/23 12:25*	*1*
DCB Decachlorobiphenyl (Surr)	*129*		*30 - 150*	*03/13/23 14:49*	*03/15/23 12:25*	*1*
DCB Decachlorobiphenyl (Surr)	*136*		*30 - 150*	*03/13/23 14:49*	*03/15/23 12:25*	*1*

Lab Sample ID: LCS 620-20488/2-A
Matrix: Solid
Analysis Batch: 20558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20488

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016			0.167	0.1541		mg/Kg		92	40 - 140
PCB-1016			0.167	0.1791		mg/Kg		107	40 - 140
PCB-1260			0.167	0.1814		mg/Kg		109	40 - 140
PCB-1260			0.167	0.1900		mg/Kg		114	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*98*		*30 - 150*
Tetrachloro-m-xylene	*114*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*126*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20488/3-A
Matrix: Solid
Analysis Batch: 20558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20488

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1829		mg/Kg		110	40 - 140	17	30
PCB-1016			0.167	0.1961		mg/Kg		118	40 - 140	9	30
PCB-1260			0.167	0.2207		mg/Kg		132	40 - 140	20	30
PCB-1260			0.167	0.2023		mg/Kg		121	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*30 - 150*
Tetrachloro-m-xylene	*112*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*126*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*138*		*30 - 150*

Method: MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 620-20278/1-B
Matrix: Solid
Analysis Batch: 20426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C9-C18 Aliphatics	ND		6.67	6.67	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
C19-C36 Aliphatics	ND		6.67	6.67	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
C11-C22 Aromatics	ND		6.67	6.67	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
C11-C22 Aromatics (Adjusted)	ND		6.67	6.67	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Naphthalene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
2-Methylnaphthalene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Acenaphthylene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Acenaphthene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Fluorene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Phenanthrene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Anthracene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Fluoranthene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Pyrene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Benzo[a]anthracene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Chrysene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Benzo[b]fluoranthene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Benzo[k]fluoranthene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Benzo[a]pyrene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Indeno[1,2,3-cd]pyrene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Dibenz(a,h)anthracene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1
Benzo[g,h,i]perylene	ND		0.333	0.333	mg/Kg		03/06/23 08:26	03/10/23 15:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane (Surr)	*70*		*40 - 140*	*03/06/23 08:26*	*03/10/23 15:06*	*1*
o-Terphenyl (Surr)	*65*		*40 - 140*	*03/06/23 08:26*	*03/10/23 15:06*	*1*
2-Fluorobiphenyl (Surr)	*79*		*40 - 140*	*03/06/23 08:26*	*03/10/23 15:06*	*1*

Method: MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 620-20278/2-B
Matrix: Solid
Analysis Batch: 20426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20278

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
C9-C18 Aliphatics			8.00	ND		mg/Kg		68	40 - 140		
C19-C36 Aliphatics			10.7	9.550		mg/Kg		90	40 - 140		
C11-C22 Aromatics			22.7	20.89		mg/Kg		92	40 - 140		
Naphthalene			1.33	0.7617		mg/Kg		57	40 - 140		
2-Methylnaphthalene			1.33	0.9919		mg/Kg		74	40 - 140		
Acenaphthylene			1.33	1.444		mg/Kg		108	40 - 140		
Acenaphthene			1.33	1.113		mg/Kg		83	40 - 140		
Fluorene			1.33	1.185		mg/Kg		89	40 - 140		
Phenanthrene			1.33	0.7397		mg/Kg		55	40 - 140		
Anthracene			1.33	0.7482		mg/Kg		56	40 - 140		
Fluoranthene			1.33	1.067		mg/Kg		80	40 - 140		
Pyrene			1.33	1.374		mg/Kg		103	40 - 140		
Benzo[a]anthracene			1.33	0.6287		mg/Kg		47	40 - 140		
Chrysene			1.33	1.174		mg/Kg		88	40 - 140		
Benzo[b]fluoranthene			1.33	0.6960		mg/Kg		52	40 - 140		
Benzo[k]fluoranthene			1.33	1.186		mg/Kg		89	40 - 140		
Benzo[a]pyrene			1.33	0.9530		mg/Kg		71	40 - 140		
Indeno[1,2,3-cd]pyrene			1.33	1.115		mg/Kg		84	40 - 140		
Dibenz(a,h)anthracene			1.33	1.145		mg/Kg		86	40 - 140		
Benzo[g,h,i]perylene			1.33	0.9871		mg/Kg		74	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*74*		*40 - 140*
o-Terphenyl (Surr)	*72*		*40 - 140*
2-Fluorobiphenyl (Surr)	*98*		*40 - 140*

Lab Sample ID: LCSD 620-20278/3-B
Matrix: Solid
Analysis Batch: 20426

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20278

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C18 Aliphatics			8.00	ND		mg/Kg		66	40 - 140	3	25
C19-C36 Aliphatics			10.7	9.137		mg/Kg		86	40 - 140	4	25
C11-C22 Aromatics			22.7	23.68		mg/Kg		104	40 - 140	13	25
Naphthalene			1.33	0.8989		mg/Kg		67	40 - 140	17	25
2-Methylnaphthalene			1.33	0.8865		mg/Kg		66	40 - 140	11	25
Acenaphthylene			1.33	1.131		mg/Kg		85	40 - 140	24	25
Acenaphthene			1.33	1.030		mg/Kg		77	40 - 140	8	25
Fluorene			1.33	1.247		mg/Kg		94	40 - 140	5	25
Phenanthrene			1.33	0.8546		mg/Kg		64	40 - 140	14	25
Anthracene			1.33	0.7883		mg/Kg		59	40 - 140	5	25
Fluoranthene			1.33	1.206		mg/Kg		90	40 - 140	12	25
Pyrene			1.33	1.543		mg/Kg		116	40 - 140	12	25
Benzo[a]anthracene			1.33	0.8370	*1	mg/Kg		63	40 - 140	28	25
Chrysene			1.33	1.337		mg/Kg		100	40 - 140	13	25
Benzo[b]fluoranthene			1.33	0.8481		mg/Kg		64	40 - 140	20	25
Benzo[k]fluoranthene			1.33	1.315		mg/Kg		99	40 - 140	10	25
Benzo[a]pyrene			1.33	1.086		mg/Kg		81	40 - 140	13	25

Method: MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 620-20278/3-B
Matrix: Solid
Analysis Batch: 20426

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20278

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene			1.33	1.281		mg/Kg		96	40 - 140	14	25
Dibenz(a,h)anthracene			1.33	1.583	*1	mg/Kg		119	40 - 140	32	25
Benzo[g,h,i]perylene			1.33	1.253		mg/Kg		94	40 - 140	24	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*76*		*40 - 140*
o-Terphenyl (Surr)	*76*		*40 - 140*
2-Fluorobiphenyl (Surr)	*106*		*40 - 140*

Lab Sample ID: 620-10080-7 MS
Matrix: Solid
Analysis Batch: 20426

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C18 Aliphatics	ND	F1	10.3	ND	F1	mg/Kg	☼	0	40 - 140
C19-C36 Aliphatics	ND		13.7	10.86		mg/Kg	☼	79	40 - 140
C11-C22 Aromatics	149		29.2	111.7	4	mg/Kg	☼	-127	40 - 140
Naphthalene	ND		1.72	0.8734		mg/Kg	☼	51	40 - 140
2-Methylnaphthalene	ND		1.72	1.064		mg/Kg	☼	62	40 - 140
Acenaphthylene	ND		1.72	1.322		mg/Kg	☼	77	40 - 140
Acenaphthene	ND		1.72	1.358		mg/Kg	☼	79	40 - 140
Fluorene	ND		1.72	1.489		mg/Kg	☼	87	40 - 140
Phenanthrene	9.13		1.72	6.026	4	mg/Kg	☼	-181	40 - 140
Anthracene	1.07		1.72	2.472		mg/Kg	☼	82	40 - 140
Fluoranthene	10.6		1.72	8.822	4	mg/Kg	☼	-103	40 - 140
Pyrene	5.45		1.72	7.464		mg/Kg	☼	117	40 - 140
Benzo[a]anthracene	3.99	*1	1.72	4.789		mg/Kg	☼	46	40 - 140
Chrysene	2.45		1.72	3.926		mg/Kg	☼	86	40 - 140
Benzo[b]fluoranthene	1.67		1.72	2.711		mg/Kg	☼	61	40 - 140
Benzo[k]fluoranthene	1.79		1.72	2.711		mg/Kg	☼	54	40 - 140
Benzo[a]pyrene	1.20		1.72	1.967		mg/Kg	☼	45	40 - 140
Indeno[1,2,3-cd]pyrene	1.38		1.72	2.084		mg/Kg	☼	41	40 - 140
Dibenz(a,h)anthracene	0.540	*1	1.72	1.706		mg/Kg	☼	68	40 - 140
Benzo[g,h,i]perylene	ND		1.72	1.702		mg/Kg	☼	99	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*59*		*40 - 140*
o-Terphenyl (Surr)	*80*		*40 - 140*
2-Fluorobiphenyl (Surr)	*108*		*40 - 140*

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 20426

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C18 Aliphatics	ND	F1	10.4	ND	F1	mg/Kg	☼	0	40 - 140	NC	50
C19-C36 Aliphatics	ND		13.9	10.71		mg/Kg	☼	77	40 - 140	1	50
C11-C22 Aromatics	149		29.6	116.2	4	mg/Kg	☼	-110	40 - 140	4	50

Method: MAEPH2.1 - Massachusetts - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 20426

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 20278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	ND		1.74	0.9518		mg/Kg	☼	55	40 - 140	9	50
2-Methylnaphthalene	ND		1.74	1.150		mg/Kg	☼	66	40 - 140	8	50
Acenaphthylene	ND		1.74	1.971		mg/Kg	☼	113	40 - 140	39	50
Acenaphthene	ND		1.74	1.266		mg/Kg	☼	73	40 - 140	7	50
Fluorene	ND		1.74	1.539		mg/Kg	☼	88	40 - 140	3	50
Phenanthrene	9.13		1.74	6.636	4	mg/Kg	☼	-143	40 - 140	10	50
Anthracene	1.07		1.74	1.946		mg/Kg	☼	50	40 - 140	24	50
Fluoranthene	10.6		1.74	9.288	4	mg/Kg	☼	-75	40 - 140	5	50
Pyrene	5.45		1.74	6.185		mg/Kg	☼	42	40 - 140	19	50
Benzo[a]anthracene	3.99	*1	1.74	5.074		mg/Kg	☼	62	40 - 140	6	50
Chrysene	2.45		1.74	3.247		mg/Kg	☼	46	40 - 140	19	50
Benzo[b]fluoranthene	1.67		1.74	2.936		mg/Kg	☼	73	40 - 140	8	50
Benzo[k]fluoranthene	1.79		1.74	2.540		mg/Kg	☼	43	40 - 140	6	50
Benzo[a]pyrene	1.20		1.74	2.630		mg/Kg	☼	82	40 - 140	29	50
Indeno[1,2,3-cd]pyrene	1.38		1.74	2.339		mg/Kg	☼	55	40 - 140	12	50
Dibenz(a,h)anthracene	0.540	*1	1.74	1.532		mg/Kg	☼	57	40 - 140	11	50
Benzo[g,h,i]perylene	ND		1.74	2.015		mg/Kg	☼	116	40 - 140	17	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctadecane (Surr)	*60*		*40 - 140*
o-Terphenyl (Surr)	*83*		*40 - 140*
2-Fluorobiphenyl (Surr)	*110*		*40 - 140*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-351205/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-351205/1-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
DONA	ND		3.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 22:53	03/15/23 21:18	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C5 PFHxA	*107*		*10 - 174*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C4 PFHpA	*113*		*10 - 178*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C8 PFOA	*114*		*26 - 159*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C6 PFDA	*105*		*26 - 161*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C2-PFDoDA	*112*		*11 - 166*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C3 PFHxS	*114*		*24 - 171*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C8 PFOS	*114*		*41 - 154*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
d3-NMeFOSAA	*87*		*10 - 178*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
d5-NEtFOSAA	*95*		*10 - 193*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C8 FOSA	*76*		*14 - 163*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C4 PFBA	*97*		*28 - 153*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C5 PFPeA	*92*		*24 - 161*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
d7-N-MeFOSE-M	*82*		*10 - 179*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
d9-N-EtFOSE-M	*88*		*10 - 185*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
d5-NEtPFOSA	*76*		*10 - 180*	*03/07/23 22:53*	*03/15/23 21:18*	*1*
13C3 HFPO-DA	*93*		*10 - 169*	*03/07/23 22:53*	*03/15/23 21:18*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351205/2-B
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.03		ug/Kg		84	59 - 132
Perfluoroheptanoic acid	25.0	21.75		ug/Kg		87	59 - 137
Perfluorooctanoic acid	25.0	19.57		ug/Kg		78	59 - 131
Perfluorononanoic acid	25.0	20.78		ug/Kg		83	61 - 134
Perfluorodecanoic acid	25.0	21.39		ug/Kg		86	56 - 133
Perfluorotridecanoic acid	25.0	20.46		ug/Kg		82	53 - 143
Perfluorotetradecanoic acid	25.0	19.83		ug/Kg		79	62 - 134
Perfluorobutanesulfonic acid	22.1	21.27		ug/Kg		96	54 - 130
Perfluorohexanesulfonic acid	22.8	19.74		ug/Kg		87	59 - 129
Perfluorooctanesulfonic acid	23.1	19.78		ug/Kg		85	61 - 126
NEtFOSAA	25.0	22.31		ug/Kg		89	57 - 127
NMeFOSAA	25.0	23.03		ug/Kg		92	60 - 134
10:2 FTS	24.1	24.44		ug/Kg		101	46 - 143
Perfluoropentanesulfonic acid	23.5	18.72		ug/Kg		80	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.22		ug/Kg		89	59 - 132
Perfluorononanesulfonic acid	24.0	20.49		ug/Kg		85	60 - 132
Perfluorodecanesulfonic acid	24.1	20.04		ug/Kg		83	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.91		ug/Kg		82	38 - 145
Perfluorooctanesulfonamide	25.0	21.31		ug/Kg		85	47 - 149
Perfluorohexadecanoic acid	25.0	15.13		ug/Kg		61	38 - 147
Perfluorooctadecanoic acid	25.0	16.80		ug/Kg		67	16 - 160
Perfluorobutanoic acid	25.0	19.29		ug/Kg		77	60 - 128
Perfluoropentanoic acid	25.0	19.09		ug/Kg		76	58 - 134
NMeFOSE	25.0	22.02		ug/Kg		88	60 - 130
NMeFOSA	25.0	22.18		ug/Kg		89	60 - 129
NEtFOSE	25.0	21.47		ug/Kg		86	60 - 126
NEtFOSA	25.0	22.72		ug/Kg		91	60 - 123
HFPODA	25.0	21.81		ug/Kg		87	49 - 135
DONA	23.6	20.30		ug/Kg		86	57 - 137
9Cl-PF3ONS	23.3	19.63		ug/Kg		84	62 - 130
11Cl-PF3OUdS	23.3	18.85		ug/Kg		81	55 - 135
Perfluorododecanoic acid	25.0	20.29		ug/Kg		81	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.30		ug/Kg		87	58 - 131
Perfluoroundecanoic acid	25.0	21.39		ug/Kg		86	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	19.77		ug/Kg		83	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	21.13		ug/Kg		88	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*101*		*10 - 200*
M2-8:2 FTS	*101*		*15 - 200*
M2-6:2 FTS	*108*		*10 - 200*
13C5 PFHxA	*110*		*10 - 174*
13C4 PFHpA	*111*		*10 - 178*
13C8 PFOA	*112*		*26 - 159*
13C9 PFNA	*116*		*26 - 165*
13C6 PFDA	*107*		*26 - 161*
13C7 PFUnA	*120*		*12 - 173*
13C2-PFDoDA	*118*		*11 - 166*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351205/2-B **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 353839 **Prep Batch: 351205**

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	139		10 - 169
13C3 PFBS	118		27 - 179
13C3 PFHxS	113		24 - 171
13C8 PFOS	115		41 - 154
d3-NMeFOSAA	97		10 - 178
d5-NEtFOSAA	104		10 - 193
13C8 FOSA	91		14 - 163
13C4 PFBA	107		28 - 153
13C5 PFPeA	113		24 - 161
d7-N-MeFOSE-M	95		10 - 179
d3-NMePFOSA	69		10 - 175
d9-N-EtFOSE-M	97		10 - 185
d5-NEtPFOSA	68		10 - 180
13C3 HFPO-DA	94		10 - 169

Lab Sample ID: 620-10080-28 MS **Client Sample ID: 2023-MW-04-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 353839 **Prep Batch: 351205**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.5	21.84		ug/Kg	☼	79	59 - 132
Perfluoroheptanoic acid	ND		27.5	22.83		ug/Kg	☼	83	59 - 137
Perfluorooctanoic acid	ND		27.5	21.74		ug/Kg	☼	79	59 - 131
Perfluorononanoic acid	ND		27.5	23.85		ug/Kg	☼	87	61 - 134
Perfluorodecanoic acid	ND		27.5	22.93		ug/Kg	☼	83	56 - 133
Perfluorotridecanoic acid	ND		27.5	23.70		ug/Kg	☼	86	53 - 143
Perfluorotetradecanoic acid	ND		27.5	21.93		ug/Kg	☼	80	62 - 134
Perfluorobutanesulfonic acid	ND		24.4	23.40		ug/Kg	☼	96	54 - 130
Perfluorohexanesulfonic acid	ND		25.1	21.79		ug/Kg	☼	87	59 - 129
Perfluorooctanesulfonic acid	ND		25.5	22.11		ug/Kg	☼	87	61 - 126
NEtFOSAA	ND		27.5	23.99		ug/Kg	☼	87	57 - 127
NMeFOSAA	ND		27.5	24.75		ug/Kg	☼	90	60 - 134
10:2 FTS	ND		26.5	23.96		ug/Kg	☼	90	46 - 143
Perfluoropentanesulfonic acid	ND		25.8	20.86		ug/Kg	☼	81	57 - 133
Perfluoroheptanesulfonic acid	ND		26.2	22.57		ug/Kg	☼	86	59 - 132
Perfluorononanesulfonic acid	ND		26.4	21.61		ug/Kg	☼	82	60 - 132
Perfluorodecanesulfonic acid	ND		26.5	22.30		ug/Kg	☼	84	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.7	21.85		ug/Kg	☼	82	38 - 145
Perfluorooctanesulfonamide	ND		27.5	24.10		ug/Kg	☼	88	47 - 149
Perfluorohexadecanoic acid	ND		27.5	16.55		ug/Kg	☼	60	38 - 147
Perfluorooctadecanoic acid	ND		27.5	19.21		ug/Kg	☼	70	16 - 160
Perfluorobutanoic acid	ND		27.5	20.95		ug/Kg	☼	76	60 - 128
Perfluoropentanoic acid	ND		27.5	22.65		ug/Kg	☼	82	58 - 134
NMeFOSE	ND		27.5	22.86		ug/Kg	☼	83	60 - 130
NMeFOSA	ND		27.5	24.38		ug/Kg	☼	89	60 - 129
NEtFOSE	ND		27.5	23.71		ug/Kg	☼	86	60 - 126
NEtFOSA	ND		27.5	26.09		ug/Kg	☼	95	60 - 123
HFPODA	ND		27.5	23.73		ug/Kg	☼	86	49 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10080-28 MS **Client Sample ID: 2023-MW-04-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 353839 **Prep Batch: 351205**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	ND		26.0	22.39		ug/Kg	☼	86	57 - 137
9Cl-PF3ONS	ND		25.6	20.89		ug/Kg	☼	82	62 - 130
11Cl-PF3OUdS	ND		25.6	20.57		ug/Kg	☼	80	55 - 135
Perfluorododecanoic acid	ND		27.5	22.93		ug/Kg	☼	83	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.7	22.20		ug/Kg	☼	86	58 - 131
Perfluoroundecanoic acid	ND		27.5	21.85		ug/Kg	☼	79	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.1	22.18		ug/Kg	☼	85	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.4	23.62		ug/Kg	☼	90	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*86*		*10 - 200*
M2-8:2 FTS	*100*		*15 - 200*
M2-6:2 FTS	*99*		*10 - 200*
13C5 PFHxA	*99*		*10 - 174*
13C4 PFHpA	*103*		*10 - 178*
13C8 PFOA	*105*		*26 - 159*
13C9 PFNA	*106*		*26 - 165*
13C6 PFDA	*108*		*26 - 161*
13C7 PFUnA	*119*		*12 - 173*
13C2-PFDoDA	*112*		*11 - 166*
13C2 PFTeDA	*132*		*10 - 169*
13C3 PFBS	*108*		*27 - 179*
13C3 PFHxS	*105*		*24 - 171*
13C8 PFOS	*111*		*41 - 154*
d3-NMeFOSAA	*56*		*10 - 178*
d5-NEtFOSAA	*62*		*10 - 193*
13C8 FOSA	*105*		*14 - 163*
13C4 PFBA	*105*		*28 - 153*
13C5 PFPeA	*99*		*24 - 161*
d7-N-MeFOSE-M	*116*		*10 - 179*
d3-NMePFOSA	*102*		*10 - 175*
d9-N-EtFOSE-M	*114*		*10 - 185*
d5-NEtPFOSA	*104*		*10 - 180*
13C3 HFPO-DA	*87*		*10 - 169*

Lab Sample ID: 620-10080-28 MSD **Client Sample ID: 2023-MW-04-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 353839 **Prep Batch: 351205**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.8	23.58		ug/Kg	☼	85	59 - 132	8	30
Perfluoroheptanoic acid	ND		27.8	24.10		ug/Kg	☼	87	59 - 137	5	30
Perfluorooctanoic acid	ND		27.8	23.80		ug/Kg	☼	86	59 - 131	9	30
Perfluorononanoic acid	ND		27.8	25.20		ug/Kg	☼	91	61 - 134	6	30
Perfluorodecanoic acid	ND		27.8	24.37		ug/Kg	☼	88	56 - 133	6	30
Perfluorotridecanoic acid	ND		27.8	26.58		ug/Kg	☼	96	53 - 143	11	30
Perfluorotetradecanoic acid	ND		27.8	23.91		ug/Kg	☼	86	62 - 134	9	30
Perfluorobutanesulfonic acid	ND		24.6	23.56		ug/Kg	☼	96	54 - 130	1	30
Perfluorohexanesulfonic acid	ND		25.4	22.29		ug/Kg	☼	88	59 - 129	2	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	ND		25.7	23.05		ug/Kg	☼	90	61 - 126	4	30
NEtFOSAA	ND		27.8	28.16		ug/Kg	☼	101	57 - 127	16	30
NMeFOSAA	ND		27.8	25.79		ug/Kg	☼	93	60 - 134	4	30
10:2 FTS	ND		26.8	24.31		ug/Kg	☼	91	46 - 143	1	30
Perfluoropentanesulfonic acid	ND		26.1	21.44		ug/Kg	☼	82	57 - 133	3	30
Perfluoroheptanesulfonic acid	ND		26.5	22.13		ug/Kg	☼	84	59 - 132	2	30
Perfluorononanesulfonic acid	ND		26.7	23.17		ug/Kg	☼	87	60 - 132	7	30
Perfluorodecanesulfonic acid	ND		26.8	23.98		ug/Kg	☼	89	57 - 132	7	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.9	22.19		ug/Kg	☼	82	38 - 145	2	30
Perfluorooctanesulfonamide	ND		27.8	24.16		ug/Kg	☼	87	47 - 149	0	30
Perfluorohexadecanoic acid	ND		27.8	17.15		ug/Kg	☼	62	38 - 147	4	30
Perfluorooctadecanoic acid	ND		27.8	19.83		ug/Kg	☼	71	16 - 160	3	30
Perfluorobutanoic acid	ND		27.8	21.52		ug/Kg	☼	77	60 - 128	3	30
Perfluoropentanoic acid	ND		27.8	23.78		ug/Kg	☼	86	58 - 134	5	30
NMeFOSE	ND		27.8	24.36		ug/Kg	☼	88	60 - 130	6	30
NMeFOSA	ND		27.8	23.99		ug/Kg	☼	86	60 - 129	2	30
NEtFOSE	ND		27.8	24.44		ug/Kg	☼	88	60 - 126	3	30
NEtFOSA	ND		27.8	26.14		ug/Kg	☼	94	60 - 123	0	30
HFPODA	ND		27.8	26.11		ug/Kg	☼	94	49 - 135	10	30
DONA	ND		26.3	22.73		ug/Kg	☼	87	57 - 137	2	30
9Cl-PF3ONS	ND		25.9	22.78		ug/Kg	☼	88	62 - 130	9	30
11Cl-PF3OUdS	ND		25.9	22.45		ug/Kg	☼	87	55 - 135	9	30
Perfluorododecanoic acid	ND		27.8	23.84		ug/Kg	☼	86	60 - 135	4	30
4:2 Fluorotelomer sulfonic acid	ND		26.0	23.88		ug/Kg	☼	92	58 - 131	7	30
Perfluoroundecanoic acid	ND		27.8	24.71		ug/Kg	☼	89	60 - 134	12	30
6:2 Fluorotelomer sulfonic acid	ND		26.4	22.55		ug/Kg	☼	86	59 - 135	2	30
8:2 Fluorotelomer sulfonic acid	ND		26.6	24.23		ug/Kg	☼	91	55 - 133	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*89*		*10 - 200*
M2-8:2 FTS	*96*		*15 - 200*
M2-6:2 FTS	*102*		*10 - 200*
13C5 PFHxA	*107*		*10 - 174*
13C4 PFHpA	*108*		*10 - 178*
13C8 PFOA	*108*		*26 - 159*
13C9 PFNA	*109*		*26 - 165*
13C6 PFDA	*109*		*26 - 161*
13C7 PFUnA	*116*		*12 - 173*
13C2-PFDoDA	*105*		*11 - 166*
13C2 PFTeDA	*130*		*10 - 169*
13C3 PFBS	*114*		*27 - 179*
13C3 PFHxS	*109*		*24 - 171*
13C8 PFOS	*112*		*41 - 154*
d3-NMeFOSAA	*92*		*10 - 178*
d5-NEtFOSAA	*94*		*10 - 193*
13C8 FOSA	*104*		*14 - 163*
13C4 PFBA	*110*		*28 - 153*
13C5 PFPeA	*105*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 353839

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351205

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
d7-N-MeFOSE-M	112		10 - 179
d3-NMePFOSA	102		10 - 175
d9-N-EtFOSE-M	116		10 - 185
d5-NEtPFOSA	104		10 - 180
13C3 HFPO-DA	87		10 - 169

Lab Sample ID: MB 410-351207/1-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
HFPODA	ND		2.00	1.00	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
DONA	ND		3.00	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/07/23 22:57	03/16/23 03:47	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/07/23 22:57	03/16/23 03:47	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	100		10 - 200	03/07/23 22:57	03/16/23 03:47	1
M2-8:2 FTS	109		15 - 200	03/07/23 22:57	03/16/23 03:47	1
M2-6:2 FTS	111		10 - 200	03/07/23 22:57	03/16/23 03:47	1
13C5 PFHxA	115		10 - 174	03/07/23 22:57	03/16/23 03:47	1
13C4 PFHpA	122		10 - 178	03/07/23 22:57	03/16/23 03:47	1
13C8 PFOA	121		26 - 159	03/07/23 22:57	03/16/23 03:47	1
13C9 PFNA	115		26 - 165	03/07/23 22:57	03/16/23 03:47	1
13C6 PFDA	108		26 - 161	03/07/23 22:57	03/16/23 03:47	1
13C7 PFUnA	112		12 - 173	03/07/23 22:57	03/16/23 03:47	1
13C2-PFDoDA	108		11 - 166	03/07/23 22:57	03/16/23 03:47	1
13C2 PFTeDA	118		10 - 169	03/07/23 22:57	03/16/23 03:47	1
13C3 PFBS	107		27 - 179	03/07/23 22:57	03/16/23 03:47	1
13C3 PFHxS	121		24 - 171	03/07/23 22:57	03/16/23 03:47	1
13C8 PFOS	109		41 - 154	03/07/23 22:57	03/16/23 03:47	1
d3-NMeFOSAA	106		10 - 178	03/07/23 22:57	03/16/23 03:47	1
d5-NEtFOSAA	99		10 - 193	03/07/23 22:57	03/16/23 03:47	1
13C8 FOSA	78		14 - 163	03/07/23 22:57	03/16/23 03:47	1
13C4 PFBA	104		28 - 153	03/07/23 22:57	03/16/23 03:47	1
13C5 PFPeA	105		24 - 161	03/07/23 22:57	03/16/23 03:47	1
d7-N-MeFOSE-M	65		10 - 179	03/07/23 22:57	03/16/23 03:47	1
d3-NMePFOSA	23		10 - 175	03/07/23 22:57	03/16/23 03:47	1
d9-N-EtFOSE-M	66		10 - 185	03/07/23 22:57	03/16/23 03:47	1
d5-NEtPFOSA	20		10 - 180	03/07/23 22:57	03/16/23 03:47	1
13C3 HFPO-DA	111		10 - 169	03/07/23 22:57	03/16/23 03:47	1

Lab Sample ID: LCS 410-351207/2-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	20.46		ug/Kg		82	59 - 132
Perfluoroheptanoic acid	25.0	22.39		ug/Kg		90	59 - 137
Perfluorooctanoic acid	25.0	23.12		ug/Kg		92	59 - 131
Perfluorononanoic acid	25.0	21.81		ug/Kg		87	61 - 134
Perfluorodecanoic acid	25.0	21.54		ug/Kg		86	56 - 133
Perfluorotridecanoic acid	25.0	22.73		ug/Kg		91	53 - 143
Perfluorotetradecanoic acid	25.0	20.15		ug/Kg		81	62 - 134
Perfluorobutanesulfonic acid	22.1	19.64		ug/Kg		89	54 - 130
Perfluorohexanesulfonic acid	22.8	19.03		ug/Kg		83	59 - 129
Perfluorooctanesulfonic acid	23.1	18.94		ug/Kg		82	61 - 126
NEtFOSAA	25.0	21.54		ug/Kg		86	57 - 127
NMeFOSAA	25.0	21.62		ug/Kg		86	60 - 134
10:2 FTS	24.1	19.35		ug/Kg		80	46 - 143
Perfluoropentanesulfonic acid	23.5	20.06		ug/Kg		86	57 - 133
Perfluoroheptanesulfonic acid	23.8	20.03		ug/Kg		84	59 - 132
Perfluorononanesulfonic acid	24.0	18.38		ug/Kg		77	60 - 132
Perfluorodecanesulfonic acid	24.1	19.00		ug/Kg		79	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.28		ug/Kg		80	38 - 145
Perfluorooctanesulfonamide	25.0	21.28		ug/Kg		85	47 - 149
Perfluorohexadecanoic acid	25.0	21.02		ug/Kg		84	38 - 147
Perfluorooctadecanoic acid	25.0	22.80		ug/Kg		91	16 - 160

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-351207/2-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.0	19.46		ug/Kg		78	60 - 128
Perfluoropentanoic acid	25.0	19.36		ug/Kg		77	58 - 134
NMeFOSE	25.0	22.89		ug/Kg		92	60 - 130
NMeFOSA	25.0	21.47		ug/Kg		86	60 - 129
NEtFOSE	25.0	23.20		ug/Kg		93	60 - 126
NEtFOSA	25.0	22.88		ug/Kg		92	60 - 123
HFPODA	25.0	20.53		ug/Kg		82	49 - 135
DONA	23.6	21.04		ug/Kg		89	57 - 137
9Cl-PF3ONS	23.3	18.36		ug/Kg		79	62 - 130
11Cl-PF3OUdS	23.3	18.65		ug/Kg		80	55 - 135
Perfluorododecanoic acid	25.0	22.03		ug/Kg		88	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.87		ug/Kg		85	58 - 131
Perfluoroundecanoic acid	25.0	20.39		ug/Kg		82	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.76		ug/Kg		88	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	19.78		ug/Kg		83	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*97*		*10 - 200*
M2-8:2 FTS	*115*		*15 - 200*
M2-6:2 FTS	*106*		*10 - 200*
13C5 PFHxA	*116*		*10 - 174*
13C4 PFHpA	*112*		*10 - 178*
13C8 PFOA	*112*		*26 - 159*
13C9 PFNA	*109*		*26 - 165*
13C6 PFDA	*115*		*26 - 161*
13C7 PFUnA	*130*		*12 - 173*
13C2-PFDoDA	*112*		*11 - 166*
13C2 PFTeDA	*128*		*10 - 169*
13C3 PFBS	*106*		*27 - 179*
13C3 PFHxS	*115*		*24 - 171*
13C8 PFOS	*114*		*41 - 154*
d3-NMeFOSAA	*119*		*10 - 178*
d5-NEtFOSAA	*114*		*10 - 193*
13C8 FOSA	*112*		*14 - 163*
13C4 PFBA	*117*		*28 - 153*
13C5 PFPeA	*113*		*24 - 161*
d7-N-MeFOSE-M	*99*		*10 - 179*
d3-NMePFOSA	*71*		*10 - 175*
d9-N-EtFOSE-M	*97*		*10 - 185*
d5-NEtPFOSA	*69*		*10 - 180*
13C3 HFPO-DA	*111*		*10 - 169*

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351207

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		27.6	22.41		ug/Kg	☼	81	59 - 132
Perfluoroheptanoic acid	ND		27.6	23.64		ug/Kg	☼	86	59 - 137

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10080-1 MS **Client Sample ID: 2023-MW-07-0002'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 353950 **Prep Batch: 351207**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	ND		27.6	25.87		ug/Kg	☼	94	59 - 131
Perfluorononanoic acid	ND		27.6	22.35		ug/Kg	☼	81	61 - 134
Perfluorodecanoic acid	ND		27.6	21.99		ug/Kg	☼	80	56 - 133
Perfluorotridecanoic acid	ND		27.6	25.43		ug/Kg	☼	92	53 - 143
Perfluorotetradecanoic acid	ND		27.6	22.53		ug/Kg	☼	82	62 - 134
Perfluorobutanesulfonic acid	ND		24.4	21.64		ug/Kg	☼	89	54 - 130
Perfluorohexanesulfonic acid	ND		25.1	20.71		ug/Kg	☼	82	59 - 129
Perfluorooctanesulfonic acid	ND		25.5	20.10		ug/Kg	☼	79	61 - 126
NEtFOSAA	ND		27.6	23.76		ug/Kg	☼	86	57 - 127
NMeFOSAA	ND		27.6	25.57		ug/Kg	☼	93	60 - 134
10:2 FTS	ND		26.6	23.00		ug/Kg	☼	87	46 - 143
Perfluoropentanesulfonic acid	ND		25.9	21.60		ug/Kg	☼	84	57 - 133
Perfluoroheptanesulfonic acid	ND		26.2	20.59		ug/Kg	☼	78	59 - 132
Perfluorononanesulfonic acid	ND		26.5	19.93		ug/Kg	☼	75	60 - 132
Perfluorodecanesulfonic acid	ND		26.6	19.14		ug/Kg	☼	72	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		26.7	17.78		ug/Kg	☼	67	38 - 145
Perfluorooctanesulfonamide	ND		27.6	24.63		ug/Kg	☼	89	47 - 149
Perfluorohexadecanoic acid	ND	F2	27.6	23.35		ug/Kg	☼	85	38 - 147
Perfluorooctadecanoic acid	ND		27.6	28.30		ug/Kg	☼	103	16 - 160
Perfluorobutanoic acid	ND		27.6	21.68		ug/Kg	☼	79	60 - 128
Perfluoropentanoic acid	ND		27.6	21.84		ug/Kg	☼	79	58 - 134
NMeFOSE	ND		27.6	23.81		ug/Kg	☼	86	60 - 130
NMeFOSA	ND		27.6	23.97		ug/Kg	☼	87	60 - 129
NEtFOSE	ND		27.6	25.82		ug/Kg	☼	94	60 - 126
NEtFOSA	ND		27.6	24.44		ug/Kg	☼	89	60 - 123
HFPODA	ND		27.6	22.46		ug/Kg	☼	81	49 - 135
DONA	ND		26.1	21.95		ug/Kg	☼	84	57 - 137
9Cl-PF3ONS	ND		25.6	20.40		ug/Kg	☼	80	62 - 130
11Cl-PF3OUdS	ND		25.6	19.55		ug/Kg	☼	76	55 - 135
Perfluorododecanoic acid	ND		27.6	23.37		ug/Kg	☼	85	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.7	21.21		ug/Kg	☼	82	58 - 131
Perfluoroundecanoic acid	ND		27.6	24.77		ug/Kg	☼	90	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		26.1	21.54		ug/Kg	☼	82	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		26.4	22.55		ug/Kg	☼	85	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*86*		*10 - 200*
M2-8:2 FTS	*85*		*15 - 200*
M2-6:2 FTS	*85*		*10 - 200*
13C5 PFHxA	*87*		*10 - 174*
13C4 PFHpA	*88*		*10 - 178*
13C8 PFOA	*84*		*26 - 159*
13C9 PFNA	*90*		*26 - 165*
13C6 PFDA	*92*		*26 - 161*
13C7 PFUnA	*95*		*12 - 173*
13C2-PFDoDA	*87*		*11 - 166*
13C2 PFTeDA	*98*		*10 - 169*
13C3 PFBS	*96*		*27 - 179*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351207

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C3 PFHxS	106		24 - 171
13C8 PFOS	101		41 - 154
d3-NMeFOSAA	57		10 - 178
d5-NEtFOSAA	78		10 - 193
13C8 FOSA	89		14 - 163
13C4 PFBA	81		28 - 153
13C5 PFPeA	79		24 - 161
d7-N-MeFOSE-M	90		10 - 179
d3-NMePFOSA	48		10 - 175
d9-N-EtFOSE-M	87		10 - 185
d5-NEtPFOSA	48		10 - 180
13C3 HFPO-DA	86		10 - 169

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351207

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		27.3	23.96		ug/Kg	☼	88	59 - 132	7	30
Perfluoroheptanoic acid	ND		27.3	23.93		ug/Kg	☼	88	59 - 137	1	30
Perfluorooctanoic acid	ND		27.3	25.44		ug/Kg	☼	93	59 - 131	2	30
Perfluorononanoic acid	ND		27.3	24.26		ug/Kg	☼	89	61 - 134	8	30
Perfluorodecanoic acid	ND		27.3	23.72		ug/Kg	☼	87	56 - 133	8	30
Perfluorotridecanoic acid	ND		27.3	23.44		ug/Kg	☼	86	53 - 143	8	30
Perfluorotetradecanoic acid	ND		27.3	24.29		ug/Kg	☼	89	62 - 134	8	30
Perfluorobutanesulfonic acid	ND		24.2	21.53		ug/Kg	☼	89	54 - 130	0	30
Perfluorohexanesulfonic acid	ND		24.9	21.09		ug/Kg	☼	85	59 - 129	2	30
Perfluorooctanesulfonic acid	ND		25.3	22.41		ug/Kg	☼	89	61 - 126	11	30
NEtFOSAA	ND		27.3	26.16		ug/Kg	☼	96	57 - 127	10	30
NMeFOSAA	ND		27.3	23.85		ug/Kg	☼	87	60 - 134	7	30
10:2 FTS	ND		26.3	18.08		ug/Kg	☼	69	46 - 143	24	30
Perfluoropentanesulfonic acid	ND		25.6	22.28		ug/Kg	☼	87	57 - 133	3	30
Perfluoroheptanesulfonic acid	ND		26.0	21.23		ug/Kg	☼	82	59 - 132	3	30
Perfluorononanesulfonic acid	ND		26.2	21.57		ug/Kg	☼	82	60 - 132	8	30
Perfluorodecanesulfonic acid	ND		26.3	19.40		ug/Kg	☼	74	57 - 132	1	30
Perfluorododecanesulfonic acid (PFDoS)	ND		26.4	17.63		ug/Kg	☼	67	38 - 145	1	30
Perfluorooctanesulfonamide	ND		27.3	24.59		ug/Kg	☼	90	47 - 149	0	30
Perfluorohexadecanoic acid	ND	F2	27.3	16.36	F2	ug/Kg	☼	60	38 - 147	35	30
Perfluorooctadecanoic acid	ND		27.3	23.83		ug/Kg	☼	87	16 - 160	17	30
Perfluorobutanoic acid	ND		27.3	21.85		ug/Kg	☼	80	60 - 128	1	30
Perfluoropentanoic acid	ND		27.3	20.74		ug/Kg	☼	76	58 - 134	5	30
NMeFOSE	ND		27.3	25.13		ug/Kg	☼	92	60 - 130	5	30
NMeFOSA	ND		27.3	25.03		ug/Kg	☼	92	60 - 129	4	30
NEtFOSE	ND		27.3	25.67		ug/Kg	☼	94	60 - 126	1	30
NEtFOSA	ND		27.3	24.83		ug/Kg	☼	91	60 - 123	2	30
HFPODA	ND		27.3	24.81		ug/Kg	☼	91	49 - 135	10	30
DONA	ND		25.8	23.06		ug/Kg	☼	89	57 - 137	5	30
9Cl-PF3ONS	ND		25.4	20.99		ug/Kg	☼	83	62 - 130	3	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351207

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11Cl-PF3OUdS	ND		25.4	20.23		ug/Kg	☼	80	55 - 135	3	30
Perfluorododecanoic acid	ND		27.3	25.14		ug/Kg	☼	92	60 - 135	7	30
4:2 Fluorotelomer sulfonic acid	ND		25.5	22.27		ug/Kg	☼	87	58 - 131	5	30
Perfluoroundecanoic acid	ND		27.3	25.07		ug/Kg	☼	92	60 - 134	1	30
6:2 Fluorotelomer sulfonic acid	ND		25.9	22.11		ug/Kg	☼	85	59 - 135	3	30
8:2 Fluorotelomer sulfonic acid	ND		26.2	22.93		ug/Kg	☼	88	55 - 133	2	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*84*		*10 - 200*
M2-8:2 FTS	*125*		*15 - 200*
M2-6:2 FTS	*91*		*10 - 200*
13C5 PFHxA	*69*		*10 - 174*
13C4 PFHpA	*70*		*10 - 178*
13C8 PFOA	*73*		*26 - 159*
13C9 PFNA	*82*		*26 - 165*
13C6 PFDA	*80*		*26 - 161*
13C7 PFUnA	*70*		*12 - 173*
13C2-PFDoDA	*72*		*11 - 166*
13C2 PFTeDA	*79*		*10 - 169*
13C3 PFBS	*87*		*27 - 179*
13C3 PFHxS	*93*		*24 - 171*
13C8 PFOS	*94*		*41 - 154*
d3-NMeFOSAA	*44*		*10 - 178*
d5-NEtFOSAA	*46*		*10 - 193*
13C8 FOSA	*60*		*14 - 163*
13C4 PFBA	*70*		*28 - 153*
13C5 PFPeA	*69*		*24 - 161*
d7-N-MeFOSE-M	*55*		*10 - 179*
d3-NMePFOSA	*13*		*10 - 175*
d9-N-EtFOSE-M	*53*		*10 - 185*
d5-NEtPFOSA	*14*		*10 - 180*
13C3 HFPO-DA	*78*		*10 - 169*

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
HFPODA	ND		2.00	1.00	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
DONA	ND		3.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-8:2 FTS	*130*		*15 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-6:2 FTS	*139*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFHxA	*136*		*10 - 174*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFHpA	*146*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOA	*144*		*26 - 159*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C9 PFNA	*131*		*26 - 165*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C6 PFDA	*136*		*26 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C7 PFUnA	*139*		*12 - 173*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2-PFDoDA	*138*		*11 - 166*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFHxS	*150*		*24 - 171*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMeFOSAA	*114*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtFOSAA	*114*		*10 - 193*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 FOSA	*77*		*14 - 163*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFBA	*114*		*28 - 153*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFPeA	*118*		*24 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d7-N-MeFOSE-M	*68*		*10 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMePFOSA	*25*		*10 - 175*	*03/20/23 00:33*	*03/21/23 03:34*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d9-N-EtFOSE-M	73		10 - 185	03/20/23 00:33	03/21/23 03:34	1
d5-NEtPFOSA	26		10 - 180	03/20/23 00:33	03/21/23 03:34	1
13C3 HFPO-DA	124		10 - 169	03/20/23 00:33	03/21/23 03:34	1

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	18.06		ug/Kg		72	59 - 132
Perfluoroheptanoic acid	25.0	19.47		ug/Kg		78	59 - 137
Perfluorooctanoic acid	25.0	18.41		ug/Kg		74	59 - 131
Perfluorononanoic acid	25.0	20.12		ug/Kg		80	61 - 134
Perfluorodecanoic acid	25.0	18.34		ug/Kg		73	56 - 133
Perfluorotridecanoic acid	25.0	19.39		ug/Kg		78	53 - 143
Perfluorotetradecanoic acid	25.0	18.76		ug/Kg		75	62 - 134
Perfluorobutanesulfonic acid	22.1	17.21		ug/Kg		78	54 - 130
Perfluorohexanesulfonic acid	22.8	16.76		ug/Kg		74	59 - 129
Perfluorooctanesulfonic acid	23.1	17.28		ug/Kg		75	61 - 126
NEtFOSAA	25.0	20.51		ug/Kg		82	57 - 127
NMeFOSAA	25.0	21.10		ug/Kg		84	60 - 134
10:2 FTS	24.1	16.95		ug/Kg		70	46 - 143
Perfluoropentanesulfonic acid	23.5	17.61		ug/Kg		75	57 - 133
Perfluoroheptanesulfonic acid	23.8	18.09		ug/Kg		76	59 - 132
Perfluorononanesulfonic acid	24.0	18.24		ug/Kg		76	60 - 132
Perfluorodecanesulfonic acid	24.1	19.20		ug/Kg		80	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	18.47		ug/Kg		76	38 - 145
Perfluorooctanesulfonamide	25.0	19.43		ug/Kg		78	47 - 149
Perfluorohexadecanoic acid	25.0	16.54		ug/Kg		66	38 - 147
Perfluorooctadecanoic acid	25.0	17.26		ug/Kg		69	16 - 160
Perfluorobutanoic acid	25.0	17.18		ug/Kg		69	60 - 128
Perfluoropentanoic acid	25.0	17.58		ug/Kg		70	58 - 134
NMeFOSE	25.0	20.91		ug/Kg		84	60 - 130
NMeFOSA	25.0	20.01		ug/Kg		80	60 - 129
NEtFOSE	25.0	18.38		ug/Kg		74	60 - 126
NEtFOSA	25.0	20.72		ug/Kg		83	60 - 123
HFPODA	25.0	19.86		ug/Kg		79	49 - 135
DONA	23.6	17.05		ug/Kg		72	57 - 137
9Cl-PF3ONS	23.3	17.98		ug/Kg		77	62 - 130
11Cl-PF3OUdS	23.3	17.23		ug/Kg		74	55 - 135
Perfluorododecanoic acid	25.0	18.00		ug/Kg		72	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.57		ug/Kg		84	58 - 131
Perfluoroundecanoic acid	25.0	18.88		ug/Kg		76	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	17.47		ug/Kg		74	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.38		ug/Kg		77	55 - 133

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	115		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-8:2 FTS	126		15 - 200
M2-6:2 FTS	117		10 - 200
13C5 PFHxA	129		10 - 174
13C4 PFHpA	129		10 - 178
13C8 PFOA	130		26 - 159
13C9 PFNA	126		26 - 165
13C6 PFDA	131		26 - 161
13C7 PFUnA	138		12 - 173
13C2-PFDoDA	130		11 - 166
13C2 PFTeDA	139		10 - 169
13C3 PFBS	136		27 - 179
13C3 PFHxS	139		24 - 171
13C8 PFOS	133		41 - 154
d3-NMeFOSAA	123		10 - 178
d5-NEtFOSAA	126		10 - 193
13C8 FOSA	76		14 - 163
13C4 PFBA	118		28 - 153
13C5 PFPeA	120		24 - 161
d7-N-MeFOSE-M	69		10 - 179
d3-NMePFOSA	53		10 - 175
d9-N-EtFOSE-M	79		10 - 185
d5-NEtPFOSA	50		10 - 180
13C3 HFPO-DA	112		10 - 169

Lab Sample ID: MB 410-356793/1-B
Matrix: Solid
Analysis Batch: 357670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-356793/1-B
Matrix: Solid
Analysis Batch: 357670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
HFPODA	ND		2.00	1.00	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
DONA	ND		3.00	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/23/23 15:12	03/27/23 19:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/23/23 15:12	03/27/23 19:30	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*126*		*10 - 200*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
M2-8:2 FTS	*113*		*15 - 200*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
M2-6:2 FTS	*123*		*10 - 200*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C5 PFHxA	*112*		*10 - 174*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C4 PFHpA	*125*		*10 - 178*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C8 PFOA	*111*		*26 - 159*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C9 PFNA	*117*		*26 - 165*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C6 PFDA	*113*		*26 - 161*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C7 PFUnA	*109*		*12 - 173*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C2-PFDoDA	*106*		*11 - 166*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C2 PFTeDA	*105*		*10 - 169*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C3 PFBS	*118*		*27 - 179*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C3 PFHxS	*112*		*24 - 171*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C8 PFOS	*115*		*41 - 154*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
d3-NMeFOSAA	*89*		*10 - 178*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
d5-NEtFOSAA	*95*		*10 - 193*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C4 PFBA	*109*		*28 - 153*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C5 PFPeA	*119*		*24 - 161*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
d7-N-MeFOSE-M	*95*		*10 - 179*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
d3-NMePFOSA	*91*		*10 - 175*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
d9-N-EtFOSE-M	*92*		*10 - 185*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/23/23 15:12*	*03/27/23 19:30*	*1*
13C3 HFPO-DA	*103*		*10 - 169*	*03/23/23 15:12*	*03/27/23 19:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-356793/2-B
Matrix: Solid
Analysis Batch: 357670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	24.36		ug/Kg		97	59 - 132
Perfluoroheptanoic acid	25.0	26.03		ug/Kg		104	59 - 137
Perfluorooctanoic acid	25.0	21.71		ug/Kg		87	59 - 131
Perfluorononanoic acid	25.0	28.23		ug/Kg		113	61 - 134
Perfluorodecanoic acid	25.0	24.59		ug/Kg		98	56 - 133
Perfluorotridecanoic acid	25.0	25.92		ug/Kg		104	53 - 143
Perfluorotetradecanoic acid	25.0	24.10		ug/Kg		96	62 - 134
Perfluorobutanesulfonic acid	22.1	22.74		ug/Kg		103	54 - 130
Perfluorohexanesulfonic acid	22.8	21.75		ug/Kg		95	59 - 129
Perfluorooctanesulfonic acid	23.1	22.90		ug/Kg		99	61 - 126
NEtFOSAA	25.0	27.18		ug/Kg		109	57 - 127
NMeFOSAA	25.0	30.05		ug/Kg		120	60 - 134
10:2 FTS	24.1	24.93		ug/Kg		103	46 - 143
Perfluoropentanesulfonic acid	23.5	25.23		ug/Kg		108	57 - 133
Perfluoroheptanesulfonic acid	23.8	22.42		ug/Kg		94	59 - 132
Perfluorononanesulfonic acid	24.0	23.14		ug/Kg		96	60 - 132
Perfluorodecanesulfonic acid	24.1	23.44		ug/Kg		97	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.55		ug/Kg		89	38 - 145
Perfluorooctanesulfonamide	25.0	25.08		ug/Kg		100	47 - 149
Perfluorohexadecanoic acid	25.0	20.39		ug/Kg		82	38 - 147
Perfluorooctadecanoic acid	25.0	22.03		ug/Kg		88	16 - 160
Perfluorobutanoic acid	25.0	23.26		ug/Kg		93	60 - 128
Perfluoropentanoic acid	25.0	23.26		ug/Kg		93	58 - 134
NMeFOSE	25.0	25.03		ug/Kg		100	60 - 130
NMeFOSA	25.0	26.83		ug/Kg		107	60 - 129
NEtFOSE	25.0	23.37		ug/Kg		93	60 - 126
NEtFOSA	25.0	26.30		ug/Kg		105	60 - 123
HFPODA	25.0	26.22		ug/Kg		105	49 - 135
DONA	23.6	21.84		ug/Kg		92	57 - 137
9Cl-PF3ONS	23.3	23.30		ug/Kg		100	62 - 130
11Cl-PF3OUdS	23.3	22.63		ug/Kg		97	55 - 135
Perfluorododecanoic acid	25.0	24.15		ug/Kg		97	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	25.31		ug/Kg		108	58 - 131
Perfluoroundecanoic acid	25.0	27.93		ug/Kg		112	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	21.83		ug/Kg		92	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	29.26		ug/Kg		122	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*108*		*10 - 200*
M2-8:2 FTS	*103*		*15 - 200*
M2-6:2 FTS	*119*		*10 - 200*
13C5 PFHxA	*112*		*10 - 174*
13C4 PFHpA	*112*		*10 - 178*
13C8 PFOA	*116*		*26 - 159*
13C9 PFNA	*114*		*26 - 165*
13C6 PFDA	*114*		*26 - 161*
13C7 PFUnA	*105*		*12 - 173*
13C2-PFDoDA	*111*		*11 - 166*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-356793/2-B
Matrix: Solid
Analysis Batch: 357670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356793

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	120		10 - 169
13C3 PFBS	111		27 - 179
13C3 PFHxS	115		24 - 171
13C8 PFOS	115		41 - 154
d3-NMeFOSAA	102		10 - 178
d5-NEtFOSAA	103		10 - 193
13C8 FOSA	108		14 - 163
13C4 PFBA	110		28 - 153
13C5 PFPeA	118		24 - 161
d7-N-MeFOSE-M	105		10 - 179
d3-NMePFOSA	84		10 - 175
d9-N-EtFOSE-M	102		10 - 185
d5-NEtPFOSA	88		10 - 180
13C3 HFPO-DA	101		10 - 169

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-351221/1-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Barium	ND		0.500	0.150	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Beryllium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Lead	ND		1.50	0.600	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Zinc	ND		2.00	0.800	mg/Kg		03/08/23 00:33	03/10/23 02:42	1

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.640		mg/Kg		96	80 - 120
Arsenic	50.0	50.46		mg/Kg		101	80 - 120
Barium	50.0	50.72		mg/Kg		101	80 - 120
Beryllium	5.00	4.958		mg/Kg		99	80 - 120
Cadmium	5.00	4.901		mg/Kg		98	80 - 120
Chromium	50.0	51.79		mg/Kg		104	80 - 120
Lead	5.00	5.429		mg/Kg		109	80 - 120
Nickel	50.0	50.07		mg/Kg		100	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	10.0	9.637		mg/Kg		96	80 - 120
Silver	5.00	5.267	^3+	mg/Kg		105	80 - 120
Thallium	10.0	10.00		mg/Kg		100	80 - 120
Vanadium	50.0	49.21		mg/Kg		98	80 - 120
Zinc	50.0	48.91		mg/Kg		98	80 - 120

Lab Sample ID: MB 410-351493/1-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Arsenic	ND		3.00	1.40	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Barium	ND		0.500	0.150	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Beryllium	ND		0.500	0.100	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Cadmium	ND		0.500	0.100	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Chromium	ND		1.50	0.350	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Lead	ND		1.50	0.600	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Nickel	ND		1.00	0.260	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Selenium	ND		5.00	1.50	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Thallium	ND		3.00	1.30	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Vanadium	ND		1.00	0.430	mg/Kg		03/08/23 13:50	03/09/23 13:38	1
Zinc	ND		2.00	0.800	mg/Kg		03/08/23 13:50	03/09/23 13:38	1

Lab Sample ID: LCS 410-351493/2-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.866		mg/Kg		99	80 - 120
Arsenic	50.0	49.63		mg/Kg		99	80 - 120
Barium	50.0	50.28		mg/Kg		101	80 - 120
Beryllium	5.00	4.964		mg/Kg		99	80 - 120
Cadmium	5.00	4.991		mg/Kg		100	80 - 120
Chromium	50.0	50.89		mg/Kg		102	80 - 120
Lead	5.00	5.443		mg/Kg		109	80 - 120
Nickel	50.0	51.10		mg/Kg		102	80 - 120
Selenium	10.0	9.845		mg/Kg		98	80 - 120
Silver	5.00	5.279	^3+	mg/Kg		106	80 - 120
Thallium	10.0	10.49		mg/Kg		105	80 - 120
Vanadium	50.0	48.98		mg/Kg		98	80 - 120
Zinc	50.0	48.63		mg/Kg		97	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351640/1-A
Matrix: Solid
Analysis Batch: 352137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Arsenic	ND		3.00	1.40	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Barium	ND		0.500	0.150	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Beryllium	ND		0.500	0.100	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Cadmium	ND		0.500	0.100	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Chromium	ND		1.50	0.350	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Lead	ND	^3+	1.50	0.600	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Nickel	ND		1.00	0.260	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Selenium	ND		5.00	1.50	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Silver	ND		1.00	0.400	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Thallium	ND		3.00	1.30	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Vanadium	ND		1.00	0.430	mg/Kg		03/08/23 20:04	03/09/23 20:10	1
Zinc	ND		2.00	0.800	mg/Kg		03/08/23 20:04	03/09/23 20:10	1

Lab Sample ID: LCS 410-351640/2-A
Matrix: Solid
Analysis Batch: 352137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.90		mg/Kg		109	80 - 120
Arsenic	50.0	48.78		mg/Kg		98	80 - 120
Barium	50.0	49.85		mg/Kg		100	80 - 120
Beryllium	5.00	4.858		mg/Kg		97	80 - 120
Cadmium	5.00	5.028		mg/Kg		101	80 - 120
Chromium	50.0	50.71		mg/Kg		101	80 - 120
Nickel	50.0	51.53		mg/Kg		103	80 - 120
Selenium	10.0	9.303		mg/Kg		93	80 - 120
Silver	5.00	5.483		mg/Kg		110	80 - 120
Thallium	10.0	9.955		mg/Kg		100	80 - 120
Vanadium	50.0	48.98		mg/Kg		98	80 - 120
Zinc	50.0	48.68		mg/Kg		97	80 - 120

Lab Sample ID: LCS 410-351640/2-A
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	5.00	4.600		mg/Kg		92	80 - 120

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 352137

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		11.4	11.25		mg/Kg	☼	98	75 - 125
Arsenic	2.48	J	57.2	58.24		mg/Kg	☼	97	75 - 125
Barium	17.7		57.2	77.34		mg/Kg	☼	104	75 - 125
Beryllium	0.163	J	5.72	5.831		mg/Kg	☼	99	75 - 125
Cadmium	ND		5.72	5.712		mg/Kg	☼	100	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 352137

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	3.87		57.2	61.15		mg/Kg	☼	100	75 - 125
Nickel	1.76		57.2	60.34		mg/Kg	☼	102	75 - 125
Selenium	ND		11.4	11.53		mg/Kg	☼	101	75 - 125
Silver	ND		5.72	6.304		mg/Kg	☼	110	75 - 125
Thallium	2.16	J	11.4	14.08		mg/Kg	☼	104	75 - 125
Vanadium	6.04		57.2	62.18		mg/Kg	☼	98	75 - 125
Zinc	19.8		57.2	74.14		mg/Kg	☼	95	75 - 125

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	3.20		5.72	8.530		mg/Kg	☼	93	75 - 125

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 352137

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		10.5	10.75		mg/Kg	☼	102	75 - 125	5	30
Arsenic	2.48	J	52.6	53.25		mg/Kg	☼	96	75 - 125	9	30
Barium	17.7		52.6	73.83		mg/Kg	☼	107	75 - 125	5	30
Beryllium	0.163	J	5.26	5.318		mg/Kg	☼	98	75 - 125	9	30
Cadmium	ND		5.26	5.242		mg/Kg	☼	100	75 - 125	9	30
Chromium	3.87		52.6	57.12		mg/Kg	☼	101	75 - 125	7	30
Nickel	1.76		52.6	54.56		mg/Kg	☼	100	75 - 125	10	30
Selenium	ND		10.5	9.234		mg/Kg	☼	88	75 - 125	22	30
Silver	ND		5.26	5.757		mg/Kg	☼	109	75 - 125	9	30
Thallium	2.16	J	10.5	12.81		mg/Kg	☼	101	75 - 125	9	30
Vanadium	6.04		52.6	58.49		mg/Kg	☼	100	75 - 125	6	30
Zinc	19.8		52.6	70.88		mg/Kg	☼	97	75 - 125	4	30

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	3.20		5.26	7.956		mg/Kg	☼	90	75 - 125	7	30

Lab Sample ID: MB 410-351673/1-A
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Arsenic	ND		3.00	1.40	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Barium	ND		0.500	0.150	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Beryllium	ND		0.500	0.100	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Cadmium	ND		0.500	0.100	mg/Kg		03/09/23 00:11	03/13/23 18:22	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351673/1-A
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.50	0.350	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Lead	ND		1.50	0.600	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Nickel	ND		1.00	0.260	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Selenium	ND		5.00	1.50	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Thallium	ND		3.00	1.30	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Vanadium	ND		1.00	0.430	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Zinc	ND		2.00	0.800	mg/Kg		03/09/23 00:11	03/13/23 18:22	1

Lab Sample ID: LCS 410-351673/2-A
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.04		mg/Kg		100	80 - 120
Arsenic	50.0	50.98		mg/Kg		102	80 - 120
Barium	50.0	49.92		mg/Kg		100	80 - 120
Beryllium	5.00	5.070		mg/Kg		101	80 - 120
Cadmium	5.00	5.003		mg/Kg		100	80 - 120
Chromium	50.0	51.26		mg/Kg		103	80 - 120
Lead	5.00	5.469		mg/Kg		109	80 - 120
Nickel	50.0	50.64		mg/Kg		101	80 - 120
Selenium	10.0	10.29		mg/Kg		103	80 - 120
Silver	5.00	5.340	^3+	mg/Kg		107	80 - 120
Thallium	10.0	10.29		mg/Kg		103	80 - 120
Vanadium	50.0	49.36		mg/Kg		99	80 - 120
Zinc	50.0	49.11	^5-	mg/Kg		98	80 - 120

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		10.5	9.628		mg/Kg	☼	92	75 - 125
Arsenic	8.50		52.6	61.46		mg/Kg	☼	101	75 - 125
Barium	162	F1	52.6	205.7		mg/Kg	☼	83	75 - 125
Beryllium	0.282	J	5.26	5.690		mg/Kg	☼	103	75 - 125
Cadmium	ND		5.26	5.254		mg/Kg	☼	100	75 - 125
Chromium	4.93		52.6	58.74		mg/Kg	☼	102	75 - 125
Lead	19.3	F1	5.26	24.55		mg/Kg	☼	100	75 - 125
Nickel	2.34		52.6	54.79		mg/Kg	☼	100	75 - 125
Selenium	ND		10.5	10.92		mg/Kg	☼	104	75 - 125
Silver	ND	^3+	5.26	5.553	^3+	mg/Kg	☼	106	75 - 125
Thallium	ND	F1	10.5	7.876		mg/Kg	☼	75	75 - 125
Vanadium	9.18		52.6	61.15		mg/Kg	☼	99	75 - 125
Zinc	17.3		52.6	67.92		mg/Kg	☼	96	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		9.87	8.987		mg/Kg	☼	91	75 - 125	7	30
Arsenic	8.50		49.3	56.75		mg/Kg	☼	98	75 - 125	8	30
Barium	162	F1	49.3	190.5	F1	mg/Kg	☼	58	75 - 125	8	30
Beryllium	0.282	J	4.93	5.299		mg/Kg	☼	102	75 - 125	7	30
Cadmium	ND		4.93	4.811		mg/Kg	☼	98	75 - 125	9	30
Chromium	4.93		49.3	54.99		mg/Kg	☼	101	75 - 125	7	30
Lead	19.3	F1	4.93	26.65	F1	mg/Kg	☼	149	75 - 125	8	30
Nickel	2.34		49.3	50.57		mg/Kg	☼	98	75 - 125	8	30
Selenium	ND		9.87	9.482		mg/Kg	☼	96	75 - 125	14	30
Silver	ND	^3+	4.93	5.140	^3+	mg/Kg	☼	104	75 - 125	8	30
Thallium	ND	F1	9.87	6.666	F1	mg/Kg	☼	68	75 - 125	17	30
Vanadium	9.18		49.3	57.17		mg/Kg	☼	97	75 - 125	7	30
Zinc	17.3		49.3	64.52		mg/Kg	☼	96	75 - 125	5	30

Lab Sample ID: 620-10080-7 MS
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	13.1	10.81		mg/Kg	☼	83	75 - 125
Arsenic	6.27		65.4	71.54		mg/Kg	☼	100	75 - 125
Barium	51.4	F1	65.4	119.9		mg/Kg	☼	105	75 - 125
Beryllium	0.637		6.54	7.494		mg/Kg	☼	105	75 - 125
Cadmium	1.02		6.54	6.905		mg/Kg	☼	90	75 - 125
Chromium	12.7		65.4	79.39		mg/Kg	☼	102	75 - 125
Lead	17.0	F1 F2	6.54	31.21	F1	mg/Kg	☼	218	75 - 125
Nickel	7.32		65.4	71.38		mg/Kg	☼	98	75 - 125
Selenium	ND		13.1	13.47		mg/Kg	☼	103	75 - 125
Vanadium	20.4		65.4	86.28		mg/Kg	☼	101	75 - 125
Zinc	49.7		65.4	127.2		mg/Kg	☼	119	75 - 125

Lab Sample ID: 620-10080-7 MS
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND	^3+	6.54	6.697	J ^3+	mg/Kg	☼	102	75 - 125
Thallium	ND		13.1	ND		mg/Kg	☼	NC	75 - 125

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	11.5	8.346	F1	mg/Kg	☼	72	75 - 125	26	30
Arsenic	6.27		57.6	61.68		mg/Kg	☼	96	75 - 125	15	30
Barium	51.4	F1	57.6	124.3	F1	mg/Kg	☼	127	75 - 125	4	30
Beryllium	0.637		5.76	6.566		mg/Kg	☼	103	75 - 125	13	30
Cadmium	1.02		5.76	5.704		mg/Kg	☼	81	75 - 125	19	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	12.7		57.6	71.72		mg/Kg	☼	102	75 - 125	10	30
Lead	17.0	F1 F2	5.76	21.51	F2	mg/Kg	☼	79	75 - 125	37	30
Nickel	7.32		57.6	62.54		mg/Kg	☼	96	75 - 125	13	30
Selenium	ND		11.5	11.02		mg/Kg	☼	96	75 - 125	20	30
Vanadium	20.4		57.6	81.57		mg/Kg	☼	106	75 - 125	6	30
Zinc	49.7		57.6	105.4		mg/Kg	☼	97	75 - 125	19	30

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND	^3+	5.76	6.249	J ^3+	mg/Kg	☼	108	75 - 125	7	30
Thallium	ND		11.5	ND		mg/Kg	☼	NC	75 - 125	NC	30

Lab Sample ID: 620-10080-7 DU
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND	F1	ND		mg/Kg	☼	NC	30
Arsenic	6.27		6.064		mg/Kg	☼	3	30
Barium	51.4	F1	52.21		mg/Kg	☼	2	30
Beryllium	0.637		0.6394		mg/Kg	☼	0.5	30
Cadmium	1.02		0.6746	F5	mg/Kg	☼	41	30
Chromium	12.7		13.05		mg/Kg	☼	3	30
Lead	17.0	F1 F2	19.27		mg/Kg	☼	13	30
Nickel	7.32		6.875		mg/Kg	☼	6	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Vanadium	20.4		20.38		mg/Kg	☼	0.07	30
Zinc	49.7		56.11		mg/Kg	☼	12	30

Lab Sample ID: 620-10080-7 DU
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-351223/1-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 00:50	03/09/23 08:52	1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 410-351223/2-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351223

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.100	0.1132		mg/Kg		113	80 - 120		

Lab Sample ID: 620-10080-1 MS
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.192		0.176	0.3546		mg/Kg	☼	92	75 - 125		

Lab Sample ID: 620-10080-1 MSD
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: 2023-MW-07-0002'
Prep Type: Total/NA
Prep Batch: 351223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.192		0.173	0.3738		mg/Kg	☼	105	75 - 125	5	35

Lab Sample ID: MB 410-351504/1-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 13:59	03/09/23 08:20	1

Lab Sample ID: LCS 410-351504/2-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351504

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.100	0.1116		mg/Kg		112	80 - 120		

Lab Sample ID: 620-10080-7 MS
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.0418	J	0.227	0.3033		mg/Kg	☼	115	75 - 125		

Lab Sample ID: 620-10080-7 MSD
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-SS-06
Prep Type: Total/NA
Prep Batch: 351504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0418	J	0.216	0.2787		mg/Kg	☼	110	75 - 125	8	35

Lab Sample ID: 620-10080-32 MS
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: 2023-FD-05
Prep Type: Total/NA
Prep Batch: 351504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.180	0.2114		mg/Kg	☼	118	75 - 125		

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 620-10080-32 MSD
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: 2023-FD-05
Prep Type: Total/NA
Prep Batch: 351504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.185	0.2108		mg/Kg	☼	114	75 - 125	0	35

Lab Sample ID: 620-10080-32 DU
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: 2023-FD-05
Prep Type: Total/NA
Prep Batch: 351504

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-351676/1-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/09/23 00:35	03/09/23 07:49	1

Lab Sample ID: LCS 410-351676/2-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1124		mg/Kg		112	80 - 120

Lab Sample ID: MB 410-351677/1-A
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/09/23 23:15	03/10/23 10:46	1

Lab Sample ID: LCS 410-351677/2-A
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1094		mg/Kg		109	80 - 120

Lab Sample ID: 620-10080-28 MS
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.195	0.2142		mg/Kg	☼	110	75 - 125

Lab Sample ID: 620-10080-28 MSD
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: 2023-MW-04-0406'
Prep Type: Total/NA
Prep Batch: 351677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.195	0.2081		mg/Kg	☼	107	75 - 125	3	35

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 620-10080-28 DU **Client Sample ID: 2023-MW-04-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 352388 **Prep Batch: 351677**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		mg/Kg	☼			NC	50

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10080-2 DU **Client Sample ID: 2023-MW-07-0204'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20243

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.1			14.2	F3	%				16	5
Percent Solids	87.9			85.8		%				2	5

Lab Sample ID: 620-10080-20 DU **Client Sample ID: 2023-SB-03-0002'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20243

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.3			8.9	F3	%				20	5
Percent Solids	92.7			91.1		%				2	5

Lab Sample ID: 620-10080-21 DU **Client Sample ID: 2023-SB-03-0204'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20251

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.2			14.8	F3	%				21	5
Percent Solids	81.8			85.2		%				4	5

Lab Sample ID: 620-10080-29 DU **Client Sample ID: 2023-MW-04-0608'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20251

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	25.1			25.1		%				0.06	5
Percent Solids	74.9			74.9		%				0	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

GC/MS VOA

Pre Prep Batch: 20240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1 - RA	2023-MW-07-0002'	Total/NA	Solid	Frozen Preserve	
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	Frozen Preserve	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	Frozen Preserve	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	Frozen Preserve	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	Frozen Preserve	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	Frozen Preserve	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	Frozen Preserve	
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	Frozen Preserve	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	Frozen Preserve	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	Frozen Preserve	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	Frozen Preserve	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	Frozen Preserve	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	Frozen Preserve	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	Frozen Preserve	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	Frozen Preserve	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	Frozen Preserve	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	Frozen Preserve	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	Frozen Preserve	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	Frozen Preserve	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	Frozen Preserve	
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	Frozen Preserve	
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	Frozen Preserve	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	Frozen Preserve	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	Frozen Preserve	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	Frozen Preserve	
620-10080-32	2023-FD-05	Total/NA	Solid	Frozen Preserve	
620-10080-33	Trip Blank-04	Total/NA	Solid	Frozen Preserve	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	Frozen Preserve	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	Frozen Preserve	

GC/MS VOA (Continued)

Pre Prep Batch: 20240 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	Frozen Preserve	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	5035	20240
MB 620-20252/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20252/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20252/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	8260C	20252
MB 620-20252/3-A	Method Blank	Total/NA	Solid	8260C	20252
LCS 620-20252/1-A	Lab Control Sample	Total/NA	Solid	8260C	20252
LCSD 620-20252/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20252

Prep Batch: 20295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	5035	20240
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	5035	20240
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	5035	20240
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	5035	20240
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	5035	20240
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	5035	20240
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	5035	20240
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	5035	20240
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	5035	20240
MB 620-20295/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20295/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20295/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	5035	20240
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	5035	20240
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	5035	20240
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	5035	20240

Analysis Batch: 20296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	8260C	20295
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	8260C	20295
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	8260C	20295
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	8260C	20295
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	8260C	20295
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	8260C	20295
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	8260C	20295
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	8260C	20295
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	8260C	20295
MB 620-20295/3-A	Method Blank	Total/NA	Solid	8260C	20295
LCS 620-20295/1-A	Lab Control Sample	Total/NA	Solid	8260C	20295
LCSD 620-20295/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20295

GC/MS VOA (Continued)

Analysis Batch: 20296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	8260C	20295
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	8260C	20295
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	8260C	20295
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	8260C	20295

Prep Batch: 20322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-7	2023-SS-06	Total/NA	Solid	5035	
620-10080-8	2023-SS-05	Total/NA	Solid	5035	
620-10080-9	2023-SS-04	Total/NA	Solid	5035	
620-10080-10	2023-SS-03	Total/NA	Solid	5035	
620-10080-11	2023-SS-02	Total/NA	Solid	5035	
MB 620-20322/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20322/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20322/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10080-7 MS	2023-SS-06	Total/NA	Solid	5035	
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	5035	

Analysis Batch: 20323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-7	2023-SS-06	Total/NA	Solid	8260C	20322
620-10080-8	2023-SS-05	Total/NA	Solid	8260C	20322
620-10080-9	2023-SS-04	Total/NA	Solid	8260C	20322
620-10080-10	2023-SS-03	Total/NA	Solid	8260C	20322
620-10080-11	2023-SS-02	Total/NA	Solid	8260C	20322
MB 620-20322/3-A	Method Blank	Total/NA	Solid	8260C	20322
LCS 620-20322/1-A	Lab Control Sample	Total/NA	Solid	8260C	20322
LCSD 620-20322/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20322
620-10080-7 MS	2023-SS-06	Total/NA	Solid	8260C	20322
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	8260C	20322

Prep Batch: 20327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1 - RA	2023-MW-07-0002'	Total/NA	Solid	5035	20240
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	5035	20240
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	5035	20240
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	5035	20240
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	5035	20240
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	5035	20240
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	5035	20240
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	5035	20240
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	5035	20240
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	5035	20240
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	5035	20240
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	5035	20240
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	5035	20240
620-10080-32	2023-FD-05	Total/NA	Solid	5035	20240
620-10080-33	Trip Blank-04	Total/NA	Solid	5035	20240
MB 620-20327/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS VOA

Analysis Batch: 20328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1 - RA	2023-MW-07-0002'	Total/NA	Solid	8260C	20327
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	8260C	20327
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	8260C	20327
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	8260C	20327
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	8260C	20327
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	8260C	20327
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	8260C	20327
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	8260C	20327
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	8260C	20327
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	8260C	20327
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	8260C	20327
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	8260C	20327
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	8260C	20327
620-10080-32	2023-FD-05	Total/NA	Solid	8260C	20327
620-10080-33	Trip Blank-04	Total/NA	Solid	8260C	20327
MB 620-20327/3-A	Method Blank	Total/NA	Solid	8260C	20327
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	8260C	20327
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20327

Prep Batch: 20360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	5035	20240
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	5035	20240
MB 620-20360/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20360/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20360/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	8260C	20360
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	8260C	20360
MB 620-20360/3-A	Method Blank	Total/NA	Solid	8260C	20360
LCS 620-20360/1-A	Lab Control Sample	Total/NA	Solid	8260C	20360
LCSD 620-20360/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20360

Prep Batch: 20489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-12 - ME	2023-SS-01	Total/NA	Solid	5035	
620-10080-13 - ME	2023-FD-02	Total/NA	Solid	5035	
MB 620-20489/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20489/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20489/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-12 - ME	2023-SS-01	Total/NA	Solid	8260C	20489
620-10080-13 - ME	2023-FD-02	Total/NA	Solid	8260C	20489
MB 620-20489/3-A	Method Blank	Total/NA	Solid	8260C	20489
LCS 620-20489/1-A	Lab Control Sample	Total/NA	Solid	8260C	20489
LCSD 620-20489/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20489

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

GC/MS Semi VOA

Analysis Batch: 20442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	8270D	20445
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	8270D	20445
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	8270D	20445
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	8270D	20445
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	8270D	20445
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	8270D	20445
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	8270D	20445
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	8270D	20445
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	8270D	20445
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	8270D	20445

Prep Batch: 20445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	3546	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	3546	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	3546	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	3546	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	3546	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	3546	
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	3546	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	3546	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	3546	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	3546	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	3546	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	3546	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	3546	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	3546	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	3546	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	3546	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	3546	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	3546	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	3546	
MB 620-20445/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20445/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20445/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	3546	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	3546	

Prep Batch: 20475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	3546	
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	3546	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	3546	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	3546	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	3546	
620-10080-32	2023-FD-05	Total/NA	Solid	3546	
MB 620-20475/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20475/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20475/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	3546	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	3546	

GC/MS Semi VOA

Analysis Batch: 20495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	8270D	20445
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	8270D	20445
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	8270D	20445
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	8270D	20445
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	8270D	20445
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	8270D	20445
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	8270D	20445
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	8270D	20445
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	8270D	20445
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	8270D	20475
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	8270D	20475
MB 620-20445/1-A	Method Blank	Total/NA	Solid	8270D	20445
MB 620-20475/1-A	Method Blank	Total/NA	Solid	8270D	20475
LCS 620-20445/2-A	Lab Control Sample	Total/NA	Solid	8270D	20445
LCS 620-20475/2-A	Lab Control Sample	Total/NA	Solid	8270D	20475
LCSD 620-20445/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20445
LCSD 620-20475/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20475
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	8270D	20445
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	8270D	20445
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	8270D	20475
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	8270D	20475

Analysis Batch: 20503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	8270D	20475
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	8270D	20475
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	8270D	20475
620-10080-32	2023-FD-05	Total/NA	Solid	8270D	20475

GC VOA

Analysis Batch: 660522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	MAVPH	660571
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	MAVPH	660571
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	MAVPH	660571
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	MAVPH	660571
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	MAVPH	660571
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	MAVPH	660571
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	MAVPH	660571
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	MAVPH	660571
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	MAVPH	660571
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	MAVPH	660571
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	MAVPH	660571
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	MAVPH	660571
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	MAVPH	660571
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	MAVPH	660571
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	MAVPH	660571
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	MAVPH	660571
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	MAVPH	660571
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	MAVPH	660571

GC VOA (Continued)

Analysis Batch: 660522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	MAVPH	660571
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	MAVPH	660571
MB 480-660571/1-A	Method Blank	Total/NA	Solid	MAVPH	660571
LCS 480-660571/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660571
LCSD 480-660571/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660571
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	MAVPH	660571
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	MAVPH	660571

Prep Batch: 660571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	5035A_H	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	5035A_H	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	5035A_H	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	5035A_H	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	5035A_H	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	5035A_H	
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	5035A_H	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	5035A_H	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	5035A_H	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	5035A_H	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	5035A_H	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	5035A_H	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	5035A_H	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	5035A_H	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	5035A_H	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	5035A_H	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	5035A_H	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	5035A_H	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	5035A_H	
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	5035A_H	
MB 480-660571/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660571/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660571/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	5035A_H	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	5035A_H	

Prep Batch: 660655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	5035A_H	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	5035A_H	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	5035A_H	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	5035A_H	
620-10080-32	2023-FD-05	Total/NA	Solid	5035A_H	
MB 480-660655/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660655/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660655/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	5035A_H	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	5035A_H	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

GC VOA

Analysis Batch: 660658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	MAVPH	660655
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	MAVPH	660655
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	MAVPH	660655
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	MAVPH	660655
620-10080-32	2023-FD-05	Total/NA	Solid	MAVPH	660655
MB 480-660655/1-A	Method Blank	Total/NA	Solid	MAVPH	660655
LCS 480-660655/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660655
LCSD 480-660655/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660655
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	MAVPH	660655
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	MAVPH	660655

Analysis Batch: 660702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	MA VPH SUM	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	MA VPH SUM	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	MA VPH SUM	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	MA VPH SUM	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	MA VPH SUM	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	MA VPH SUM	
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	MA VPH SUM	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	MA VPH SUM	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	MA VPH SUM	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	MA VPH SUM	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	MA VPH SUM	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	MA VPH SUM	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	MA VPH SUM	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	MA VPH SUM	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	MA VPH SUM	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	MA VPH SUM	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	MA VPH SUM	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	MA VPH SUM	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	MA VPH SUM	
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	MA VPH SUM	

Analysis Batch: 660809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	MA VPH SUM	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	MA VPH SUM	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	MA VPH SUM	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	MA VPH SUM	
620-10080-32	2023-FD-05	Total/NA	Solid	MA VPH SUM	

GC Semi VOA

Prep Batch: 20278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-7	2023-SS-06	Total/NA	Solid	3546	
620-10080-8	2023-SS-05	Total/NA	Solid	3546	
620-10080-9	2023-SS-04	Total/NA	Solid	3546	
620-10080-10	2023-SS-03	Total/NA	Solid	3546	
620-10080-11	2023-SS-02	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 20278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-12	2023-SS-01	Total/NA	Solid	3546	
620-10080-13	2023-FD-02	Total/NA	Solid	3546	
MB 620-20278/1-B	Method Blank	Total/NA	Solid	3546	
LCS 620-20278/2-B	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20278/3-B	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10080-7 MS	2023-SS-06	Total/NA	Solid	3546	
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	3546	

Prep Batch: 20412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-12	2023-SS-01	Total/NA	Solid	3540C	
620-10080-13	2023-FD-02	Total/NA	Solid	3540C	
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	3540C	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	3540C	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	3540C	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	3540C	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	3540C	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	3540C	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	3540C	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	3540C	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	3540C	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	3540C	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	3540C	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	3540C	
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	3540C	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	3540C	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	3540C	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	3540C	
MB 620-20412/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20412/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20412/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	3540C	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	3540C	

Prep Batch: 20414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-32	2023-FD-05	Total/NA	Solid	3540C	
MB 620-20414/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20414/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20414/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Fraction Batch: 20423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-7	2023-SS-06	Total/NA	Solid	MA EPH Frac	20278
620-10080-8	2023-SS-05	Total/NA	Solid	MA EPH Frac	20278
620-10080-9	2023-SS-04	Total/NA	Solid	MA EPH Frac	20278
620-10080-10	2023-SS-03	Total/NA	Solid	MA EPH Frac	20278
620-10080-11	2023-SS-02	Total/NA	Solid	MA EPH Frac	20278
620-10080-12	2023-SS-01	Total/NA	Solid	MA EPH Frac	20278
620-10080-13	2023-FD-02	Total/NA	Solid	MA EPH Frac	20278
MB 620-20278/1-B	Method Blank	Total/NA	Solid	MA EPH Frac	20278

GC Semi VOA (Continued)

Fraction Batch: 20423 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 620-20278/2-B	Lab Control Sample	Total/NA	Solid	MA EPH Frac	20278
LCSD 620-20278/3-B	Lab Control Sample Dup	Total/NA	Solid	MA EPH Frac	20278
620-10080-7 MS	2023-SS-06	Total/NA	Solid	MA EPH Frac	20278
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	MA EPH Frac	20278

Analysis Batch: 20426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-7	2023-SS-06	Total/NA	Solid	MAEPH2.1	20423
620-10080-8	2023-SS-05	Total/NA	Solid	MAEPH2.1	20423
620-10080-9	2023-SS-04	Total/NA	Solid	MAEPH2.1	20423
620-10080-10	2023-SS-03	Total/NA	Solid	MAEPH2.1	20423
620-10080-11	2023-SS-02	Total/NA	Solid	MAEPH2.1	20423
620-10080-12	2023-SS-01	Total/NA	Solid	MAEPH2.1	20423
620-10080-13	2023-FD-02	Total/NA	Solid	MAEPH2.1	20423
MB 620-20278/1-B	Method Blank	Total/NA	Solid	MAEPH2.1	20423
LCS 620-20278/2-B	Lab Control Sample	Total/NA	Solid	MAEPH2.1	20423
LCSD 620-20278/3-B	Lab Control Sample Dup	Total/NA	Solid	MAEPH2.1	20423
620-10080-7 MS	2023-SS-06	Total/NA	Solid	MAEPH2.1	20423
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	MAEPH2.1	20423

Analysis Batch: 20434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-13	2023-FD-02	Total/NA	Solid	8082	20412
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	8082	20412
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	8082	20412
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	8082	20412
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	8082	20412
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	8082	20412
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	8082	20412
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	8082	20412
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	8082	20412
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	8082	20412
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	8082	20412
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	8082	20412
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	8082	20412
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	8082	20412
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	8082	20412
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	8082	20412
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	8082	20412
620-10080-32	2023-FD-05	Total/NA	Solid	8082	20414
MB 620-20412/1-A	Method Blank	Total/NA	Solid	8082	20412
MB 620-20414/1-A	Method Blank	Total/NA	Solid	8082	20414
LCS 620-20412/2-A	Lab Control Sample	Total/NA	Solid	8082	20412
LCS 620-20414/2-A	Lab Control Sample	Total/NA	Solid	8082	20414
LCSD 620-20412/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20412
LCSD 620-20414/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20414
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	8082	20412
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	8082	20412

GC Semi VOA

Prep Batch: 20450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	3540C	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	3540C	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	3540C	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	3540C	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	3540C	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	3540C	
620-10080-7	2023-SS-06	Total/NA	Solid	3540C	
620-10080-8	2023-SS-05	Total/NA	Solid	3540C	
MB 620-20450/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20450/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20450/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	3540C	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	3540C	
620-10080-7 MS	2023-SS-06	Total/NA	Solid	3540C	
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	3540C	

Prep Batch: 20453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-9	2023-SS-04	Total/NA	Solid	3540C	
620-10080-10	2023-SS-03	Total/NA	Solid	3540C	
620-10080-11	2023-SS-02	Total/NA	Solid	3540C	
MB 620-20453/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20453/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20453/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	8082	20450
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	8082	20450
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	8082	20450
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	8082	20450
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	8082	20450
620-10080-8	2023-SS-05	Total/NA	Solid	8082	20450
620-10080-11	2023-SS-02	Total/NA	Solid	8082	20453
620-10080-12	2023-SS-01	Total/NA	Solid	8082	20412
MB 620-20453/1-A	Method Blank	Total/NA	Solid	8082	20453
LCS 620-20450/2-A	Lab Control Sample	Total/NA	Solid	8082	20450
LCS 620-20453/2-A	Lab Control Sample	Total/NA	Solid	8082	20453
LCSD 620-20450/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20450
LCSD 620-20453/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20453

Prep Batch: 20488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	3540C	
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	3540C	
MB 620-20488/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20488/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20488/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

GC Semi VOA

Analysis Batch: 20508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	8082	20450
620-10080-7	2023-SS-06	Total/NA	Solid	8082	20450
620-10080-9	2023-SS-04	Total/NA	Solid	8082	20453
620-10080-10	2023-SS-03	Total/NA	Solid	8082	20453
MB 620-20450/1-A	Method Blank	Total/NA	Solid	8082	20450
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	8082	20450
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	8082	20450
620-10080-7 MS	2023-SS-06	Total/NA	Solid	8082	20450
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	8082	20450

Analysis Batch: 20558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	8082	20488
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	8082	20488
MB 620-20488/1-A	Method Blank	Total/NA	Solid	8082	20488
LCS 620-20488/2-A	Lab Control Sample	Total/NA	Solid	8082	20488
LCSD 620-20488/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20488

LCMS

Prep Batch: 351205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	537 (mod)	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	537 (mod)	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	537 (mod)	
620-10080-32	2023-FD-05	Total/NA	Solid	537 (mod)	
MB 410-351205/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	537 (mod)	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	537 (mod)	

Prep Batch: 351207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	537 (mod)	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	537 (mod)	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	537 (mod)	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	537 (mod)	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	537 (mod)	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	537 (mod)	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	537 (mod)	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	537 (mod)	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	537 (mod)	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	537 (mod)	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	537 (mod)	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	537 (mod)	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	537 (mod)	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	537 (mod)	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	537 (mod)	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	537 (mod)	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	537 (mod)	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 351207 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	537 (mod)	
MB 410-351207/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-351207/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	537 (mod)	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 351216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	Extract Aliquot	351207
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	Extract Aliquot	351207
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	Extract Aliquot	351207
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	Extract Aliquot	351207
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	Extract Aliquot	351207
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	Extract Aliquot	351207
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	Extract Aliquot	351207
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	Extract Aliquot	351207
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	Extract Aliquot	351207
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	Extract Aliquot	351207
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	Extract Aliquot	351207
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	Extract Aliquot	351207
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	Extract Aliquot	351207
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	Extract Aliquot	351207
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	Extract Aliquot	351207
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	Extract Aliquot	351207
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	Extract Aliquot	351207
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	Extract Aliquot	351207
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	Extract Aliquot	351207
MB 410-351207/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351207
LCS 410-351207/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351207
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	Extract Aliquot	351207
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	Extract Aliquot	351207

Cleanup Batch: 351217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	Extract Aliquot	351205
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	Extract Aliquot	351205
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	Extract Aliquot	351205
620-10080-32	2023-FD-05	Total/NA	Solid	Extract Aliquot	351205
MB 410-351205/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	351205
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	351205
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	Extract Aliquot	351205
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	Extract Aliquot	351205

Analysis Batch: 353839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10080-32	2023-FD-05	Total/NA	Solid	EPA 537 (Mod)	351217
MB 410-351205/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351217
LCS 410-351205/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351217

LCMS (Continued)

Analysis Batch: 353839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	EPA 537 (Mod)	351217
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	EPA 537 (Mod)	351217

Analysis Batch: 353950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	EPA 537 (Mod)	351216
MB 410-351207/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	351216
LCS 410-351207/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	EPA 537 (Mod)	351216
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	EPA 537 (Mod)	351216

Analysis Batch: 354254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	EPA 537 (Mod)	351216

Prep Batch: 355125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2 - RE	2023-MW-07-0204'	Total/NA	Solid	537 (mod)	
620-10080-3 - RE	2023-MW-07-0406'	Total/NA	Solid	537 (mod)	
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	537 (mod)	
620-10080-20 - RE	2023-SB-03-0002'	Total/NA	Solid	537 (mod)	
620-10080-21 - RE	2023-SB-03-0204'	Total/NA	Solid	537 (mod)	
620-10080-26 - RE	2023-MW-04-0002'	Total/NA	Solid	537 (mod)	
MB 410-355125/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 355128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2 - RE	2023-MW-07-0204'	Total/NA	Solid	Extract Aliquot	355125
620-10080-3 - RE	2023-MW-07-0406'	Total/NA	Solid	Extract Aliquot	355125
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10080-20 - RE	2023-SB-03-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10080-21 - RE	2023-SB-03-0204'	Total/NA	Solid	Extract Aliquot	355125
620-10080-26 - RE	2023-MW-04-0002'	Total/NA	Solid	Extract Aliquot	355125

LCMS (Continued)

Cleanup Batch: 355128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-355125/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	355125
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	355125

Analysis Batch: 355432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2 - RE	2023-MW-07-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10080-3 - RE	2023-MW-07-0406'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10080-20 - RE	2023-SB-03-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10080-21 - RE	2023-SB-03-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10080-26 - RE	2023-MW-04-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
MB 410-355125/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	355128
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	355128

Prep Batch: 356793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	537 (mod)	
MB 410-356793/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-356793/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 356801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	Extract Aliquot	356793
MB 410-356793/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	356793
LCS 410-356793/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	356793

Analysis Batch: 357670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	EPA 537 (Mod)	356801
MB 410-356793/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	356801
LCS 410-356793/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	356801

Metals

Prep Batch: 351221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	3050B	
MB 410-351221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	7471A	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	7471A	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	7471A	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	7471A	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	7471A	
620-10080-8	2023-SS-05	Total/NA	Solid	7471A	
620-10080-9	2023-SS-04	Total/NA	Solid	7471A	
620-10080-10	2023-SS-03	Total/NA	Solid	7471A	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-351223/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351223/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	7471A	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	7471A	

Prep Batch: 351493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	3050B	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	3050B	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	3050B	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	3050B	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	3050B	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	3050B	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	3050B	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	3050B	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	3050B	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	3050B	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	3050B	
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	3050B	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	3050B	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	3050B	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	3050B	
620-10080-32	2023-FD-05	Total/NA	Solid	3050B	
MB 410-351493/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351493/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	7471A	
620-10080-7	2023-SS-06	Total/NA	Solid	7471A	
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	7471A	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	7471A	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	7471A	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	7471A	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	7471A	
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	7471A	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	7471A	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	7471A	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	7471A	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	7471A	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	7471A	
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	7471A	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	7471A	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	7471A	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	7471A	
620-10080-32	2023-FD-05	Total/NA	Solid	7471A	
MB 410-351504/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351504/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10080-7 MS	2023-SS-06	Total/NA	Solid	7471A	
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	7471A	
620-10080-32 MS	2023-FD-05	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-32 MSD	2023-FD-05	Total/NA	Solid	7471A	
620-10080-32 DU	2023-FD-05	Total/NA	Solid	7471A	

Prep Batch: 351640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	3050B	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	3050B	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	3050B	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	3050B	
620-10080-11	2023-SS-02	Total/NA	Solid	3050B	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	3050B	
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	3050B	
MB 410-351640/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351640/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	3050B	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	3050B	

Prep Batch: 351673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	3050B	
620-10080-7	2023-SS-06	Total/NA	Solid	3050B	
620-10080-8	2023-SS-05	Total/NA	Solid	3050B	
620-10080-9	2023-SS-04	Total/NA	Solid	3050B	
620-10080-10	2023-SS-03	Total/NA	Solid	3050B	
620-10080-12	2023-SS-01	Total/NA	Solid	3050B	
620-10080-13	2023-FD-02	Total/NA	Solid	3050B	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	3050B	
MB 410-351673/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351673/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	3050B	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	3050B	
620-10080-7 MS	2023-SS-06	Total/NA	Solid	3050B	
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	3050B	
620-10080-7 DU	2023-SS-06	Total/NA	Solid	3050B	

Prep Batch: 351676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-11	2023-SS-02	Total/NA	Solid	7471A	
620-10080-12	2023-SS-01	Total/NA	Solid	7471A	
620-10080-13	2023-FD-02	Total/NA	Solid	7471A	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	7471A	
MB 410-351676/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351676/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 351677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	7471A	
MB 410-351677/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351677/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	7471A	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-28 DU	2023-MW-04-0406'	Total/NA	Solid	7471A	

Analysis Batch: 351811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	7471B	351504
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	7471B	351504
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	7471B	351504
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	7471B	351504
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	7471B	351504
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	7471B	351504
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	7471B	351504
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	7471B	351504
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	7471B	351504
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	7471B	351504
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	7471B	351504
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	7471B	351504
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	7471B	351504
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	7471B	351504
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	7471B	351504
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	7471B	351504
620-10080-32	2023-FD-05	Total/NA	Solid	7471B	351504
MB 410-351504/1-A	Method Blank	Total/NA	Solid	7471B	351504
LCS 410-351504/2-A	Lab Control Sample	Total/NA	Solid	7471B	351504
620-10080-32 MS	2023-FD-05	Total/NA	Solid	7471B	351504
620-10080-32 MSD	2023-FD-05	Total/NA	Solid	7471B	351504
620-10080-32 DU	2023-FD-05	Total/NA	Solid	7471B	351504

Analysis Batch: 352132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	6010D	351493
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	6010D	351493
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	6010D	351493
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	6010D	351493
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	6010D	351493
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	6010D	351493
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	6010D	351493
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	6010D	351493
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	6010D	351493
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	6010D	351493
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	6010D	351493
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	6010D	351493
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	6010D	351493
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	6010D	351493
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	6010D	351493
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	6010D	351493
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	6010D	351493
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	6010D	351493
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	6010D	351493
620-10080-32	2023-FD-05	Total/NA	Solid	6010D	351493
MB 410-351493/1-A	Method Blank	Total/NA	Solid	6010D	351493
LCS 410-351493/2-A	Lab Control Sample	Total/NA	Solid	6010D	351493

Metals

Analysis Batch: 352137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	6010D	351640
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	6010D	351640
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	6010D	351640
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	6010D	351640
620-10080-11	2023-SS-02	Total/NA	Solid	6010D	351640
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	6010D	351640
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	6010D	351640
MB 410-351640/1-A	Method Blank	Total/NA	Solid	6010D	351640
LCS 410-351640/2-A	Lab Control Sample	Total/NA	Solid	6010D	351640
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	6010D	351640
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	6010D	351640

Analysis Batch: 352229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	7471B	351223
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	7471B	351223
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	7471B	351223
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	7471B	351223
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	7471B	351223
620-10080-8	2023-SS-05	Total/NA	Solid	7471B	351223
620-10080-9	2023-SS-04	Total/NA	Solid	7471B	351223
620-10080-10	2023-SS-03	Total/NA	Solid	7471B	351223
620-10080-11	2023-SS-02	Total/NA	Solid	7471B	351676
620-10080-12	2023-SS-01	Total/NA	Solid	7471B	351676
620-10080-13	2023-FD-02	Total/NA	Solid	7471B	351676
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	7471B	351223
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	7471B	351676
MB 410-351223/1-A	Method Blank	Total/NA	Solid	7471B	351223
MB 410-351676/1-A	Method Blank	Total/NA	Solid	7471B	351676
LCS 410-351223/2-A	Lab Control Sample	Total/NA	Solid	7471B	351223
LCS 410-351676/2-A	Lab Control Sample	Total/NA	Solid	7471B	351676
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	7471B	351223
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	7471B	351223

Analysis Batch: 352284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	6010D	351221
MB 410-351221/1-A	Method Blank	Total/NA	Solid	6010D	351221
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	6010D	351221

Analysis Batch: 352388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-7	2023-SS-06	Total/NA	Solid	7471B	351504
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	7471B	351677
MB 410-351677/1-A	Method Blank	Total/NA	Solid	7471B	351677
LCS 410-351677/2-A	Lab Control Sample	Total/NA	Solid	7471B	351677
620-10080-7 MS	2023-SS-06	Total/NA	Solid	7471B	351504
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	7471B	351504
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	7471B	351677
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	7471B	351677
620-10080-28 DU	2023-MW-04-0406'	Total/NA	Solid	7471B	351677

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Metals

Analysis Batch: 352502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	6010D	351640
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	6010D	351640
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	6010D	351640
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	6010D	351640
620-10080-11	2023-SS-02	Total/NA	Solid	6010D	351640
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	6010D	351640
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	6010D	351640
LCS 410-351640/2-A	Lab Control Sample	Total/NA	Solid	6010D	351640
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	6010D	351640
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	6010D	351640

Analysis Batch: 353155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	6010D	351673
620-10080-7	2023-SS-06	Total/NA	Solid	6010D	351673
620-10080-7	2023-SS-06	Total/NA	Solid	6010D	351673
620-10080-8	2023-SS-05	Total/NA	Solid	6010D	351673
620-10080-9	2023-SS-04	Total/NA	Solid	6010D	351673
620-10080-10	2023-SS-03	Total/NA	Solid	6010D	351673
620-10080-12	2023-SS-01	Total/NA	Solid	6010D	351673
620-10080-13	2023-FD-02	Total/NA	Solid	6010D	351673
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	6010D	351673
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	6010D	351673
MB 410-351673/1-A	Method Blank	Total/NA	Solid	6010D	351673
LCS 410-351673/2-A	Lab Control Sample	Total/NA	Solid	6010D	351673
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	6010D	351673
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	6010D	351673
620-10080-7 MS	2023-SS-06	Total/NA	Solid	6010D	351673
620-10080-7 MS	2023-SS-06	Total/NA	Solid	6010D	351673
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	6010D	351673
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	6010D	351673
620-10080-7 DU	2023-SS-06	Total/NA	Solid	6010D	351673
620-10080-7 DU	2023-SS-06	Total/NA	Solid	6010D	351673

General Chemistry

Analysis Batch: 20243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-1	2023-MW-07-0002'	Total/NA	Solid	Moisture	
620-10080-2	2023-MW-07-0204'	Total/NA	Solid	Moisture	
620-10080-3	2023-MW-07-0406'	Total/NA	Solid	Moisture	
620-10080-4	2023-MW-07-0608'	Total/NA	Solid	Moisture	
620-10080-5	2023-MW-07-0810'	Total/NA	Solid	Moisture	
620-10080-6	2023-MW-07-1012'	Total/NA	Solid	Moisture	
620-10080-7	2023-SS-06	Total/NA	Solid	Moisture	
620-10080-8	2023-SS-05	Total/NA	Solid	Moisture	
620-10080-9	2023-SS-04	Total/NA	Solid	Moisture	
620-10080-10	2023-SS-03	Total/NA	Solid	Moisture	
620-10080-11	2023-SS-02	Total/NA	Solid	Moisture	
620-10080-12	2023-SS-01	Total/NA	Solid	Moisture	
620-10080-13	2023-FD-02	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-14	2023-SB-04-0002'	Total/NA	Solid	Moisture	
620-10080-15	2023-SB-04-0204'	Total/NA	Solid	Moisture	
620-10080-16	2023-SB-04-0406'	Total/NA	Solid	Moisture	
620-10080-17	2023-SB-04-0608'	Total/NA	Solid	Moisture	
620-10080-18	2023-SB-04-0810'	Total/NA	Solid	Moisture	
620-10080-19	2023-SB-04-1012'	Total/NA	Solid	Moisture	
620-10080-20	2023-SB-03-0002'	Total/NA	Solid	Moisture	
620-10080-1 MS	2023-MW-07-0002'	Total/NA	Solid	Moisture	
620-10080-1 MSD	2023-MW-07-0002'	Total/NA	Solid	Moisture	
620-10080-7 MS	2023-SS-06	Total/NA	Solid	Moisture	
620-10080-7 MSD	2023-SS-06	Total/NA	Solid	Moisture	
620-10080-2 DU	2023-MW-07-0204'	Total/NA	Solid	Moisture	
620-10080-20 DU	2023-SB-03-0002'	Total/NA	Solid	Moisture	

Analysis Batch: 20251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10080-21	2023-SB-03-0204'	Total/NA	Solid	Moisture	
620-10080-22	2023-SB-03-0406'	Total/NA	Solid	Moisture	
620-10080-23	2023-SB-03-0608'	Total/NA	Solid	Moisture	
620-10080-24	2023-SB-03-0810'	Total/NA	Solid	Moisture	
620-10080-25	2023-SB-03-1012'	Total/NA	Solid	Moisture	
620-10080-26	2023-MW-04-0002'	Total/NA	Solid	Moisture	
620-10080-27	2023-MW-04-0204'	Total/NA	Solid	Moisture	
620-10080-28	2023-MW-04-0406'	Total/NA	Solid	Moisture	
620-10080-29	2023-MW-04-0608'	Total/NA	Solid	Moisture	
620-10080-30	2023-MW-04-0810'	Total/NA	Solid	Moisture	
620-10080-31	2023-MW-04-1012'	Total/NA	Solid	Moisture	
620-10080-32	2023-FD-05	Total/NA	Solid	Moisture	
620-10080-28 MS	2023-MW-04-0406'	Total/NA	Solid	Moisture	
620-10080-28 MSD	2023-MW-04-0406'	Total/NA	Solid	Moisture	
620-10080-21 DU	2023-SB-03-0204'	Total/NA	Solid	Moisture	
620-10080-29 DU	2023-MW-04-0608'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07-0002' Lab Sample ID: 620-10080-1
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-MW-07-0002' Lab Sample ID: 620-10080-1
Date Collected: 03/01/23 14:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 88.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 15:08
Total/NA	Pre Prep	Frozen Preserve	RA		20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035	RA		20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C	RA	1	20328	CLR	EET NE	03/07/23 14:58
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/13/23 23:20
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 12:01
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:06
Total/NA	Analysis	8082		10	20508	SFL	EET NE	03/14/23 12:52
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 04:10
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:44
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:51

Client Sample ID: 2023-MW-07-0204' Lab Sample ID: 620-10080-2
Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-MW-07-0204' Lab Sample ID: 620-10080-2
Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 22:21

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07-0204' Lab Sample ID: 620-10080-2

Date Collected: 03/01/23 14:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 19:36
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 13:59
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:06
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 02:05
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:36
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 04:43
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352137	T8CQ	ELLE	03/09/23 21:24
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 13:18
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:38

Client Sample ID: 2023-MW-07-0406' Lab Sample ID: 620-10080-3

Date Collected: 03/01/23 14:15 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-MW-07-0406' Lab Sample ID: 620-10080-3

Date Collected: 03/01/23 14:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 18:34
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 00:45
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 14:38
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:06
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 02:23
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:59

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07-0406' Lab Sample ID: 620-10080-3

Date Collected: 03/01/23 14:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 04:54
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352137	T8CQ	ELLE	03/09/23 21:27
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 13:21
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:40

Client Sample ID: 2023-MW-07-0608' Lab Sample ID: 620-10080-4

Date Collected: 03/01/23 14:20 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-MW-07-0608' Lab Sample ID: 620-10080-4

Date Collected: 03/01/23 14:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 19:00
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 20:04
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 15:17
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:06
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 02:42
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 05:05
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 19:55
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 06:26
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:42

Client Sample ID: 2023-MW-07-0810' Lab Sample ID: 620-10080-5

Date Collected: 03/01/23 14:25 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-MW-07-0810' Lab Sample ID: 620-10080-5

Date Collected: 03/01/23 14:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 95.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 19:26
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 20:33
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 15:57
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:06
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 03:01
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 05:16
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352137	T8CQ	ELLE	03/09/23 21:37
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 13:40
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 09:01

Client Sample ID: 2023-MW-07-1012' Lab Sample ID: 620-10080-6

Date Collected: 03/01/23 14:30 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-MW-07-1012' Lab Sample ID: 620-10080-6

Date Collected: 03/01/23 14:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 72.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 15:23
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 21:01

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-MW-07-1012'

Lab Sample ID: 620-10080-6
Date Collected: 03/01/23 14:30
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 72.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 17:16
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:06
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 03:20
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 05:27
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352137	T8CQ	ELLE	03/09/23 21:33
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 13:27
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:34

Client Sample ID: 2023-SS-06

Lab Sample ID: 620-10080-7
Date Collected: 02/27/23 09:05
Matrix: Solid
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SS-06

Lab Sample ID: 620-10080-7
Date Collected: 02/27/23 09:05
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 15:12
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:32
Total/NA	Analysis	8082		10	20508	SFL	EET NE	03/14/23 13:48
Total/NA	Prep	3546			20278	BMS	EET NE	03/06/23 08:26
Total/NA	Fraction	MA EPH Frac			20423	PRB	EET NE	03/10/23 08:37
Total/NA	Analysis	MAEPH2.1		1	20426	JS	EET NE	03/10/23 16:38
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 18:32
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 18:58
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 19:41
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 10:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-05 Lab Sample ID: 620-10080-8
Date Collected: 02/27/23 09:50 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SS-05 Lab Sample ID: 620-10080-8
Date Collected: 02/27/23 09:50 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 93.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 21:08
Total/NA	Prep	3540C			20450	PRB	EET NE	03/10/23 15:33
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 04:35
Total/NA	Prep	3546			20278	BMS	EET NE	03/06/23 08:26
Total/NA	Fraction	MA EPH Frac			20423	PRB	EET NE	03/10/23 08:37
Total/NA	Analysis	MAEPH2.1		1	20426	JS	EET NE	03/10/23 18:42
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 19:33
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:44

Client Sample ID: 2023-SS-04 Lab Sample ID: 620-10080-9
Date Collected: 02/27/23 09:45 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SS-04 Lab Sample ID: 620-10080-9
Date Collected: 02/27/23 09:45 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 21:33
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		5	20508	SFL	EET NE	03/14/23 14:44
Total/NA	Prep	3546			20278	BMS	EET NE	03/06/23 08:26
Total/NA	Fraction	MA EPH Frac			20423	PRB	EET NE	03/10/23 08:37
Total/NA	Analysis	MAEPH2.1		1	20426	JS	EET NE	03/10/23 19:12
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 19:39
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-03 Lab Sample ID: 620-10080-10
Date Collected: 02/27/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SS-03 Lab Sample ID: 620-10080-10
Date Collected: 02/27/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 21:59
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		10	20508	SFL	EET NE	03/14/23 15:03
Total/NA	Prep	3546			20278	BMS	EET NE	03/06/23 08:26
Total/NA	Fraction	MA EPH Frac			20423	PRB	EET NE	03/10/23 08:37
Total/NA	Analysis	MAEPH2.1		1	20426	JS	EET NE	03/10/23 19:43
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 19:46
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:48

Client Sample ID: 2023-SS-02 Lab Sample ID: 620-10080-11
Date Collected: 02/27/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SS-02 Lab Sample ID: 620-10080-11
Date Collected: 02/27/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 22:25
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 05:31
Total/NA	Prep	3546			20278	BMS	EET NE	03/06/23 08:26
Total/NA	Fraction	MA EPH Frac			20423	PRB	EET NE	03/10/23 08:37
Total/NA	Analysis	MAEPH2.1		1	20426	JS	EET NE	03/10/23 20:14
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352137	T8CQ	ELLE	03/09/23 21:30
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 13:24
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SS-01 Lab Sample ID: 620-10080-12
Date Collected: 02/27/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SS-01 Lab Sample ID: 620-10080-12
Date Collected: 02/27/23 09:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 91.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		20489	CLR	EET NE	03/13/23 15:31
Total/NA	Analysis	8260C	ME	1	20490	CLR	EET NE	03/13/23 20:29
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		5	20477	SFL	EET NE	03/13/23 15:50
Total/NA	Prep	3546			20278	BMS	EET NE	03/06/23 08:27
Total/NA	Fraction	MA EPH Frac			20423	PRB	EET NE	03/10/23 08:37
Total/NA	Analysis	MAEPH2.1		1	20426	JS	EET NE	03/10/23 20:44
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 19:17
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:05

Client Sample ID: 2023-FD-02 Lab Sample ID: 620-10080-13
Date Collected: 02/27/23 08:05 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-FD-02 Lab Sample ID: 620-10080-13
Date Collected: 02/27/23 08:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 93.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		20489	CLR	EET NE	03/13/23 15:31
Total/NA	Analysis	8260C	ME	1	20490	CLR	EET NE	03/13/23 20:55
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 09:09
Total/NA	Prep	3546			20278	BMS	EET NE	03/06/23 08:27
Total/NA	Fraction	MA EPH Frac			20423	PRB	EET NE	03/10/23 08:37
Total/NA	Analysis	MAEPH2.1		1	20426	JS	EET NE	03/10/23 21:14
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 19:52
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:01

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-04-0002' — Lab Sample ID: 620-10080-14

Date Collected: 03/02/23 09:10 — **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SB-04-0002' — Lab Sample ID: 620-10080-14

Date Collected: 03/02/23 09:10 — **Matrix: Solid**
Date Received: 03/02/23 16:16 — **Percent Solids: 90.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 20:18
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 01:14
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 17:55
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 09:28
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 06:10
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:28
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:39

Client Sample ID: 2023-SB-04-0204' — Lab Sample ID: 620-10080-15

Date Collected: 03/02/23 09:15 — **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SB-04-0204' — Lab Sample ID: 620-10080-15

Date Collected: 03/02/23 09:15 — **Matrix: Solid**
Date Received: 03/02/23 16:16 — **Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 20:43
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 21:29
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 18:34

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-04-0204' Lab Sample ID: 620-10080-15

Date Collected: 03/02/23 09:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 09:46
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 05:49
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:18
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:37

Client Sample ID: 2023-SB-04-0406' Lab Sample ID: 620-10080-16

Date Collected: 03/02/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SB-04-0406' Lab Sample ID: 620-10080-16

Date Collected: 03/02/23 09:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 21:09
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 01:42
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 19:14
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 10:05
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 06:00
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352137	T8CQ	ELLE	03/09/23 21:40
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 13:43
Total/NA	Prep	7471A			351223	UAMX	ELLE	03/08/23 00:50
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 09:36

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-04-0608' Lab Sample ID: 620-10080-17

Date Collected: 03/02/23 09:25 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SB-04-0608' Lab Sample ID: 620-10080-17

Date Collected: 03/02/23 09:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 79.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 15:49
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 21:57
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 19:53
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 10:24
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 06:11
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:09
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:59

Client Sample ID: 2023-SB-04-0810' Lab Sample ID: 620-10080-18

Date Collected: 03/02/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SB-04-0810' Lab Sample ID: 620-10080-18

Date Collected: 03/02/23 09:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 75.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 22:00
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 22:26
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 20:33

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-04-0810'

Lab Sample ID: 620-10080-18
Date Collected: 03/02/23 09:30
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 10:43
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	354254	DTA4	ELLE	03/17/23 04:02
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:08
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 20:12
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:03

Client Sample ID: 2023-SB-04-1012'

Lab Sample ID: 620-10080-19
Date Collected: 03/02/23 09:35
Matrix: Solid
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SB-04-1012'

Lab Sample ID: 620-10080-19
Date Collected: 03/02/23 09:35
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 80.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 16:04
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 02:11
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 21:12
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 11:02
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 06:45
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:15
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 14:08
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 09:11

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-03-0002' Lab Sample ID: 620-10080-20
Date Collected: 03/02/23 10:05 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20243	DWC	EET NE	03/03/23 09:45

Client Sample ID: 2023-SB-03-0002' Lab Sample ID: 620-10080-20
Date Collected: 03/02/23 10:05 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 16:40
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 02:39
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 21:51
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 11:20
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 06:21
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 06:56
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:22
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 09:05

Client Sample ID: 2023-SB-03-0204' Lab Sample ID: 620-10080-21
Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-SB-03-0204' Lab Sample ID: 620-10080-21
Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 17:06

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-03-0204' Lab Sample ID: 620-10080-21

Date Collected: 03/02/23 10:10 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 22:54
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 22:31
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 11:39
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 06:32
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 07:07
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:57
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:45

Client Sample ID: 2023-SB-03-0406' Lab Sample ID: 620-10080-22

Date Collected: 03/02/23 10:15 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-SB-03-0406' Lab Sample ID: 620-10080-22

Date Collected: 03/02/23 10:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 17:32
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 03:07
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/06/23 23:10
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 11:58
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 07:18
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:34

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Client Sample ID: 2023-SB-03-0406'

Lab Sample ID: 620-10080-22
Date Collected: 03/02/23 10:15
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:43

Client Sample ID: 2023-SB-03-0608'

Lab Sample ID: 620-10080-23
Date Collected: 03/02/23 10:20
Matrix: Solid
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-SB-03-0608'

Lab Sample ID: 620-10080-23
Date Collected: 03/02/23 10:20
Matrix: Solid
Date Received: 03/02/23 16:16
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20360	CLR	EET NE	03/08/23 10:32
Total/NA	Analysis	8260C		1	20361	CLR	EET NE	03/08/23 16:29
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 23:22
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/07/23 00:29
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 12:17
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 07:29
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:00
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:51

Client Sample ID: 2023-SB-03-0810'

Lab Sample ID: 620-10080-24
Date Collected: 03/02/23 10:25
Matrix: Solid
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-03-0810' Lab Sample ID: 620-10080-24

Date Collected: 03/02/23 10:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 18:24
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 23:50
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/07/23 01:08
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 12:36
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 07:40
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:37
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		10	352132	T8CQ	ELLE	03/09/23 15:51
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:49

Client Sample ID: 2023-SB-03-1012' Lab Sample ID: 620-10080-25

Date Collected: 03/02/23 10:36 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-SB-03-1012' Lab Sample ID: 620-10080-25

Date Collected: 03/02/23 10:36 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 82.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 18:49
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 03:36
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/07/23 01:47
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 20:59
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 07:51

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-03-1012' — Lab Sample ID: 620-10080-25

Date Collected: 03/02/23 10:36 — **Matrix: Solid**
Date Received: 03/02/23 16:16 — **Percent Solids: 82.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:31
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:41

Client Sample ID: 2023-MW-04-0002' — Lab Sample ID: 620-10080-26

Date Collected: 03/02/23 11:10 — **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-MW-04-0002' — Lab Sample ID: 620-10080-26

Date Collected: 03/02/23 11:10 — **Matrix: Solid**
Date Received: 03/02/23 16:16 — **Percent Solids: 94.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 19:15
Total/NA	Prep	3546			20445	PRB	EET NE	03/10/23 11:19
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 04:04
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/07/23 02:27
Total/NA	Prep	3540C			20488	BMS	EET NE	03/13/23 14:49
Total/NA	Analysis	8082		1	20558	SFL	EET NE	03/15/23 13:21
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 06:43
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 08:02
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:12
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 14:08
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 09:09

Client Sample ID: 2023-MW-04-0204' — Lab Sample ID: 620-10080-27

Date Collected: 03/02/23 11:15 — **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660702	JLS	EET BUF	03/07/23 11:23
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04-0204' Lab Sample ID: 620-10080-27

Date Collected: 03/02/23 11:15 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 92.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 19:40
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 04:33
Total/NA	Prep	5035A_H			660571	JLS	EET BUF	03/06/23 10:00
Total/NA	Analysis	MAVPH		1	660522	JLS	EET BUF	03/07/23 03:06
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/10/23 21:37
Total/NA	Prep	537 (mod)			351207	X5YV	ELLE	03/07/23 22:57
Total/NA	Cleanup	Extract Aliquot			351216	X5YV	ELLE	03/08/23 00:14
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 08:13
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:35
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 09:03

Client Sample ID: 2023-MW-04-0406' Lab Sample ID: 620-10080-28

Date Collected: 03/02/23 11:20 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-MW-04-0406' Lab Sample ID: 620-10080-28

Date Collected: 03/02/23 11:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 84.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 15:34
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/14/23 05:01
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 10:39
Total/NA	Prep	3540C			20488	BMS	EET NE	03/13/23 14:49
Total/NA	Analysis	8082		1	20558	SFL	EET NE	03/15/23 13:40
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 21:40
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352137	T8CQ	ELLE	03/09/23 21:43

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04-0406' Lab Sample ID: 620-10080-28

Date Collected: 03/02/23 11:20 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 84.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			351640	UAMX	ELLE	03/08/23 20:04
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 13:46
Total/NA	Prep	7471A			351677	UAMX	ELLE	03/09/23 23:15
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 10:50

Client Sample ID: 2023-MW-04-0608' Lab Sample ID: 620-10080-29

Date Collected: 03/02/23 11:25 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-MW-04-0608' Lab Sample ID: 620-10080-29

Date Collected: 03/02/23 11:25 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 74.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 20:06
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 15:08
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 12:37
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 06:46
Total/NA	Prep	537 (mod)			356793	BX2W	ELLE	03/23/23 15:12
Total/NA	Cleanup	Extract Aliquot			356801	BX2W	ELLE	03/23/23 15:23
Total/NA	Analysis	EPA 537 (Mod)		1	357670	PY4D	ELLE	03/27/23 20:25
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:05
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		10	352132	T8CQ	ELLE	03/09/23 16:13
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:57

Client Sample ID: 2023-MW-04-0810' Lab Sample ID: 620-10080-30

Date Collected: 03/02/23 11:30 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04-0810' Lab Sample ID: 620-10080-30

Date Collected: 03/02/23 11:30 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 77.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 20:32
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 15:37
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 13:16
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 13:13
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 22:24
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 15:18
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		10	352132	T8CQ	ELLE	03/09/23 16:26
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 09:07

Client Sample ID: 2023-MW-04-1012' Lab Sample ID: 620-10080-31

Date Collected: 03/02/23 11:35 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-MW-04-1012' Lab Sample ID: 620-10080-31

Date Collected: 03/02/23 11:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 20:57
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 16:06
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 13:56
Total/NA	Prep	3540C			20412	BJJ	EET NE	03/09/23 15:17
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 12:54
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 22:35

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04-1012' Lab Sample ID: 620-10080-31

Date Collected: 03/02/23 11:35 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:41
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		10	352132	T8CQ	ELLE	03/09/23 15:54
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:47

Client Sample ID: 2023-FD-05 Lab Sample ID: 620-10080-32

Date Collected: 03/02/23 08:00 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660809	MAN	EET BUF	03/08/23 08:11
Total/NA	Analysis	Moisture		1	20251	DWC	EET NE	03/03/23 10:15

Client Sample ID: 2023-FD-05 Lab Sample ID: 620-10080-32

Date Collected: 03/02/23 08:00 **Matrix: Solid**
Date Received: 03/02/23 16:16 **Percent Solids: 85.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 21:23
Total/NA	Prep	3546			20475	BMS	EET NE	03/13/23 11:00
Total/NA	Analysis	8270D		1	20503	JS	EET NE	03/14/23 16:35
Total/NA	Prep	5035A_H			660655	JLS	EET BUF	03/07/23 07:22
Total/NA	Analysis	MAVPH		1	660658	JLS	EET BUF	03/07/23 14:35
Total/NA	Prep	3540C			20414	BMS	EET NE	03/09/23 15:26
Total/NA	Analysis	8082		1	20434	SFL	EET NE	03/11/23 01:34
Total/NA	Prep	537 (mod)			351205	X5YV	ELLE	03/07/23 22:53
Total/NA	Cleanup	Extract Aliquot			351217	X5YV	ELLE	03/08/23 00:17
Total/NA	Analysis	EPA 537 (Mod)		1	353839	DTA4	ELLE	03/15/23 22:46
Total/NA	Prep	3050B			351493	UAMX	ELLE	03/08/23 13:50
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 14:44
Total/NA	Prep	7471A			351504	UAMX	ELLE	03/08/23 13:59
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:24

Client Sample ID: Trip Blank-04 Lab Sample ID: 620-10080-33

Date Collected: 03/02/23 00:00 **Matrix: Solid**
Date Received: 03/02/23 16:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20240	KFS	EET NE	03/02/23 18:17
Total/NA	Prep	5035			20327	CLR	EET NE	03/07/23 09:52
Total/NA	Analysis	8260C		1	20328	CLR	EET NE	03/07/23 13:53

Lab Chronicle

Client: Nobis Engineering, Inc.
Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
MAEPH2.1	3546	Solid	2-Methylnaphthalene
MAEPH2.1	3546	Solid	Acenaphthene
MAEPH2.1	3546	Solid	Acenaphthylene
MAEPH2.1	3546	Solid	Anthracene
MAEPH2.1	3546	Solid	Benzo[a]anthracene
MAEPH2.1	3546	Solid	Benzo[a]pyrene
MAEPH2.1	3546	Solid	Benzo[b]fluoranthene
MAEPH2.1	3546	Solid	Benzo[g,h,i]perylene
MAEPH2.1	3546	Solid	Benzo[k]fluoranthene
MAEPH2.1	3546	Solid	C11-C22 Aromatics
MAEPH2.1	3546	Solid	C11-C22 Aromatics (Adjusted)
MAEPH2.1	3546	Solid	C19-C36 Aliphatics
MAEPH2.1	3546	Solid	C9-C18 Aliphatics
MAEPH2.1	3546	Solid	Chrysene
MAEPH2.1	3546	Solid	Dibenz(a,h)anthracene
MAEPH2.1	3546	Solid	Fluoranthene
MAEPH2.1	3546	Solid	Fluorene
MAEPH2.1	3546	Solid	Indeno[1,2,3-cd]pyrene
MAEPH2.1	3546	Solid	Naphthalene
MAEPH2.1	3546	Solid	Phenanthrene
MAEPH2.1	3546	Solid	Pyrene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State	374	03-01-23 *
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-24
Maryland	State	294	03-31-23
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-23
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10080-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
MAEPH2.1	Massachusetts - Extractable Petroleum Hydrocarbons (GC)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE
MA EPH Frac	Massachusetts - Extractable Petroleum Hydrocarbon Fractionation	MA DEP	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10080-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10080-1	2023-MW-07-0002'	Solid	03/01/23 14:05	03/02/23 16:16
620-10080-2	2023-MW-07-0204'	Solid	03/01/23 14:10	03/02/23 16:16
620-10080-3	2023-MW-07-0406'	Solid	03/01/23 14:15	03/02/23 16:16
620-10080-4	2023-MW-07-0608'	Solid	03/01/23 14:20	03/02/23 16:16
620-10080-5	2023-MW-07-0810'	Solid	03/01/23 14:25	03/02/23 16:16
620-10080-6	2023-MW-07-1012'	Solid	03/01/23 14:30	03/02/23 16:16
620-10080-7	2023-SS-06	Solid	02/27/23 09:05	03/02/23 16:16
620-10080-8	2023-SS-05	Solid	02/27/23 09:50	03/02/23 16:16
620-10080-9	2023-SS-04	Solid	02/27/23 09:45	03/02/23 16:16
620-10080-10	2023-SS-03	Solid	02/27/23 09:20	03/02/23 16:16
620-10080-11	2023-SS-02	Solid	02/27/23 09:30	03/02/23 16:16
620-10080-12	2023-SS-01	Solid	02/27/23 09:35	03/02/23 16:16
620-10080-13	2023-FD-02	Solid	02/27/23 08:05	03/02/23 16:16
620-10080-14	2023-SB-04-0002'	Solid	03/02/23 09:10	03/02/23 16:16
620-10080-15	2023-SB-04-0204'	Solid	03/02/23 09:15	03/02/23 16:16
620-10080-16	2023-SB-04-0406'	Solid	03/02/23 09:20	03/02/23 16:16
620-10080-17	2023-SB-04-0608'	Solid	03/02/23 09:25	03/02/23 16:16
620-10080-18	2023-SB-04-0810'	Solid	03/02/23 09:30	03/02/23 16:16
620-10080-19	2023-SB-04-1012'	Solid	03/02/23 09:35	03/02/23 16:16
620-10080-20	2023-SB-03-0002'	Solid	03/02/23 10:05	03/02/23 16:16
620-10080-21	2023-SB-03-0204'	Solid	03/02/23 10:10	03/02/23 16:16
620-10080-22	2023-SB-03-0406'	Solid	03/02/23 10:15	03/02/23 16:16
620-10080-23	2023-SB-03-0608'	Solid	03/02/23 10:20	03/02/23 16:16
620-10080-24	2023-SB-03-0810'	Solid	03/02/23 10:25	03/02/23 16:16
620-10080-25	2023-SB-03-1012'	Solid	03/02/23 10:36	03/02/23 16:16
620-10080-26	2023-MW-04-0002'	Solid	03/02/23 11:10	03/02/23 16:16
620-10080-27	2023-MW-04-0204'	Solid	03/02/23 11:15	03/02/23 16:16
620-10080-28	2023-MW-04-0406'	Solid	03/02/23 11:20	03/02/23 16:16
620-10080-29	2023-MW-04-0608'	Solid	03/02/23 11:25	03/02/23 16:16
620-10080-30	2023-MW-04-0810'	Solid	03/02/23 11:30	03/02/23 16:16
620-10080-31	2023-MW-04-1012'	Solid	03/02/23 11:35	03/02/23 16:16
620-10080-32	2023-FD-05	Solid	03/02/23 08:00	03/02/23 16:16
620-10080-33	Trip Blank-04	Solid	03/02/23 00:00	03/02/23 16:16

10080

Chain of Custody Record

eurofins | Environment Testing

Client Contact: Bridget Fortier	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.7
Company: Nobis Engineering, Inc.	Phone:	E-Mail:	State of Origin:	Page: Page 7 of 17
Address: 585 Middlesex Street	PWSID:			Job #:
City: Lowell	Due Date Requested			
State, Zip: MA, 01851	TAT Requested (days): Standard			
Phone: 978-399-9651	Compliance Project: Δ Yes Δ No			
Email: bfortier@nobis-group.com	PO #: S000001002			
Project Name: American Tissue Mill	WO #:			
Site: Templeton, MA	Project #:			
	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	EPH Mass DEP	Total Number of containers	Special Instructions/Note:
	Preservation Code:							FJ		F						
01	2023-MW-07-0002'	3/1/23	14:05	G	Solid		Y	✓	✓	✓	✓	✓	✓		21	
02	2023-MW-07-0204'		14:10		Solid			✓	✓	✓	✓	✓	✓		7	
03	2023-MW-07-0406'		14:15		Solid			✓	✓	✓	✓	✓	✓		7	
04	2023-MW-07-0608'		14:20		Solid			✓	✓	✓	✓	✓	✓		7	
05	2023-MW-07-0810'		14:25		Solid			✓	✓	✓	✓	✓	✓		7	
06	2023-MW-07-1012'		14:30		Solid			✓	✓	✓	✓	✓	✓		7	
07	2023-SS-06	2/28/23	09:05		Solid		Y	✓			✓	✓		✓	15	
08	2023-SS-05		09:50		Solid			✓			✓	✓		✓	5	
09	2023-SS-04		09:45		Solid			✓			✓	✓		✓	5	
10	2023-SS-03		09:20		Solid			✓			✓	✓		✓	5	
11	2023-SS-02		09:30		Solid			✓			✓	✓		✓	5	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify) EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 3/2/23 13:35	Company	Received by: [signature] Date/Time: 3/2/23 13:35 Company ENG
Relinquished by: [signature]	Date/Time: 3/2/23 16:16	Company ENE	Received by: [signature] Date/Time: 3/2/23 16:16 Company ENE
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6 to 1.8 °C

Ver: 06/08/2021

10080

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 8
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 8 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9657	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	EPH MassDEP	Total Number of containers	Special Instructions/Note:
				Preservation Code:				F1		F						
12	2023-SS-01	2/27/23	09:35	G	Solid			✓			✓	✓		✓	5	
13	2023-FD-02	2/27/23	08 05	G	Solid			✓			✓	✓		✓	5	
14	2023-SB-04-0002'	3/2/23	09:10		Solid			✓	✓	✓	✓	✓	✓		7	
15	2023-SB-04-0204'		09:15		Solid			✓	✓	✓	✓	✓	✓		7	
16	2023-SB-04-0406'		09:20		Solid			✓	✓	✓	✓	✓	✓		7	
17	2023-SB-04-0608'		09:25		Solid			✓	✓	✓	✓	✓	✓		7	
18	2023-SB-04-0810'		09:30		Solid			✓	✓	✓	✓	✓	✓		7	
19	2023-SB-04-1012'		09:35		Solid			✓	✓	✓	✓	✓	✓		7	
20	2023-SB-03-0002'		10:05		Solid			✓	✓	✓	✓	✓	✓		7	
21	2023-SB-03-0204'		10 10		Solid			✓	✓	✓	✓	✓	✓		7	
22	2023-SB-03-0406'		10:15		Solid			✓	✓	✓	✓	✓	✓		7	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify) EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	DM	3/2/23 13:35			3/2/23 13:35	ENE
2		3/2/23 16:16	ENE		3/2/23 16:16	ENE
3						

Cooler Temperature(s) °C and Other Remarks:

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

100 PO

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 9
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 9 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537	EPH MassDEP	Total Number of containers	Special Instructions/Note:
	Preservation Code:															
23	2023-SB-03-0608'	3/2/23	10:20	G	Solid			✓	✓	✓	✓	✓	✓		7	
24	2023-SB-03-0810'		10:25		Solid			✓	✓	✓	✓	✓	✓		7	
25	2023-SB-03-1012'		10:30		Solid			✓	✓	✓	✓	✓	✓		7	
26	2023-MW-04-0002'		11:10		Solid			✓	✓	✓	✓	✓	✓		7	
27	2023-MW-04-0204'		11:15		Solid			✓	✓	✓	✓	✓	✓		7	
28	2023-MW-04-0406'		11:20		Solid		Y	✓	✓	✓	✓	✓	✓		21	
29	2023-MW-04-0608'		11:25		Solid			✓	✓	✓	✓	✓	✓		7	
30	2023-MW-04-0810'		11:30		Solid			✓	✓	✓	✓	✓	✓		7	
31	2023-MW-04-1012'		11:35		Solid			✓	✓	✓	✓	✓	✓		7	
32	2023-FD-05		08:00		Solid			✓	✓	✓	✓	✓	✓		7	
33	TRIP BLANK-04		—		Solid			✓								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: dmcgouth@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
PWL	3/2/23 13:35			3/2/23 13:35	ENE
	3/2/23 16:16	ENE		3/2/23 16:16	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.6 @ 1.8 TMB

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-07-0002' (620-10080-1)	3/1/23	14:05 Eastern		Solid			X	X	X	2	
2023-MW-07-0002' (620-10080-1MS)	3/1/23	14:05 Eastern	MS	Solid			X	X	X	2	
2023-MW-07-0002' (620-10080-1MSD)	3/1/23	14:05 Eastern	MSD	Solid			X	X	X	2	
2023-MW-07-0204' (620-10080-2)	3/1/23	14:10 Eastern		Solid			X	X	X	2	
2023-MW-07-0406' (620-10080-3)	3/1/23	14:15 Eastern		Solid			X	X	X	2	
2023-MW-07-0608' (620-10080-4)	3/1/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-07-0810' (620-10080-5)	3/1/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-07-1012' (620-10080-6)	3/1/23	14:30 Eastern		Solid			X	X	X	2	
2023-SS-06 (620-10080-7)	2/27/23	09:05 Eastern		Solid			X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 12:55	Eurf			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					3/3/23 10:55	

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

IM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SS-06 (620-10080-7MS)	2/27/23	09:05 Eastern	MS	Solid			X	X		1	
2023-SS-06 (620-10080-7MSD)	2/27/23	09:05 Eastern	MSD	Solid			X	X		1	
2023-SS-05 (620-10080-8)	2/27/23	09:50 Eastern		Solid			X	X		1	
2023-SS-04 (620-10080-9)	2/27/23	09:45 Eastern		Solid			X	X		1	
2023-SS-03 (620-10080-10)	2/27/23	09:20 Eastern		Solid			X	X		1	
2023-SS-02 (620-10080-11)	2/27/23	09:30 Eastern		Solid			X	X		1	
2023-SS-01 (620-10080-12)	2/27/23	09:35 Eastern		Solid			X	X		1	
2023-FD-02 (620-10080-13)	2/27/23	08:05 Eastern		Solid			X	X		1	
2023-SB-04-0002' (620-10080-14)	3/2/23	09:10 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/2/23 12:51	ET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/3/23 10:55	Company ET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023	Analysis Requested		Preservation Codes:
City: Lancaster	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			Other:
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-04-0204' (620-10080-15)	3/2/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-04-0406' (620-10080-16)	3/2/23	09:20 Eastern		Solid			X	X	X	2	
2023-SB-04-0608' (620-10080-17)	3/2/23	09:25 Eastern		Solid			X	X	X	2	
2023-SB-04-0810' (620-10080-18)	3/2/23	09:30 Eastern		Solid			X	X	X	2	
2023-SB-04-1012' (620-10080-19)	3/2/23	09:35 Eastern		Solid			X	X	X	2	
2023-SB-03-0002' (620-10080-20)	3/2/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-03-0204' (620-10080-21)	3/2/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-03-0406' (620-10080-22)	3/2/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-03-0608' (620-10080-23)	3/2/23	10:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company
	3/2/23 12:53	ET			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/3/23 10:35	Company ET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-03-0810' (620-10080-24)	3/2/23	10:25 Eastern		Solid			X	X	X	2	
2023-SB-03-1012' (620-10080-25)	3/2/23	10:36 Eastern		Solid			X	X	X	2	
2023-MW-04-0002' (620-10080-26)	3/2/23	11:10 Eastern		Solid			X	X	X	2	
2023-MW-04-0204' (620-10080-27)	3/2/23	11:15 Eastern		Solid			X	X	X	2	
2023-MW-04-0406' (620-10080-28)	3/2/23	11:20 Eastern		Solid			X	X	X	2	
2023-MW-04-0406' (620-10080-28MS)	3/2/23	11:20 Eastern	MS	Solid			X	X	X	2	
2023-MW-04-0406' (620-10080-28MSD)	3/2/23	11:20 Eastern	MSD	Solid			X	X	X	2	
2023-MW-04-0608' (620-10080-29)	3/2/23	11:25 Eastern		Solid			X	X	X	2	
2023-MW-04-0810' (620-10080-30)	3/2/23	11:30 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/2/23 17:53	EUG			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/3/23 10:55	Company EUG

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 2.8

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8504.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/13/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-04-1012' (620-10080-31)	3/2/23	11:35 Eastern		Solid			X	X	X	2	
2023-FD-05 (620-10080-32)	3/2/23	08:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/2/23 13:53	Company: EUE	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/3/23 10:55	Company: EUET
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4 2.8		

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-07-0002' (620-10080-1)	3/1/23	14:05 Eastern		Solid			X	X	1	
2023-MW-07-0002' (620-10080-1MS)	3/1/23	14:05 Eastern	MS	Solid			X	X	1	
2023-MW-07-0002' (620-10080-1MSD)	3/1/23	14:05 Eastern	MSD	Solid			X	X	1	
2023-MW-07-0204' (620-10080-2)	3/1/23	14:10 Eastern		Solid			X	X	1	
2023-MW-07-0406' (620-10080-3)	3/1/23	14:15 Eastern		Solid			X	X	1	
2023-MW-07-0608' (620-10080-4)	3/1/23	14:20 Eastern		Solid			X	X	1	
2023-MW-07-0810' (620-10080-5)	3/1/23	14:25 Eastern		Solid			X	X	1	
2023-MW-07-1012' (620-10080-6)	3/1/23	14:30 Eastern		Solid			X	X	1	
2023-SB-04-0002' (620-10080-14)	3/2/23	09:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/1/23 12:55	ENG	[signature]	3-4-23 1000	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-04-0204' (620-10080-15)	3/2/23	09:15 Eastern		Solid			X	X	1	
2023-SB-04-0406' (620-10080-16)	3/2/23	09:20 Eastern		Solid			X	X	1	
2023-SB-04-0608' (620-10080-17)	3/2/23	09:25 Eastern		Solid			X	X	1	
2023-SB-04-0810' (620-10080-18)	3/2/23	09:30 Eastern		Solid			X	X	1	
2023-SB-04-1012' (620-10080-19)	3/2/23	09:35 Eastern		Solid			X	X	1	
2023-SB-03-0002' (620-10080-20)	3/2/23	10:05 Eastern		Solid			X	X	1	
2023-SB-03-0204' (620-10080-21)	3/2/23	10:10 Eastern		Solid			X	X	1	
2023-SB-03-0406' (620-10080-22)	3/2/23	10:15 Eastern		Solid			X	X	1	
2023-SB-03-0608' (620-10080-23)	3/2/23	10:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/8/23 1255	Company: Cu4	Received by: See Pg 1	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-03-0810' (620-10080-24)	3/2/23	10:25 Eastern		Solid			X	X	1	
2023-SB-03-1012' (620-10080-25)	3/2/23	10:36 Eastern		Solid			X	X	1	
2023-MW-04-0002' (620-10080-26)	3/2/23	11:10 Eastern		Solid			X	X	1	
2023-MW-04-0204' (620-10080-27)	3/2/23	11:15 Eastern		Solid			X	X	1	
2023-MW-04-0406' (620-10080-28)	3/2/23	11:20 Eastern		Solid			X	X	1	
2023-MW-04-0406' (620-10080-28MS)	3/2/23	11:20 Eastern	MS	Solid			X	X	1	
2023-MW-04-0406' (620-10080-28MSD)	3/2/23	11:20 Eastern	MSD	Solid			X	X	1	
2023-MW-04-0608' (620-10080-29)	3/2/23	11:25 Eastern		Solid			X	X	1	
2023-MW-04-0810' (620-10080-30)	3/2/23	11:30 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/13/23 [illegible]	Company: [illegible]	Received by: see pg 1	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8506.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10080-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-04-1012' (620-10080-31)	3/2/23	11:35 Eastern		Solid			X	X	1	
2023-FD-05 (620-10080-32)	3/2/23	08:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 3/10/23 13:55	Company: EWE	Received by: See pg 1	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10080-1

Login Number: 10080
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10080-1

Login Number: 10080
List Number: 3
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/06/23 10:09 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10080-1

Login Number: 10080
List Number: 2
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/03/23 01:41 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10124-1

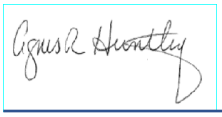
Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10124-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10124-1 through 620-10124-6

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/23/2023

Job ID: 620-10124-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10124-1

Receipt
The samples were received on 3/6/2023 2:47 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20572 and analytical batch 620-20544 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1,2,2-Tetrachloroethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, 2-Methyl-2-propanol, Tetrahydrofuran, Tert-butyl ethyl ether, Isopropyl ether, Methyl tert-butyl ether, and Tert-amyl methyl ether.
(CCVIS 620-20544/3)

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20595 and analytical batch 620-20596 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The following sample experienced a poor purge on the initial low level analysis. No usable data was obtained and no second DI vial was received. The reported values are from the high level volatile analysis: 2023-MW-03-0406' (620-10124-3).

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20616 and analytical batch 620-20617 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-20675 and analytical batch 620-20676 recovered outside control limits for the following analyte: Chloroethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-20675 and analytical batch 620-20676 recovered outside control limits for the following analytes: Chloroethane and Bromomethane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20616 and analytical batch 620-20617 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20675 and analytical batch 620-20676 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20342 and 620-20675 and analytical batch 620-20676 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix

Job ID: 620-10124-1 (Continued)

Laboratory: Eurofins New England (Continued)

interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20616 and analytical batch 620-20617 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20626 recovered above the upper control limit for Aniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 620-20626/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method MAVPH: The method blank for preparation batch 480-660942 and analytical batch 480-660951 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Methods 8082, 8082A: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following CCVs were outside acceptance limits (high biased) on the primary column: (CCV 620-20438/60). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-03-0204' (620-10124-2), 2023-MW-03-0406' (620-10124-3), 2023-MW-03-0608' (620-10124-4) and 2023-MW-03-0810' (620-10124-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002' — Lab Sample ID: 620-10124-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.58		2.71	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	12.5		0.451	0.135	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.223	J	0.451	0.0902	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.34		1.35	0.316	mg/Kg	1	☼	6010D	Total/NA
Lead	3.19		1.35	0.541	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.68		0.902	0.235	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.73		0.902	0.388	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.90		1.80	0.722	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0204' — Lab Sample ID: 620-10124-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.31	J	2.77	1.29	mg/Kg	1	☼	6010D	Total/NA
Barium	15.4		0.462	0.139	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.207	J	0.462	0.0925	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.72		1.39	0.324	mg/Kg	1	☼	6010D	Total/NA
Lead	2.80		1.39	0.555	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.07		0.925	0.240	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.05		0.925	0.398	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.59		1.85	0.740	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0406' — Lab Sample ID: 620-10124-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - ME	0.408	J	0.515	0.0648	mg/Kg	1	☼	8260C	Total/NA
Chloroform - ME	0.0101	J B	0.0515	0.00607	mg/Kg	1	☼	8260C	Total/NA
Arsenic	6.19		2.94	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	91.7		0.490	0.147	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.35		0.490	0.0981	mg/Kg	1	☼	6010D	Total/NA
Chromium	26.9		1.47	0.343	mg/Kg	1	☼	6010D	Total/NA
Lead	8.91		1.47	0.588	mg/Kg	1	☼	6010D	Total/NA
Nickel	13.5		0.981	0.255	mg/Kg	1	☼	6010D	Total/NA
Vanadium	44.9		0.981	0.422	mg/Kg	1	☼	6010D	Total/NA
Zinc	54.7		1.96	0.784	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0608' — Lab Sample ID: 620-10124-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.73		2.83	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	116		0.471	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.08		0.471	0.0943	mg/Kg	1	☼	6010D	Total/NA
Chromium	35.5		1.41	0.330	mg/Kg	1	☼	6010D	Total/NA
Lead	11.3		1.41	0.566	mg/Kg	1	☼	6010D	Total/NA
Nickel	16.4		0.943	0.245	mg/Kg	1	☼	6010D	Total/NA
Selenium	2.20	J	4.71	1.41	mg/Kg	1	☼	6010D	Total/NA
Vanadium	55.5		0.943	0.405	mg/Kg	1	☼	6010D	Total/NA
Zinc	67.9		1.89	0.754	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-03-0810' — Lab Sample ID: 620-10124-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0485		0.0256	0.0199	mg/Kg	1	☼	8082	Total/NA
Arsenic	8.38		3.28	1.53	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client Sample ID: 2023-MW-03-0810' (Continued) Lab Sample ID: 620-10124-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	122		0.546	0.164	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.12		0.546	0.109	mg/Kg	1	☼	6010D	Total/NA
Chromium	36.2		1.64	0.382	mg/Kg	1	☼	6010D	Total/NA
Lead	11.9		1.64	0.655	mg/Kg	1	☼	6010D	Total/NA
Nickel	20.9		1.09	0.284	mg/Kg	1	☼	6010D	Total/NA
Selenium	3.30	J	5.46	1.64	mg/Kg	1	☼	6010D	Total/NA
Vanadium	60.0		1.09	0.470	mg/Kg	1	☼	6010D	Total/NA
Zinc	81.3		2.18	0.874	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-07 Lab Sample ID: 620-10124-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002'
Date Collected: 03/03/23 14:20
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-1
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00464	0.00303	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Acetone	ND		0.0464	0.0104	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Acrylonitrile	ND		0.00464	0.00279	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Benzene	ND		0.00464	0.00310	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromobenzene	ND		0.00464	0.00309	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromochloromethane	ND		0.00464	0.00264	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromodichloromethane	ND		0.00464	0.00341	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromoform	ND		0.00464	0.00355	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Bromomethane	ND		0.00929	0.00579	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2-Butanone (MEK)	ND		0.00929	0.00370	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
n-Butylbenzene	ND		0.00929	0.00498	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
sec-Butylbenzene	ND		0.00464	0.00374	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
tert-Butylbenzene	ND		0.00464	0.00366	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Carbon disulfide	ND		0.00929	0.00326	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Carbon tetrachloride	ND		0.00464	0.00293	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chlorobenzene	ND		0.00464	0.00340	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chloroethane	ND		0.00929	0.00341	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chloroform	ND		0.00464	0.00312	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Chloromethane	ND		0.00929	0.00357	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2-Chlorotoluene	ND		0.00464	0.00370	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
4-Chlorotoluene	ND		0.00464	0.00403	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00929	0.00394	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Dibromochloromethane	ND		0.00464	0.00307	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dibromoethane (EDB)	ND		0.00464	0.00334	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Dibromomethane	ND		0.00464	0.00273	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dichlorobenzene	ND		0.00464	0.00431	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3-Dichlorobenzene	ND		0.00464	0.00373	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,4-Dichlorobenzene	ND		0.00464	0.00440	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00929	0.00249	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1-Dichloroethane	ND		0.00464	0.00315	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dichloroethane	ND		0.00464	0.00313	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1-Dichloroethene	ND		0.00464	0.00284	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
cis-1,2-Dichloroethene	ND		0.00464	0.00268	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
trans-1,2-Dichloroethene	ND		0.00464	0.00289	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2-Dichloropropane	ND		0.00464	0.00307	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3-Dichloropropane	ND		0.00464	0.00355	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2,2-Dichloropropane	ND		0.00464	0.00320	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1-Dichloropropene	ND		0.00464	0.00316	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
cis-1,3-Dichloropropene	ND		0.00464	0.00303	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
trans-1,3-Dichloropropene	ND		0.00464	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethylbenzene	ND		0.00464	0.00332	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Hexachlorobutadiene	ND		0.00929	0.00467	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
2-Hexanone (MBK)	ND		0.00929	0.00273	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Isopropylbenzene	ND		0.00464	0.00351	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
4-Isopropyltoluene	ND		0.00464	0.00456	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Methyl tert-butyl ether	ND		0.00464	0.00268	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00929	0.00300	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Methylene Chloride	ND		0.00929	0.00249	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Naphthalene	ND		0.00464	0.00420	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00464	0.00393	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Styrene	ND		0.00464	0.00360	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,1,2-Tetrachloroethane	ND		0.00464	0.00348	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,2,2-Tetrachloroethane	ND		0.00464	0.00425	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Tetrachloroethene	ND		0.00464	0.00258	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Toluene	ND		0.00464	0.00294	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,3-Trichlorobenzene	ND		0.00464	0.00392	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,4-Trichlorobenzene	ND		0.00464	0.00428	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3,5-Trichlorobenzene	ND		0.00464	0.00441	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,1-Trichloroethane	ND		0.00464	0.00317	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,1,2-Trichloroethane	ND		0.00464	0.00350	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Trichloroethene	ND		0.00464	0.00312	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00464	0.00355	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,3-Trichloropropane	ND		0.00464	0.00412	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,2,4-Trimethylbenzene	ND		0.00464	0.00393	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3,5-Trimethylbenzene	ND		0.00464	0.00395	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Vinyl chloride	ND		0.00464	0.00283	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
m,p-Xylene	ND		0.00464	0.00634	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
o-Xylene	ND		0.00464	0.00339	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Tetrahydrofuran	ND		0.00929	0.00235	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethyl ether	ND		0.00464	0.00244	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Tert-amyl methyl ether	ND		0.00464	0.00367	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethyl tert-butyl ether	ND		0.00464	0.00306	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
di-Isopropyl ether	ND		0.00464	0.00332	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
tert-Butanol	ND		0.0929	0.0249	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,4-Dioxane	ND		0.0929	0.0289	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
trans-1,4-Dichloro-2-butene	ND		0.0232	0.00343	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Ethanol	ND		0.929	0.0576	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
1,3-Dichloropropene, Total	ND		0.00464	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1
Xylenes, Total	ND		0.0139	0.00464	mg/Kg	☼	03/16/23 16:25	03/16/23 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.365	0.0649	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,2,4-Trichlorobenzene	ND		0.365	0.0836	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,2-Dichlorobenzene	ND		0.365	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,3-Dichlorobenzene	ND		0.365	0.0884	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1,4-Dichlorobenzene	ND		0.365	0.0859	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
1-Methylnaphthalene	ND		0.0738	0.0619	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4,5-Trichlorophenol	ND		0.365	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4,6-Trichlorophenol	ND		0.185	0.0451	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4-Dichlorophenol	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4-Dimethylphenol	ND		0.365	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,4-Dinitrophenol	ND		0.365	0.0960	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002'
Date Collected: 03/03/23 14:20
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-1
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2,6-Dinitrotoluene	ND		0.185	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Chloronaphthalene	ND		0.365	0.0844	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Chlorophenol	ND		0.185	0.0755	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Methylnaphthalene	ND		0.0738	0.0545	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Methylphenol	ND		0.365	0.0533	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Nitroaniline	ND		0.365	0.0347	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
2-Nitrophenol	ND		0.185	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
3 & 4 Methylphenol	ND		0.365	0.0691	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
3,3'-Dichlorobenzidine	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
3-Nitroaniline	ND		0.365	0.0326	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4,6-Dinitro-2-methylphenol	ND		0.365	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Bromophenyl phenyl ether	ND		0.365	0.0412	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Chloro-3-methylphenol	ND		0.365	0.0714	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Chloroaniline	ND		0.185	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Chlorophenyl phenyl ether	ND		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Nitroaniline	ND		0.185	0.0583	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
4-Nitrophenol	ND		0.365	0.127	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Acenaphthene	ND		0.0738	0.0588	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Acenaphthylene	ND		0.0738	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Acetophenone	ND		0.185	0.0450	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Aniline	ND		0.365	0.0280	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Anthracene	ND		0.0738	0.0427	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Azobenzene/Diphenyldiazene	ND		0.365	0.0623	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzidine	ND		0.730	0.108	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[a]anthracene	ND		0.0738	0.0415	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[a]pyrene	ND		0.0738	0.0528	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[b]fluoranthene	ND		0.0738	0.0612	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[g,h,i]perylene	ND		0.0738	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzo[k]fluoranthene	ND		0.0738	0.0574	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzoic acid	ND		0.365	0.251	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Benzyl alcohol	ND		0.365	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Bis(2-chloroethoxy)methane	ND		0.365	0.0635	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Bis(2-chloroethyl)ether	ND		0.185	0.0604	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
bis (2-chloroisopropyl) ether	ND		0.185	0.0822	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Bis(2-ethylhexyl) phthalate	ND		0.185	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Butyl benzyl phthalate	ND		0.365	0.0366	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Carbazole	ND		0.185	0.0483	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Chrysene	ND		0.0738	0.0417	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Dibenz(a,h)anthracene	ND		0.0738	0.0563	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Dibenzofuran	ND		0.185	0.0639	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Diethyl phthalate	ND		0.365	0.0400	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Dimethyl phthalate	ND		0.365	0.0476	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Di-n-butyl phthalate	ND		0.365	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Di-n-octyl phthalate	ND		0.365	0.0603	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Fluoranthene	ND		0.0738	0.0432	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Fluorene	ND		0.0738	0.0673	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Hexachlorobenzene	ND		0.185	0.0512	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Hexachlorobutadiene	ND		0.185	0.0921	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.185	0.0706	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Hexachloroethane	ND		0.185	0.0725	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0738	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Isophorone	ND		0.185	0.0505	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Naphthalene	ND		0.0738	0.0708	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Nitrobenzene	ND		0.185	0.0853	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
N-Nitrosodimethylamine	ND		0.185	0.0484	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
N-Nitrosodi-n-propylamine	ND		0.185	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
N-Nitrosodiphenylamine	ND		0.365	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pentachloronitrobenzene	ND		0.365	0.0576	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pentachlorophenol	ND		0.365	0.149	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Phenanthrene	ND		0.0738	0.0418	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Phenol	ND		0.365	0.0752	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pyrene	ND		0.0738	0.0407	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1
Pyridine	ND		0.365	0.0864	mg/Kg	☼	03/15/23 09:29	03/17/23 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
2-Fluorophenol (Surr)	*92*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:29*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.236	0.121	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.236	0.101	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Ethylbenzene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Methyl tert-butyl ether	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
m,p-Xylene	ND		0.0944	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Naphthalene	ND		0.0472	0.0321	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
o-Xylene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
Toluene	ND		0.0472	0.00944	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
C5-C8 Aliphatics (unadjusted)	ND		0.236	0.121	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
C9-C10 Aromatics	ND		0.236	0.0331	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1
C9-C12 Aliphatics (unadjusted)	ND		0.236	0.101	mg/Kg	☼	03/09/23 07:17	03/09/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:14*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:14*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1254	ND		0.0218	0.0170	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	03/09/23 15:30	03/13/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 19:43*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoroheptanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorononanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorodecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorotridecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorotetradecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorobutanesulfonic acid	ND		2.15	0.430	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorohexanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NEtFOSAA	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NMeFOSAA	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
10:2 FTS	ND		2.15	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoropentanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoroheptanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorononanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorodecanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctanesulfonamide	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorohexadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorooctadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorobutanoic acid	ND		2.15	0.859	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoropentanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NMeFOSE	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NMeFOSA	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NEtFOSE	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
NEtFOSA	ND		2.15	0.537	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
HFPODA	ND		2.15	1.07	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
DONA	ND		3.22	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
9Cl-PF3ONS	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
11Cl-PF3OUdS	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluorododecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
4:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
Perfluoroundecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1

Client Sample ID: 2023-MW-03-0002' **Lab Sample ID: 620-10124-1**
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1
8:2 Fluorotelomer sulfonic acid	ND		3.22	0.644	ug/Kg	☼	03/13/23 07:29	03/22/23 15:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
M2-8:2 FTS	*70*		*15 - 200*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
M2-6:2 FTS	*81*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C5 PFHxA	*87*		*10 - 174*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C4 PFHpA	*85*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C8 PFOA	*86*		*26 - 159*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C9 PFNA	*91*		*26 - 165*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C6 PFDA	*82*		*26 - 161*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C7 PFUnA	*80*		*12 - 173*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C2 PFTeDA	*76*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C3 PFHxS	*91*		*24 - 171*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C8 PFOS	*96*		*41 - 154*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d3-NMeFOSAA	*11*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d5-NEtFOSAA	*14*		*10 - 193*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C8 FOSA	*88*		*14 - 163*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C4 PFBA	*83*		*28 - 153*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C5 PFPeA	*82*		*24 - 161*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d7-N-MeFOSE-M	*84*		*10 - 179*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d3-NMePFOSA	*86*		*10 - 175*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d9-N-EtFOSE-M	*82*		*10 - 185*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
d5-NEtPFOSA	*87*		*10 - 180*	*03/13/23 07:29*	*03/22/23 15:28*	*1*
13C3 HFPO-DA	*78*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.51	1.53	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Arsenic	**3.58**		2.71	1.26	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Barium	**12.5**		0.451	0.135	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Beryllium	**0.223**	**J**	0.451	0.0902	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Cadmium	ND		0.451	0.0902	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Chromium	**3.34**		1.35	0.316	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Lead	**3.19**		1.35	0.541	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Nickel	**1.68**		0.902	0.235	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Selenium	ND		4.51	1.35	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Silver	ND	^3+	0.902	0.361	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Thallium	ND		2.71	1.17	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Vanadium	**5.73**		0.902	0.388	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1
Zinc	**8.90**		1.80	0.722	mg/Kg	☼	03/09/23 00:11	03/13/23 20:28	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0677	0.0226	mg/Kg	☼	03/09/23 00:35	03/09/23 08:29	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0002'
Date Collected: 03/03/23 14:20
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-1
Matrix: Solid
Percent Solids: 88.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	88.7		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0204'
Date Collected: 03/03/23 14:25
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-2
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00444	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Acetone	ND		0.0444	0.00994	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Acrylonitrile	ND		0.00444	0.00266	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Benzene	ND		0.00444	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromobenzene	ND		0.00444	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromochloromethane	ND		0.00444	0.00252	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromodichloromethane	ND		0.00444	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromoform	ND		0.00444	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Bromomethane	ND		0.00888	0.00553	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2-Butanone (MEK)	ND		0.00888	0.00353	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
n-Butylbenzene	ND		0.00888	0.00476	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
sec-Butylbenzene	ND		0.00444	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
tert-Butylbenzene	ND		0.00444	0.00350	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Carbon disulfide	ND		0.00888	0.00312	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Carbon tetrachloride	ND		0.00444	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chlorobenzene	ND		0.00444	0.00325	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chloroethane	ND		0.00888	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chloroform	ND		0.00444	0.00298	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Chloromethane	ND		0.00888	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2-Chlorotoluene	ND		0.00444	0.00353	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
4-Chlorotoluene	ND		0.00444	0.00385	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00888	0.00376	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Dibromochloromethane	ND		0.00444	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dibromoethane (EDB)	ND		0.00444	0.00319	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Dibromomethane	ND		0.00444	0.00261	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dichlorobenzene	ND		0.00444	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3-Dichlorobenzene	ND		0.00444	0.00356	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,4-Dichlorobenzene	ND		0.00444	0.00421	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00888	0.00238	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1-Dichloroethane	ND		0.00444	0.00301	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dichloroethane	ND		0.00444	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1-Dichloroethene	ND		0.00444	0.00272	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
cis-1,2-Dichloroethene	ND		0.00444	0.00257	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
trans-1,2-Dichloroethene	ND		0.00444	0.00276	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2-Dichloropropane	ND		0.00444	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3-Dichloropropane	ND		0.00444	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2,2-Dichloropropane	ND		0.00444	0.00306	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1-Dichloropropene	ND		0.00444	0.00302	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
cis-1,3-Dichloropropene	ND		0.00444	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
trans-1,3-Dichloropropene	ND		0.00444	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethylbenzene	ND		0.00444	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Hexachlorobutadiene	ND		0.00888	0.00446	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
2-Hexanone (MBK)	ND		0.00888	0.00261	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Isopropylbenzene	ND		0.00444	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
4-Isopropyltoluene	ND		0.00444	0.00436	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Methyl tert-butyl ether	ND		0.00444	0.00256	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.00888	0.00287	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Methylene Chloride	ND		0.00888	0.00238	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Naphthalene	ND		0.00444	0.00401	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00444	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Styrene	ND		0.00444	0.00343	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,1,2-Tetrachloroethane	ND		0.00444	0.00333	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,2,2-Tetrachloroethane	ND		0.00444	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Tetrachloroethene	ND		0.00444	0.00247	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Toluene	ND		0.00444	0.00281	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,3-Trichlorobenzene	ND		0.00444	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,4-Trichlorobenzene	ND		0.00444	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3,5-Trichlorobenzene	ND		0.00444	0.00422	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,1-Trichloroethane	ND		0.00444	0.00303	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,1,2-Trichloroethane	ND		0.00444	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Trichloroethene	ND		0.00444	0.00298	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00444	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,3-Trichloropropane	ND		0.00444	0.00394	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,2,4-Trimethylbenzene	ND		0.00444	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3,5-Trimethylbenzene	ND		0.00444	0.00377	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Vinyl chloride	ND		0.00444	0.00271	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
m,p-Xylene	ND		0.00444	0.00606	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
o-Xylene	ND		0.00444	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Tetrahydrofuran	ND		0.00888	0.00225	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethyl ether	ND		0.00444	0.00233	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Tert-amyl methyl ether	ND		0.00444	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethyl tert-butyl ether	ND		0.00444	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
di-Isopropyl ether	ND		0.00444	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
tert-Butanol	ND		0.0888	0.0238	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,4-Dioxane	ND		0.0888	0.0276	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
trans-1,4-Dichloro-2-butene	ND		0.0222	0.00328	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Ethanol	ND		0.888	0.0550	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
1,3-Dichloropropene, Total	ND		0.00444	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1
Xylenes, Total	ND		0.0133	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.358	0.0637	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,2,4-Trichlorobenzene	ND		0.358	0.0820	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,2-Dichlorobenzene	ND		0.358	0.0690	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,3-Dichlorobenzene	ND		0.358	0.0867	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1,4-Dichlorobenzene	ND		0.358	0.0843	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
1-Methylnaphthalene	ND		0.0723	0.0607	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4,5-Trichlorophenol	ND		0.358	0.0410	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4,6-Trichlorophenol	ND		0.181	0.0443	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4-Dichlorophenol	ND		0.181	0.0721	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4-Dimethylphenol	ND		0.358	0.0525	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,4-Dinitrophenol	ND		0.358	0.0941	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1

Client: Nobis Engineering, Inc.
Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0204'
Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25
Matrix: Solid
Date Received: 03/06/23 14:47
Percent Solids: 90.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2,6-Dinitrotoluene	ND		0.181	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Chloronaphthalene	ND		0.358	0.0828	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Chlorophenol	ND		0.181	0.0741	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Methylnaphthalene	ND		0.0723	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Methylphenol	ND		0.358	0.0523	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Nitroaniline	ND		0.358	0.0341	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
2-Nitrophenol	ND		0.181	0.0643	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
3 & 4 Methylphenol	ND		0.358	0.0678	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
3,3'-Dichlorobenzidine	ND		0.358	0.0591	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
3-Nitroaniline	ND		0.358	0.0320	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4,6-Dinitro-2-methylphenol	ND		0.358	0.0643	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Bromophenyl phenyl ether	ND		0.358	0.0405	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Chloro-3-methylphenol	ND		0.358	0.0701	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Chloroaniline	ND		0.181	0.0274	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Chlorophenyl phenyl ether	ND		0.358	0.0383	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Nitroaniline	ND		0.181	0.0572	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
4-Nitrophenol	ND		0.358	0.125	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Acenaphthene	ND		0.0723	0.0577	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Acenaphthylene	ND		0.0723	0.0475	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Acetophenone	ND		0.181	0.0441	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Aniline	ND		0.358	0.0274	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Anthracene	ND		0.0723	0.0419	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Azobenzene/Diphenyldiazene	ND		0.358	0.0611	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzidine	ND		0.716	0.106	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[a]anthracene	ND		0.0723	0.0407	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[a]pyrene	ND		0.0723	0.0517	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[b]fluoranthene	ND		0.0723	0.0600	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[g,h,i]perylene	ND		0.0723	0.0565	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzo[k]fluoranthene	ND		0.0723	0.0563	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzoic acid	ND		0.358	0.246	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Benzyl alcohol	ND		0.358	0.0649	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Bis(2-chloroethoxy)methane	ND		0.358	0.0623	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Bis(2-chloroethyl)ether	ND		0.181	0.0592	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
bis (2-chloroisopropyl) ether	ND		0.181	0.0806	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Bis(2-ethylhexyl) phthalate	ND		0.181	0.0461	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Butyl benzyl phthalate	ND		0.358	0.0359	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Carbazole	ND		0.181	0.0474	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Chrysene	ND		0.0723	0.0409	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Dibenz(a,h)anthracene	ND		0.0723	0.0552	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Dibenzofuran	ND		0.181	0.0627	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Diethyl phthalate	ND		0.358	0.0393	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Dimethyl phthalate	ND		0.358	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Di-n-butyl phthalate	ND		0.358	0.0383	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Di-n-octyl phthalate	ND		0.358	0.0591	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Fluoranthene	ND		0.0723	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Fluorene	ND		0.0723	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Hexachlorobenzene	ND		0.181	0.0502	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Hexachlorobutadiene	ND		0.181	0.0904	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.181	0.0692	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Hexachloroethane	ND		0.181	0.0712	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Indeno[1,2,3-cd]pyrene	ND		0.0723	0.0614	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Isophorone	ND		0.181	0.0496	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Naphthalene	ND		0.0723	0.0694	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Nitrobenzene	ND		0.181	0.0836	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
N-Nitrosodimethylamine	ND		0.181	0.0475	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
N-Nitrosodi-n-propylamine	ND		0.181	0.0721	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
N-Nitrosodiphenylamine	ND		0.358	0.0457	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pentachloronitrobenzene	ND		0.358	0.0565	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pentachlorophenol	ND		0.358	0.146	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Phenanthrene	ND		0.0723	0.0410	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Phenol	ND		0.358	0.0738	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pyrene	ND		0.0723	0.0399	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1
Pyridine	ND		0.358	0.0847	mg/Kg	☼	03/15/23 09:29	03/17/23 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
2-Fluorophenol (Surr)	*85*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
Phenol-d5 (Surr)	*71*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/15/23 09:29*	*03/17/23 19:58*	*1*
Terphenyl-d14	*107*		*30 - 130*	*03/15/23 09:29*	*03/17/23 19:58*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.224	0.115	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.224	0.0958	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Ethylbenzene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Methyl tert-butyl ether	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
m,p-Xylene	ND		0.0895	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Naphthalene	ND		0.0448	0.0304	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
o-Xylene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
Toluene	ND		0.0448	0.00895	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
C5-C8 Aliphatics (unadjusted)	ND		0.224	0.115	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
C9-C10 Aromatics	ND		0.224	0.0313	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1
C9-C12 Aliphatics (unadjusted)	ND		0.224	0.0958	mg/Kg	☼	03/09/23 07:17	03/09/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:53*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/09/23 07:17*	*03/09/23 18:53*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0216	0.0155	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1221	ND		0.0216	0.00637	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1232	ND		0.0216	0.00598	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1

Client Sample ID: 2023-MW-03-0204'
Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25
Matrix: Solid
Date Received: 03/06/23 14:47
Percent Solids: 90.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0216	0.00341	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1248	ND		0.0216	0.00674	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1254	ND		0.0216	0.0168	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1262	ND		0.0216	0.00503	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1260	ND		0.0216	0.00464	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1
PCB-1268	ND		0.0216	0.00459	mg/Kg	☼	03/09/23 15:30	03/13/23 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:00*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoroheptanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorononanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorodecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorotridecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorotetradecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorobutanesulfonic acid	ND		2.02	0.403	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorohexanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NEtFOSAA	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NMeFOSAA	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
10:2 FTS	ND		2.02	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoropentanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoroheptanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorononanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorodecanesulfonic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctanesulfonamide	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorohexadecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorooctadecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorobutanoic acid	ND		2.02	0.807	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoropentanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NMeFOSE	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NMeFOSA	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NEtFOSE	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
NEtFOSA	ND		2.02	0.504	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
HFPODA	ND		2.02	1.01	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
DONA	ND		3.03	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
9Cl-PF3ONS	ND		2.02	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
11Cl-PF3OUdS	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluorododecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.02	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
Perfluoroundecanoic acid	ND		0.605	0.202	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.02	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.03	0.605	ug/Kg	☼	03/13/23 07:29	03/22/23 15:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
M2-8:2 FTS	*90*		*15 - 200*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
M2-6:2 FTS	*91*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C4 PFHpA	*105*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C8 PFOA	*97*		*26 - 159*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C9 PFNA	*94*		*26 - 165*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C6 PFDA	*94*		*26 - 161*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C7 PFUnA	*88*		*12 - 173*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C2-PFDoDA	*87*		*11 - 166*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C3 PFBS	*89*		*27 - 179*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C8 PFOS	*92*		*41 - 154*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d3-NMeFOSAA	*59*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d5-NEtFOSAA	*61*		*10 - 193*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C8 FOSA	*87*		*14 - 163*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C4 PFBA	*95*		*28 - 153*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C5 PFPeA	*93*		*24 - 161*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d9-N-EtFOSE-M	*77*		*10 - 185*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/13/23 07:29*	*03/22/23 15:39*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.62	1.57	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Arsenic	**2.31**	**J**	2.77	1.29	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Barium	**15.4**		0.462	0.139	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Beryllium	**0.207**	**J**	0.462	0.0925	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Cadmium	ND		0.462	0.0925	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Chromium	**3.72**		1.39	0.324	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Lead	**2.80**		1.39	0.555	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Nickel	**2.07**		0.925	0.240	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Selenium	ND		4.62	1.39	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Silver	ND	^3+	0.925	0.370	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Thallium	ND		2.77	1.20	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Vanadium	**6.05**		0.925	0.398	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1
Zinc	**9.59**		1.85	0.740	mg/Kg	☼	03/09/23 00:11	03/13/23 20:22	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0655	0.0218	mg/Kg	☼	03/09/23 00:35	03/09/23 08:31	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0204' **Lab Sample ID: 620-10124-2**
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	90.1		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0406'
Date Collected: 03/03/23 14:30
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-3
Matrix: Solid
Percent Solids: 79.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0515	0.0282	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Acetone	**0.408**	**J**	0.515	0.0648	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Acrylonitrile	ND		0.0515	0.0186	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Benzene	ND		0.0515	0.00823	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromobenzene	ND		0.0515	0.0116	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromochloromethane	ND		0.0515	0.00736	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromodichloromethane	ND		0.0515	0.0133	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromoform	ND		0.0515	0.0110	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Bromomethane	ND		0.103	0.0254	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2-Butanone (MEK)	ND		0.103	0.0235	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
n-Butylbenzene	ND		0.0515	0.0206	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
sec-Butylbenzene	ND		0.0515	0.0158	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
tert-Butylbenzene	ND		0.0515	0.0210	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Carbon disulfide	ND		0.103	0.0190	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Carbon tetrachloride	ND		0.0515	0.0154	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chlorobenzene	ND		0.0515	0.00623	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chloroethane	ND		0.103	0.0230	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chloroform	**0.0101**	**J B**	0.0515	0.00607	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Chloromethane	ND		0.103	0.0612	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2-Chlorotoluene	ND		0.0515	0.0128	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
4-Chlorotoluene	ND		0.0515	0.00931	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dibromo-3-Chloropropane	ND		0.103	0.0203	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Dibromochloromethane	ND		0.0515	0.00813	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dibromoethane (EDB)	ND		0.0515	0.0140	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Dibromomethane	ND		0.0515	0.00967	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dichlorobenzene	ND		0.0515	0.00926	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3-Dichlorobenzene	ND		0.0515	0.0128	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,4-Dichlorobenzene	ND		0.0515	0.00921	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.103	0.0674	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1-Dichloroethane	ND		0.0515	0.0119	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dichloroethane	ND		0.0515	0.0135	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1-Dichloroethene	ND		0.0515	0.0132	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
cis-1,2-Dichloroethene	ND		0.0515	0.0171	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
trans-1,2-Dichloroethene	ND		0.0515	0.0117	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2-Dichloropropane	ND		0.0515	0.0179	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3-Dichloropropane	ND		0.0515	0.0163	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2,2-Dichloropropane	ND		0.0515	0.0135	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1-Dichloropropene	ND		0.0515	0.0157	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
cis-1,3-Dichloropropene	ND		0.0515	0.0121	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
trans-1,3-Dichloropropene	ND		0.0515	0.0209	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethylbenzene	ND		0.0515	0.0108	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Hexachlorobutadiene	ND		0.0515	0.0165	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
2-Hexanone (MBK)	ND		0.103	0.0342	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Isopropylbenzene	ND		0.0515	0.0187	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
4-Isopropyltoluene	ND		0.0515	0.0143	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Methyl tert-butyl ether	ND		0.0515	0.0155	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.103	0.0368	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Methylene Chloride	ND		0.103	0.0439	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Naphthalene	ND		0.0515	0.0149	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - ME (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0515	0.0128	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Styrene	ND		0.0515	0.00679	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,1,2-Tetrachloroethane	ND		0.0515	0.0124	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,2,2-Tetrachloroethane	ND		0.0515	0.0163	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Tetrachloroethene	ND		0.0515	0.0162	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Toluene	ND		0.0515	0.00829	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,3-Trichlorobenzene	ND		0.0515	0.0120	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,4-Trichlorobenzene	ND		0.0515	0.00849	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3,5-Trichlorobenzene	ND		0.0515	0.00813	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,1-Trichloroethane	ND		0.0515	0.0125	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,1,2-Trichloroethane	ND		0.0515	0.0159	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Trichloroethene	ND		0.0515	0.00880	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Trichlorofluoromethane (Freon 11)	ND		0.0515	0.0233	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,3-Trichloropropane	ND		0.0515	0.0237	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,2,4-Trimethylbenzene	ND		0.0515	0.0130	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3,5-Trimethylbenzene	ND		0.0515	0.0108	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Vinyl chloride	ND		0.0515	0.0253	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
m,p-Xylene	ND		0.0515	0.0303	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
o-Xylene	ND		0.0515	0.0158	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Tetrahydrofuran	ND		0.103	0.0376	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethyl ether	ND		0.0515	0.0139	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Tert-amyl methyl ether	ND		0.0515	0.0285	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethyl tert-butyl ether	ND		0.0515	0.0143	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
di-Isopropyl ether	ND		0.0515	0.0166	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
tert-Butanol	ND		1.03	0.731	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,4-Dioxane	ND		1.03	0.303	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
trans-1,4-Dichloro-2-butene	ND		0.257	0.0340	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Ethanol	ND		10.3	0.885	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
1,3-Dichloropropene, Total	ND		0.0515	0.0209	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1
Xylenes, Total	ND		0.154	0.154	mg/Kg	☼	03/16/23 13:31	03/16/23 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/16/23 13:31*	*03/16/23 13:57*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.397	0.0706	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,2,4-Trichlorobenzene	ND		0.397	0.0909	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,2-Dichlorobenzene	ND		0.397	0.0764	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,3-Dichlorobenzene	ND		0.397	0.0960	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1,4-Dichlorobenzene	ND		0.397	0.0934	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
1-Methylnaphthalene	ND		0.0802	0.0673	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4,5-Trichlorophenol	ND		0.397	0.0454	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4,6-Trichlorophenol	ND		0.201	0.0490	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4-Dichlorophenol	ND		0.201	0.0799	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4-Dimethylphenol	ND		0.397	0.0582	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,4-Dinitrophenol	ND		0.397	0.104	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1

Client: Nobis Engineering, Inc.
Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0406'
Lab Sample ID: 620-10124-3
Date Collected: 03/03/23 14:30
Matrix: Solid
Date Received: 03/06/23 14:47
Percent Solids: 79.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2,6-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Chloronaphthalene	ND		0.397	0.0917	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Chlorophenol	ND		0.201	0.0821	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Methylnaphthalene	ND		0.0802	0.0593	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Methylphenol	ND		0.397	0.0579	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Nitroaniline	ND		0.397	0.0377	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
2-Nitrophenol	ND		0.201	0.0713	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
3 & 4 Methylphenol	ND		0.397	0.0751	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
3,3'-Dichlorobenzidine	ND		0.397	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
3-Nitroaniline	ND		0.397	0.0355	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4,6-Dinitro-2-methylphenol	ND		0.397	0.0713	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Bromophenyl phenyl ether	ND		0.397	0.0448	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Chloro-3-methylphenol	ND		0.397	0.0776	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Chloroaniline	ND		0.201	0.0304	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Chlorophenyl phenyl ether	ND		0.397	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Nitroaniline	ND		0.201	0.0633	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
4-Nitrophenol	ND		0.397	0.138	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Acenaphthene	ND		0.0802	0.0639	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Acenaphthylene	ND		0.0802	0.0526	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Acetophenone	ND		0.201	0.0489	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Aniline	ND		0.397	0.0304	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Anthracene	ND		0.0802	0.0464	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Azobenzene/Diphenyldiazene	ND		0.397	0.0677	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzidine	ND		0.793	0.117	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[a]anthracene	ND		0.0802	0.0451	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[a]pyrene	ND		0.0802	0.0573	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[b]fluoranthene	ND		0.0802	0.0665	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[g,h,i]perylene	ND		0.0802	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzo[k]fluoranthene	ND		0.0802	0.0624	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzoic acid	ND		0.397	0.273	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Benzyl alcohol	ND		0.397	0.0719	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Bis(2-chloroethoxy)methane	ND		0.397	0.0690	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Bis(2-chloroethyl)ether	ND		0.201	0.0656	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0893	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0511	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Butyl benzyl phthalate	ND		0.397	0.0398	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Carbazole	ND		0.201	0.0525	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Chrysene	ND		0.0802	0.0453	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Dibenz(a,h)anthracene	ND		0.0802	0.0612	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Dibenzofuran	ND		0.201	0.0695	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Diethyl phthalate	ND		0.397	0.0435	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Dimethyl phthalate	ND		0.397	0.0517	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Di-n-butyl phthalate	ND		0.397	0.0424	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Di-n-octyl phthalate	ND		0.397	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Fluoranthene	ND		0.0802	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Fluorene	ND		0.0802	0.0732	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Hexachlorobenzene	ND		0.201	0.0557	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0767	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Hexachloroethane	ND		0.201	0.0789	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0802	0.0680	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Isophorone	ND		0.201	0.0549	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Naphthalene	ND		0.0802	0.0769	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Nitrobenzene	ND		0.201	0.0927	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
N-Nitrosodimethylamine	ND		0.201	0.0526	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0799	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
N-Nitrosodiphenylamine	ND		0.397	0.0506	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pentachloronitrobenzene	ND		0.397	0.0626	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pentachlorophenol	ND		0.397	0.162	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Phenanthrene	ND		0.0802	0.0454	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Phenol	ND		0.397	0.0817	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pyrene	ND		0.0802	0.0442	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1
Pyridine	ND		0.397	0.0939	mg/Kg	☼	03/15/23 09:29	03/17/23 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
Nitrobenzene-d5 (Surr)	*94*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
Phenol-d5 (Surr)	*79*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:26*	*1*
Terphenyl-d14	*97*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:26*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.243	0.124	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.243	0.104	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Ethylbenzene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Methyl tert-butyl ether	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
m,p-Xylene	ND		0.0970	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Naphthalene	ND		0.0485	0.0330	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
o-Xylene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
Toluene	ND		0.0485	0.00970	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
C5-C8 Aliphatics (unadjusted)	ND		0.243	0.124	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
C9-C10 Aromatics	ND		0.243	0.0340	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1
C9-C12 Aliphatics (unadjusted)	ND		0.243	0.104	mg/Kg	☼	03/09/23 07:17	03/09/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 19:33*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/09/23 07:17*	*03/09/23 19:33*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0248	0.0178	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1221	ND		0.0248	0.00732	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1232	ND		0.0248	0.00686	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0248	0.00391	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1248	ND		0.0248	0.00774	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1254	ND		0.0248	0.0193	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1262	ND		0.0248	0.00577	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1260	ND		0.0248	0.00532	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1
PCB-1268	ND		0.0248	0.00527	mg/Kg	☼	03/09/23 15:30	03/13/23 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:17*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoroheptanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorononanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorodecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorotridecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorotetradecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorobutanesulfonic acid	ND		2.49	0.497	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorohexanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NEtFOSAA	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NMeFOSAA	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
10:2 FTS	ND		2.49	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoropentanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoroheptanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorononanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorodecanesulfonic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctanesulfonamide	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorohexadecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorooctadecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorobutanoic acid	ND		2.49	0.994	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoropentanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NMeFOSE	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NMeFOSA	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NEtFOSE	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
NEtFOSA	ND		2.49	0.621	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
HFPODA	ND		2.49	1.24	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
DONA	ND		3.73	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
9Cl-PF3ONS	ND		2.49	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
11Cl-PF3OUdS	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluorododecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.49	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
Perfluoroundecanoic acid	ND		0.746	0.249	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1

Client Sample ID: 2023-MW-03-0406' **Lab Sample ID: 620-10124-3**
Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.49	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.73	0.746	ug/Kg	☼	03/13/23 07:29	03/22/23 15:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
M2-8:2 FTS	*68*		*15 - 200*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
M2-6:2 FTS	*74*		*10 - 200*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C5 PFHxA	*86*		*10 - 174*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C4 PFHpA	*85*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C8 PFOA	*88*		*26 - 159*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C9 PFNA	*86*		*26 - 165*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C6 PFDA	*82*		*26 - 161*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C7 PFUnA	*78*		*12 - 173*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C2 PFTeDA	*76*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C3 PFBS	*86*		*27 - 179*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C3 PFHxS	*90*		*24 - 171*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C8 PFOS	*92*		*41 - 154*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d5-NEtFOSAA	*17*		*10 - 193*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C8 FOSA	*85*		*14 - 163*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C4 PFBA	*84*		*28 - 153*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d7-N-MeFOSE-M	*79*		*10 - 179*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d9-N-EtFOSE-M	*74*		*10 - 185*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/13/23 07:29*	*03/22/23 15:50*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/13/23 07:29*	*03/22/23 15:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.90	1.67	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Arsenic	**6.19**		2.94	1.37	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Barium	**91.7**		0.490	0.147	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Beryllium	**1.35**		0.490	0.0981	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Cadmium	ND		0.490	0.0981	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Chromium	**26.9**		1.47	0.343	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Lead	**8.91**		1.47	0.588	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Nickel	**13.5**		0.981	0.255	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Selenium	ND		4.90	1.47	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Silver	ND	^3+	0.981	0.392	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Thallium	ND		29.4	12.7	mg/Kg	☼	03/09/23 00:11	03/13/23 20:19	10
Vanadium	**44.9**		0.981	0.422	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1
Zinc	**54.7**		1.96	0.784	mg/Kg	☼	03/09/23 00:11	03/13/23 20:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0695	0.0232	mg/Kg	☼	03/09/23 00:35	03/09/23 08:27	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0406'
Date Collected: 03/03/23 14:30
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-3
Matrix: Solid
Percent Solids: 79.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.3		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	79.7		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0608'
Date Collected: 03/03/23 14:35
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-4
Matrix: Solid
Percent Solids: 76.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00519	0.00338	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Acetone	ND		0.0519	0.0116	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Acrylonitrile	ND		0.00519	0.00311	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Benzene	ND		0.00519	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromobenzene	ND		0.00519	0.00346	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromochloromethane	ND		0.00519	0.00295	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromodichloromethane	ND		0.00519	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromoform	ND		0.00519	0.00397	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Bromomethane	ND		0.0104	0.00647	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2-Butanone (MEK)	ND		0.0104	0.00413	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
n-Butylbenzene	ND		0.0104	0.00557	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
sec-Butylbenzene	ND		0.00519	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
tert-Butylbenzene	ND		0.00519	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Carbon disulfide	ND		0.0104	0.00364	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Carbon tetrachloride	ND		0.00519	0.00327	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chlorobenzene	ND		0.00519	0.00380	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chloroethane	ND		0.0104	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chloroform	ND		0.00519	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Chloromethane	ND		0.0104	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2-Chlorotoluene	ND		0.00519	0.00413	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
4-Chlorotoluene	ND		0.00519	0.00451	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00440	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Dibromochloromethane	ND		0.00519	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dibromoethane (EDB)	ND		0.00519	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Dibromomethane	ND		0.00519	0.00305	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dichlorobenzene	ND		0.00519	0.00482	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3-Dichlorobenzene	ND		0.00519	0.00416	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,4-Dichlorobenzene	ND		0.00519	0.00492	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0104	0.00278	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1-Dichloroethane	ND		0.00519	0.00352	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dichloroethane	ND		0.00519	0.00350	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1-Dichloroethene	ND		0.00519	0.00318	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
cis-1,2-Dichloroethene	ND		0.00519	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
trans-1,2-Dichloroethene	ND		0.00519	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2-Dichloropropane	ND		0.00519	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3-Dichloropropane	ND		0.00519	0.00397	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2,2-Dichloropropane	ND		0.00519	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1-Dichloropropene	ND		0.00519	0.00353	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
cis-1,3-Dichloropropene	ND		0.00519	0.00338	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
trans-1,3-Dichloropropene	ND		0.00519	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethylbenzene	ND		0.00519	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Hexachlorobutadiene	ND		0.0104	0.00522	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
2-Hexanone (MBK)	ND		0.0104	0.00305	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Isopropylbenzene	ND		0.00519	0.00392	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
4-Isopropyltoluene	ND		0.00519	0.00510	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Methyl tert-butyl ether	ND		0.00519	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Methylene Chloride	ND		0.0104	0.00278	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Naphthalene	ND		0.00519	0.00469	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00519	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Styrene	ND		0.00519	0.00402	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,1,2-Tetrachloroethane	ND		0.00519	0.00389	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,2,2-Tetrachloroethane	ND		0.00519	0.00476	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Tetrachloroethene	ND		0.00519	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Toluene	ND		0.00519	0.00329	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,3-Trichlorobenzene	ND		0.00519	0.00438	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,4-Trichlorobenzene	ND		0.00519	0.00479	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3,5-Trichlorobenzene	ND		0.00519	0.00493	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,1-Trichloroethane	ND		0.00519	0.00354	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,1,2-Trichloroethane	ND		0.00519	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Trichloroethene	ND		0.00519	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00519	0.00397	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,3-Trichloropropane	ND		0.00519	0.00461	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,2,4-Trimethylbenzene	ND		0.00519	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3,5-Trimethylbenzene	ND		0.00519	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Vinyl chloride	ND		0.00519	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
m,p-Xylene	ND		0.00519	0.00709	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
o-Xylene	ND		0.00519	0.00379	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Tetrahydrofuran	ND		0.0104	0.00263	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethyl ether	ND		0.00519	0.00273	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Tert-amyl methyl ether	ND		0.00519	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethyl tert-butyl ether	ND		0.00519	0.00342	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
di-Isopropyl ether	ND		0.00519	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
tert-Butanol	ND		0.104	0.0278	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,4-Dioxane	ND		0.104	0.0323	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
trans-1,4-Dichloro-2-butene	ND		0.0260	0.00383	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Ethanol	ND		1.04	0.0644	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
1,3-Dichloropropene, Total	ND		0.00519	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1
Xylenes, Total	ND		0.0156	0.00519	mg/Kg	☼	03/15/23 12:58	03/15/23 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/15/23 12:58*	*03/15/23 18:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.420	0.0746	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,2,4-Trichlorobenzene	ND		0.420	0.0961	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,2-Dichlorobenzene	ND		0.420	0.0809	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,3-Dichlorobenzene	ND		0.420	0.102	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1,4-Dichlorobenzene	ND		0.420	0.0988	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
1-Methylnaphthalene	ND		0.0848	0.0712	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4,5-Trichlorophenol	ND		0.420	0.0481	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4,6-Trichlorophenol	ND		0.212	0.0519	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4-Dichlorophenol	ND		0.212	0.0846	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4-Dimethylphenol	ND		0.420	0.0615	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,4-Dinitrophenol	ND		0.420	0.110	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0608'
Date Collected: 03/03/23 14:35
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-4
Matrix: Solid
Percent Solids: 76.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.212	0.0497	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2,6-Dinitrotoluene	ND		0.212	0.0497	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Chloronaphthalene	ND		0.420	0.0970	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Chlorophenol	ND		0.212	0.0868	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Methylnaphthalene	ND		0.0848	0.0627	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Methylphenol	ND		0.420	0.0613	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Nitroaniline	ND		0.420	0.0399	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
2-Nitrophenol	ND		0.212	0.0754	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
3 & 4 Methylphenol	ND		0.420	0.0795	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
3,3'-Dichlorobenzidine	ND		0.420	0.0693	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
3-Nitroaniline	ND		0.420	0.0375	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4,6-Dinitro-2-methylphenol	ND		0.420	0.0754	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Bromophenyl phenyl ether	ND		0.420	0.0474	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Chloro-3-methylphenol	ND		0.420	0.0821	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Chloroaniline	ND		0.212	0.0322	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Chlorophenyl phenyl ether	ND		0.420	0.0449	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Nitroaniline	ND		0.212	0.0670	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
4-Nitrophenol	ND		0.420	0.146	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Acenaphthene	ND		0.0848	0.0676	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Acenaphthylene	ND		0.0848	0.0557	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Acetophenone	ND		0.212	0.0517	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Aniline	ND		0.420	0.0322	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Anthracene	ND		0.0848	0.0491	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Azobenzene/Diphenyldiazene	ND		0.420	0.0716	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzidine	ND		0.839	0.124	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[a]anthracene	ND		0.0848	0.0477	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[a]pyrene	ND		0.0848	0.0607	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[b]fluoranthene	ND		0.0848	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[g,h,i]perylene	ND		0.0848	0.0662	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzo[k]fluoranthene	ND		0.0848	0.0660	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzoic acid	ND		0.420	0.289	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Benzyl alcohol	ND		0.420	0.0760	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Bis(2-chloroethoxy)methane	ND		0.420	0.0730	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Bis(2-chloroethyl)ether	ND		0.212	0.0694	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
bis (2-chloroisopropyl) ether	ND		0.212	0.0945	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Bis(2-ethylhexyl) phthalate	ND		0.212	0.0540	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Butyl benzyl phthalate	ND		0.420	0.0421	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Carbazole	ND		0.212	0.0556	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Chrysene	ND		0.0848	0.0479	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Dibenz(a,h)anthracene	ND		0.0848	0.0647	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Dibenzofuran	ND		0.212	0.0735	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Diethyl phthalate	ND		0.420	0.0460	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Dimethyl phthalate	ND		0.420	0.0547	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Di-n-butyl phthalate	ND		0.420	0.0449	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Di-n-octyl phthalate	ND		0.420	0.0693	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Fluoranthene	ND		0.0848	0.0497	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Fluorene	ND		0.0848	0.0774	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Hexachlorobenzene	ND		0.212	0.0589	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Hexachlorobutadiene	ND		0.212	0.106	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.212	0.0811	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Hexachloroethane	ND		0.212	0.0834	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0848	0.0720	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Isophorone	ND		0.212	0.0581	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Naphthalene	ND		0.0848	0.0814	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Nitrobenzene	ND		0.212	0.0980	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
N-Nitrosodimethylamine	ND		0.212	0.0557	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
N-Nitrosodi-n-propylamine	ND		0.212	0.0846	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
N-Nitrosodiphenylamine	ND		0.420	0.0535	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pentachloronitrobenzene	ND		0.420	0.0662	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pentachlorophenol	ND		0.420	0.172	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Phenanthrene	ND		0.0848	0.0481	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Phenol	ND		0.420	0.0865	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pyrene	ND		0.0848	0.0468	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1
Pyridine	ND		0.420	0.0993	mg/Kg	☼	03/15/23 09:29	03/17/23 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
Nitrobenzene-d5 (Surr)	*86*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/17/23 20:54*	*1*
Terphenyl-d14	*100*		*30 - 130*	*03/15/23 09:29*	*03/17/23 20:54*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.259	0.132	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.259	0.111	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Ethylbenzene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Methyl tert-butyl ether	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
m,p-Xylene	ND		0.103	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Naphthalene	ND		0.0517	0.0352	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
o-Xylene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
Toluene	ND		0.0517	0.0103	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
C5-C8 Aliphatics (unadjusted)	ND		0.259	0.132	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
C9-C10 Aromatics	ND		0.259	0.0362	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1
C9-C12 Aliphatics (unadjusted)	ND		0.259	0.111	mg/Kg	☼	03/09/23 07:17	03/09/23 20:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:12*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:12*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0257	0.0186	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1221	ND		0.0257	0.00761	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1232	ND		0.0257	0.00713	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0257	0.00407	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1248	ND		0.0257	0.00805	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1254	ND		0.0257	0.0200	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1262	ND		0.0257	0.00600	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1260	ND		0.0257	0.00554	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1
PCB-1268	ND		0.0257	0.00548	mg/Kg	☼	03/09/23 15:30	03/13/23 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*30 - 150*	*03/09/23 15:30*	*03/13/23 20:34*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoroheptanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorononanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorodecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorotridecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorotetradecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorobutanesulfonic acid	ND		2.55	0.510	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorohexanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NEtFOSAA	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NMeFOSAA	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
10:2 FTS	ND		2.55	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoropentanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoroheptanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorononanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorodecanesulfonic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctanesulfonamide	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorohexadecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorooctadecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorobutanoic acid	ND		2.55	1.02	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoropentanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NMeFOSE	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NMeFOSA	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NEtFOSE	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
NEtFOSA	ND		2.55	0.638	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
HFPODA	ND		2.55	1.28	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
DONA	ND		3.83	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
9Cl-PF3ONS	ND		2.55	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
11Cl-PF3OUdS	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluorododecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.55	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
Perfluoroundecanoic acid	ND		0.765	0.255	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1

Client Sample ID: 2023-MW-03-0608' **Lab Sample ID: 620-10124-4**
Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.55	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.83	0.765	ug/Kg	☼	03/13/23 07:29	03/22/23 16:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
M2-6:2 FTS	*75*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C5 PFHxA	*90*		*10 - 174*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C4 PFHpA	*86*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C8 PFOA	*87*		*26 - 159*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C9 PFNA	*86*		*26 - 165*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C6 PFDA	*86*		*26 - 161*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C2 PFTeDA	*79*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C3 PFBS	*89*		*27 - 179*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C3 PFHxS	*91*		*24 - 171*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C8 PFOS	*88*		*41 - 154*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d3-NMeFOSAA	*10*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C8 FOSA	*87*		*14 - 163*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C4 PFBA	*83*		*28 - 153*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C5 PFPeA	*84*		*24 - 161*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d9-N-EtFOSE-M	*81*		*10 - 185*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
d5-NEtPFOSA	*86*		*10 - 180*	*03/13/23 07:29*	*03/22/23 16:01*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.71	1.60	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Arsenic	**6.73**		2.83	1.32	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Barium	**116**		0.471	0.141	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Beryllium	**1.08**		0.471	0.0943	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Cadmium	ND		0.471	0.0943	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Chromium	**35.5**		1.41	0.330	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Lead	**11.3**		1.41	0.566	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Nickel	**16.4**		0.943	0.245	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Selenium	**2.20**	**J**	4.71	1.41	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Silver	ND	^3+	0.943	0.377	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Thallium	ND		28.3	12.3	mg/Kg	☼	03/09/23 03:44	03/13/23 21:06	10
Vanadium	**55.5**		0.943	0.405	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1
Zinc	**67.9**		1.89	0.754	mg/Kg	☼	03/09/23 03:44	03/10/23 16:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0755	0.0252	mg/Kg	☼	03/09/23 23:15	03/10/23 11:28	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0608'
Date Collected: 03/03/23 14:35
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-4
Matrix: Solid
Percent Solids: 76.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	23.1		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	76.9		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0810'
Date Collected: 03/03/23 14:40
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-5
Matrix: Solid
Percent Solids: 77.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00441	0.00287	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Acetone	ND		0.0441	0.00988	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Acrylonitrile	ND		0.00441	0.00265	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Benzene	ND		0.00441	0.00295	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromobenzene	ND		0.00441	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromochloromethane	ND		0.00441	0.00250	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromodichloromethane	ND		0.00441	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromoform	ND		0.00441	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Bromomethane	ND		0.00882	0.00549	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2-Butanone (MEK)	ND		0.00882	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
n-Butylbenzene	ND		0.00882	0.00473	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
sec-Butylbenzene	ND		0.00441	0.00355	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
tert-Butylbenzene	ND		0.00441	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Carbon disulfide	ND		0.00882	0.00309	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Carbon tetrachloride	ND		0.00441	0.00278	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chlorobenzene	ND		0.00441	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chloroethane	ND		0.00882	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chloroform	ND		0.00441	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Chloromethane	ND		0.00882	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2-Chlorotoluene	ND		0.00441	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
4-Chlorotoluene	ND		0.00441	0.00383	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dibromo-3-Chloropropane	ND		0.00882	0.00374	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Dibromochloromethane	ND		0.00441	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dibromoethane (EDB)	ND		0.00441	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Dibromomethane	ND		0.00441	0.00259	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dichlorobenzene	ND		0.00441	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3-Dichlorobenzene	ND		0.00441	0.00354	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,4-Dichlorobenzene	ND		0.00441	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00882	0.00236	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1-Dichloroethane	ND		0.00441	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dichloroethane	ND		0.00441	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1-Dichloroethene	ND		0.00441	0.00270	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
cis-1,2-Dichloroethene	ND		0.00441	0.00255	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
trans-1,2-Dichloroethene	ND		0.00441	0.00274	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2-Dichloropropane	ND		0.00441	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3-Dichloropropane	ND		0.00441	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2,2-Dichloropropane	ND		0.00441	0.00304	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1-Dichloropropene	ND		0.00441	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
cis-1,3-Dichloropropene	ND		0.00441	0.00287	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
trans-1,3-Dichloropropene	ND		0.00441	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethylbenzene	ND		0.00441	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Hexachlorobutadiene	ND		0.00882	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
2-Hexanone (MBK)	ND		0.00882	0.00259	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Isopropylbenzene	ND		0.00441	0.00333	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
4-Isopropyltoluene	ND		0.00441	0.00433	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Methyl tert-butyl ether	ND		0.00441	0.00254	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.00882	0.00285	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Methylene Chloride	ND		0.00882	0.00236	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Naphthalene	ND		0.00441	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Styrene	ND		0.00441	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,1,2-Tetrachloroethane	ND		0.00441	0.00331	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,2,2-Tetrachloroethane	ND		0.00441	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Tetrachloroethene	ND		0.00441	0.00245	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Toluene	ND		0.00441	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,3-Trichlorobenzene	ND		0.00441	0.00372	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,4-Trichlorobenzene	ND		0.00441	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3,5-Trichlorobenzene	ND		0.00441	0.00419	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,1-Trichloroethane	ND		0.00441	0.00301	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,1,2-Trichloroethane	ND		0.00441	0.00332	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Trichloroethene	ND		0.00441	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Trichlorofluoromethane (Freon 11)	ND		0.00441	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,3-Trichloropropane	ND		0.00441	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,2,4-Trimethylbenzene	ND		0.00441	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3,5-Trimethylbenzene	ND		0.00441	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Vinyl chloride	ND		0.00441	0.00269	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
m,p-Xylene	ND		0.00441	0.00602	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
o-Xylene	ND		0.00441	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Tetrahydrofuran	ND		0.00882	0.00223	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethyl ether	ND		0.00441	0.00232	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Tert-amyl methyl ether	ND		0.00441	0.00348	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethyl tert-butyl ether	ND		0.00441	0.00290	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
di-Isopropyl ether	ND		0.00441	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
tert-Butanol	ND		0.0882	0.0236	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,4-Dioxane	ND		0.0882	0.0274	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
trans-1,4-Dichloro-2-butene	ND		0.0220	0.00325	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Ethanol	ND		0.882	0.0547	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
1,3-Dichloropropene, Total	ND		0.00441	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1
Xylenes, Total	ND		0.0132	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/15/23 12:58*	*03/15/23 19:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.410	0.0730	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,2,4-Trichlorobenzene	ND		0.410	0.0940	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,2-Dichlorobenzene	ND		0.410	0.0790	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,3-Dichlorobenzene	ND		0.410	0.0993	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1,4-Dichlorobenzene	ND		0.410	0.0966	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
1-Methylnaphthalene	ND		0.0829	0.0696	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4,5-Trichlorophenol	ND		0.410	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4,6-Trichlorophenol	ND		0.208	0.0507	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4-Dichlorophenol	ND		0.208	0.0827	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4-Dimethylphenol	ND		0.410	0.0602	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,4-Dinitrophenol	ND		0.410	0.108	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0810'
Date Collected: 03/03/23 14:40
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-5
Matrix: Solid
Percent Solids: 77.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.208	0.0486	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2,6-Dinitrotoluene	ND		0.208	0.0486	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Chloronaphthalene	ND		0.410	0.0948	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Chlorophenol	ND		0.208	0.0849	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Methylnaphthalene	ND		0.0829	0.0613	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Methylphenol	ND		0.410	0.0599	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Nitroaniline	ND		0.410	0.0390	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
2-Nitrophenol	ND		0.208	0.0737	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
3 & 4 Methylphenol	ND		0.410	0.0777	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
3,3'-Dichlorobenzidine	ND		0.410	0.0677	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
3-Nitroaniline	ND		0.410	0.0367	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4,6-Dinitro-2-methylphenol	ND		0.410	0.0737	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Bromophenyl phenyl ether	ND		0.410	0.0464	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Chloro-3-methylphenol	ND		0.410	0.0803	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Chloroaniline	ND		0.208	0.0314	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Chlorophenyl phenyl ether	ND		0.410	0.0439	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Nitroaniline	ND		0.208	0.0655	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
4-Nitrophenol	ND		0.410	0.143	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Acenaphthene	ND		0.0829	0.0661	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Acenaphthylene	ND		0.0829	0.0544	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Acetophenone	ND		0.208	0.0506	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Aniline	ND		0.410	0.0314	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Anthracene	ND		0.0829	0.0480	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Azobenzene/Diphenyldiazene	ND		0.410	0.0700	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzidine	ND		0.820	0.121	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[a]anthracene	ND		0.0829	0.0466	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[a]pyrene	ND		0.0829	0.0593	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[b]fluoranthene	ND		0.0829	0.0687	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[g,h,i]perylene	ND		0.0829	0.0648	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzo[k]fluoranthene	ND		0.0829	0.0645	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzoic acid	ND		0.410	0.282	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Benzyl alcohol	ND		0.410	0.0743	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Bis(2-chloroethoxy)methane	ND		0.410	0.0713	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Bis(2-chloroethyl)ether	ND		0.208	0.0679	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
bis (2-chloroisopropyl) ether	ND		0.208	0.0923	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Bis(2-ethylhexyl) phthalate	ND		0.208	0.0528	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Butyl benzyl phthalate	ND		0.410	0.0411	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Carbazole	ND		0.208	0.0543	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Chrysene	ND		0.0829	0.0469	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Dibenz(a,h)anthracene	ND		0.0829	0.0633	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Dibenzofuran	ND		0.208	0.0718	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Diethyl phthalate	ND		0.410	0.0450	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Dimethyl phthalate	ND		0.410	0.0534	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Di-n-butyl phthalate	ND		0.410	0.0439	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Di-n-octyl phthalate	ND		0.410	0.0677	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Fluoranthene	ND		0.0829	0.0486	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Fluorene	ND		0.0829	0.0757	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Hexachlorobenzene	ND		0.208	0.0575	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Hexachlorobutadiene	ND		0.208	0.104	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.208	0.0793	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Hexachloroethane	ND		0.208	0.0815	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0829	0.0703	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Isophorone	ND		0.208	0.0568	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Naphthalene	ND		0.0829	0.0795	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Nitrobenzene	ND		0.208	0.0958	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
N-Nitrosodimethylamine	ND		0.208	0.0544	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
N-Nitrosodi-n-propylamine	ND		0.208	0.0827	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
N-Nitrosodiphenylamine	ND		0.410	0.0523	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pentachloronitrobenzene	ND		0.410	0.0648	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pentachlorophenol	ND		0.410	0.168	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Phenanthrene	ND		0.0829	0.0470	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Phenol	ND		0.410	0.0845	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pyrene	ND		0.0829	0.0457	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1
Pyridine	ND		0.410	0.0971	mg/Kg	☼	03/15/23 09:29	03/17/23 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/15/23 09:29*	*03/17/23 21:22*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/15/23 09:29*	*03/17/23 21:22*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.244	0.125	mg/Kg			03/13/23 11:05	1
C9-C12 Aliphatics (adjusted)	ND		0.244	0.104	mg/Kg			03/13/23 11:05	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Ethylbenzene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Methyl tert-butyl ether	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
m,p-Xylene	ND		0.0975	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Naphthalene	ND		0.0487	0.0331	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
o-Xylene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
Toluene	ND		0.0487	0.00975	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
C5-C8 Aliphatics (unadjusted)	ND		0.244	0.125	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
C9-C10 Aromatics	ND		0.244	0.0341	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1
C9-C12 Aliphatics (unadjusted)	ND		0.244	0.104	mg/Kg	☼	03/09/23 07:17	03/09/23 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:51*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/09/23 07:17*	*03/09/23 20:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0256	0.0185	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1221	ND		0.0256	0.00757	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1232	ND		0.0256	0.00710	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0256	0.00405	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1248	ND		0.0256	0.00800	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1254	**0.0485**		0.0256	0.0199	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1262	ND		0.0256	0.00597	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1260	ND		0.0256	0.00551	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1
PCB-1268	ND		0.0256	0.00546	mg/Kg	☼	03/09/23 15:30	03/11/23 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/09/23 15:30*	*03/11/23 07:24*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoroheptanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorononanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorodecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorotridecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorotetradecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorobutanesulfonic acid	ND		2.45	0.491	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorohexanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NEtFOSAA	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NMeFOSAA	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
10:2 FTS	ND		2.45	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoropentanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoroheptanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorononanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorodecanesulfonic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctanesulfonamide	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorohexadecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorooctadecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorobutanoic acid	ND		2.45	0.982	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoropentanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NMeFOSE	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NMeFOSA	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NEtFOSE	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
NEtFOSA	ND		2.45	0.614	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
HFPODA	ND		2.45	1.23	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
DONA	ND		3.68	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
9Cl-PF3ONS	ND		2.45	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
11Cl-PF3OUdS	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluorododecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
4:2 Fluorotelomer sulfonic acid	ND		2.45	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
Perfluoroundecanoic acid	ND		0.736	0.245	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1

Client Sample ID: 2023-MW-03-0810' **Lab Sample ID: 620-10124-5**
Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.45	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1
8:2 Fluorotelomer sulfonic acid	ND		3.68	0.736	ug/Kg	☼	03/13/23 07:29	03/22/23 16:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*69*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
M2-8:2 FTS	*66*		*15 - 200*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
M2-6:2 FTS	*67*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C5 PFHxA	*83*		*10 - 174*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C4 PFHpA	*84*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C8 PFOA	*83*		*26 - 159*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C9 PFNA	*81*		*26 - 165*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C6 PFDA	*80*		*26 - 161*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C2 PFTeDA	*80*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C3 PFBS	*99*		*27 - 179*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C3 PFHxS	*100*		*24 - 171*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d5-NEtFOSAA	*16*		*10 - 193*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C4 PFBA	*83*		*28 - 153*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C5 PFPeA	*86*		*24 - 161*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d3-NMePFOSA	*92*		*10 - 175*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d9-N-EtFOSE-M	*87*		*10 - 185*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/13/23 07:29*	*03/22/23 16:12*	*1*
13C3 HFPO-DA	*86*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.46	1.86	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Arsenic	**8.38**		3.28	1.53	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Barium	**122**		0.546	0.164	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Beryllium	**1.12**		0.546	0.109	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Cadmium	ND		0.546	0.109	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Chromium	**36.2**		1.64	0.382	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Lead	**11.9**		1.64	0.655	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Nickel	**20.9**		1.09	0.284	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Selenium	**3.30**	**J**	5.46	1.64	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Silver	ND	^3+	1.09	0.437	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Thallium	ND		32.8	14.2	mg/Kg	☼	03/09/23 03:44	03/13/23 21:03	10
Vanadium	**60.0**		1.09	0.470	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1
Zinc	**81.3**		2.18	0.874	mg/Kg	☼	03/09/23 03:44	03/10/23 16:52	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0773	0.0258	mg/Kg	☼	03/09/23 23:15	03/10/23 11:24	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: 2023-MW-03-0810'
Date Collected: 03/03/23 14:40
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-5
Matrix: Solid
Percent Solids: 77.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	22.4		0.1	0.1	%			03/07/23 09:01	1
Percent Solids (EPA Moisture)	77.6		0.1	0.1	%			03/07/23 09:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: Trip Blank-07

Date Collected: 03/03/23 00:00
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-6

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/15/23 12:58	03/15/23 14:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Client Sample ID: Trip Blank-07

Date Collected: 03/03/23 00:00
Date Received: 03/06/23 14:47

Lab Sample ID: 620-10124-6

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 14:17	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/15/23 12:58	03/15/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/15/23 12:58*	*03/15/23 14:17*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10124-1	2023-MW-03-0002'	97	98	99	98
620-10124-2	2023-MW-03-0204'	88	96	96	101
620-10124-3 - ME	2023-MW-03-0406'	100	102	103	102
620-10124-4	2023-MW-03-0608'	86	96	98	102
620-10124-5	2023-MW-03-0810'	89	97	99	103
620-10124-6	Trip Blank-07	91	94	97	100
LCS 620-20572/1-A	Lab Control Sample	95	96	92	99
LCS 620-20595/1-A	Lab Control Sample	103	104	106	105
LCS 620-20616/1-A	Lab Control Sample	101	100	100	101
LCS 620-20675/1-A	Lab Control Sample	102	102	99	97
LCSD 620-20572/2-A	Lab Control Sample Dup	95	96	94	99
LCSD 620-20595/2-A	Lab Control Sample Dup	103	103	101	103
LCSD 620-20616/2-A	Lab Control Sample Dup	101	100	99	100
LCSD 620-20675/2-A	Lab Control Sample Dup	102	103	99	98
MB 620-20572/3-A	Method Blank	93	94	95	99
MB 620-20595/3-A	Method Blank	98	102	102	102
MB 620-20616/3-A	Method Blank	100	98	98	98
MB 620-20675/3-A	Method Blank	104	103	100	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10124-1	2023-MW-03-0002'	68	92	78	80	87	86
620-10124-2	2023-MW-03-0204'	68	85	71	71	76	107
620-10124-3	2023-MW-03-0406'	90	86	94	79	83	97
620-10124-4	2023-MW-03-0608'	84	99	86	85	78	100
620-10124-5	2023-MW-03-0810'	72	91	80	78	75	62
LCS 620-20546/2-A	Lab Control Sample	79	93	84	88	85	82
LCSD 620-20546/3-A	Lab Control Sample Dup	77	93	84	85	79	76
MB 620-20546/1-A	Method Blank	69	86	75	78	60	79

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT-F1 (70-130)	TFT-P2 (70-130)
620-10124-1	2023-MW-03-0002'	97	96
620-10124-2	2023-MW-03-0204'	96	95
620-10124-3	2023-MW-03-0406'	96	94
620-10124-4	2023-MW-03-0608'	95	93
620-10124-5	2023-MW-03-0810'	96	94
LCS 480-660942/2-A	Lab Control Sample	98	99
LCSD 480-660942/3-A	Lab Control Sample Dup	98	98
MB 480-660942/1-A	Method Blank	115	114

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)
TFT-P = a,a,a-Trifluorotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)
620-10124-1	2023-MW-03-0002'	93	90	93	95
620-10124-2	2023-MW-03-0204'	68	66	73	76
620-10124-3	2023-MW-03-0406'	104	95	102	101
620-10124-4	2023-MW-03-0608'	96	90	95	96
620-10124-5	2023-MW-03-0810'	96	89	87	66
LCS 620-20416/2-A	Lab Control Sample	81	77	95	88
LCSD 620-20416/3-A	Lab Control Sample Dup	90	82	101	92
MB 620-20416/1-A	Method Blank	62	59	60	58

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA
Lab Sample ID	Client Sample ID	(10-200)	(15-200)	(10-200)	(10-174)	(10-178)	(26-159)	(26-165)	(26-161)
620-10124-1	2023-MW-03-0002'	81	70	81	87	85	86	91	82
620-10124-2	2023-MW-03-0204'	92	90	91	102	105	97	94	94
620-10124-3	2023-MW-03-0406'	72	68	74	86	85	88	86	82
620-10124-4	2023-MW-03-0608'	73	74	75	90	86	87	86	86
620-10124-5	2023-MW-03-0810'	69	66	67	83	84	83	81	80
LCS 410-352779/3-B	Lab Control Sample	87	83	91	91	91	92	95	91
MB 410-352779/1-B	Method Blank	92	90	93	91	101	96	103	99

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C7PUA	PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(12-173)	(11-166)	(10-169)	(27-179)	(24-171)	(41-154)	(10-178)	(10-193)
620-10124-1	2023-MW-03-0002'	80	78	76	95	91	96	11	14
620-10124-2	2023-MW-03-0204'	88	87	86	89	96	92	59	61
620-10124-3	2023-MW-03-0406'	78	78	76	86	90	92	14	17
620-10124-4	2023-MW-03-0608'	81	85	79	89	91	88	10	13
620-10124-5	2023-MW-03-0810'	82	85	80	99	100	102	12	16
LCS 410-352779/3-B	Lab Control Sample	90	91	98	90	94	92	71	75
MB 410-352779/1-B	Method Blank	98	96	95	95	98	99	72	71

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	NMFM	d3NMFSA	NEFM	d5NPFSA	HFPODA
Lab Sample ID	Client Sample ID	(14-163)	(28-153)	(24-161)	(10-179)	(10-175)	(10-185)	(10-180)	(10-169)
620-10124-1	2023-MW-03-0002'	88	83	82	84	86	82	87	78
620-10124-2	2023-MW-03-0204'	87	95	93	83	81	77	83	89
620-10124-3	2023-MW-03-0406'	85	84	87	79	80	74	80	92
620-10124-4	2023-MW-03-0608'	87	83	84	83	83	81	86	88
620-10124-5	2023-MW-03-0810'	97	83	86	89	92	87	94	86
LCS 410-352779/3-B	Lab Control Sample	76	85	88	74	76	69	72	86
MB 410-352779/1-B	Method Blank	80	85	85	76	69	76	73	82

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20572/3-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20572/3-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/15/23 12:58	03/15/23 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0170	0.01888		mg/Kg		111	70 - 130
Acetone	0.0170	0.01484	J	mg/Kg		87	70 - 130
Acrylonitrile	0.0170	0.01593		mg/Kg		94	70 - 130
Benzene	0.0170	0.01762		mg/Kg		104	70 - 130
Bromobenzene	0.0170	0.02026		mg/Kg		119	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0170	0.01829		mg/Kg		108	70 - 130
Bromodichloromethane	0.0170	0.01741		mg/Kg		102	70 - 130
Bromoform	0.0170	0.02093		mg/Kg		123	70 - 130
Bromomethane	0.0170	0.02079		mg/Kg		122	70 - 130
2-Butanone (MEK)	0.0170	0.01603		mg/Kg		94	70 - 130
n-Butylbenzene	0.0170	0.02012		mg/Kg		118	70 - 130
sec-Butylbenzene	0.0170	0.02061		mg/Kg		121	70 - 130
tert-Butylbenzene	0.0170	0.01736		mg/Kg		102	70 - 130
Carbon disulfide	0.0170	0.01815		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0170	0.01776		mg/Kg		104	70 - 130
Chlorobenzene	0.0170	0.02083		mg/Kg		123	70 - 130
Chloroethane	0.0170	0.01941		mg/Kg		114	70 - 130
Chloroform	0.0170	0.01786		mg/Kg		105	70 - 130
Chloromethane	0.0170	0.01335		mg/Kg		79	70 - 130
2-Chlorotoluene	0.0170	0.02014		mg/Kg		118	70 - 130
4-Chlorotoluene	0.0170	0.02021		mg/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	0.0170	0.01969		mg/Kg		116	70 - 130
Dibromochloromethane	0.0170	0.01778		mg/Kg		105	70 - 130
1,2-Dibromoethane (EDB)	0.0170	0.01741		mg/Kg		102	70 - 130
Dibromomethane	0.0170	0.01750		mg/Kg		103	70 - 130
1,2-Dichlorobenzene	0.0170	0.02139		mg/Kg		126	70 - 130
1,3-Dichlorobenzene	0.0170	0.02136		mg/Kg		126	70 - 130
1,4-Dichlorobenzene	0.0170	0.02216		mg/Kg		130	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0170	0.009509	J *-	mg/Kg		56	70 - 130
1,1-Dichloroethane	0.0170	0.01723		mg/Kg		101	70 - 130
1,2-Dichloroethane	0.0170	0.01611		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0170	0.01821		mg/Kg		107	70 - 130
cis-1,2-Dichloroethene	0.0170	0.01654		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0170	0.01737		mg/Kg		102	70 - 130
1,2-Dichloropropane	0.0170	0.01619		mg/Kg		95	70 - 130
1,3-Dichloropropane	0.0170	0.01686		mg/Kg		99	70 - 130
2,2-Dichloropropane	0.0170	0.01630		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0170	0.01610		mg/Kg		95	70 - 130
cis-1,3-Dichloropropene	0.0170	0.01455		mg/Kg		86	70 - 130
trans-1,3-Dichloropropene	0.0170	0.01655		mg/Kg		97	70 - 130
Ethylbenzene	0.0170	0.02029		mg/Kg		119	70 - 130
Hexachlorobutadiene	0.0170	0.02003		mg/Kg		118	70 - 130
2-Hexanone (MBK)	0.0170	0.01206		mg/Kg		71	70 - 130
Isopropylbenzene	0.0170	0.01917		mg/Kg		113	70 - 130
4-Isopropyltoluene	0.0170	0.01994		mg/Kg		117	70 - 130
Methyl tert-butyl ether	0.0170	0.01400		mg/Kg		82	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0170	0.01357		mg/Kg		80	70 - 130
Methylene Chloride	0.0170	0.01724		mg/Kg		101	70 - 130
Naphthalene	0.0170	0.01809		mg/Kg		106	70 - 130
N-Propylbenzene	0.0170	0.02053		mg/Kg		121	70 - 130
Styrene	0.0170	0.01985		mg/Kg		117	70 - 130
1,1,1,2-Tetrachloroethane	0.0170	0.02044		mg/Kg		120	70 - 130
1,1,2,2-Tetrachloroethane	0.0170	0.02173		mg/Kg		128	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0170	0.01745		mg/Kg		103	70 - 130
Toluene	0.0170	0.01813		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	0.0170	0.01989		mg/Kg		117	70 - 130
1,2,4-Trichlorobenzene	0.0170	0.01866		mg/Kg		110	70 - 130
1,3,5-Trichlorobenzene	0.0170	0.02112		mg/Kg		124	70 - 130
1,1,1-Trichloroethane	0.0170	0.01738		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0170	0.01863		mg/Kg		110	70 - 130
Trichloroethene	0.0170	0.01869		mg/Kg		110	70 - 130
Trichlorofluoromethane (Freon 11)	0.0170	0.01729		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	0.0170	0.02110		mg/Kg		124	70 - 130
1,2,4-Trimethylbenzene	0.0170	0.02021		mg/Kg		119	70 - 130
1,3,5-Trimethylbenzene	0.0170	0.02033		mg/Kg		120	70 - 130
Vinyl chloride	0.0170	0.01489		mg/Kg		88	70 - 130
m,p-Xylene	0.0170	0.01881		mg/Kg		111	70 - 130
o-Xylene	0.0170	0.01806		mg/Kg		106	70 - 130
Tetrahydrofuran	0.0170	0.01276		mg/Kg		75	70 - 130
Ethyl ether	0.0170	0.01563		mg/Kg		92	70 - 130
Tert-amyl methyl ether	0.0170	0.01358		mg/Kg		80	70 - 130
Ethyl tert-butyl ether	0.0170	0.01294		mg/Kg		76	70 - 130
di-Isopropyl ether	0.0170	0.01360		mg/Kg		80	70 - 130
tert-Butanol	0.170	0.1222		mg/Kg		72	70 - 130
1,4-Dioxane	0.170	0.1200		mg/Kg		71	70 - 130
trans-1,4-Dichloro-2-butene	0.0170	0.01642	J	mg/Kg		97	70 - 130
Ethanol	0.340	0.2853	J	mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0170	0.01838		mg/Kg		108	70 - 130	3	30
Acetone	0.0170	0.01490	J	mg/Kg		88	70 - 130	0	30
Acrylonitrile	0.0170	0.01679		mg/Kg		99	70 - 130	5	30
Benzene	0.0170	0.01714		mg/Kg		101	70 - 130	3	30
Bromobenzene	0.0170	0.01944		mg/Kg		114	70 - 130	4	30
Bromochloromethane	0.0170	0.01801		mg/Kg		106	70 - 130	2	30
Bromodichloromethane	0.0170	0.01716		mg/Kg		101	70 - 130	1	30
Bromoform	0.0170	0.02087		mg/Kg		123	70 - 130	0	30
Bromomethane	0.0170	0.01887		mg/Kg		111	70 - 130	10	30
2-Butanone (MEK)	0.0170	0.01805		mg/Kg		106	70 - 130	12	30
n-Butylbenzene	0.0170	0.01972		mg/Kg		116	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene			0.0170	0.01993		mg/Kg		117	70 - 130	3	30
tert-Butylbenzene			0.0170	0.01682		mg/Kg		99	70 - 130	3	30
Carbon disulfide			0.0170	0.01769		mg/Kg		104	70 - 130	3	30
Carbon tetrachloride			0.0170	0.01713		mg/Kg		101	70 - 130	4	30
Chlorobenzene			0.0170	0.02003		mg/Kg		118	70 - 130	4	30
Chloroethane			0.0170	0.01785		mg/Kg		105	70 - 130	8	30
Chloroform			0.0170	0.01752		mg/Kg		103	70 - 130	2	30
Chloromethane			0.0170	0.01308		mg/Kg		77	70 - 130	2	30
2-Chlorotoluene			0.0170	0.01952		mg/Kg		115	70 - 130	3	30
4-Chlorotoluene			0.0170	0.01955		mg/Kg		115	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			0.0170	0.02136		mg/Kg		126	70 - 130	8	30
Dibromochloromethane			0.0170	0.01733		mg/Kg		102	70 - 130	3	30
1,2-Dibromoethane (EDB)			0.0170	0.01769		mg/Kg		104	70 - 130	2	30
Dibromomethane			0.0170	0.01740		mg/Kg		102	70 - 130	1	30
1,2-Dichlorobenzene			0.0170	0.02127		mg/Kg		125	70 - 130	1	30
1,3-Dichlorobenzene			0.0170	0.02064		mg/Kg		121	70 - 130	3	30
1,4-Dichlorobenzene			0.0170	0.02155		mg/Kg		127	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			0.0170	0.009106	J *-	mg/Kg		54	70 - 130	4	30
1,1-Dichloroethane			0.0170	0.01673		mg/Kg		98	70 - 130	3	30
1,2-Dichloroethane			0.0170	0.01643		mg/Kg		97	70 - 130	2	30
1,1-Dichloroethene			0.0170	0.01788		mg/Kg		105	70 - 130	2	30
cis-1,2-Dichloroethene			0.0170	0.01621		mg/Kg		95	70 - 130	2	30
trans-1,2-Dichloroethene			0.0170	0.01684		mg/Kg		99	70 - 130	3	30
1,2-Dichloropropane			0.0170	0.01600		mg/Kg		94	70 - 130	1	30
1,3-Dichloropropane			0.0170	0.01667		mg/Kg		98	70 - 130	1	30
2,2-Dichloropropane			0.0170	0.01583		mg/Kg		93	70 - 130	3	30
1,1-Dichloropropene			0.0170	0.01594		mg/Kg		94	70 - 130	1	30
cis-1,3-Dichloropropene			0.0170	0.01451		mg/Kg		85	70 - 130	0	30
trans-1,3-Dichloropropene			0.0170	0.01675		mg/Kg		99	70 - 130	1	30
Ethylbenzene			0.0170	0.01944		mg/Kg		114	70 - 130	4	30
Hexachlorobutadiene			0.0170	0.02009		mg/Kg		118	70 - 130	0	30
2-Hexanone (MBK)			0.0170	0.01324		mg/Kg		78	70 - 130	9	30
Isopropylbenzene			0.0170	0.01869		mg/Kg		110	70 - 130	3	30
4-Isopropyltoluene			0.0170	0.01940		mg/Kg		114	70 - 130	3	30
Methyl tert-butyl ether			0.0170	0.01423		mg/Kg		84	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			0.0170	0.01438		mg/Kg		85	70 - 130	6	30
Methylene Chloride			0.0170	0.01687		mg/Kg		99	70 - 130	2	30
Naphthalene			0.0170	0.02059		mg/Kg		121	70 - 130	13	30
N-Propylbenzene			0.0170	0.01997		mg/Kg		117	70 - 130	3	30
Styrene			0.0170	0.01930		mg/Kg		114	70 - 130	3	30
1,1,1,2-Tetrachloroethane			0.0170	0.01982		mg/Kg		117	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0170	0.02216		mg/Kg		130	70 - 130	2	30
Tetrachloroethene			0.0170	0.01661		mg/Kg		98	70 - 130	5	30
Toluene			0.0170	0.01774		mg/Kg		104	70 - 130	2	30
1,2,3-Trichlorobenzene			0.0170	0.02107		mg/Kg		124	70 - 130	6	30
1,2,4-Trichlorobenzene			0.0170	0.01973		mg/Kg		116	70 - 130	6	30
1,3,5-Trichlorobenzene			0.0170	0.02098		mg/Kg		123	70 - 130	1	30
1,1,1-Trichloroethane			0.0170	0.01709		mg/Kg		101	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0170	0.01796		mg/Kg		106	70 - 130	4	30
Trichloroethene			0.0170	0.01768		mg/Kg		104	70 - 130	6	30
Trichlorofluoromethane (Freon 11)			0.0170	0.01688		mg/Kg		99	70 - 130	2	30
1,2,3-Trichloropropane			0.0170	0.02117		mg/Kg		125	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0170	0.01966		mg/Kg		116	70 - 130	3	30
1,3,5-Trimethylbenzene			0.0170	0.01955		mg/Kg		115	70 - 130	4	30
Vinyl chloride			0.0170	0.01381		mg/Kg		81	70 - 130	8	30
m,p-Xylene			0.0170	0.01840		mg/Kg		108	70 - 130	2	30
o-Xylene			0.0170	0.01773		mg/Kg		104	70 - 130	2	30
Tetrahydrofuran			0.0170	0.01356		mg/Kg		80	70 - 130	6	30
Ethyl ether			0.0170	0.01603		mg/Kg		94	70 - 130	3	30
Tert-amyl methyl ether			0.0170	0.01381		mg/Kg		81	70 - 130	2	30
Ethyl tert-butyl ether			0.0170	0.01330		mg/Kg		78	70 - 130	3	30
di-Isopropyl ether			0.0170	0.01407		mg/Kg		83	70 - 130	3	30
tert-Butanol			0.170	0.1410		mg/Kg		83	70 - 130	14	30
1,4-Dioxane			0.170	0.1271		mg/Kg		75	70 - 130	6	30
trans-1,4-Dichloro-2-butene			0.0170	0.01699	J	mg/Kg		100	70 - 130	3	30
Ethanol			0.340	0.3128	J	mg/Kg		92	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20595/3-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0500	0.0274	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Acetone	ND		0.500	0.0630	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Acrylonitrile	ND		0.0500	0.0181	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Benzene	ND		0.0500	0.00800	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromobenzene	ND		0.0500	0.0113	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromochloromethane	ND		0.0500	0.00715	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromodichloromethane	ND		0.0500	0.0129	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromoform	ND		0.0500	0.0107	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Bromomethane	ND		0.100	0.0247	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2-Butanone (MEK)	ND		0.100	0.0229	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
n-Butylbenzene	ND		0.0500	0.0200	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
sec-Butylbenzene	ND		0.0500	0.0154	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
tert-Butylbenzene	ND		0.0500	0.0204	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Carbon disulfide	ND		0.100	0.0185	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Carbon tetrachloride	ND		0.0500	0.0150	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Chlorobenzene	ND		0.0500	0.00605	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Chloroethane	ND		0.100	0.0223	mg/Kg		03/16/23 10:19	03/16/23 13:07	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20595/3-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.01064	J	0.0500	0.00590	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Chloromethane	ND		0.100	0.0595	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2-Chlorotoluene	ND		0.0500	0.0124	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
4-Chlorotoluene	ND		0.0500	0.00905	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dibromo-3-Chloropropane	ND		0.100	0.0198	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Dibromochloromethane	ND		0.0500	0.00790	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dibromoethane (EDB)	ND		0.0500	0.0136	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Dibromomethane	ND		0.0500	0.00940	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dichlorobenzene	ND		0.0500	0.00900	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3-Dichlorobenzene	ND		0.0500	0.0125	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,4-Dichlorobenzene	ND		0.0500	0.00895	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Dichlorodifluoromethane (Freon 12)	ND		0.100	0.0655	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1-Dichloroethane	ND		0.0500	0.0116	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dichloroethane	ND		0.0500	0.0131	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1-Dichloroethene	ND		0.0500	0.0128	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
cis-1,2-Dichloroethene	ND		0.0500	0.0167	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
trans-1,2-Dichloroethene	ND		0.0500	0.0114	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2-Dichloropropane	ND		0.0500	0.0174	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3-Dichloropropane	ND		0.0500	0.0158	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2,2-Dichloropropane	ND		0.0500	0.0132	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1-Dichloropropene	ND		0.0500	0.0153	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
cis-1,3-Dichloropropene	ND		0.0500	0.0118	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
trans-1,3-Dichloropropene	ND		0.0500	0.0204	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethylbenzene	ND		0.0500	0.0105	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Hexachlorobutadiene	ND		0.0500	0.0160	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
2-Hexanone (MBK)	ND		0.100	0.0333	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Isopropylbenzene	ND		0.0500	0.0182	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
4-Isopropyltoluene	ND		0.0500	0.0139	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Methyl tert-butyl ether	ND		0.0500	0.0151	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		0.100	0.0358	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Methylene Chloride	ND		0.100	0.0427	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Naphthalene	ND		0.0500	0.0145	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
N-Propylbenzene	ND		0.0500	0.0125	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Styrene	ND		0.0500	0.00660	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0121	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0159	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Tetrachloroethene	ND		0.0500	0.0158	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Toluene	ND		0.0500	0.00805	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,3-Trichlorobenzene	ND		0.0500	0.0117	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,4-Trichlorobenzene	ND		0.0500	0.00825	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3,5-Trichlorobenzene	ND		0.0500	0.00790	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,1-Trichloroethane	ND		0.0500	0.0121	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,1,2-Trichloroethane	ND		0.0500	0.0155	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Trichloroethene	ND		0.0500	0.00855	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Trichlorofluoromethane (Freon 11)	ND		0.0500	0.0226	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,3-Trichloropropane	ND		0.0500	0.0231	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,2,4-Trimethylbenzene	ND		0.0500	0.0127	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3,5-Trimethylbenzene	ND		0.0500	0.0105	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Vinyl chloride	ND		0.0500	0.0246	mg/Kg		03/16/23 10:19	03/16/23 13:07	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20595/3-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20595

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.0500	0.0294	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
o-Xylene	ND		0.0500	0.0154	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Tetrahydrofuran	ND		0.100	0.0366	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethyl ether	ND		0.0500	0.0136	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Tert-amyl methyl ether	ND		0.0500	0.0277	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethyl tert-butyl ether	ND		0.0500	0.0139	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
di-Isopropyl ether	ND		0.0500	0.0162	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
tert-Butanol	ND		1.00	0.710	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,4-Dioxane	ND		1.00	0.295	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
trans-1,4-Dichloro-2-butene	ND		0.250	0.0330	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Ethanol	ND		10.0	0.860	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
1,3-Dichloropropene, Total	ND		0.0500	0.0204	mg/Kg		03/16/23 10:19	03/16/23 13:07	1
Xylenes, Total	ND		0.150	0.150	mg/Kg		03/16/23 10:19	03/16/23 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/16/23 10:19*	*03/16/23 13:07*	*1*

Lab Sample ID: LCS 620-20595/1-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.00	1.012		mg/Kg		101	70 - 130
Acetone	1.00	1.119		mg/Kg		112	70 - 130
Acrylonitrile	1.00	1.052		mg/Kg		105	70 - 130
Benzene	1.00	1.092		mg/Kg		109	70 - 130
Bromobenzene	1.00	0.9902		mg/Kg		99	70 - 130
Bromochloromethane	1.00	1.099		mg/Kg		110	70 - 130
Bromodichloromethane	1.00	1.055		mg/Kg		105	70 - 130
Bromoform	1.00	1.018		mg/Kg		102	70 - 130
Bromomethane	1.00	1.020		mg/Kg		102	70 - 130
2-Butanone (MEK)	1.00	1.111		mg/Kg		111	70 - 130
n-Butylbenzene	1.00	0.9030		mg/Kg		90	70 - 130
sec-Butylbenzene	1.00	0.8999		mg/Kg		90	70 - 130
tert-Butylbenzene	1.00	1.019		mg/Kg		102	70 - 130
Carbon disulfide	1.00	0.9574		mg/Kg		96	70 - 130
Carbon tetrachloride	1.00	1.035		mg/Kg		103	70 - 130
Chlorobenzene	1.00	0.9492		mg/Kg		95	70 - 130
Chloroethane	1.00	0.9780		mg/Kg		98	70 - 130
Chloroform	1.00	1.048		mg/Kg		105	70 - 130
Chloromethane	1.00	0.7897		mg/Kg		79	70 - 130
2-Chlorotoluene	1.00	1.062		mg/Kg		106	70 - 130
4-Chlorotoluene	1.00	1.074		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	1.00	0.9536		mg/Kg		95	70 - 130
Dibromochloromethane	1.00	1.081		mg/Kg		108	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20595/1-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	1.00	1.130		mg/Kg		113	70 - 130
Dibromomethane	1.00	1.081		mg/Kg		108	70 - 130
1,2-Dichlorobenzene	1.00	1.000		mg/Kg		100	70 - 130
1,3-Dichlorobenzene	1.00	1.043		mg/Kg		104	70 - 130
1,4-Dichlorobenzene	1.00	0.9140		mg/Kg		91	70 - 130
Dichlorodifluoromethane (Freon 12)	1.00	0.5902	*-	mg/Kg		59	70 - 130
1,1-Dichloroethane	1.00	1.069		mg/Kg		107	70 - 130
1,2-Dichloroethane	1.00	1.086		mg/Kg		109	70 - 130
1,1-Dichloroethene	1.00	1.032		mg/Kg		103	70 - 130
cis-1,2-Dichloroethene	1.00	1.046		mg/Kg		105	70 - 130
trans-1,2-Dichloroethene	1.00	1.052		mg/Kg		105	70 - 130
1,2-Dichloropropane	1.00	1.100		mg/Kg		110	70 - 130
1,3-Dichloropropane	1.00	1.133		mg/Kg		113	70 - 130
2,2-Dichloropropane	1.00	1.036		mg/Kg		104	70 - 130
1,1-Dichloropropene	1.00	1.132		mg/Kg		113	70 - 130
cis-1,3-Dichloropropene	1.00	1.127		mg/Kg		113	70 - 130
trans-1,3-Dichloropropene	1.00	1.205		mg/Kg		121	70 - 130
Ethylbenzene	1.00	0.9995		mg/Kg		100	70 - 130
Hexachlorobutadiene	1.00	0.9648		mg/Kg		96	70 - 130
2-Hexanone (MBK)	1.00	1.006		mg/Kg		101	70 - 130
Isopropylbenzene	1.00	0.9438		mg/Kg		94	70 - 130
4-Isopropyltoluene	1.00	0.9092		mg/Kg		91	70 - 130
Methyl tert-butyl ether	1.00	1.180		mg/Kg		118	70 - 130
4-Methyl-2-pentanone (MIBK)	1.00	1.145		mg/Kg		115	70 - 130
Methylene Chloride	1.00	1.012		mg/Kg		101	70 - 130
Naphthalene	1.00	0.9554		mg/Kg		96	70 - 130
N-Propylbenzene	1.00	1.037		mg/Kg		104	70 - 130
Styrene	1.00	0.9755		mg/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	1.00	0.9601		mg/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	1.00	0.9862		mg/Kg		99	70 - 130
Tetrachloroethene	1.00	1.054		mg/Kg		105	70 - 130
Toluene	1.00	1.067		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	1.00	1.002		mg/Kg		100	70 - 130
1,2,4-Trichlorobenzene	1.00	0.9689		mg/Kg		97	70 - 130
1,3,5-Trichlorobenzene	1.00	1.010		mg/Kg		101	70 - 130
1,1,1-Trichloroethane	1.00	1.039		mg/Kg		104	70 - 130
1,1,2-Trichloroethane	1.00	1.088		mg/Kg		109	70 - 130
Trichloroethene	1.00	1.041		mg/Kg		104	70 - 130
Trichlorofluoromethane (Freon 11)	1.00	0.9790		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	1.00	0.9926		mg/Kg		99	70 - 130
1,2,4-Trimethylbenzene	1.00	0.9393		mg/Kg		94	70 - 130
1,3,5-Trimethylbenzene	1.00	0.9384		mg/Kg		94	70 - 130
Vinyl chloride	1.00	0.8687		mg/Kg		87	70 - 130
m,p-Xylene	1.00	1.070		mg/Kg		107	70 - 130
o-Xylene	1.00	0.9554		mg/Kg		96	70 - 130
Tetrahydrofuran	1.00	1.134		mg/Kg		113	70 - 130
Ethyl ether	1.00	1.132		mg/Kg		113	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20595/1-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20595

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			1.00	1.162		mg/Kg		116	70 - 130		
Ethyl tert-butyl ether			1.00	1.044		mg/Kg		104	70 - 130		
di-Isopropyl ether			1.00	1.176		mg/Kg		118	70 - 130		
tert-Butanol			10.0	11.44		mg/Kg		114	70 - 130		
1,4-Dioxane			10.0	10.52		mg/Kg		105	70 - 130		
trans-1,4-Dichloro-2-butene			1.00	1.041		mg/Kg		104	70 - 130		
Ethanol			20.0	16.84		mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 620-20595/2-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			1.00	0.9532		mg/Kg		95	70 - 130	6	30
Acetone			1.00	0.8914		mg/Kg		89	70 - 130	23	30
Acrylonitrile			1.00	0.9672		mg/Kg		97	70 - 130	8	30
Benzene			1.00	1.044		mg/Kg		104	70 - 130	4	30
Bromobenzene			1.00	0.9579		mg/Kg		96	70 - 130	3	30
Bromochloromethane			1.00	1.023		mg/Kg		102	70 - 130	7	30
Bromodichloromethane			1.00	0.9837		mg/Kg		98	70 - 130	7	30
Bromoform			1.00	0.9581		mg/Kg		96	70 - 130	6	30
Bromomethane			1.00	0.9355		mg/Kg		94	70 - 130	9	30
2-Butanone (MEK)			1.00	1.076		mg/Kg		108	70 - 130	3	30
n-Butylbenzene			1.00	0.8999		mg/Kg		90	70 - 130	0	30
sec-Butylbenzene			1.00	0.8891		mg/Kg		89	70 - 130	1	30
tert-Butylbenzene			1.00	0.9847		mg/Kg		98	70 - 130	3	30
Carbon disulfide			1.00	0.9042		mg/Kg		90	70 - 130	6	30
Carbon tetrachloride			1.00	0.9891		mg/Kg		99	70 - 130	5	30
Chlorobenzene			1.00	0.9108		mg/Kg		91	70 - 130	4	30
Chloroethane			1.00	0.8723		mg/Kg		87	70 - 130	11	30
Chloroform			1.00	0.9812		mg/Kg		98	70 - 130	7	30
Chloromethane			1.00	0.7392		mg/Kg		74	70 - 130	7	30
2-Chlorotoluene			1.00	1.027		mg/Kg		103	70 - 130	3	30
4-Chlorotoluene			1.00	1.032		mg/Kg		103	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			1.00	0.9106		mg/Kg		91	70 - 130	5	30
Dibromochloromethane			1.00	1.005		mg/Kg		101	70 - 130	7	30
1,2-Dibromoethane (EDB)			1.00	1.064		mg/Kg		106	70 - 130	6	30
Dibromomethane			1.00	0.9978		mg/Kg		100	70 - 130	8	30
1,2-Dichlorobenzene			1.00	0.9665		mg/Kg		97	70 - 130	3	30
1,3-Dichlorobenzene			1.00	1.009		mg/Kg		101	70 - 130	3	30
1,4-Dichlorobenzene			1.00	0.8663		mg/Kg		87	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20595/2-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20595

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	1.00	0.5537	*-	mg/Kg		55	70 - 130	6	30
1,1-Dichloroethane	1.00	0.9963		mg/Kg		100	70 - 130	7	30
1,2-Dichloroethane	1.00	1.011		mg/Kg		101	70 - 130	7	30
1,1-Dichloroethene	1.00	0.9764		mg/Kg		98	70 - 130	6	30
cis-1,2-Dichloroethene	1.00	0.9894		mg/Kg		99	70 - 130	6	30
trans-1,2-Dichloroethene	1.00	1.003		mg/Kg		100	70 - 130	5	30
1,2-Dichloropropane	1.00	1.029		mg/Kg		103	70 - 130	7	30
1,3-Dichloropropane	1.00	1.055		mg/Kg		105	70 - 130	7	30
2,2-Dichloropropane	1.00	0.9944		mg/Kg		99	70 - 130	4	30
1,1-Dichloropropene	1.00	1.085		mg/Kg		109	70 - 130	4	30
cis-1,3-Dichloropropene	1.00	1.071		mg/Kg		107	70 - 130	5	30
trans-1,3-Dichloropropene	1.00	1.131		mg/Kg		113	70 - 130	6	30
Ethylbenzene	1.00	0.9706		mg/Kg		97	70 - 130	3	30
Hexachlorobutadiene	1.00	0.9496		mg/Kg		95	70 - 130	2	30
2-Hexanone (MBK)	1.00	0.9553		mg/Kg		96	70 - 130	5	30
Isopropylbenzene	1.00	0.9296		mg/Kg		93	70 - 130	2	30
4-Isopropyltoluene	1.00	0.9125		mg/Kg		91	70 - 130	0	30
Methyl tert-butyl ether	1.00	1.115		mg/Kg		112	70 - 130	6	30
4-Methyl-2-pentanone (MIBK)	1.00	1.062		mg/Kg		106	70 - 130	8	30
Methylene Chloride	1.00	0.9492		mg/Kg		95	70 - 130	6	30
Naphthalene	1.00	0.9401		mg/Kg		94	70 - 130	2	30
N-Propylbenzene	1.00	1.009		mg/Kg		101	70 - 130	3	30
Styrene	1.00	0.9403		mg/Kg		94	70 - 130	4	30
1,1,1,2-Tetrachloroethane	1.00	0.9244		mg/Kg		92	70 - 130	4	30
1,1,2,2-Tetrachloroethane	1.00	0.9333		mg/Kg		93	70 - 130	6	30
Tetrachloroethene	1.00	1.022		mg/Kg		102	70 - 130	3	30
Toluene	1.00	1.010		mg/Kg		101	70 - 130	5	30
1,2,3-Trichlorobenzene	1.00	0.9932		mg/Kg		99	70 - 130	1	30
1,2,4-Trichlorobenzene	1.00	0.9679		mg/Kg		97	70 - 130	0	30
1,3,5-Trichlorobenzene	1.00	0.9943		mg/Kg		99	70 - 130	2	30
1,1,1-Trichloroethane	1.00	0.9889		mg/Kg		99	70 - 130	5	30
1,1,2-Trichloroethane	1.00	1.013		mg/Kg		101	70 - 130	7	30
Trichloroethene	1.00	0.9718		mg/Kg		97	70 - 130	7	30
Trichlorofluoromethane (Freon 11)	1.00	0.9144		mg/Kg		91	70 - 130	7	30
1,2,3-Trichloropropane	1.00	0.9307		mg/Kg		93	70 - 130	6	30
1,2,4-Trimethylbenzene	1.00	0.9104		mg/Kg		91	70 - 130	3	30
1,3,5-Trimethylbenzene	1.00	0.9128		mg/Kg		91	70 - 130	3	30
Vinyl chloride	1.00	0.8051		mg/Kg		81	70 - 130	8	30
m,p-Xylene	1.00	1.041		mg/Kg		104	70 - 130	3	30
o-Xylene	1.00	0.9388		mg/Kg		94	70 - 130	2	30
Tetrahydrofuran	1.00	1.036		mg/Kg		104	70 - 130	9	30
Ethyl ether	1.00	1.060		mg/Kg		106	70 - 130	7	30
Tert-amyl methyl ether	1.00	1.103		mg/Kg		110	70 - 130	5	30
Ethyl tert-butyl ether	1.00	0.9981		mg/Kg		100	70 - 130	4	30
di-Isopropyl ether	1.00	1.115		mg/Kg		112	70 - 130	5	30
tert-Butanol	10.0	10.82		mg/Kg		108	70 - 130	6	30
1,4-Dioxane	10.0	10.08		mg/Kg		101	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20595/2-A
Matrix: Solid
Analysis Batch: 20596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20595

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			1.00	0.9049		mg/Kg		90	70 - 130	14	30
Ethanol			20.0	16.18		mg/Kg		81	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Acetone	0.02970	J	0.0500	0.0112	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/16/23 16:25	03/16/23 21:45	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/16/23 16:25	03/16/23 21:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*

Lab Sample ID: LCS 620-20616/1-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01803		mg/Kg		90	70 - 130
Acetone	0.0200	0.01816	J	mg/Kg		91	70 - 130
Acrylonitrile	0.0200	0.01931		mg/Kg		97	70 - 130
Benzene	0.0200	0.01924		mg/Kg		96	70 - 130
Bromobenzene	0.0200	0.01786		mg/Kg		89	70 - 130
Bromochloromethane	0.0200	0.01914		mg/Kg		96	70 - 130
Bromodichloromethane	0.0200	0.02073		mg/Kg		104	70 - 130
Bromoform	0.0200	0.01981		mg/Kg		99	70 - 130
Bromomethane	0.0200	0.01653		mg/Kg		83	70 - 130
2-Butanone (MEK)	0.0200	0.01602		mg/Kg		80	70 - 130
n-Butylbenzene	0.0200	0.01855		mg/Kg		93	70 - 130
sec-Butylbenzene	0.0200	0.01838		mg/Kg		92	70 - 130
tert-Butylbenzene	0.0200	0.01802		mg/Kg		90	70 - 130
Carbon disulfide	0.0200	0.01735		mg/Kg		87	70 - 130
Carbon tetrachloride	0.0200	0.01857		mg/Kg		93	70 - 130
Chlorobenzene	0.0200	0.02036		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.01577		mg/Kg		79	70 - 130
Chloroform	0.0200	0.01906		mg/Kg		95	70 - 130
Chloromethane	0.0200	0.01921		mg/Kg		96	70 - 130
2-Chlorotoluene	0.0200	0.01859		mg/Kg		93	70 - 130
4-Chlorotoluene	0.0200	0.01818		mg/Kg		91	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01902		mg/Kg		95	70 - 130
Dibromochloromethane	0.0200	0.02043		mg/Kg		102	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.01910		mg/Kg		96	70 - 130
Dibromomethane	0.0200	0.01952		mg/Kg		98	70 - 130
1,2-Dichlorobenzene	0.0200	0.01914		mg/Kg		96	70 - 130
1,3-Dichlorobenzene	0.0200	0.01796		mg/Kg		90	70 - 130
1,4-Dichlorobenzene	0.0200	0.01889		mg/Kg		94	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01289	*-	mg/Kg		64	70 - 130
1,1-Dichloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,2-Dichloroethane	0.0200	0.01890		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0200	0.01926		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01950		mg/Kg		98	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.02084		mg/Kg		104	70 - 130
1,3-Dichloropropane	0.0200	0.01822		mg/Kg		91	70 - 130
2,2-Dichloropropane	0.0200	0.01862		mg/Kg		93	70 - 130
1,1-Dichloropropene	0.0200	0.01716		mg/Kg		86	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20616/1-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0200	0.01748		mg/Kg		87	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01870		mg/Kg		94	70 - 130
Ethylbenzene	0.0200	0.01943		mg/Kg		97	70 - 130
Hexachlorobutadiene	0.0200	0.01709		mg/Kg		85	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01828		mg/Kg		91	70 - 130
4-Isopropyltoluene	0.0200	0.01771		mg/Kg		89	70 - 130
Methyl tert-butyl ether	0.0200	0.01782		mg/Kg		89	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01579		mg/Kg		79	70 - 130
Methylene Chloride	0.0200	0.01801		mg/Kg		90	70 - 130
Naphthalene	0.0200	0.01935		mg/Kg		97	70 - 130
N-Propylbenzene	0.0200	0.01862		mg/Kg		93	70 - 130
Styrene	0.0200	0.01907		mg/Kg		95	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01909		mg/Kg		95	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02046		mg/Kg		102	70 - 130
Tetrachloroethene	0.0200	0.01796		mg/Kg		90	70 - 130
Toluene	0.0200	0.01885		mg/Kg		94	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01882		mg/Kg		94	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01788		mg/Kg		89	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01765		mg/Kg		88	70 - 130
1,1,1-Trichloroethane	0.0200	0.01934		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0200	0.02038		mg/Kg		102	70 - 130
Trichloroethene	0.0200	0.01822		mg/Kg		91	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01970		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	0.0200	0.01853		mg/Kg		93	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01857		mg/Kg		93	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01882		mg/Kg		94	70 - 130
Vinyl chloride	0.0200	0.01743		mg/Kg		87	70 - 130
m,p-Xylene	0.0400	0.04174		mg/Kg		104	70 - 130
o-Xylene	0.0200	0.01908		mg/Kg		95	70 - 130
Tetrahydrofuran	0.0200	0.01838		mg/Kg		92	70 - 130
Ethyl ether	0.0200	0.01721		mg/Kg		86	70 - 130
Tert-amyl methyl ether	0.0200	0.01811		mg/Kg		91	70 - 130
Ethyl tert-butyl ether	0.0200	0.01744		mg/Kg		87	70 - 130
di-Isopropyl ether	0.0200	0.01764		mg/Kg		88	70 - 130
tert-Butanol	0.200	0.1820		mg/Kg		91	70 - 130
1,4-Dioxane	0.200	0.1904		mg/Kg		95	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02067	J	mg/Kg		103	70 - 130
Ethanol	0.400	0.4020	J	mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20616/2-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01715		mg/Kg		86	70 - 130	5	30
Acetone	0.0200	0.01920	J	mg/Kg		96	70 - 130	6	30
Acrylonitrile	0.0200	0.01872		mg/Kg		94	70 - 130	3	30
Benzene	0.0200	0.01923		mg/Kg		96	70 - 130	0	30
Bromobenzene	0.0200	0.01785		mg/Kg		89	70 - 130	0	30
Bromochloromethane	0.0200	0.01910		mg/Kg		95	70 - 130	0	30
Bromodichloromethane	0.0200	0.02078		mg/Kg		104	70 - 130	0	30
Bromoform	0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Bromomethane	0.0200	0.01632		mg/Kg		82	70 - 130	1	30
2-Butanone (MEK)	0.0200	0.01676		mg/Kg		84	70 - 130	5	30
n-Butylbenzene	0.0200	0.01867		mg/Kg		93	70 - 130	1	30
sec-Butylbenzene	0.0200	0.01844		mg/Kg		92	70 - 130	0	30
tert-Butylbenzene	0.0200	0.01822		mg/Kg		91	70 - 130	1	30
Carbon disulfide	0.0200	0.01649		mg/Kg		82	70 - 130	5	30
Carbon tetrachloride	0.0200	0.01833		mg/Kg		92	70 - 130	1	30
Chlorobenzene	0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloroethane	0.0200	0.01560		mg/Kg		78	70 - 130	1	30
Chloroform	0.0200	0.01900		mg/Kg		95	70 - 130	0	30
Chloromethane	0.0200	0.01933		mg/Kg		97	70 - 130	1	30
2-Chlorotoluene	0.0200	0.01840		mg/Kg		92	70 - 130	1	30
4-Chlorotoluene	0.0200	0.01830		mg/Kg		92	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02034		mg/Kg		102	70 - 130	7	30
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130	2	30
1,2-Dibromoethane (EDB)	0.0200	0.01887		mg/Kg		94	70 - 130	1	30
Dibromomethane	0.0200	0.01931		mg/Kg		97	70 - 130	1	30
1,2-Dichlorobenzene	0.0200	0.01907		mg/Kg		95	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.01813		mg/Kg		91	70 - 130	1	30
1,4-Dichlorobenzene	0.0200	0.01907		mg/Kg		95	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01283	*-	mg/Kg		64	70 - 130	0	30
1,1-Dichloroethane	0.0200	0.02011		mg/Kg		101	70 - 130	1	30
1,2-Dichloroethane	0.0200	0.01876		mg/Kg		94	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.01855		mg/Kg		93	70 - 130	4	30
cis-1,2-Dichloroethene	0.0200	0.01945		mg/Kg		97	70 - 130	0	30
trans-1,2-Dichloroethene	0.0200	0.01960		mg/Kg		98	70 - 130	1	30
1,2-Dichloropropane	0.0200	0.02085		mg/Kg		104	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.01799		mg/Kg		90	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01842		mg/Kg		92	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.01728		mg/Kg		86	70 - 130	1	30
cis-1,3-Dichloropropene	0.0200	0.01773		mg/Kg		89	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.01841		mg/Kg		92	70 - 130	2	30
Ethylbenzene	0.0200	0.01964		mg/Kg		98	70 - 130	1	30
Hexachlorobutadiene	0.0200	0.01727		mg/Kg		86	70 - 130	1	30
2-Hexanone (MBK)	0.0200	0.01570		mg/Kg		78	70 - 130	4	30
Isopropylbenzene	0.0200	0.01846		mg/Kg		92	70 - 130	1	30
4-Isopropyltoluene	0.0200	0.01789		mg/Kg		89	70 - 130	1	30
Methyl tert-butyl ether	0.0200	0.01762		mg/Kg		88	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01631		mg/Kg		82	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20616/2-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			0.0200	0.01806		mg/Kg		90	70 - 130	0	30
Naphthalene			0.0200	0.02041		mg/Kg		102	70 - 130	5	30
N-Propylbenzene			0.0200	0.01859		mg/Kg		93	70 - 130	0	30
Styrene			0.0200	0.01917		mg/Kg		96	70 - 130	1	30
1,1,1,2-Tetrachloroethane			0.0200	0.01918		mg/Kg		96	70 - 130	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.02057		mg/Kg		103	70 - 130	1	30
Tetrachloroethene			0.0200	0.01812		mg/Kg		91	70 - 130	1	30
Toluene			0.0200	0.01867		mg/Kg		93	70 - 130	1	30
1,2,3-Trichlorobenzene			0.0200	0.01928		mg/Kg		96	70 - 130	2	30
1,2,4-Trichlorobenzene			0.0200	0.01818		mg/Kg		91	70 - 130	2	30
1,3,5-Trichlorobenzene			0.0200	0.01780		mg/Kg		89	70 - 130	1	30
1,1,1-Trichloroethane			0.0200	0.01914		mg/Kg		96	70 - 130	1	30
1,1,2-Trichloroethane			0.0200	0.02029		mg/Kg		101	70 - 130	0	30
Trichloroethene			0.0200	0.01850		mg/Kg		93	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01958		mg/Kg		98	70 - 130	1	30
1,2,3-Trichloropropane			0.0200	0.01854		mg/Kg		93	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0200	0.01859		mg/Kg		93	70 - 130	0	30
1,3,5-Trimethylbenzene			0.0200	0.01863		mg/Kg		93	70 - 130	1	30
Vinyl chloride			0.0200	0.01731		mg/Kg		87	70 - 130	1	30
m,p-Xylene			0.0400	0.04198		mg/Kg		105	70 - 130	1	30
o-Xylene			0.0200	0.01911		mg/Kg		96	70 - 130	0	30
Tetrahydrofuran			0.0200	0.01834		mg/Kg		92	70 - 130	0	30
Ethyl ether			0.0200	0.01708		mg/Kg		85	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.01780		mg/Kg		89	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01760		mg/Kg		88	70 - 130	1	30
di-Isopropyl ether			0.0200	0.01767		mg/Kg		88	70 - 130	0	30
tert-Butanol			0.200	0.1841		mg/Kg		92	70 - 130	1	30
1,4-Dioxane			0.200	0.1957		mg/Kg		98	70 - 130	3	30
trans-1,4-Dichloro-2-butene			0.0200	0.01973	J	mg/Kg		99	70 - 130	5	30
Ethanol			0.400	0.4058	J	mg/Kg		101	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.00500	0.00317	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02162		mg/Kg		108	70 - 130
Acetone	0.0200	0.02439	J	mg/Kg		122	70 - 130
Acrylonitrile	0.0200	0.02229		mg/Kg		111	70 - 130
Benzene	0.0200	0.02109		mg/Kg		105	70 - 130
Bromobenzene	0.0200	0.01959		mg/Kg		98	70 - 130
Bromochloromethane	0.0200	0.02002		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.02108		mg/Kg		105	70 - 130
Bromoform	0.0200	0.02001		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02469		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.01990		mg/Kg		100	70 - 130
n-Butylbenzene	0.0200	0.02248		mg/Kg		112	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	0.0200	0.02155		mg/Kg		108	70 - 130
tert-Butylbenzene	0.0200	0.02024		mg/Kg		101	70 - 130
Carbon disulfide	0.0200	0.02177		mg/Kg		109	70 - 130
Carbon tetrachloride	0.0200	0.02034		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02157		mg/Kg		108	70 - 130
Chloroethane	0.0200	0.02688	*+	mg/Kg		134	70 - 130
Chloroform	0.0200	0.02092		mg/Kg		105	70 - 130
Chloromethane	0.0200	0.02174		mg/Kg		109	70 - 130
2-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
4-Chlorotoluene	0.0200	0.02143		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02250		mg/Kg		112	70 - 130
Dibromochloromethane	0.0200	0.01991		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02036		mg/Kg		102	70 - 130
Dibromomethane	0.0200	0.02094		mg/Kg		105	70 - 130
1,2-Dichlorobenzene	0.0200	0.02118		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02050		mg/Kg		103	70 - 130
1,4-Dichlorobenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.02064		mg/Kg		103	70 - 130
1,1-Dichloroethane	0.0200	0.02142		mg/Kg		107	70 - 130
1,2-Dichloroethane	0.0200	0.02137		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0200	0.02122		mg/Kg		106	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02044		mg/Kg		102	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02092		mg/Kg		105	70 - 130
1,2-Dichloropropane	0.0200	0.02134		mg/Kg		107	70 - 130
1,3-Dichloropropane	0.0200	0.02139		mg/Kg		107	70 - 130
2,2-Dichloropropane	0.0200	0.02112		mg/Kg		106	70 - 130
1,1-Dichloropropene	0.0200	0.02145		mg/Kg		107	70 - 130
cis-1,3-Dichloropropene	0.0200	0.02085		mg/Kg		104	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02089		mg/Kg		104	70 - 130
Ethylbenzene	0.0200	0.02187		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.01916		mg/Kg		96	70 - 130
2-Hexanone (MBK)	0.0200	0.02209		mg/Kg		110	70 - 130
Isopropylbenzene	0.0200	0.02119		mg/Kg		106	70 - 130
4-Isopropyltoluene	0.0200	0.02148		mg/Kg		107	70 - 130
Methyl tert-butyl ether	0.0200	0.02097		mg/Kg		105	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02150		mg/Kg		107	70 - 130
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130
Naphthalene	0.0200	0.02395		mg/Kg		120	70 - 130
N-Propylbenzene	0.0200	0.02205		mg/Kg		110	70 - 130
Styrene	0.0200	0.02086		mg/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02040		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02294		mg/Kg		115	70 - 130
Tetrachloroethene	0.0200	0.01886		mg/Kg		94	70 - 130
Toluene	0.0200	0.02036		mg/Kg		102	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02314		mg/Kg		116	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02111		mg/Kg		106	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02144		mg/Kg		107	70 - 130
1,1,1-Trichloroethane	0.0200	0.02078		mg/Kg		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0200	0.02117		mg/Kg		106	70 - 130
Trichloroethene	0.0200	0.02063		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02132		mg/Kg		107	70 - 130
1,2,3-Trichloropropane	0.0200	0.02233		mg/Kg		112	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02125		mg/Kg		106	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02104		mg/Kg		105	70 - 130
Vinyl chloride	0.0200	0.02439		mg/Kg		122	70 - 130
m,p-Xylene	0.0200	0.02127		mg/Kg		106	70 - 130
o-Xylene	0.0200	0.02098		mg/Kg		105	70 - 130
Tetrahydrofuran	0.0200	0.02224		mg/Kg		111	70 - 130
Ethyl ether	0.0200	0.02125		mg/Kg		106	70 - 130
Tert-amyl methyl ether	0.0200	0.02090		mg/Kg		104	70 - 130
Ethyl tert-butyl ether	0.0200	0.02059		mg/Kg		103	70 - 130
di-Isopropyl ether	0.0200	0.02109		mg/Kg		105	70 - 130
tert-Butanol	0.200	0.2087		mg/Kg		104	70 - 130
1,4-Dioxane	0.200	0.2228		mg/Kg		111	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02169	J	mg/Kg		108	70 - 130
Ethanol	0.400	0.4133	J	mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02213		mg/Kg		111	70 - 130	2	30
Acetone	0.0200	0.02167	J	mg/Kg		108	70 - 130	12	30
Acrylonitrile	0.0200	0.02246		mg/Kg		112	70 - 130	1	30
Benzene	0.0200	0.02181		mg/Kg		109	70 - 130	3	30
Bromobenzene	0.0200	0.02014		mg/Kg		101	70 - 130	3	30
Bromochloromethane	0.0200	0.02033		mg/Kg		102	70 - 130	2	30
Bromodichloromethane	0.0200	0.02140		mg/Kg		107	70 - 130	1	30
Bromoform	0.0200	0.01999		mg/Kg		100	70 - 130	0	30
Bromomethane	0.0200	0.02616	*+	mg/Kg		131	70 - 130	6	30
2-Butanone (MEK)	0.0200	0.02080		mg/Kg		104	70 - 130	4	30
n-Butylbenzene	0.0200	0.02318		mg/Kg		116	70 - 130	3	30
sec-Butylbenzene	0.0200	0.02238		mg/Kg		112	70 - 130	4	30
tert-Butylbenzene	0.0200	0.02094		mg/Kg		105	70 - 130	3	30
Carbon disulfide	0.0200	0.02254		mg/Kg		113	70 - 130	3	30
Carbon tetrachloride	0.0200	0.02100		mg/Kg		105	70 - 130	3	30
Chlorobenzene	0.0200	0.02217		mg/Kg		111	70 - 130	3	30
Chloroethane	0.0200	0.02865	*+	mg/Kg		143	70 - 130	6	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform			0.0200	0.02161		mg/Kg		108	70 - 130	3	30
Chloromethane			0.0200	0.02256		mg/Kg		113	70 - 130	4	30
2-Chlorotoluene			0.0200	0.02163		mg/Kg		108	70 - 130	4	30
4-Chlorotoluene			0.0200	0.02188		mg/Kg		109	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02246		mg/Kg		112	70 - 130	0	30
Dibromochloromethane			0.0200	0.02032		mg/Kg		102	70 - 130	2	30
1,2-Dibromoethane (EDB)			0.0200	0.02096		mg/Kg		105	70 - 130	3	30
Dibromomethane			0.0200	0.02132		mg/Kg		107	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02194		mg/Kg		110	70 - 130	4	30
1,3-Dichlorobenzene			0.0200	0.02093		mg/Kg		105	70 - 130	2	30
1,4-Dichlorobenzene			0.0200	0.02222		mg/Kg		111	70 - 130	4	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.02130		mg/Kg		107	70 - 130	3	30
1,1-Dichloroethane			0.0200	0.02247		mg/Kg		112	70 - 130	5	30
1,2-Dichloroethane			0.0200	0.02195		mg/Kg		110	70 - 130	3	30
1,1-Dichloroethene			0.0200	0.02155		mg/Kg		108	70 - 130	2	30
cis-1,2-Dichloroethene			0.0200	0.02152		mg/Kg		108	70 - 130	5	30
trans-1,2-Dichloroethene			0.0200	0.02154		mg/Kg		108	70 - 130	3	30
1,2-Dichloropropane			0.0200	0.02238		mg/Kg		112	70 - 130	5	30
1,3-Dichloropropane			0.0200	0.02193		mg/Kg		110	70 - 130	3	30
2,2-Dichloropropane			0.0200	0.02152		mg/Kg		108	70 - 130	2	30
1,1-Dichloropropene			0.0200	0.02214		mg/Kg		111	70 - 130	3	30
cis-1,3-Dichloropropene			0.0200	0.02144		mg/Kg		107	70 - 130	3	30
trans-1,3-Dichloropropene			0.0200	0.02168		mg/Kg		108	70 - 130	4	30
Ethylbenzene			0.0200	0.02221		mg/Kg		111	70 - 130	2	30
Hexachlorobutadiene			0.0200	0.01978		mg/Kg		99	70 - 130	3	30
2-Hexanone (MBK)			0.0200	0.02103		mg/Kg		105	70 - 130	5	30
Isopropylbenzene			0.0200	0.02169		mg/Kg		108	70 - 130	2	30
4-Isopropyltoluene			0.0200	0.02239		mg/Kg		112	70 - 130	4	30
Methyl tert-butyl ether			0.0200	0.02159		mg/Kg		108	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.02135		mg/Kg		107	70 - 130	1	30
Methylene Chloride			0.0200	0.02213		mg/Kg		111	70 - 130	3	30
Naphthalene			0.0200	0.02455		mg/Kg		123	70 - 130	2	30
N-Propylbenzene			0.0200	0.02273		mg/Kg		114	70 - 130	3	30
Styrene			0.0200	0.02158		mg/Kg		108	70 - 130	3	30
1,1,1,2-Tetrachloroethane			0.0200	0.02111		mg/Kg		106	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.02247		mg/Kg		112	70 - 130	2	30
Tetrachloroethene			0.0200	0.01921		mg/Kg		96	70 - 130	2	30
Toluene			0.0200	0.02128		mg/Kg		106	70 - 130	4	30
1,2,3-Trichlorobenzene			0.0200	0.02359		mg/Kg		118	70 - 130	2	30
1,2,4-Trichlorobenzene			0.0200	0.02160		mg/Kg		108	70 - 130	2	30
1,3,5-Trichlorobenzene			0.0200	0.02180		mg/Kg		109	70 - 130	2	30
1,1,1-Trichloroethane			0.0200	0.02158		mg/Kg		108	70 - 130	4	30
1,1,2-Trichloroethane			0.0200	0.02162		mg/Kg		108	70 - 130	2	30
Trichloroethene			0.0200	0.02143		mg/Kg		107	70 - 130	4	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02178		mg/Kg		109	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02221		mg/Kg		111	70 - 130	1	30
1,2,4-Trimethylbenzene			0.0200	0.02159		mg/Kg		108	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0200	0.02163		mg/Kg		108	70 - 130	3	30
Vinyl chloride			0.0200	0.02549		mg/Kg		127	70 - 130	4	30
m,p-Xylene			0.0200	0.02195		mg/Kg		110	70 - 130	3	30
o-Xylene			0.0200	0.02157		mg/Kg		108	70 - 130	3	30
Tetrahydrofuran			0.0200	0.02117		mg/Kg		106	70 - 130	5	30
Ethyl ether			0.0200	0.02142		mg/Kg		107	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.02136		mg/Kg		107	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.02108		mg/Kg		105	70 - 130	2	30
di-Isopropyl ether			0.0200	0.02132		mg/Kg		107	70 - 130	1	30
tert-Butanol			0.200	0.1961		mg/Kg		98	70 - 130	6	30
1,4-Dioxane			0.200	0.2075		mg/Kg		104	70 - 130	7	30
trans-1,4-Dichloro-2-butene			0.0200	0.02079	J	mg/Kg		104	70 - 130	4	30
Ethanol			0.400	0.4171	J	mg/Kg		104	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Aniline	ND		0.330	0.0253	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pentachlorophenol	0.1786	J	0.330	0.135	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20546/1-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Phenol	ND		0.330	0.0680	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/15/23 09:29	03/15/23 17:46	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/15/23 09:29	03/15/23 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*15 - 110*	*03/15/23 09:29*	*03/15/23 17:46*	*1*
Terphenyl-d14	*79*		*30 - 130*	*03/15/23 09:29*	*03/15/23 17:46*	*1*

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.069		mg/Kg		64	40 - 140
1,2,4-Trichlorobenzene	1.67	1.358		mg/Kg		81	40 - 140
1,2-Dichlorobenzene	1.67	1.310		mg/Kg		79	40 - 140
1,3-Dichlorobenzene	1.67	1.311		mg/Kg		79	40 - 140
1,4-Dichlorobenzene	1.67	1.283		mg/Kg		77	40 - 140
1-Methylnaphthalene	1.67	1.449		mg/Kg		87	40 - 140
2,4,5-Trichlorophenol	1.67	1.331		mg/Kg		80	30 - 130
2,4,6-Trichlorophenol	1.67	1.454		mg/Kg		87	30 - 130
2,4-Dichlorophenol	1.67	1.322		mg/Kg		79	30 - 130
2,4-Dimethylphenol	1.67	1.334		mg/Kg		80	30 - 130
2,4-Dinitrophenol	1.67	1.806		mg/Kg		108	30 - 130
2,4-Dinitrotoluene	1.67	1.477		mg/Kg		89	40 - 140
2,6-Dinitrotoluene	1.67	1.457		mg/Kg		87	40 - 140
2-Chloronaphthalene	1.67	1.440		mg/Kg		86	40 - 140
2-Chlorophenol	1.67	1.381		mg/Kg		83	30 - 130
2-Methylnaphthalene	1.67	1.470		mg/Kg		88	40 - 140
2-Methylphenol	1.67	1.501		mg/Kg		90	30 - 130
2-Nitroaniline	1.67	1.463		mg/Kg		88	40 - 140
2-Nitrophenol	1.67	1.405		mg/Kg		84	30 - 130
3 & 4 Methylphenol	1.67	1.515		mg/Kg		91	30 - 130
3,3'-Dichlorobenzidine	1.67	1.974		mg/Kg		118	40 - 140
3-Nitroaniline	1.67	1.047		mg/Kg		63	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.8543		mg/Kg		51	30 - 130
4-Bromophenyl phenyl ether	1.67	1.493		mg/Kg		90	40 - 140
4-Chloro-3-methylphenol	1.67	1.486		mg/Kg		89	30 - 130
4-Chloroaniline	1.67	0.7796		mg/Kg		47	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.358		mg/Kg		81	40 - 140
4-Nitroaniline	1.67	1.510		mg/Kg		91	40 - 140
4-Nitrophenol	1.67	1.370		mg/Kg		82	30 - 130
Acenaphthene	1.67	1.376		mg/Kg		83	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthylene	1.67	1.390		mg/Kg		83	40 - 140
Acetophenone	1.67	1.453		mg/Kg		87	40 - 140
Aniline	1.67	1.116		mg/Kg		67	40 - 140
Anthracene	1.67	1.770		mg/Kg		106	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.593		mg/Kg		96	40 - 140
Benzidine	1.67	1.169		mg/Kg		70	40 - 140
Benzo[a]anthracene	1.67	1.690		mg/Kg		101	40 - 140
Benzo[a]pyrene	1.67	1.554		mg/Kg		93	40 - 140
Benzo[b]fluoranthene	1.67	1.438		mg/Kg		86	40 - 140
Benzo[g,h,i]perylene	1.67	1.634		mg/Kg		98	40 - 140
Benzo[k]fluoranthene	1.67	1.671		mg/Kg		100	40 - 140
Benzoic acid	1.67	0.6923		mg/Kg		42	30 - 130
Benzyl alcohol	1.67	1.316		mg/Kg		79	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.300		mg/Kg		78	40 - 140
Bis(2-chloroethyl)ether	1.67	1.355		mg/Kg		81	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.084		mg/Kg		65	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.752		mg/Kg		105	40 - 140
Butyl benzyl phthalate	1.67	1.664		mg/Kg		100	40 - 140
Carbazole	1.67	1.659		mg/Kg		100	40 - 140
Chrysene	1.67	1.721		mg/Kg		103	40 - 140
Dibenz(a,h)anthracene	1.67	1.512		mg/Kg		91	40 - 140
Dibenzofuran	1.67	1.508		mg/Kg		90	40 - 140
Diethyl phthalate	1.67	1.507		mg/Kg		90	40 - 140
Dimethyl phthalate	1.67	1.468		mg/Kg		88	40 - 140
Di-n-butyl phthalate	1.67	1.805		mg/Kg		108	40 - 140
Di-n-octyl phthalate	1.67	1.763		mg/Kg		106	40 - 140
Fluoranthene	1.67	1.699		mg/Kg		102	40 - 140
Fluorene	1.67	1.344		mg/Kg		81	40 - 140
Hexachlorobenzene	1.67	1.512		mg/Kg		91	40 - 140
Hexachlorobutadiene	1.67	1.169		mg/Kg		70	40 - 140
Hexachlorocyclopentadiene	1.67	1.432		mg/Kg		86	40 - 140
Hexachloroethane	1.67	1.373		mg/Kg		82	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.453		mg/Kg		87	40 - 140
Isophorone	1.67	1.151		mg/Kg		69	40 - 140
Naphthalene	1.67	1.388		mg/Kg		83	40 - 140
Nitrobenzene	1.67	1.475		mg/Kg		88	40 - 140
N-Nitrosodimethylamine	1.67	1.341		mg/Kg		80	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.495		mg/Kg		90	40 - 140
N-Nitrosodiphenylamine	1.67	1.573		mg/Kg		94	40 - 140
Pentachloronitrobenzene	1.67	1.139		mg/Kg		68	40 - 140
Pentachlorophenol	1.67	1.002		mg/Kg		60	30 - 130
Phenanthrene	1.67	1.592		mg/Kg		96	40 - 140
Phenol	1.67	1.528		mg/Kg		92	40 - 140
Pyrene	1.67	1.726		mg/Kg		104	40 - 140
Pyridine	1.67	1.093		mg/Kg		66	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20546/2-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20546

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*88*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*82*		*30 - 130*

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.063		mg/Kg		64	40 - 140	1	30
1,2,4-Trichlorobenzene			1.67	1.322		mg/Kg		79	40 - 140	3	30
1,2-Dichlorobenzene			1.67	1.266		mg/Kg		76	40 - 140	3	30
1,3-Dichlorobenzene			1.67	1.278		mg/Kg		77	40 - 140	3	30
1,4-Dichlorobenzene			1.67	1.265		mg/Kg		76	40 - 140	1	30
1-Methylnaphthalene			1.67	1.447		mg/Kg		87	40 - 140	0	30
2,4,5-Trichlorophenol			1.67	1.329		mg/Kg		80	30 - 130	0	30
2,4,6-Trichlorophenol			1.67	1.456		mg/Kg		87	30 - 130	0	30
2,4-Dichlorophenol			1.67	1.282		mg/Kg		77	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.324		mg/Kg		79	30 - 130	1	30
2,4-Dinitrophenol			1.67	1.780		mg/Kg		107	30 - 130	1	30
2,4-Dinitrotoluene			1.67	1.493		mg/Kg		90	40 - 140	1	30
2,6-Dinitrotoluene			1.67	1.454		mg/Kg		87	40 - 140	0	30
2-Chloronaphthalene			1.67	1.413		mg/Kg		85	40 - 140	2	30
2-Chlorophenol			1.67	1.348		mg/Kg		81	30 - 130	2	30
2-Methylnaphthalene			1.67	1.442		mg/Kg		87	40 - 140	2	30
2-Methylphenol			1.67	1.469		mg/Kg		88	30 - 130	2	30
2-Nitroaniline			1.67	1.481		mg/Kg		89	40 - 140	1	30
2-Nitrophenol			1.67	1.379		mg/Kg		83	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.445		mg/Kg		87	30 - 130	5	30
3,3'-Dichlorobenzidine			1.67	1.855		mg/Kg		111	40 - 140	6	30
3-Nitroaniline			1.67	0.9972		mg/Kg		60	40 - 140	5	30
4,6-Dinitro-2-methylphenol			1.67	0.9243		mg/Kg		55	30 - 130	8	30
4-Bromophenyl phenyl ether			1.67	1.436		mg/Kg		86	40 - 140	4	30
4-Chloro-3-methylphenol			1.67	1.457		mg/Kg		87	30 - 130	2	30
4-Chloroaniline			1.67	0.7583		mg/Kg		45	40 - 140	3	30
4-Chlorophenyl phenyl ether			1.67	1.359		mg/Kg		82	40 - 140	0	30
4-Nitroaniline			1.67	1.409		mg/Kg		85	40 - 140	7	30
4-Nitrophenol			1.67	1.238		mg/Kg		74	30 - 130	10	30
Acenaphthene			1.67	1.350		mg/Kg		81	40 - 140	2	30
Acenaphthylene			1.67	1.388		mg/Kg		83	40 - 140	0	30
Acetophenone			1.67	1.417		mg/Kg		85	40 - 140	3	30
Aniline			1.67	1.015		mg/Kg		61	40 - 140	9	30
Anthracene			1.67	1.697		mg/Kg		102	40 - 140	4	30
Azobenzene/Diphenyldiazene			1.67	1.578		mg/Kg		95	40 - 140	1	30
Benzidine			1.67	1.298		mg/Kg		78	40 - 140	11	30
Benzo[a]anthracene			1.67	1.622		mg/Kg		97	40 - 140	4	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20546/3-A
Matrix: Solid
Analysis Batch: 20556

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene			1.67	1.491		mg/Kg		89	40 - 140	4	30
Benzo[b]fluoranthene			1.67	1.450		mg/Kg		87	40 - 140	1	30
Benzo[g,h,i]perylene			1.67	1.611		mg/Kg		97	40 - 140	1	30
Benzo[k]fluoranthene			1.67	1.552		mg/Kg		93	40 - 140	7	30
Benzoic acid			1.67	0.7118		mg/Kg		43	30 - 130	3	30
Benzyl alcohol			1.67	1.267		mg/Kg		76	40 - 140	4	30
Bis(2-chloroethoxy)methane			1.67	1.287		mg/Kg		77	40 - 140	1	30
Bis(2-chloroethyl)ether			1.67	1.316		mg/Kg		79	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.249		mg/Kg		75	40 - 140	14	30
Bis(2-ethylhexyl) phthalate			1.67	1.681		mg/Kg		101	40 - 140	4	30
Butyl benzyl phthalate			1.67	1.563		mg/Kg		94	40 - 140	6	30
Carbazole			1.67	1.586		mg/Kg		95	40 - 140	5	30
Chrysene			1.67	1.596		mg/Kg		96	40 - 140	8	30
Dibenz(a,h)anthracene			1.67	1.500		mg/Kg		90	40 - 140	1	30
Dibenzofuran			1.67	1.500		mg/Kg		90	40 - 140	1	30
Diethyl phthalate			1.67	1.459		mg/Kg		88	40 - 140	3	30
Dimethyl phthalate			1.67	1.437		mg/Kg		86	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.725		mg/Kg		104	40 - 140	5	30
Di-n-octyl phthalate			1.67	1.713		mg/Kg		103	40 - 140	3	30
Fluoranthene			1.67	1.612		mg/Kg		97	40 - 140	5	30
Fluorene			1.67	1.340		mg/Kg		80	40 - 140	0	30
Hexachlorobenzene			1.67	1.480		mg/Kg		89	40 - 140	2	30
Hexachlorobutadiene			1.67	1.146		mg/Kg		69	40 - 140	2	30
Hexachlorocyclopentadiene			1.67	1.443		mg/Kg		87	40 - 140	1	30
Hexachloroethane			1.67	1.349		mg/Kg		81	40 - 140	2	30
Indeno[1,2,3-cd]pyrene			1.67	1.447		mg/Kg		87	40 - 140	0	30
Isophorone			1.67	1.140		mg/Kg		68	40 - 140	1	30
Naphthalene			1.67	1.340		mg/Kg		80	40 - 140	3	30
Nitrobenzene			1.67	1.474		mg/Kg		88	40 - 140	0	30
N-Nitrosodimethylamine			1.67	1.347		mg/Kg		81	40 - 140	0	30
N-Nitrosodi-n-propylamine			1.67	1.423		mg/Kg		85	40 - 140	5	30
N-Nitrosodiphenylamine			1.67	1.536		mg/Kg		92	40 - 140	2	30
Pentachloronitrobenzene			1.67	1.099		mg/Kg		66	40 - 140	4	30
Pentachlorophenol			1.67	1.054		mg/Kg		63	30 - 130	5	30
Phenanthrene			1.67	1.519		mg/Kg		91	40 - 140	5	30
Phenol			1.67	1.488		mg/Kg		89	40 - 140	3	30
Pyrene			1.67	1.615		mg/Kg		97	40 - 140	7	30
Pyridine			1.67	1.154		mg/Kg		69	40 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*
Phenol-d5 (Surr)	*85*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*76*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660942/1-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Naphthalene	0.03635	J	0.0500	0.0340	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/09/23 07:17	03/09/23 08:23	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/09/23 07:17	03/09/23 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*115*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*
a,a,a-Trifluorotoluene (pid)	*114*		*70 - 130*	*03/09/23 07:17*	*03/09/23 08:23*	*1*

Lab Sample ID: LCS 480-660942/2-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.477		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.462		mg/Kg		98	70 - 130
Methyl tert-butyl ether	2.50	2.412		mg/Kg		96	70 - 130
m,p-Xylene	5.00	4.982		mg/Kg		100	70 - 130
Naphthalene	2.50	2.249		mg/Kg		90	70 - 130
o-Xylene	2.50	2.465		mg/Kg		99	70 - 130
Toluene	2.50	2.480		mg/Kg		99	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.658		mg/Kg		102	70 - 130
C9-C10 Aromatics	2.50	2.460		mg/Kg		98	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.320		mg/Kg		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Lab Sample ID: LCSD 480-660942/3-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene	2.50	2.472		mg/Kg		99	70 - 130	0	25
Methyl tert-butyl ether	2.50	2.445		mg/Kg		98	70 - 130	1	25
m,p-Xylene	5.00	4.933		mg/Kg		99	70 - 130	1	25
Naphthalene	2.50	2.324		mg/Kg		93	70 - 130	3	25
o-Xylene	2.50	2.451		mg/Kg		98	70 - 130	1	25
Toluene	2.50	2.465		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)	7.50	7.534		mg/Kg		100	70 - 130	2	25

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660942/3-A
Matrix: Solid
Analysis Batch: 660951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660942

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			2.50	2.414		mg/Kg		97	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.204		mg/Kg		96	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20416/1-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/09/23 15:30	03/11/23 10:11	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/09/23 15:30	03/11/23 10:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*
Tetrachloro-m-xylene	*59*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*03/09/23 15:30*	*03/11/23 10:11*	*1*

Lab Sample ID: LCS 620-20416/2-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20416

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016			0.167	0.1627		mg/Kg		98	40 - 140
PCB-1016			0.167	0.1689		mg/Kg		101	40 - 140
PCB-1260			0.167	0.1706		mg/Kg		102	40 - 140
PCB-1260			0.167	0.1685		mg/Kg		101	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*77*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20416/3-A
Matrix: Solid
Analysis Batch: 20438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20416

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1920		mg/Kg		115	40 - 140	17	30
PCB-1016			0.167	0.1877		mg/Kg		113	40 - 140	11	30
PCB-1260			0.167	0.1752		mg/Kg		105	40 - 140	3	30
PCB-1260			0.167	0.1725		mg/Kg		103	40 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*30 - 150*
Tetrachloro-m-xylene	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-352779/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
HFPODA	ND		2.00	1.00	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
DONA	ND		3.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-352779/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
M2-8:2 FTS	*90*		*15 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
M2-6:2 FTS	*93*		*10 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C5 PFHxA	*91*		*10 - 174*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C4 PFHpA	*101*		*10 - 178*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C8 PFOA	*96*		*26 - 159*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C7 PFUnA	*98*		*12 - 173*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C2 PFTeDA	*95*		*10 - 169*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C3 PFHxS	*98*		*24 - 171*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C8 PFOS	*99*		*41 - 154*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d3-NMeFOSAA	*72*		*10 - 178*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d5-NEtFOSAA	*71*		*10 - 193*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C8 FOSA	*80*		*14 - 163*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C4 PFBA	*85*		*28 - 153*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d7-N-MeFOSE-M	*76*		*10 - 179*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d3-NMePFOSA	*69*		*10 - 175*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d9-N-EtFOSE-M	*76*		*10 - 185*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
d5-NEtPFOSA	*73*		*10 - 180*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C3 HFPO-DA	*82*		*10 - 169*	*03/13/23 07:29*	*03/22/23 14:55*	*1*

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	24.19		ug/Kg		97	59 - 132
Perfluoroheptanoic acid	25.0	24.04		ug/Kg		96	59 - 137
Perfluorooctanoic acid	25.0	23.76		ug/Kg		95	59 - 131
Perfluorononanoic acid	25.0	23.64		ug/Kg		95	61 - 134
Perfluorodecanoic acid	25.0	21.61		ug/Kg		86	56 - 133
Perfluorotridecanoic acid	25.0	22.95		ug/Kg		92	53 - 143
Perfluorotetradecanoic acid	25.0	21.94		ug/Kg		88	62 - 134
Perfluorobutanesulfonic acid	22.1	21.05		ug/Kg		95	54 - 130
Perfluorohexanesulfonic acid	22.8	20.90		ug/Kg		92	59 - 129
Perfluorooctanesulfonic acid	23.1	21.99		ug/Kg		95	61 - 126
NEtFOSAA	25.0	25.47		ug/Kg		102	57 - 127

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	24.82		ug/Kg		99	60 - 134
10:2 FTS	24.1	24.81		ug/Kg		103	46 - 143
Perfluoropentanesulfonic acid	23.5	21.60		ug/Kg		92	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.17		ug/Kg		89	59 - 132
Perfluorononanesulfonic acid	24.0	22.47		ug/Kg		94	60 - 132
Perfluorodecanesulfonic acid	24.1	22.27		ug/Kg		92	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.37		ug/Kg		88	38 - 145
Perfluorooctanesulfonamide	25.0	23.31		ug/Kg		93	47 - 149
Perfluorohexadecanoic acid	25.0	19.29		ug/Kg		77	38 - 147
Perfluorooctadecanoic acid	25.0	21.82		ug/Kg		87	16 - 160
Perfluorobutanoic acid	25.0	20.91		ug/Kg		84	60 - 128
Perfluoropentanoic acid	25.0	21.11		ug/Kg		84	58 - 134
NMeFOSE	25.0	22.45		ug/Kg		90	60 - 130
NMeFOSA	25.0	21.08		ug/Kg		84	60 - 129
NEtFOSE	25.0	24.56		ug/Kg		98	60 - 126
NEtFOSA	25.0	23.49		ug/Kg		94	60 - 123
HFPODA	25.0	22.74		ug/Kg		91	49 - 135
DONA	23.6	22.98		ug/Kg		97	57 - 137
9Cl-PF3ONS	23.3	23.52		ug/Kg		101	62 - 130
11Cl-PF3OUdS	23.3	23.24		ug/Kg		100	55 - 135
Perfluorododecanoic acid	25.0	22.12		ug/Kg		88	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	22.85		ug/Kg		98	58 - 131
Perfluoroundecanoic acid	25.0	23.22		ug/Kg		93	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.75		ug/Kg		88	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	24.71		ug/Kg		103	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*87*		*10 - 200*
M2-8:2 FTS	*83*		*15 - 200*
M2-6:2 FTS	*91*		*10 - 200*
13C5 PFHxA	*91*		*10 - 174*
13C4 PFHpA	*91*		*10 - 178*
13C8 PFOA	*92*		*26 - 159*
13C9 PFNA	*95*		*26 - 165*
13C6 PFDA	*91*		*26 - 161*
13C7 PFUnA	*90*		*12 - 173*
13C2-PFDoDA	*91*		*11 - 166*
13C2 PFTeDA	*98*		*10 - 169*
13C3 PFBS	*90*		*27 - 179*
13C3 PFHxS	*94*		*24 - 171*
13C8 PFOS	*92*		*41 - 154*
d3-NMeFOSAA	*71*		*10 - 178*
d5-NEtFOSAA	*75*		*10 - 193*
13C8 FOSA	*76*		*14 - 163*
13C4 PFBA	*85*		*28 - 153*
13C5 PFPeA	*88*		*24 - 161*
d7-N-MeFOSE-M	*74*		*10 - 179*
d3-NMePFOSA	*76*		*10 - 175*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	69		10 - 185
d5-NEtPFOSA	72		10 - 180
13C3 HFPO-DA	86		10 - 169

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-351673/1-A
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Arsenic	ND		3.00	1.40	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Barium	ND		0.500	0.150	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Beryllium	ND		0.500	0.100	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Cadmium	ND		0.500	0.100	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Chromium	ND		1.50	0.350	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Lead	ND		1.50	0.600	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Nickel	ND		1.00	0.260	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Selenium	ND		5.00	1.50	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Thallium	ND		3.00	1.30	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Vanadium	ND		1.00	0.430	mg/Kg		03/09/23 00:11	03/13/23 18:22	1
Zinc	ND		2.00	0.800	mg/Kg		03/09/23 00:11	03/13/23 18:22	1

Lab Sample ID: LCS 410-351673/2-A
Matrix: Solid
Analysis Batch: 353155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.04		mg/Kg		100	80 - 120
Arsenic	50.0	50.98		mg/Kg		102	80 - 120
Barium	50.0	49.92		mg/Kg		100	80 - 120
Beryllium	5.00	5.070		mg/Kg		101	80 - 120
Cadmium	5.00	5.003		mg/Kg		100	80 - 120
Chromium	50.0	51.26		mg/Kg		103	80 - 120
Lead	5.00	5.469		mg/Kg		109	80 - 120
Nickel	50.0	50.64		mg/Kg		101	80 - 120
Selenium	10.0	10.29		mg/Kg		103	80 - 120
Silver	5.00	5.340	^3+	mg/Kg		107	80 - 120
Thallium	10.0	10.29		mg/Kg		103	80 - 120
Vanadium	50.0	49.36		mg/Kg		99	80 - 120
Zinc	50.0	49.11		mg/Kg		98	80 - 120

Lab Sample ID: MB 410-351683/1-A
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/09/23 03:44	03/10/23 15:56	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351683/1-A
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351683

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.00	1.40	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Barium	ND		0.500	0.150	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Beryllium	ND		0.500	0.100	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Cadmium	ND		0.500	0.100	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Chromium	ND		1.50	0.350	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Lead	ND		1.50	0.600	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Nickel	ND		1.00	0.260	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Selenium	ND		5.00	1.50	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Thallium	ND	^3+	3.00	1.30	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Vanadium	ND		1.00	0.430	mg/Kg		03/09/23 03:44	03/10/23 15:56	1
Zinc	ND		2.00	0.800	mg/Kg		03/09/23 03:44	03/10/23 15:56	1

Lab Sample ID: LCS 410-351683/2-A
Matrix: Solid
Analysis Batch: 352502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.33		mg/Kg		103	80 - 120
Arsenic	50.0	44.66		mg/Kg		89	80 - 120
Barium	50.0	48.90		mg/Kg		98	80 - 120
Beryllium	5.00	4.748		mg/Kg		95	80 - 120
Cadmium	5.00	5.084		mg/Kg		102	80 - 120
Chromium	50.0	50.71		mg/Kg		101	80 - 120
Lead	5.00	4.777		mg/Kg		96	80 - 120
Nickel	50.0	49.17		mg/Kg		98	80 - 120
Selenium	10.0	9.318		mg/Kg		93	80 - 120
Silver	5.00	5.389	^3+	mg/Kg		108	80 - 120
Vanadium	50.0	48.63		mg/Kg		97	80 - 120
Zinc	50.0	46.96		mg/Kg		94	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-351676/1-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351676

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/09/23 00:35	03/09/23 07:49	1

Lab Sample ID: LCS 410-351676/2-A
Matrix: Solid
Analysis Batch: 352229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1124		mg/Kg		112	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-351677/1-A
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/09/23 23:15	03/10/23 10:46	1

Lab Sample ID: LCS 410-351677/2-A
Matrix: Solid
Analysis Batch: 352388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351677

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.100	0.1094		mg/Kg		109	80 - 120		

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10124-1 DU
Matrix: Solid
Analysis Batch: 20312

Client Sample ID: 2023-MW-03-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	11.3			12.1	F3	%				6	5
Percent Solids	88.7			87.9		%				0.8	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

GC/MS VOA

Pre Prep Batch: 20309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	Frozen Preserve	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	Frozen Preserve	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	Frozen Preserve	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	Frozen Preserve	
620-10124-6	Trip Blank-07	Total/NA	Solid	Frozen Preserve	

Analysis Batch: 20544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	8260C	20572
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	8260C	20572
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	8260C	20572
620-10124-6	Trip Blank-07	Total/NA	Solid	8260C	20572
MB 620-20572/3-A	Method Blank	Total/NA	Solid	8260C	20572
LCS 620-20572/1-A	Lab Control Sample	Total/NA	Solid	8260C	20572
LCSD 620-20572/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20572

Prep Batch: 20572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	5035	20309
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	5035	20309
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	5035	20309
620-10124-6	Trip Blank-07	Total/NA	Solid	5035	20309
MB 620-20572/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20572/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20572/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 20595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-3 - ME	2023-MW-03-0406'	Total/NA	Solid	5035	
MB 620-20595/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20595/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20595/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-3 - ME	2023-MW-03-0406'	Total/NA	Solid	8260C	20595
MB 620-20595/3-A	Method Blank	Total/NA	Solid	8260C	20595
LCS 620-20595/1-A	Lab Control Sample	Total/NA	Solid	8260C	20595
LCSD 620-20595/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20595

Prep Batch: 20616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	5035	20309
MB 620-20616/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20616/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20616/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS VOA

Analysis Batch: 20617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	8260C	20616
MB 620-20616/3-A	Method Blank	Total/NA	Solid	8260C	20616
LCS 620-20616/1-A	Lab Control Sample	Total/NA	Solid	8260C	20616
LCSD 620-20616/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20616

Prep Batch: 20675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20675/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20675/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20675/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20675/3-A	Method Blank	Total/NA	Solid	8260C	20675
LCS 620-20675/1-A	Lab Control Sample	Total/NA	Solid	8260C	20675
LCSD 620-20675/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20675

GC/MS Semi VOA

Prep Batch: 20546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	3546	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	3546	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	3546	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	3546	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	3546	
MB 620-20546/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20546/1-A	Method Blank	Total/NA	Solid	8270D	20546
LCS 620-20546/2-A	Lab Control Sample	Total/NA	Solid	8270D	20546
LCSD 620-20546/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20546

Analysis Batch: 20626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	8270D	20546
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	8270D	20546
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	8270D	20546
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	8270D	20546
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	8270D	20546

GC VOA

Prep Batch: 660942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	5035A_H	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	5035A_H	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	5035A_H	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 660942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	5035A_H	
MB 480-660942/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 660951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	MAVPH	660942
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	MAVPH	660942
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	MAVPH	660942
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	MAVPH	660942
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	MAVPH	660942
MB 480-660942/1-A	Method Blank	Total/NA	Solid	MAVPH	660942
LCS 480-660942/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660942
LCSD 480-660942/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660942

Analysis Batch: 661299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	MA VPH SUM	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	MA VPH SUM	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	MA VPH SUM	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	MA VPH SUM	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	MA VPH SUM	

GC Semi VOA

Prep Batch: 20416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	3540C	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	3540C	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	3540C	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	3540C	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	3540C	
MB 620-20416/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	8082	20416
MB 620-20416/1-A	Method Blank	Total/NA	Solid	8082	20416
LCS 620-20416/2-A	Lab Control Sample	Total/NA	Solid	8082	20416
LCSD 620-20416/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20416

Analysis Batch: 20476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	8082	20416
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	8082	20416
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	8082	20416
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	8082	20416

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

LCMS

Prep Batch: 352779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	537 (mod)	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	537 (mod)	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	537 (mod)	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	537 (mod)	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	537 (mod)	
MB 410-352779/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 352924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	Extract Aliquot	352779
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	Extract Aliquot	352779
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	Extract Aliquot	352779
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	Extract Aliquot	352779
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	Extract Aliquot	352779
MB 410-352779/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	352779
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	352779

Analysis Batch: 356249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	EPA 537 (Mod)	352924
MB 410-352779/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	352924
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	352924

Metals

Prep Batch: 351673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	3050B	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	3050B	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	3050B	
MB 410-351673/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351673/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	7471A	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	7471A	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	7471A	
MB 410-351676/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351676/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 351677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	7471A	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	7471A	
MB 410-351677/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 351677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-351677/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 351683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	3050B	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	3050B	
MB 410-351683/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351683/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 352229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	7471B	351676
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	7471B	351676
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	7471B	351676
MB 410-351676/1-A	Method Blank	Total/NA	Solid	7471B	351676
LCS 410-351676/2-A	Lab Control Sample	Total/NA	Solid	7471B	351676

Analysis Batch: 352388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	7471B	351677
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	7471B	351677
MB 410-351677/1-A	Method Blank	Total/NA	Solid	7471B	351677
LCS 410-351677/2-A	Lab Control Sample	Total/NA	Solid	7471B	351677

Analysis Batch: 352502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	6010D	351683
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	6010D	351683
MB 410-351683/1-A	Method Blank	Total/NA	Solid	6010D	351683
LCS 410-351683/2-A	Lab Control Sample	Total/NA	Solid	6010D	351683

Analysis Batch: 353155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	6010D	351673
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	6010D	351673
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	6010D	351673
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	6010D	351673
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	6010D	351683
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	6010D	351683
MB 410-351673/1-A	Method Blank	Total/NA	Solid	6010D	351673
LCS 410-351673/2-A	Lab Control Sample	Total/NA	Solid	6010D	351673

General Chemistry

Analysis Batch: 20312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1	2023-MW-03-0002'	Total/NA	Solid	Moisture	
620-10124-2	2023-MW-03-0204'	Total/NA	Solid	Moisture	
620-10124-3	2023-MW-03-0406'	Total/NA	Solid	Moisture	
620-10124-4	2023-MW-03-0608'	Total/NA	Solid	Moisture	
620-10124-5	2023-MW-03-0810'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10124-1 DU	2023-MW-03-0002'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0002' Lab Sample ID: 620-10124-1
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0002' Lab Sample ID: 620-10124-1
Date Collected: 03/03/23 14:20 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 88.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20616	CLR	EET NE	03/16/23 16:25
Total/NA	Analysis	8260C		1	20617	CLR	EET NE	03/16/23 22:10
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 19:29
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 18:14
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 19:43
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 15:28
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:28
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:29

Client Sample ID: 2023-MW-03-0204' Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0204' Lab Sample ID: 620-10124-2
Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 18:06
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 19:58
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 18:53

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0204' Lab Sample ID: 620-10124-2

Date Collected: 03/03/23 14:25 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 20:00
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 15:39
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:22
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:31

Client Sample ID: 2023-MW-03-0406' Lab Sample ID: 620-10124-3

Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0406' Lab Sample ID: 620-10124-3

Date Collected: 03/03/23 14:30 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 79.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	ME		20595	CLR	EET NE	03/16/23 13:31
Total/NA	Analysis	8260C	ME	1	20596	CLR	EET NE	03/16/23 13:57
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 20:26
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 19:33
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 20:17
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 15:50
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		1	353155	T8CQ	ELLE	03/13/23 20:15
Total/NA	Prep	3050B			351673	UAMX	ELLE	03/09/23 00:11
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 20:19
Total/NA	Prep	7471A			351676	UAMX	ELLE	03/09/23 00:35
Total/NA	Analysis	7471B		1	352229	S4PD	ELLE	03/09/23 08:27

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0608' Lab Sample ID: 620-10124-4

Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0608' Lab Sample ID: 620-10124-4

Date Collected: 03/03/23 14:35 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 76.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 18:58
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 20:54
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 20:12
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 20:34
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:01
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 16:55
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 21:06
Total/NA	Prep	7471A			351677	UAMX	ELLE	03/09/23 23:15
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 11:28

Client Sample ID: 2023-MW-03-0810' Lab Sample ID: 620-10124-5

Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661299	JLS	EET BUF	03/13/23 11:05
Total/NA	Analysis	Moisture		1	20312	DWC	EET NE	03/07/23 09:01

Client Sample ID: 2023-MW-03-0810' Lab Sample ID: 620-10124-5

Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 19:24
Total/NA	Prep	3546			20546	PRB	EET NE	03/15/23 09:29
Total/NA	Analysis	8270D		1	20626	JS	EET NE	03/17/23 21:22

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-0810' Lab Sample ID: 620-10124-5

Date Collected: 03/03/23 14:40 **Matrix: Solid**
Date Received: 03/06/23 14:47 **Percent Solids: 77.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660942	JLS	EET BUF	03/09/23 07:17
Total/NA	Analysis	MAVPH		1	660951	JLS	EET BUF	03/09/23 20:51
Total/NA	Prep	3540C			20416	BMS	EET NE	03/09/23 15:30
Total/NA	Analysis	8082		1	20438	SFL	EET NE	03/11/23 07:24
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:12
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		1	352502	T8CQ	ELLE	03/10/23 16:52
Total/NA	Prep	3050B			351683	UAMX	ELLE	03/09/23 03:44
Total/NA	Analysis	6010D		10	353155	T8CQ	ELLE	03/13/23 21:03
Total/NA	Prep	7471A			351677	UAMX	ELLE	03/09/23 23:15
Total/NA	Analysis	7471B		1	352388	S4PD	ELLE	03/10/23 11:24

Client Sample ID: Trip Blank-07 Lab Sample ID: 620-10124-6

Date Collected: 03/03/23 00:00 **Matrix: Solid**
Date Received: 03/06/23 14:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20309	KFS	EET NE	03/03/23 17:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 14:17

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10124-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10124-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10124-1	2023-MW-03-0002'	Solid	03/03/23 14:20	03/06/23 14:47
620-10124-2	2023-MW-03-0204'	Solid	03/03/23 14:25	03/06/23 14:47
620-10124-3	2023-MW-03-0406'	Solid	03/03/23 14:30	03/06/23 14:47
620-10124-4	2023-MW-03-0608'	Solid	03/03/23 14:35	03/06/23 14:47
620-10124-5	2023-MW-03-0810'	Solid	03/03/23 14:40	03/06/23 14:47
620-10124-6	Trip Blank-07	Solid	03/03/23 00:00	03/06/23 14:47

10124

Chain of Custody Record

623638

eurofins | Environment Testing America

620-10124 Chain of Custody

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TAL-8210

Client Contact	Project Manager: Denis McGrath	Site Contact:	Date:	COC No
Company Name Nobis Group	Tel/Email: dmcgrath@nobis-group.com	Lab Contact:	Carrier:	____ of ____ COCs
Address 585 Middlesex St	Analysis Turnaround Time			Sampler: BF+KM
City/State/Zip Lowell, MA 01851	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 978-399-9651	TAT if different from Below Stnd.			Walk-in Client:
Fax	☐ 2 weeks			Lab Sampling
Project Name American Tissue Mill	☐ 1 week			
Site Templeton, MA	☐ 2 days			Job / SDG No
P O # 500001.002	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs 8260	SVOCs 8270	VPH MassDEP	PCBs 8082(soxhlet)	Metals 6010/6020	PFAS 537	Sample Specific Notes
01	2023-MW-03-0002'	3/3/23	14:20	G	S	7			✓	✓	✓	✓	✓	✓	
02	2023-MW-03-0204'	↓	14:25	↓	↓	7			✓	✓	✓	✓	✓	✓	
03	2023-MW-03-0406'	↓	14:30	↓	↓	7			✓	✓	✓	✓	✓	✓	
04	2023-MW-03-0608'	↓	14:35	↓	↓	7			✓	✓	✓	✓	✓	✓	
05	2023-MW-03-0810'	↓	14:40	↓	↓	7			✓	✓	✓	✓	✓	✓	
06	TRIP BLANK - 07	↓	—	↓	↓	3			✓						
									6		6				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other MEOH

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Equis EDD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd ____ Corr'd ____ Therm ID No ____

Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time
[signature]	Nobis	3/6/22 12:30	[signature]	EM	3/6/23 12:30
[signature]	EM	3/6/23 14:47	[signature]	GNG	3/6/23 14:47
[signature]			Received in Laboratory by:		

1.4 +0.2 1.6 #6

3/23/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8537.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10124-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/15/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-03-0002' (620-10124-1)	3/3/23	14:20 Eastern		Solid			X	X	X	2	
2023-MW-03-0204' (620-10124-2)	3/3/23	14:25 Eastern		Solid			X	X	X	2	
2023-MW-03-0406' (620-10124-3)	3/3/23	14:30 Eastern		Solid			X	X	X	2	
2023-MW-03-0608' (620-10124-4)	3/3/23	14:35 Eastern		Solid			X	X	X	2	
2023-MW-03-0810' (620-10124-5)	3/3/23	14:40 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/6/23 15:48	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/7/23 0955	Company ELAT

Custody Seals Intact: ○ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2

mb

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8538.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10124-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/15/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
2023-MW-03-0002' (620-10124-1)	3/3/23	14:20 Eastern		Solid			X	X	1	
2023-MW-03-0204' (620-10124-2)	3/3/23	14:25 Eastern		Solid			X	X	1	
2023-MW-03-0406' (620-10124-3)	3/3/23	14:30 Eastern		Solid			X	X	1	
2023-MW-03-0608' (620-10124-4)	3/3/23	14:35 Eastern		Solid			X	X	1	
2023-MW-03-0810' (620-10124-5)	3/3/23	14:40 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/4/23 16:40	ENE	Fedex		
2				[signature]	3-7-23 1000	TAB
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10124-1

Login Number: 10124
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10124-1

Login Number: 10124
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/07/23 11:21 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3 ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10124-1

Login Number: 10124
List Number: 3
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/07/23 04:24 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10051-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

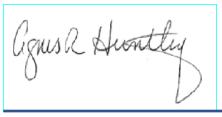
my EOL

Eurofins New England

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10051-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10051-1 through 620-10051-39

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes ☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/22/2023

Job ID: 620-10051-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10051-1

Comments
No additional comments.

Receipt
The samples were received on 3/1/2023 4:29 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2º C.

Receipt Exceptions
The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): 2023-SB-16-0002' (620-10051-11).
The laboratory received 2 total containers, while the COC lists 1 total containers.

The laboratory did not receive methanol vials for the 3 trip blanks:
Trip Blank-01 (620-10051-24), Trip Blank-02 (620-10051-31) and Trip Blank-03 (620-10051-39)

One or more containers for the following sample was received empty: 2023-MW-02-0608' (620-10051-8).

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 2023-MW-01-0406' (620-10051-1), 2023-MW-01-0406' (620-10051-1[MS]), 2023-MW-01-0406' (620-10051-1[MSD]), 2023-MW-01-0608' (620-10051-2), 2023-MW-01-0810' (620-10051-3), 2023-MW-01-1012' (620-10051-4), 2023-MW-02-0002' (620-10051-5), 2023-MW-02-0204' (620-10051-6), 2023-MW-02-0406' (620-10051-7), 2023-MW-02-0608' (620-10051-8), 2023-MW-02-0810' (620-10051-9) and 2023-MW-02-1012' (620-10051-10). Client was contacted and instructed the laboratory to analyze using the methanol vial.

GC/MS VOA
Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20238 and analytical batch 620-20239 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike duplicate (MSD) recoveries for preparation batch 620-20240 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20323 exhibited % difference of > 20% for the following analyte: Naphthalene; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20322 and analytical batch 620-20323 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 620-20322 and analytical batch 620-20323 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20240 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Job ID: 620-10051-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: (620-10080-C-1-D). The sample(s) shows evidence of matrix interference.

Method 8260C: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 620-20198 and 620-20327 and analytical batch 620-20328 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 620-20198 and 620-20295 and analytical batch 620-20296 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20349/4) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 2,4-Dinitrophenol, Benzidine, Bis(2-ethylhexyl) phthalate, Carbazole, Di-n-butyl phthalate, Di-n-octyl phthalate and Pentachloronitrobenzene.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20241 and analytical batch 620-20349 recovered outside control limits for the following analyte: Benzidine. MCP allows for <10% of analytes to fall outside of control limits. The affected target analyte recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compound was not detected in the samples, the data have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20241 and analytical batch 620-20349 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 2023-MW-01-0406' (620-10051-1[MS]), 2023-MW-01-0406' (620-10051-1[MSD]), 2023-SB-16-1012' (620-10051-16) and 2023-SB-15-0002' (620-10051-17[MSD]). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20349 recovered above the upper control limit for Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate. The following samples had detections above the reporting limit for these analytes: 2023-SB-15-0002' (620-10051-17). The results are considered bias high.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20386/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, Benzidine, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachlorobutadiene and Pentachloronitrobenzene.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20442/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 4,6-Dinitro-2-methylphenol, Benzidine, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachlorobutadiene and Pentachloronitrobenzene.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20399 and analytical batch 620-20442 recovered outside control limits for the following analytes: Benzidine. The individual percent recoveries are within acceptance criteria.

Job ID: 620-10051-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20495/2) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Pentachloronitrobenzene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-660379 and analytical batch 480-660382 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The following Trap and Gas Chromatographic column was used for the analysis of MAVPH for the affected samples: 2023-MW-01-0406' (620-10051-1), 2023-MW-01-0406' (620-10051-1[MS]), 2023-MW-01-0406' (620-10051-1[MSD]), 2023-MW-01-0608' (620-10051-2), 2023-MW-01-0810' (620-10051-3), 2023-MW-01-1012' (620-10051-4), 2023-MW-02-0002' (620-10051-5), 2023-MW-02-0204' (620-10051-6), 2023-MW-02-0406' (620-10051-7), 2023-MW-02-0608' (620-10051-8), 2023-MW-02-0810' (620-10051-9), 2023-MW-02-1012' (620-10051-10), 2023-SB-16-0002' (620-10051-11), 2023-SB-16-0204' (620-10051-12), 2023-SB-16-0406' (620-10051-13), 2023-SB-16-0608' (620-10051-14), 2023-SB-16-0810' (620-10051-15), 2023-SB-16-1012' (620-10051-16), 2023-SB-15-0002' (620-10051-17), 2023-SB-15-0002' (620-10051-17[MS]), 2023-SB-15-0002' (620-10051-17[MSD]), 2023-SB-15-0204' (620-10051-18), 2023-SB-15-0406' (620-10051-19), 2023-SB-15-0608' (620-10051-20), 2023-SB-15-0810' (620-10051-21), 2023-SB-15-1012' (620-10051-22), 2023-FD-03 (620-10051-23), 2023-SB-14-0002' (620-10051-25), 2023-SB-14-0204' (620-10051-26), 2023-SB-14-0406' (620-10051-27), 2023-SB-14-0608' (620-10051-28), 2023-SB-14-0810' (620-10051-29), 2023-SB-14-1012' (620-10051-30), 2023-SB-13-0002' (620-10051-32), 2023-SB-13-0204' (620-10051-33), 2023-FD-04 (620-10051-34), 2023-SB-13-0406' (620-10051-35), 2023-SB-13-0608' (620-10051-36), 2023-SB-13-0810' (620-10051-37) and 2023-SB-13-1012' (620-10051-38)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20226 and analytical batch 620-20249 were outside control limits for PCB-1260. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) and laboratory control sample duplicate recovery was within acceptance limits.

Method 8082: The following sample required a dilution due to the nature of the sample matrix: 2023-SB-13-0002' (620-10051-32). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-01-0406' (620-10051-1), 2023-MW-02-0406' (620-10051-7), 2023-MW-02-1012' (620-10051-10), 2023-SB-16-0002' (620-10051-11) and 2023-SB-14-0608' (620-10051-28). Elevated reporting limits (RLs) are provided.

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-MW-01-0810' (620-10051-3), 2023-MW-02-0002' (620-10051-5), 2023-MW-02-0204' (620-10051-6), 2023-SB-16-0810' (620-10051-15) and 2023-SB-13-0608' (620-10051-36). Elevated reporting limits (RLs) are provided.

Method 6010: The following samples were diluted due to the nature of the sample matrix: 2023-SB-16-1012' (620-10051-16), 2023-FD-03 (620-10051-23), 2023-SB-14-0204' (620-10051-26), 2023-SB-13-0204' (620-10051-33), 2023-FD-04 (620-10051-34), 2023-SB-13-0406' (620-10051-35), 2023-SB-13-0810' (620-10051-37) and 2023-SB-13-1012' (620-10051-38). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method 537 (modified): The recovery for the labeled isotope: d3-NMeFOSAA in the following sample: 2023-MW-02-0608' (620-10051-8)

Job ID: 620-10051-1 (Continued)

Laboratory: Eurofins New England (Continued)

and 2023-SB-16-0002' (620-10051-11) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s) is again outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope: d3-NMeFOSAA and d5-NEtFOSAA in the following sample: 2023-MW-02-0810' (620-10051-9), 2023-SB-13-0002' (620-10051-32), 2023-SB-13-0204' (620-10051-33), 2023-FD-04 (620-10051-34) and 2023-SB-13-0406' (620-10051-35) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted within the required holding time and the recovery for the labeled isotope(s) is again outside the QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-20201 was outside control limits for percent moisture. Sample matrix interference and/or non-homogeneity are suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0406' — Lab Sample ID: 620-10051-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,6-Dinitro-2-methylphenol	0.341	J F1	0.767	0.138	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0915	J	0.155	0.0872	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.123	J	0.155	0.111	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.106	J	0.155	0.0877	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0928	J	0.155	0.0909	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0968	J	0.155	0.0879	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.213		0.155	0.0856	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.101	B	0.0810	0.0551	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0540		0.0225	0.0175	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.29	J	2.40	1.12	mg/Kg	1	☼	6010D	Total/NA
Barium	17.5		0.400	0.120	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.349	J	0.400	0.0801	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.44		1.20	0.280	mg/Kg	1	☼	6010D	Total/NA
Lead	3.58		1.20	0.480	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.97		0.801	0.208	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.35		0.801	0.344	mg/Kg	1	☼	6010D	Total/NA
Zinc	29.9	^5-	1.60	0.641	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-0608' — Lab Sample ID: 620-10051-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.392	J	0.510	0.0643	mg/Kg	1	☼	8260C	Total/NA
Pentachlorophenol	0.203	J B	0.393	0.161	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0424	J B	0.0553	0.0376	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	1.69	J	2.49	1.16	mg/Kg	1	☼	6010D	Total/NA
Barium	14.3		0.415	0.124	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.191	J	0.415	0.0829	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.87		1.24	0.290	mg/Kg	1	☼	6010D	Total/NA
Lead	2.50		1.24	0.498	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.19		0.829	0.216	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.80		0.829	0.357	mg/Kg	1	☼	6010D	Total/NA
Zinc	33.3		1.66	0.663	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-0810' — Lab Sample ID: 620-10051-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.121	J	0.476	0.0600	mg/Kg	1	☼	8260C	Total/NA
Arsenic	2.13	J	3.33	1.55	mg/Kg	1	☼	6010D	Total/NA
Barium	25.0		0.554	0.166	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.296	J	0.554	0.111	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.75		1.66	0.388	mg/Kg	1	☼	6010D	Total/NA
Lead	2.51		1.66	0.665	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.28		1.11	0.288	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.72		1.11	0.477	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.8		2.22	0.887	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-1012' — Lab Sample ID: 620-10051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0913	J	0.463	0.0583	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.0199	J	0.0233	0.0181	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.48	J	2.76	1.29	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-01-1012' (Continued)
Lab Sample ID: 620-10051-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	14.8		0.460	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.185	J	0.460	0.0920	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.48		1.38	0.322	mg/Kg	1	☼	6010D	Total/NA
Lead	1.80		1.38	0.552	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.53		0.920	0.239	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.11		0.920	0.395	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.1	^5-	1.84	0.736	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0002'
Lab Sample ID: 620-10051-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.0827	J	0.136	0.0768	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.187		0.136	0.0797	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.167		0.136	0.0770	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.203		0.136	0.0750	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0309		0.0205	0.0159	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.0144	J	0.0205	0.00440	mg/Kg	1	☼	8082	Total/NA
Arsenic	4.78		2.86	1.33	mg/Kg	1	☼	6010D	Total/NA
Barium	39.3		0.476	0.143	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.397	J	0.476	0.0952	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.0		1.43	0.333	mg/Kg	1	☼	6010D	Total/NA
Lead	6.28		1.43	0.571	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.07		0.952	0.248	mg/Kg	1	☼	6010D	Total/NA
Vanadium	19.3		0.952	0.410	mg/Kg	1	☼	6010D	Total/NA
Zinc	22.7		1.90	0.762	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0204'
Lab Sample ID: 620-10051-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0514	J	0.0779	0.0438	mg/Kg	1	☼	8270D	Total/NA
Benzoic acid	1.20		0.385	0.265	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0577	J	0.0779	0.0440	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.133		0.0779	0.0456	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0723	J	0.0779	0.0441	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.171		0.0779	0.0430	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0711	J B	0.0778	0.0529	mg/Kg	1	☼	MAVPH	Total/NA
Perfluorohexadecanoic acid	0.299	J	0.671	0.224	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Perfluorooctadecanoic acid	0.386	J	0.671	0.224	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	3.12		2.69	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	20.9		0.449	0.135	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.451		0.449	0.0898	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.41		1.35	0.314	mg/Kg	1	☼	6010D	Total/NA
Lead	7.54		1.35	0.539	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.77		0.898	0.234	mg/Kg	1	☼	6010D	Total/NA
Vanadium	13.4		0.898	0.386	mg/Kg	1	☼	6010D	Total/NA
Zinc	16.3		1.80	0.719	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0408	J	0.0711	0.0237	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-02-0406'
Lab Sample ID: 620-10051-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.216	J	0.653	0.0823	mg/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-02-0406' (Continued)
Lab Sample ID: 620-10051-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0884	J	0.131	0.0299	mg/Kg	1	☼	8260C	Total/NA
C9-C12 Aliphatics (adjusted)	3.44		0.717	0.307	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	1.37	B	0.143	0.0975	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	3.90		0.717	0.100	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	7.34		0.717	0.307	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	3.48		2.83	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	21.3		0.472	0.142	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.357	J	0.472	0.0944	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.88		1.42	0.330	mg/Kg	1	☼	6010D	Total/NA
Lead	4.14		1.42	0.566	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.44		0.944	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.9		0.944	0.406	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.1	^5-	1.89	0.755	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0608'
Lab Sample ID: 620-10051-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.21	J	2.69	1.25	mg/Kg	1	☼	6010D	Total/NA
Barium	11.9		0.448	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.244	J	0.448	0.0895	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.17		1.34	0.313	mg/Kg	1	☼	6010D	Total/NA
Lead	2.80		1.34	0.537	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.95		0.895	0.233	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.17		0.895	0.385	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.08	^5-	1.79	0.716	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-0810'
Lab Sample ID: 620-10051-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.61	J	2.85	1.33	mg/Kg	1	☼	6010D	Total/NA
Barium	13.6		0.474	0.142	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.242	J	0.474	0.0949	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.15		1.42	0.332	mg/Kg	1	☼	6010D	Total/NA
Lead	2.09		1.42	0.569	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.71		0.949	0.247	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.91		0.949	0.408	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.71	^5-	1.90	0.759	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-02-1012'
Lab Sample ID: 620-10051-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0743	B	0.0688	0.0468	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.0866	J	0.344	0.0482	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.178	J	0.344	0.147	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	2.30	J	3.32	1.55	mg/Kg	1	☼	6010D	Total/NA
Barium	24.8		0.553	0.166	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.294	J	0.553	0.111	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.05		1.66	0.387	mg/Kg	1	☼	6010D	Total/NA
Lead	3.21		1.66	0.664	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.37		1.11	0.288	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.15		1.11	0.476	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.9	^5-	2.21	0.885	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'

Lab Sample ID: 620-10051-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	1.11		0.349	0.0888	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.212		0.0212	0.0165	mg/Kg	1	☼	8082	Total/NA
Perfluorohexanoic acid	0.710		0.615	0.205	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	2.54	J	3.08	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.513	0.154	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.239	J	0.513	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.84		1.54	0.359	mg/Kg	1	☼	6010D	Total/NA
Lead	2.92		1.54	0.615	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.77		1.03	0.267	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.15		1.03	0.441	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.39	^5-	2.05	0.821	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-0204'

Lab Sample ID: 620-10051-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.332		0.182	0.0462	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0363		0.0220	0.0171	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.93	J	5.39	2.52	mg/Kg	1	☼	6010D	Total/NA
Barium	17.0		0.899	0.270	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.299	J	0.899	0.180	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.20		2.70	0.629	mg/Kg	1	☼	6010D	Total/NA
Lead	2.77		2.70	1.08	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.53		1.80	0.467	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.87		1.80	0.773	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.79	^5-	3.59	1.44	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-0406'

Lab Sample ID: 620-10051-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0277		0.0219	0.0170	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.43		2.82	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	14.2		0.471	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.224	J	0.471	0.0941	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.13		1.41	0.329	mg/Kg	1	☼	6010D	Total/NA
Lead	2.45		1.41	0.565	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.74		0.941	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.07		0.941	0.405	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.07	^5-	1.88	0.753	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-0608'

Lab Sample ID: 620-10051-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.85		2.71	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	12.9		0.452	0.136	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.216	J	0.452	0.0905	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.84		1.36	0.317	mg/Kg	1	☼	6010D	Total/NA
Lead	3.46		1.36	0.543	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.40		0.905	0.235	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.29		0.905	0.389	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.84		1.81	0.724	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'

Lab Sample ID: 620-10051-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.66		3.17	1.48	mg/Kg	1	☼	6010D	Total/NA
Barium	95.0		0.529	0.159	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.23		0.529	0.106	mg/Kg	1	☼	6010D	Total/NA
Chromium	26.3		1.59	0.370	mg/Kg	1	☼	6010D	Total/NA
Lead	11.7		1.59	0.634	mg/Kg	1	☼	6010D	Total/NA
Nickel	14.9		1.06	0.275	mg/Kg	1	☼	6010D	Total/NA
Vanadium	43.0		1.06	0.455	mg/Kg	1	☼	6010D	Total/NA
Zinc	58.8		2.11	0.846	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-16-1012'

Lab Sample ID: 620-10051-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	2.23	J	4.57	1.55	mg/Kg	1	☼	6010D	Total/NA
Arsenic	11.2		2.74	1.28	mg/Kg	1	☼	6010D	Total/NA
Barium	120		0.457	0.137	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.52		0.457	0.0913	mg/Kg	1	☼	6010D	Total/NA
Chromium	35.3		1.37	0.320	mg/Kg	1	☼	6010D	Total/NA
Lead	13.9		1.37	0.548	mg/Kg	1	☼	6010D	Total/NA
Nickel	20.8		0.913	0.237	mg/Kg	1	☼	6010D	Total/NA
Vanadium	57.7		0.913	0.393	mg/Kg	1	☼	6010D	Total/NA
Zinc	77.8		1.83	0.731	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0002'

Lab Sample ID: 620-10051-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.0999	J	0.336	0.0856	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0376	J	0.0504	0.0343	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0880		0.0204	0.0159	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.98	J	3.05	1.42	mg/Kg	1	☼	6010D	Total/NA
Barium	12.5		0.509	0.153	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.191	J	0.509	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.82		1.53	0.356	mg/Kg	1	☼	6010D	Total/NA
Lead	2.29		1.53	0.610	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.80		1.02	0.264	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.44		1.02	0.437	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.46		2.03	0.814	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0204'

Lab Sample ID: 620-10051-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.162	J	0.172	0.0438	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0169	J	0.0205	0.0160	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.38	J	2.99	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	17.7		0.498	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.210	J	0.498	0.0996	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.13		1.49	0.349	mg/Kg	1	☼	6010D	Total/NA
Lead	3.10		1.49	0.598	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.45		0.996	0.259	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.10		0.996	0.428	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.08		1.99	0.797	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'

Lab Sample ID: 620-10051-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.09		0.206	0.161	mg/Kg	10	☼	8082	Total/NA
Arsenic	2.74	J	2.99	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	13.3		0.498	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.143	J	0.498	0.0996	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.29		1.49	0.348	mg/Kg	1	☼	6010D	Total/NA
Lead	2.05		1.49	0.597	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.51		0.996	0.259	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.85		0.996	0.428	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.74		1.99	0.797	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0608'

Lab Sample ID: 620-10051-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0534	J	0.0687	0.0467	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	1.98	J	2.95	1.38	mg/Kg	1	☼	6010D	Total/NA
Barium	13.8		0.492	0.148	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.153	J	0.492	0.0985	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.77		1.48	0.345	mg/Kg	1	☼	6010D	Total/NA
Lead	1.87		1.48	0.591	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.50		0.985	0.256	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.30		0.985	0.423	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.34		1.97	0.788	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-0810'

Lab Sample ID: 620-10051-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	1.36		0.370	0.254	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0818		0.0185	0.0144	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.06	J	2.58	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	11.3		0.431	0.129	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.179	J	0.431	0.0861	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.53		1.29	0.302	mg/Kg	1	☼	6010D	Total/NA
Lead	1.90		1.29	0.517	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.54		0.861	0.224	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.39		0.861	0.370	mg/Kg	1	☼	6010D	Total/NA
Zinc	5.63	^5-	1.72	0.689	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-15-1012'

Lab Sample ID: 620-10051-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00518	J	0.0106	0.00283	mg/Kg	1	☼	8260C	Total/NA
Bis(2-ethylhexyl) phthalate	0.170	J	0.199	0.0506	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0321		0.0228	0.0177	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.74	J	3.10	1.45	mg/Kg	1	☼	6010D	Total/NA
Barium	14.7		0.516	0.155	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.189	J	0.516	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.25		1.55	0.361	mg/Kg	1	☼	6010D	Total/NA
Lead	2.45		1.55	0.620	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.57		1.03	0.269	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.91		1.03	0.444	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.28		2.07	0.826	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03 — Lab Sample ID: 620-10051-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.405		0.183	0.0466	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0332		0.0216	0.0168	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.47		3.00	1.40	mg/Kg	1	☼	6010D	Total/NA
Barium	16.2		0.500	0.150	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.261	J	0.500	0.100	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.23		1.50	0.350	mg/Kg	1	☼	6010D	Total/NA
Lead	2.75		1.50	0.600	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.13		1.00	0.260	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.78		1.00	0.430	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.24		2.00	0.800	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-01 — Lab Sample ID: 620-10051-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00377	J	0.0100	0.00268	mg/Kg	1		8260C	Total/NA

Client Sample ID: 2023-SB-14-0002' — Lab Sample ID: 620-10051-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.0974	J	0.175	0.0444	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.114	J	0.155	0.105	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.137		0.0210	0.0163	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.29	J	2.55	1.19	mg/Kg	1	☼	6010D	Total/NA
Barium	13.6		0.426	0.128	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.273	J	0.426	0.0851	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.11		1.28	0.298	mg/Kg	1	☼	6010D	Total/NA
Lead	2.79		1.28	0.511	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.15		0.851	0.221	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.10		0.851	0.366	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.0		1.70	0.681	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0204' — Lab Sample ID: 620-10051-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.68	J	2.95	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	15.1		0.491	0.147	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.191	J	0.491	0.0982	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.14		1.47	0.344	mg/Kg	1	☼	6010D	Total/NA
Lead	1.85		1.47	0.589	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.982	0.255	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.30		0.982	0.422	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.29		1.96	0.785	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0406' — Lab Sample ID: 620-10051-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.39	J	2.10	0.980	mg/Kg	1	☼	6010D	Total/NA
Barium	9.33		0.350	0.105	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.141	J	0.350	0.0700	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.73		1.05	0.245	mg/Kg	1	☼	6010D	Total/NA
Lead	1.64		1.05	0.420	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.68		0.700	0.182	mg/Kg	1	☼	6010D	Total/NA
Vanadium	3.52		0.700	0.301	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-14-0406' (Continued) — Lab Sample ID: 620-10051-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	4.81		1.40	0.560	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0608' — Lab Sample ID: 620-10051-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0829		0.0205	0.0159	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.21		2.15	1.00	mg/Kg	1	☼	6010D	Total/NA
Barium	18.4		0.358	0.107	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.229	J	0.358	0.0716	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.02		1.07	0.251	mg/Kg	1	☼	6010D	Total/NA
Lead	2.22		1.07	0.430	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.45		0.716	0.186	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.44		0.716	0.308	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.9	^5-	1.43	0.573	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-0810' — Lab Sample ID: 620-10051-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.65	J	3.36	1.57	mg/Kg	1	☼	6010D	Total/NA
Barium	16.4		0.561	0.168	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.164	J	0.561	0.112	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.95		1.68	0.392	mg/Kg	1	☼	6010D	Total/NA
Lead	2.22		1.68	0.673	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.68		1.12	0.292	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.96		1.12	0.482	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.71		2.24	0.897	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-14-1012' — Lab Sample ID: 620-10051-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.61	J	2.73	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.455	0.136	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.157	J	0.455	0.0910	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.27		1.36	0.318	mg/Kg	1	☼	6010D	Total/NA
Lead	1.96		1.36	0.546	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.76		0.910	0.237	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.28		0.910	0.391	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.20		1.82	0.728	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-02 — Lab Sample ID: 620-10051-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00476	J	0.0100	0.00268	mg/Kg	1		8260C	Total/NA

Client Sample ID: 2023-SB-13-0002' — Lab Sample ID: 620-10051-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	1.21		0.704	0.185	mg/Kg	1	☼	8270D	Total/NA
Benzidine	1.62	*1	1.41	0.209	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.190		0.142	0.0801	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.130	J	0.142	0.102	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.211		0.142	0.118	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.114	J	0.142	0.111	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-13-0002' (Continued) — Lab Sample ID: 620-10051-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.171		0.142	0.111	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	8.64		1.78	0.454	mg/Kg	5	☼	8270D	Total/NA
Butyl benzyl phthalate	1.53		0.704	0.0707	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.296		0.142	0.0805	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	1.71		0.704	0.0754	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.423		0.142	0.0835	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.160		0.142	0.0807	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.379		0.142	0.0786	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	10.3		0.420	0.327	mg/Kg	20	☼	8082	Total/NA
Arsenic	12.8		2.49	1.16	mg/Kg	1	☼	6010D	Total/NA
Barium	29.4		0.416	0.125	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.201	J	0.416	0.0832	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.55		1.25	0.291	mg/Kg	1	☼	6010D	Total/NA
Lead	9.60		1.25	0.499	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.34		0.832	0.216	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.12		0.832	0.358	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.3		1.66	0.665	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0204' — Lab Sample ID: 620-10051-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0181	J	0.0208	0.0162	mg/Kg	1	☼	8082	Total/NA
Arsenic	4.84		2.86	1.34	mg/Kg	1	☼	6010D	Total/NA
Barium	11.9		0.477	0.143	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.209	J	0.477	0.0955	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.88		1.43	0.334	mg/Kg	1	☼	6010D	Total/NA
Lead	2.64		1.43	0.573	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.17		0.955	0.248	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.54		0.955	0.411	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.04		1.91	0.764	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-04 — Lab Sample ID: 620-10051-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0217		0.0210	0.0163	mg/Kg	1	☼	8082	Total/NA
Arsenic	4.86		2.99	1.40	mg/Kg	1	☼	6010D	Total/NA
Barium	10.9		0.498	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.187	J	0.498	0.0997	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.44		1.49	0.349	mg/Kg	1	☼	6010D	Total/NA
Lead	2.32		1.49	0.598	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.87		0.997	0.259	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.79		0.997	0.429	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.56		1.99	0.797	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0406' — Lab Sample ID: 620-10051-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0182	J	0.0212	0.0165	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.32	J	2.98	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	16.8		0.497	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.308	J	0.497	0.0993	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.20		1.49	0.348	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-13-0406' (Continued) — Lab Sample ID: 620-10051-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.12		1.49	0.596	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.993	0.258	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.57		0.993	0.427	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.1		1.99	0.794	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0608' — Lab Sample ID: 620-10051-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.315	J	0.338	0.0859	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.141		0.0203	0.0158	mg/Kg	1	☼	8082	Total/NA
Arsenic	5.16		2.82	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	22.5		0.470	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.304	J	0.470	0.0940	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.88		1.41	0.329	mg/Kg	1	☼	6010D	Total/NA
Lead	4.23		1.41	0.564	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.08		0.940	0.244	mg/Kg	1	☼	6010D	Total/NA
Vanadium	10.1		0.940	0.404	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.8		1.88	0.752	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-0810' — Lab Sample ID: 620-10051-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.75	J	2.97	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	14.9		0.495	0.148	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.238	J	0.495	0.0990	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.80		1.48	0.346	mg/Kg	1	☼	6010D	Total/NA
Lead	2.88		1.48	0.594	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.68		0.990	0.257	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.38		0.990	0.426	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.8		1.98	0.792	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-13-1012' — Lab Sample ID: 620-10051-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.1		2.57	1.20	mg/Kg	1	☼	6010D	Total/NA
Barium	103		0.428	0.128	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.44		0.428	0.0856	mg/Kg	1	☼	6010D	Total/NA
Chromium	29.1		1.28	0.300	mg/Kg	1	☼	6010D	Total/NA
Lead	12.6		1.28	0.513	mg/Kg	1	☼	6010D	Total/NA
Nickel	15.0		0.856	0.223	mg/Kg	1	☼	6010D	Total/NA
Vanadium	47.9		0.856	0.368	mg/Kg	1	☼	6010D	Total/NA
Zinc	60.6		1.71	0.685	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-03 — Lab Sample ID: 620-10051-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00771	J	0.0100	0.00268	mg/Kg	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0406'
Date Collected: 02/27/23 13:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-1
Matrix: Solid
Percent Solids: 85.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0560	0.0307	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Acetone	ND	F1 F2	0.560	0.0706	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Acrylonitrile	ND		0.0560	0.0202	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Benzene	ND		0.0560	0.00896	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromobenzene	ND		0.0560	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromochloromethane	ND		0.0560	0.00801	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromodichloromethane	ND		0.0560	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromoform	ND		0.0560	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Bromomethane	ND	F1	0.112	0.0277	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2-Butanone (MEK)	ND		0.112	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
n-Butylbenzene	ND		0.0560	0.0224	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
sec-Butylbenzene	ND		0.0560	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
tert-Butylbenzene	ND		0.0560	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Carbon disulfide	ND		0.112	0.0207	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Carbon tetrachloride	ND		0.0560	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chlorobenzene	ND		0.0560	0.00678	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chloroethane	ND	F1	0.112	0.0250	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chloroform	ND		0.0560	0.00661	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Chloromethane	ND		0.112	0.0666	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2-Chlorotoluene	ND		0.0560	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
4-Chlorotoluene	ND		0.0560	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dibromo-3-Chloropropane	ND		0.112	0.0221	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Dibromochloromethane	ND		0.0560	0.00885	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dibromoethane (EDB)	ND		0.0560	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Dibromomethane	ND		0.0560	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dichlorobenzene	ND		0.0560	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3-Dichlorobenzene	ND		0.0560	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,4-Dichlorobenzene	ND		0.0560	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Dichlorodifluoromethane (Freon 12)	ND		0.112	0.0734	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1-Dichloroethane	ND		0.0560	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dichloroethane	ND		0.0560	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1-Dichloroethene	ND		0.0560	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
cis-1,2-Dichloroethene	ND		0.0560	0.0187	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
trans-1,2-Dichloroethene	ND		0.0560	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2-Dichloropropane	ND		0.0560	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3-Dichloropropane	ND		0.0560	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2,2-Dichloropropane	ND		0.0560	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1-Dichloropropene	ND		0.0560	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
cis-1,3-Dichloropropene	ND		0.0560	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
trans-1,3-Dichloropropene	ND		0.0560	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethylbenzene	ND		0.0560	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Hexachlorobutadiene	ND		0.0560	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
2-Hexanone (MBK)	ND		0.112	0.0372	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Isopropylbenzene	ND		0.0560	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
4-Isopropyltoluene	ND		0.0560	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Methyl tert-butyl ether	ND		0.0560	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.112	0.0401	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Methylene Chloride	ND		0.112	0.0478	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Naphthalene	ND		0.0560	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1

Client Sample ID: 2023-MW-01-0406'
Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 85.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0560	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Styrene	ND		0.0560	0.00739	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,1,2-Tetrachloroethane	ND		0.0560	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.0560	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Tetrachloroethene	ND		0.0560	0.0176	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Toluene	ND		0.0560	0.00902	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,3-Trichlorobenzene	ND		0.0560	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,4-Trichlorobenzene	ND		0.0560	0.00924	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3,5-Trichlorobenzene	ND		0.0560	0.00885	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,1-Trichloroethane	ND		0.0560	0.0136	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,1,2-Trichloroethane	ND		0.0560	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Trichloroethene	ND		0.0560	0.00958	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Trichlorofluoromethane (Freon 11)	ND	F1 F2	0.0560	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,3-Trichloropropane	ND		0.0560	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,2,4-Trimethylbenzene	ND		0.0560	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3,5-Trimethylbenzene	ND		0.0560	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Vinyl chloride	ND		0.0560	0.0276	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
m,p-Xylene	ND		0.0560	0.0329	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
o-Xylene	ND		0.0560	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Tetrahydrofuran	ND		0.112	0.0409	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethyl ether	ND		0.0560	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Tert-amyl methyl ether	ND		0.0560	0.0310	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethyl tert-butyl ether	ND		0.0560	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
di-Isopropyl ether	ND		0.0560	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
tert-Butanol	ND	F1	1.12	0.795	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,4-Dioxane	ND		1.12	0.330	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
trans-1,4-Dichloro-2-butene	ND		0.280	0.0370	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Ethanol	ND	F1	11.2	0.963	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
1,3-Dichloropropene, Total	ND		0.0560	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1
Xylenes, Total	ND		0.168	0.168	mg/Kg	☼	03/07/23 12:57	03/07/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 14:48*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.767	0.136	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,2,4-Trichlorobenzene	ND		0.767	0.176	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,2-Dichlorobenzene	ND		0.767	0.148	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,3-Dichlorobenzene	ND		0.767	0.186	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1,4-Dichlorobenzene	ND		0.767	0.181	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
1-Methylnaphthalene	ND		0.155	0.130	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4,5-Trichlorophenol	ND		0.767	0.0879	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4,6-Trichlorophenol	ND		0.388	0.0949	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4-Dichlorophenol	ND		0.388	0.155	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4-Dimethylphenol	ND		0.767	0.113	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,4-Dinitrophenol	ND	F1	0.767	0.202	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0406'
Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 85.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.388	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2,6-Dinitrotoluene	ND		0.388	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Chloronaphthalene	ND		0.767	0.177	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Chlorophenol	ND		0.388	0.159	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Methylnaphthalene	ND		0.155	0.115	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Methylphenol	ND		0.767	0.112	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Nitroaniline	ND		0.767	0.0730	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
2-Nitrophenol	ND		0.388	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
3 & 4 Methylphenol	ND		0.767	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
3,3'-Dichlorobenzidine	ND		0.767	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
3-Nitroaniline	ND		0.767	0.0686	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4,6-Dinitro-2-methylphenol	**0.341**	**J F1**	0.767	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Bromophenyl phenyl ether	ND		0.767	0.0867	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Chloro-3-methylphenol	ND		0.767	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Chloroaniline	ND		0.388	0.0588	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Chlorophenyl phenyl ether	ND		0.767	0.0821	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Nitroaniline	ND		0.388	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
4-Nitrophenol	ND		0.767	0.267	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Acenaphthene	ND		0.155	0.124	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Acenaphthylene	ND		0.155	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Acetophenone	ND		0.388	0.0946	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Aniline	ND		0.767	0.0588	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Anthracene	ND		0.155	0.0898	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Azobenzene/Diphenyldiazene	ND		0.767	0.131	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzidine	ND	*- F1	1.53	0.227	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[a]anthracene	**0.0915**	**J**	0.155	0.0872	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[a]pyrene	**0.123**	**J**	0.155	0.111	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[b]fluoranthene	ND		0.155	0.129	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[g,h,i]perylene	ND		0.155	0.121	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzo[k]fluoranthene	ND		0.155	0.121	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzoic acid	ND	F1	0.767	0.528	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Benzyl alcohol	ND		0.767	0.139	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Bis(2-chloroethoxy)methane	ND		0.767	0.133	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Bis(2-chloroethyl)ether	ND		0.388	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
bis (2-chloroisopropyl) ether	ND		0.388	0.173	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Bis(2-ethylhexyl) phthalate	ND		0.388	0.0988	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Butyl benzyl phthalate	ND		0.767	0.0770	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Carbazole	ND		0.388	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Chrysene	**0.106**	**J**	0.155	0.0877	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Dibenz(a,h)anthracene	ND		0.155	0.118	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Dibenzofuran	ND		0.388	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Diethyl phthalate	ND		0.767	0.0842	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Dimethyl phthalate	ND		0.767	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Di-n-butyl phthalate	ND		0.767	0.0821	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Di-n-octyl phthalate	ND		0.767	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Fluoranthene	**0.0928**	**J**	0.155	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Fluorene	ND		0.155	0.142	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Hexachlorobenzene	ND		0.388	0.108	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Hexachlorobutadiene	ND		0.388	0.194	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1

Client Sample ID: 2023-MW-01-0406' **Lab Sample ID: 620-10051-1**
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND	F2 F1	0.388	0.148	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Hexachloroethane	ND		0.388	0.153	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Indeno[1,2,3-cd]pyrene	ND		0.155	0.132	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Isophorone	ND		0.388	0.106	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Naphthalene	ND		0.155	0.149	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Nitrobenzene	ND		0.388	0.179	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
N-Nitrosodimethylamine	ND		0.388	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
N-Nitrosodi-n-propylamine	ND		0.388	0.155	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
N-Nitrosodiphenylamine	ND		0.767	0.0979	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pentachloronitrobenzene	ND		0.767	0.121	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pentachlorophenol	ND		0.767	0.314	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Phenanthrene	**0.0968**	**J**	0.155	0.0879	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Phenol	ND		0.767	0.158	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pyrene	**0.213**		0.155	0.0856	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1
Pyridine	ND		0.767	0.182	mg/Kg	☼	03/03/23 08:01	03/08/23 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
Nitrobenzene-d5 (Surr)	*53*		*30 - 130*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
Phenol-d5 (Surr)	*74*		*15 - 110*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
2,4,6-Tribromophenol (Surr)	*110*		*15 - 110*	*03/03/23 08:01*	*03/08/23 22:03*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 22:03*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.405	0.207	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.405	0.173	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Ethylbenzene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Methyl tert-butyl ether	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
m,p-Xylene	ND		0.162	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Naphthalene	**0.101**	**B**	0.0810	0.0551	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
o-Xylene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
Toluene	ND		0.0810	0.0162	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
C5-C8 Aliphatics (unadjusted)	ND		0.405	0.207	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
C9-C10 Aromatics	ND		0.405	0.0567	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1
C9-C12 Aliphatics (unadjusted)	ND		0.405	0.173	mg/Kg	☼	03/03/23 07:17	03/03/23 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 10:22*	*1*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 10:22*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1221	ND		0.0225	0.00666	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1232	ND		0.0225	0.00624	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1

Client Sample ID: 2023-MW-01-0406' **Lab Sample ID: 620-10051-1**
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0225	0.00356	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1248	ND		0.0225	0.00704	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1254	**0.0540**		0.0225	0.0175	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1262	ND		0.0225	0.00525	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1260	ND	F1	0.0225	0.00485	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1
PCB-1268	ND		0.0225	0.00480	mg/Kg	☼	03/02/23 12:19	03/03/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*	*03/02/23 12:19*	*03/03/23 18:12*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoroheptanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorononanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorodecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorotridecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorotetradecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorobutanesulfonic acid	ND		2.31	0.462	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorohexanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NEtFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NMeFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
10:2 FTS	ND		2.31	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoropentanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoroheptanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorononanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorodecanesulfonic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctanesulfonamide	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorohexadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorooctadecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorobutanoic acid	ND		2.31	0.923	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoropentanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NMeFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NMeFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NEtFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
NEtFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
HFPODA	ND		2.31	1.15	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
DONA	ND		3.46	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
9Cl-PF3ONS	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
11Cl-PF3OUdS	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluorododecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
4:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
Perfluoroundecanoic acid	ND		0.692	0.231	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0406' **Lab Sample ID: 620-10051-1**
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.31	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.692	ug/Kg	☼	03/03/23 07:14	03/14/23 23:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*59*		*10 - 200*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
M2-8:2 FTS	*73*		*15 - 200*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
M2-6:2 FTS	*62*		*10 - 200*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C5 PFHxA	*76*		*10 - 174*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C4 PFHpA	*79*		*10 - 178*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C8 PFOA	*76*		*26 - 159*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C9 PFNA	*76*		*26 - 165*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C6 PFDA	*73*		*26 - 161*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C2-PFDoDA	*80*		*11 - 166*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C2 PFTeDA	*77*		*10 - 169*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C3 PFBS	*82*		*27 - 179*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C3 PFHxS	*84*		*24 - 171*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C8 PFOS	*87*		*41 - 154*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C8 FOSA	*101*		*14 - 163*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C4 PFBA	*72*		*28 - 153*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C5 PFPeA	*71*		*24 - 161*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/03/23 07:14*	*03/14/23 23:40*	*1*
13C3 HFPO-DA	*66*		*10 - 169*	*03/03/23 07:14*	*03/14/23 23:40*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.00	1.36	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Arsenic	**2.29**	**J**	2.40	1.12	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Barium	**17.5**		0.400	0.120	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Beryllium	**0.349**	**J**	0.400	0.0801	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Cadmium	ND		0.400	0.0801	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Chromium	**7.44**		1.20	0.280	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Lead	**3.58**		1.20	0.480	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Nickel	**2.97**		0.801	0.208	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Selenium	ND		4.00	1.20	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Silver	ND	^3+	0.801	0.320	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Thallium	ND		2.40	1.04	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Vanadium	**9.35**		0.801	0.344	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1
Zinc	**29.9**	**^5-**	1.60	0.641	mg/Kg	☼	03/05/23 19:57	03/08/23 18:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0706	0.0235	mg/Kg	☼	03/06/23 22:34	03/07/23 18:29	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0406'
Date Collected: 02/27/23 13:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-1
Matrix: Solid
Percent Solids: 85.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.0		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	85.0		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0608'
Date Collected: 02/27/23 13:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-2
Matrix: Solid
Percent Solids: 83.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0510	0.0280	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Acetone	**0.392**	**J**	0.510	0.0643	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Acrylonitrile	ND		0.0510	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Benzene	ND		0.0510	0.00816	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromobenzene	ND		0.0510	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromochloromethane	ND		0.0510	0.00729	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromodichloromethane	ND		0.0510	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromoform	ND		0.0510	0.0109	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Bromomethane	ND		0.102	0.0252	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2-Butanone (MEK)	ND		0.102	0.0233	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
n-Butylbenzene	ND		0.0510	0.0204	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
sec-Butylbenzene	ND		0.0510	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
tert-Butylbenzene	ND		0.0510	0.0208	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Carbon disulfide	ND		0.102	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Carbon tetrachloride	ND		0.0510	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chlorobenzene	ND		0.0510	0.00617	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chloroethane	ND		0.102	0.0227	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chloroform	ND		0.0510	0.00602	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Chloromethane	ND		0.102	0.0607	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2-Chlorotoluene	ND		0.0510	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
4-Chlorotoluene	ND		0.0510	0.00923	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dibromo-3-Chloropropane	ND		0.102	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Dibromochloromethane	ND		0.0510	0.00806	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dibromoethane (EDB)	ND		0.0510	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Dibromomethane	ND		0.0510	0.00959	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dichlorobenzene	ND		0.0510	0.00918	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3-Dichlorobenzene	ND		0.0510	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,4-Dichlorobenzene	ND		0.0510	0.00913	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.102	0.0668	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1-Dichloroethane	ND		0.0510	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dichloroethane	ND		0.0510	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1-Dichloroethene	ND		0.0510	0.0131	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
cis-1,2-Dichloroethene	ND		0.0510	0.0170	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
trans-1,2-Dichloroethene	ND		0.0510	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2-Dichloropropane	ND		0.0510	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3-Dichloropropane	ND		0.0510	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2,2-Dichloropropane	ND		0.0510	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1-Dichloropropene	ND		0.0510	0.0156	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
cis-1,3-Dichloropropene	ND		0.0510	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
trans-1,3-Dichloropropene	ND		0.0510	0.0208	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethylbenzene	ND		0.0510	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Hexachlorobutadiene	ND		0.0510	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
2-Hexanone (MBK)	ND		0.102	0.0339	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Isopropylbenzene	ND		0.0510	0.0185	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
4-Isopropyltoluene	ND		0.0510	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Methyl tert-butyl ether	ND		0.0510	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.102	0.0365	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Methylene Chloride	ND		0.102	0.0436	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Naphthalene	ND		0.0510	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0608'
Date Collected: 02/27/23 13:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-2
Matrix: Solid
Percent Solids: 83.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0510	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Styrene	ND		0.0510	0.00673	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,1,2-Tetrachloroethane	ND		0.0510	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,2,2-Tetrachloroethane	ND		0.0510	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Tetrachloroethene	ND		0.0510	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Toluene	ND		0.0510	0.00821	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,3-Trichlorobenzene	ND		0.0510	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,4-Trichlorobenzene	ND		0.0510	0.00842	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3,5-Trichlorobenzene	ND		0.0510	0.00806	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,1-Trichloroethane	ND		0.0510	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,1,2-Trichloroethane	ND		0.0510	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Trichloroethene	ND		0.0510	0.00872	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Trichlorofluoromethane (Freon 11)	ND		0.0510	0.0231	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,3-Trichloropropane	ND		0.0510	0.0235	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,2,4-Trimethylbenzene	ND		0.0510	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3,5-Trimethylbenzene	ND		0.0510	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Vinyl chloride	ND		0.0510	0.0251	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
m,p-Xylene	ND		0.0510	0.0300	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
o-Xylene	ND		0.0510	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Tetrahydrofuran	ND		0.102	0.0373	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethyl ether	ND		0.0510	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Tert-amyl methyl ether	ND		0.0510	0.0282	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethyl tert-butyl ether	ND		0.0510	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
di-Isopropyl ether	ND		0.0510	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
tert-Butanol	ND		1.02	0.724	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,4-Dioxane	ND		1.02	0.300	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
trans-1,4-Dichloro-2-butene	ND		0.255	0.0337	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Ethanol	ND		10.2	0.877	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
1,3-Dichloropropene, Total	ND		0.0510	0.0208	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1
Xylenes, Total	ND		0.153	0.153	mg/Kg	☼	03/07/23 12:57	03/07/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:18*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.393	0.0699	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,2,4-Trichlorobenzene	ND		0.393	0.0900	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,2-Dichlorobenzene	ND		0.393	0.0757	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,3-Dichlorobenzene	ND		0.393	0.0952	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1,4-Dichlorobenzene	ND		0.393	0.0925	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
1-Methylnaphthalene	ND		0.0794	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4,5-Trichlorophenol	ND		0.393	0.0450	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4,6-Trichlorophenol	ND		0.199	0.0486	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4-Dichlorophenol	ND		0.199	0.0792	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4-Dimethylphenol	ND		0.393	0.0576	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,4-Dinitrophenol	ND		0.393	0.103	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0608' **Lab Sample ID: 620-10051-2**
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2,6-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Chloronaphthalene	ND		0.393	0.0909	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Chlorophenol	ND		0.199	0.0813	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Methylnaphthalene	ND		0.0794	0.0587	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Methylphenol	ND		0.393	0.0574	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Nitroaniline	ND		0.393	0.0374	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
2-Nitrophenol	ND		0.199	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
3 & 4 Methylphenol	ND		0.393	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
3,3'-Dichlorobenzidine	ND		0.393	0.0649	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
3-Nitroaniline	ND		0.393	0.0351	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4,6-Dinitro-2-methylphenol	ND		0.393	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Bromophenyl phenyl ether	ND		0.393	0.0444	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Chloro-3-methylphenol	ND		0.393	0.0769	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Chloroaniline	ND		0.199	0.0301	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Chlorophenyl phenyl ether	ND		0.393	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Nitroaniline	ND		0.199	0.0628	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
4-Nitrophenol	ND		0.393	0.137	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Acenaphthene	ND		0.0794	0.0634	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Acenaphthylene	ND		0.0794	0.0522	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Acetophenone	ND		0.199	0.0485	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Aniline	ND		0.393	0.0301	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Anthracene	ND		0.0794	0.0460	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Azobenzene/Diphenyldiazene	ND		0.393	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzidine	ND	*-	0.786	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[a]anthracene	ND		0.0794	0.0447	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[a]pyrene	ND		0.0794	0.0568	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[b]fluoranthene	ND		0.0794	0.0659	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[g,h,i]perylene	ND		0.0794	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzo[k]fluoranthene	ND		0.0794	0.0618	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzoic acid	ND		0.393	0.270	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Benzyl alcohol	ND		0.393	0.0712	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Bis(2-chloroethoxy)methane	ND		0.393	0.0684	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Bis(2-chloroethyl)ether	ND		0.199	0.0650	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
bis (2-chloroisopropyl) ether	ND		0.199	0.0885	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Bis(2-ethylhexyl) phthalate	ND		0.199	0.0506	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Butyl benzyl phthalate	ND		0.393	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Carbazole	ND		0.199	0.0520	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Chrysene	ND		0.0794	0.0449	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Dibenz(a,h)anthracene	ND		0.0794	0.0606	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Dibenzofuran	ND		0.199	0.0688	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Diethyl phthalate	ND		0.393	0.0431	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Dimethyl phthalate	ND		0.393	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Di-n-butyl phthalate	ND		0.393	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Di-n-octyl phthalate	ND		0.393	0.0649	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Fluoranthene	ND		0.0794	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Fluorene	ND		0.0794	0.0725	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Hexachlorobenzene	ND		0.199	0.0551	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Hexachlorobutadiene	ND		0.199	0.0992	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1

Client Sample ID: 2023-MW-01-0608' **Lab Sample ID: 620-10051-2**
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.199	0.0760	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Hexachloroethane	ND		0.199	0.0781	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Indeno[1,2,3-cd]pyrene	ND		0.0794	0.0674	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Isophorone	ND		0.199	0.0544	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Naphthalene	ND		0.0794	0.0762	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Nitrobenzene	ND		0.199	0.0918	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
N-Nitrosodimethylamine	ND		0.199	0.0522	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
N-Nitrosodi-n-propylamine	ND		0.199	0.0792	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
N-Nitrosodiphenylamine	ND		0.393	0.0501	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pentachloronitrobenzene	ND		0.393	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pentachlorophenol	**0.203**	**J B**	0.393	0.161	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Phenanthrene	ND		0.0794	0.0450	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Phenol	ND		0.393	0.0810	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pyrene	ND		0.0794	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1
Pyridine	ND		0.393	0.0930	mg/Kg	☼	03/03/23 08:01	03/08/23 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
Phenol-d5 (Surr)	*87*		*15 - 110*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*15 - 110*	*03/03/23 08:01*	*03/08/23 13:32*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/03/23 08:01*	*03/08/23 13:32*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.276	0.142	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.276	0.118	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Ethylbenzene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Methyl tert-butyl ether	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Naphthalene	**0.0424**	**J B**	0.0553	0.0376	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
o-Xylene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
Toluene	ND		0.0553	0.0111	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
C5-C8 Aliphatics (unadjusted)	ND		0.276	0.142	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
C9-C10 Aromatics	ND		0.276	0.0387	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1
C9-C12 Aliphatics (unadjusted)	ND		0.276	0.118	mg/Kg	☼	03/03/23 07:17	03/03/23 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 12:20*	*1*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 12:20*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0235	0.0169	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1221	ND		0.0235	0.00693	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1232	ND		0.0235	0.00650	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1

Client Sample ID: 2023-MW-01-0608' **Lab Sample ID: 620-10051-2**
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0235	0.00371	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1248	ND		0.0235	0.00733	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1254	ND		0.0235	0.0183	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1262	ND		0.0235	0.00547	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1260	ND		0.0235	0.00504	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1
PCB-1268	ND		0.0235	0.00500	mg/Kg	☼	03/02/23 12:19	03/03/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:08*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoroheptanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorononanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorodecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorotridecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorotetradecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorobutanesulfonic acid	ND		2.36	0.472	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorohexanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NEtFOSAA	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NMeFOSAA	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
10:2 FTS	ND		2.36	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoropentanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoroheptanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorononanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorodecanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctanesulfonamide	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorohexadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorooctadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorobutanoic acid	ND		2.36	0.943	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoropentanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NMeFOSE	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NMeFOSA	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NEtFOSE	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
NEtFOSA	ND		2.36	0.589	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
HFPODA	ND		2.36	1.18	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
DONA	ND		3.54	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
9Cl-PF3ONS	ND		2.36	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
11Cl-PF3OUdS	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluorododecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
4:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
Perfluoroundecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0608' **Lab Sample ID: 620-10051-2**
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1
8:2 Fluorotelomer sulfonic acid	ND		3.54	0.707	ug/Kg	☼	03/03/23 07:14	03/15/23 00:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*103*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
M2-8:2 FTS	*113*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C5 PFHxA	*115*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C4 PFHpA	*121*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C2 PFTeDA	*119*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C3 PFBS	*114*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C8 PFOS	*115*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d3-NMeFOSAA	*124*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d5-NEtFOSAA	*119*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C4 PFBA	*120*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C5 PFPeA	*119*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:13*	*1*
13C3 HFPO-DA	*103*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:13*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.15	1.41	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Arsenic	**1.69**	**J**	2.49	1.16	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Barium	**14.3**		0.415	0.124	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Beryllium	**0.191**	**J**	0.415	0.0829	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Cadmium	ND		0.415	0.0829	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Chromium	**3.87**		1.24	0.290	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Lead	**2.50**		1.24	0.498	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Nickel	**2.19**		0.829	0.216	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Selenium	ND		4.15	1.24	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Silver	ND	^3+	0.829	0.332	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Thallium	ND		2.49	1.08	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Vanadium	**5.80**		0.829	0.357	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1
Zinc	**33.3**		1.66	0.663	mg/Kg	☼	03/05/23 19:48	03/09/23 19:21	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0666	0.0222	mg/Kg	☼	03/05/23 20:31	03/06/23 17:42	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0608'
Date Collected: 02/27/23 13:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-2
Matrix: Solid
Percent Solids: 83.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.8		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	83.2		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0476	0.0261	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Acetone	**0.121**	**J**	0.476	0.0600	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Acrylonitrile	ND		0.0476	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Benzene	ND		0.0476	0.00762	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromobenzene	ND		0.0476	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromochloromethane	ND		0.0476	0.00681	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromodichloromethane	ND		0.0476	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromoform	ND		0.0476	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Bromomethane	ND		0.0953	0.0235	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2-Butanone (MEK)	ND		0.0953	0.0218	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
n-Butylbenzene	ND		0.0476	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
sec-Butylbenzene	ND		0.0476	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
tert-Butylbenzene	ND		0.0476	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Carbon disulfide	ND		0.0953	0.0176	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Carbon tetrachloride	ND		0.0476	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chlorobenzene	ND		0.0476	0.00576	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chloroethane	ND		0.0953	0.0212	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chloroform	ND		0.0476	0.00562	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Chloromethane	ND		0.0953	0.0567	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2-Chlorotoluene	ND		0.0476	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
4-Chlorotoluene	ND		0.0476	0.00862	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dibromo-3-Chloropropane	ND		0.0953	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Dibromochloromethane	ND		0.0476	0.00753	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dibromoethane (EDB)	ND		0.0476	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Dibromomethane	ND		0.0476	0.00896	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dichlorobenzene	ND		0.0476	0.00858	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3-Dichlorobenzene	ND		0.0476	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,4-Dichlorobenzene	ND		0.0476	0.00853	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Dichlorodifluoromethane (Freon 12)	ND		0.0953	0.0624	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1-Dichloroethane	ND		0.0476	0.0110	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dichloroethane	ND		0.0476	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1-Dichloroethene	ND		0.0476	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
cis-1,2-Dichloroethene	ND		0.0476	0.0159	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
trans-1,2-Dichloroethene	ND		0.0476	0.0109	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2-Dichloropropane	ND		0.0476	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3-Dichloropropane	ND		0.0476	0.0151	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2,2-Dichloropropane	ND		0.0476	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1-Dichloropropene	ND		0.0476	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
cis-1,3-Dichloropropene	ND		0.0476	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
trans-1,3-Dichloropropene	ND		0.0476	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethylbenzene	ND		0.0476	0.00996	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Hexachlorobutadiene	ND		0.0476	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
2-Hexanone (MBK)	ND		0.0953	0.0317	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Isopropylbenzene	ND		0.0476	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
4-Isopropyltoluene	ND		0.0476	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Methyl tert-butyl ether	ND		0.0476	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0953	0.0341	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Methylene Chloride	ND		0.0953	0.0407	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Naphthalene	ND		0.0476	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1

Client Sample ID: 2023-MW-01-0810' **Lab Sample ID: 620-10051-3**
Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0476	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Styrene	ND		0.0476	0.00629	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,1,2-Tetrachloroethane	ND		0.0476	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,2,2-Tetrachloroethane	ND		0.0476	0.0151	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Tetrachloroethene	ND		0.0476	0.0150	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Toluene	ND		0.0476	0.00767	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,3-Trichlorobenzene	ND		0.0476	0.0111	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,4-Trichlorobenzene	ND		0.0476	0.00786	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3,5-Trichlorobenzene	ND		0.0476	0.00753	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,1-Trichloroethane	ND		0.0476	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,1,2-Trichloroethane	ND		0.0476	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Trichloroethene	ND		0.0476	0.00815	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Trichlorofluoromethane (Freon 11)	ND		0.0476	0.0215	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,3-Trichloropropane	ND		0.0476	0.0220	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,2,4-Trimethylbenzene	ND		0.0476	0.0121	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3,5-Trimethylbenzene	ND		0.0476	0.00996	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Vinyl chloride	ND		0.0476	0.0234	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
m,p-Xylene	ND		0.0476	0.0280	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
o-Xylene	ND		0.0476	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Tetrahydrofuran	ND		0.0953	0.0348	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethyl ether	ND		0.0476	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Tert-amyl methyl ether	ND		0.0476	0.0263	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethyl tert-butyl ether	ND		0.0476	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
di-Isopropyl ether	ND		0.0476	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
tert-Butanol	ND		0.953	0.677	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,4-Dioxane	ND		0.953	0.281	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
trans-1,4-Dichloro-2-butene	ND		0.238	0.0314	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Ethanol	ND		9.53	0.819	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
1,3-Dichloropropene, Total	ND		0.0476	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1
Xylenes, Total	ND		0.143	0.143	mg/Kg	☼	03/07/23 12:57	03/07/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 17:43*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.398	0.0708	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,2,4-Trichlorobenzene	ND		0.398	0.0912	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,2-Dichlorobenzene	ND		0.398	0.0767	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,3-Dichlorobenzene	ND		0.398	0.0964	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1,4-Dichlorobenzene	ND		0.398	0.0937	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
1-Methylnaphthalene	ND		0.0805	0.0676	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4,5-Trichlorophenol	ND		0.398	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4,6-Trichlorophenol	ND		0.201	0.0492	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4-Dichlorophenol	ND		0.201	0.0802	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4-Dimethylphenol	ND		0.398	0.0584	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,4-Dinitrophenol	ND		0.398	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0472	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2,6-Dinitrotoluene	ND		0.201	0.0472	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Chloronaphthalene	ND		0.398	0.0921	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Chlorophenol	ND		0.201	0.0824	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Methylnaphthalene	ND		0.0805	0.0595	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Methylphenol	ND		0.398	0.0582	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Nitroaniline	ND		0.398	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
2-Nitrophenol	ND		0.201	0.0715	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
3 & 4 Methylphenol	ND		0.398	0.0754	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
3,3'-Dichlorobenzidine	ND		0.398	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
3-Nitroaniline	ND		0.398	0.0356	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4,6-Dinitro-2-methylphenol	ND		0.398	0.0715	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Bromophenyl phenyl ether	ND		0.398	0.0450	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Chloro-3-methylphenol	ND		0.398	0.0779	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Chloroaniline	ND		0.201	0.0305	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Chlorophenyl phenyl ether	ND		0.398	0.0426	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Nitroaniline	ND		0.201	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
4-Nitrophenol	ND		0.398	0.139	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Acenaphthene	ND		0.0805	0.0642	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Acenaphthylene	ND		0.0805	0.0528	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Acetophenone	ND		0.201	0.0491	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Aniline	ND		0.398	0.0305	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Anthracene	ND		0.0805	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Azobenzene/Diphenyldiazene	ND		0.398	0.0679	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzidine	ND	*-	0.796	0.118	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[a]anthracene	ND		0.0805	0.0452	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[a]pyrene	ND		0.0805	0.0575	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[b]fluoranthene	ND		0.0805	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[g,h,i]perylene	ND		0.0805	0.0629	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzo[k]fluoranthene	ND		0.0805	0.0626	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzoic acid	ND		0.398	0.274	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Benzyl alcohol	ND		0.398	0.0721	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Bis(2-chloroethoxy)methane	ND		0.398	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Bis(2-chloroethyl)ether	ND		0.201	0.0659	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0896	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0513	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Butyl benzyl phthalate	ND		0.398	0.0399	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Carbazole	ND		0.201	0.0527	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Chrysene	ND		0.0805	0.0455	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Dibenz(a,h)anthracene	ND		0.0805	0.0614	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Dibenzofuran	ND		0.201	0.0697	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Diethyl phthalate	ND		0.398	0.0437	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Dimethyl phthalate	ND		0.398	0.0519	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Di-n-butyl phthalate	ND		0.398	0.0426	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Di-n-octyl phthalate	ND		0.398	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Fluoranthene	ND		0.0805	0.0472	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Fluorene	ND		0.0805	0.0735	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Hexachlorobenzene	ND		0.201	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1

Client Sample ID: 2023-MW-01-0810' **Lab Sample ID: 620-10051-3**
Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0770	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Hexachloroethane	ND		0.201	0.0791	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Indeno[1,2,3-cd]pyrene	ND		0.0805	0.0683	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Isophorone	ND		0.201	0.0551	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Naphthalene	ND		0.0805	0.0772	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Nitrobenzene	ND		0.201	0.0930	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
N-Nitrosodimethylamine	ND		0.201	0.0528	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0802	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
N-Nitrosodiphenylamine	ND		0.398	0.0508	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pentachloronitrobenzene	ND		0.398	0.0629	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pentachlorophenol	ND		0.398	0.163	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Phenanthrene	ND		0.0805	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Phenol	ND		0.398	0.0820	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pyrene	ND		0.0805	0.0444	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1
Pyridine	ND		0.398	0.0942	mg/Kg	☼	03/03/23 08:01	03/08/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
Phenol-d5 (Surr)	*79*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:00*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:00*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.251	0.128	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.251	0.107	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Ethylbenzene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Methyl tert-butyl ether	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Naphthalene	ND		0.0502	0.0341	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
o-Xylene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
Toluene	ND		0.0502	0.0100	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
C5-C8 Aliphatics (unadjusted)	ND		0.251	0.128	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
C9-C10 Aromatics	ND		0.251	0.0351	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1
C9-C12 Aliphatics (unadjusted)	ND		0.251	0.107	mg/Kg	☼	03/03/23 07:17	03/03/23 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:00*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:00*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0243	0.0175	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1221	ND		0.0243	0.00718	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1232	ND		0.0243	0.00673	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0243	0.00384	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1248	ND		0.0243	0.00760	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1254	ND		0.0243	0.0189	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1262	ND		0.0243	0.00566	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1260	ND		0.0243	0.00523	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1
PCB-1268	ND		0.0243	0.00518	mg/Kg	☼	03/02/23 12:19	03/03/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:27*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoroheptanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorononanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorodecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorotridecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorotetradecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorobutanesulfonic acid	ND		2.41	0.482	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorohexanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NEtFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NMeFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
10:2 FTS	ND		2.41	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoropentanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoroheptanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorononanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorodecanesulfonic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctanesulfonamide	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorohexadecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorooctadecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorobutanoic acid	ND		2.41	0.965	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoropentanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NMeFOSE	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NMeFOSA	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NEtFOSE	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
NEtFOSA	ND		2.41	0.603	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
HFPODA	ND		2.41	1.21	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
DONA	ND		3.62	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
9Cl-PF3ONS	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
11Cl-PF3OUdS	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluorododecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
4:2 Fluorotelomer sulfonic acid	ND		2.41	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
Perfluoroundecanoic acid	ND		0.724	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1

Client Sample ID: 2023-MW-01-0810' **Lab Sample ID: 620-10051-3**
Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.41	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1
8:2 Fluorotelomer sulfonic acid	ND		3.62	0.724	ug/Kg	☼	03/03/23 07:14	03/15/23 00:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*96*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
M2-8:2 FTS	*115*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C5 PFHxA	*109*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C8 PFOA	*106*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C9 PFNA	*106*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C2 PFTeDA	*107*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C3 PFBS	*103*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d3-NMeFOSAA	*117*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d5-NEtFOSAA	*118*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C5 PFPeA	*108*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d7-N-MeFOSE-M	*100*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d9-N-EtFOSE-M	*99*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
d5-NEtPFOSA	*100*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:35*	*1*
13C3 HFPO-DA	*99*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:35*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.54	1.88	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Arsenic	**2.13**	**J**	3.33	1.55	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Barium	**25.0**		0.554	0.166	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Beryllium	**0.296**	**J**	0.554	0.111	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Cadmium	ND		0.554	0.111	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Chromium	**5.75**		1.66	0.388	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Lead	**2.51**		1.66	0.665	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Nickel	**3.28**		1.11	0.288	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Selenium	ND		5.54	1.66	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Silver	ND	^3+	1.11	0.443	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Thallium	ND		3.33	1.44	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Vanadium	**8.72**		1.11	0.477	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1
Zinc	**12.8**		2.22	0.887	mg/Kg	☼	03/05/23 19:48	03/09/23 19:24	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0738	0.0246	mg/Kg	☼	03/05/23 20:11	03/06/23 13:03	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-0810'
Date Collected: 02/27/23 13:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-3
Matrix: Solid
Percent Solids: 81.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	81.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-1012'
Date Collected: 02/27/23 13:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-4
Matrix: Solid
Percent Solids: 85.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0463	0.0254	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Acetone	**0.0913**	**J**	0.463	0.0583	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Acrylonitrile	ND		0.0463	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Benzene	ND		0.0463	0.00741	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromobenzene	ND		0.0463	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromochloromethane	ND		0.0463	0.00662	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromodichloromethane	ND		0.0463	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromoform	ND		0.0463	0.00990	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Bromomethane	ND		0.0926	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2-Butanone (MEK)	ND		0.0926	0.0212	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
n-Butylbenzene	ND		0.0463	0.0185	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
sec-Butylbenzene	ND		0.0463	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
tert-Butylbenzene	ND		0.0463	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Carbon disulfide	ND		0.0926	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Carbon tetrachloride	ND		0.0463	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chlorobenzene	ND		0.0463	0.00560	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chloroethane	ND		0.0926	0.0206	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chloroform	ND		0.0463	0.00546	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Chloromethane	ND		0.0926	0.0551	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2-Chlorotoluene	ND		0.0463	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
4-Chlorotoluene	ND		0.0463	0.00838	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dibromo-3-Chloropropane	ND		0.0926	0.0183	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Dibromochloromethane	ND		0.0463	0.00731	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dibromoethane (EDB)	ND		0.0463	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Dibromomethane	ND		0.0463	0.00870	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dichlorobenzene	ND		0.0463	0.00833	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3-Dichlorobenzene	ND		0.0463	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,4-Dichlorobenzene	ND		0.0463	0.00828	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Dichlorodifluoromethane (Freon 12)	ND		0.0926	0.0606	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1-Dichloroethane	ND		0.0463	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dichloroethane	ND		0.0463	0.0121	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1-Dichloroethene	ND		0.0463	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
cis-1,2-Dichloroethene	ND		0.0463	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
trans-1,2-Dichloroethene	ND		0.0463	0.0106	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2-Dichloropropane	ND		0.0463	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3-Dichloropropane	ND		0.0463	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2,2-Dichloropropane	ND		0.0463	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1-Dichloropropene	ND		0.0463	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
cis-1,3-Dichloropropene	ND		0.0463	0.0109	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
trans-1,3-Dichloropropene	ND		0.0463	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethylbenzene	ND		0.0463	0.00967	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Hexachlorobutadiene	ND		0.0463	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
2-Hexanone (MBK)	ND		0.0926	0.0308	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Isopropylbenzene	ND		0.0463	0.0168	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
4-Isopropyltoluene	ND		0.0463	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Methyl tert-butyl ether	ND		0.0463	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
4-Methyl-2-pentanone (MIBK)	ND		0.0926	0.0331	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Methylene Chloride	ND		0.0926	0.0395	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Naphthalene	ND		0.0463	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0463	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Styrene	ND		0.0463	0.00611	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,1,2-Tetrachloroethane	ND		0.0463	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,2,2-Tetrachloroethane	ND		0.0463	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Tetrachloroethene	ND		0.0463	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Toluene	ND		0.0463	0.00745	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,3-Trichlorobenzene	ND		0.0463	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,4-Trichlorobenzene	ND		0.0463	0.00764	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3,5-Trichlorobenzene	ND		0.0463	0.00731	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,1-Trichloroethane	ND		0.0463	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,1,2-Trichloroethane	ND		0.0463	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Trichloroethene	ND		0.0463	0.00791	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Trichlorofluoromethane (Freon 11)	ND		0.0463	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,3-Trichloropropane	ND		0.0463	0.0213	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,2,4-Trimethylbenzene	ND		0.0463	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3,5-Trimethylbenzene	ND		0.0463	0.00967	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Vinyl chloride	ND		0.0463	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
m,p-Xylene	ND		0.0463	0.0272	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
o-Xylene	ND		0.0463	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Tetrahydrofuran	ND		0.0926	0.0338	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethyl ether	ND		0.0463	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Tert-amyl methyl ether	ND		0.0463	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethyl tert-butyl ether	ND		0.0463	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
di-Isopropyl ether	ND		0.0463	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
tert-Butanol	ND		0.926	0.657	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,4-Dioxane	ND		0.926	0.273	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
trans-1,4-Dichloro-2-butene	ND		0.231	0.0305	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Ethanol	ND		9.26	0.796	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
1,3-Dichloropropene, Total	ND		0.0463	0.0188	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1
Xylenes, Total	ND		0.139	0.139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:08*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.757	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,2,4-Trichlorobenzene	ND		0.757	0.173	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,2-Dichlorobenzene	ND		0.757	0.146	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,3-Dichlorobenzene	ND		0.757	0.183	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1,4-Dichlorobenzene	ND		0.757	0.178	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
1-Methylnaphthalene	ND		0.153	0.128	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4,5-Trichlorophenol	ND		0.757	0.0867	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4,6-Trichlorophenol	ND		0.383	0.0936	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4-Dichlorophenol	ND		0.383	0.152	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4-Dimethylphenol	ND		0.757	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,4-Dinitrophenol	ND		0.757	0.199	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-1012'
Date Collected: 02/27/23 13:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-4
Matrix: Solid
Percent Solids: 85.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.383	0.0897	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2,6-Dinitrotoluene	ND		0.383	0.0897	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Chloronaphthalene	ND		0.757	0.175	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Chlorophenol	ND		0.383	0.157	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Methylnaphthalene	ND		0.153	0.113	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Methylphenol	ND		0.757	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Nitroaniline	ND		0.757	0.0720	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
2-Nitrophenol	ND		0.383	0.136	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
3 & 4 Methylphenol	ND		0.757	0.143	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
3,3'-Dichlorobenzidine	ND		0.757	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
3-Nitroaniline	ND		0.757	0.0676	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4,6-Dinitro-2-methylphenol	ND		0.757	0.136	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Bromophenyl phenyl ether	ND		0.757	0.0855	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Chloro-3-methylphenol	ND		0.757	0.148	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Chloroaniline	ND		0.383	0.0580	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Chlorophenyl phenyl ether	ND		0.757	0.0809	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Nitroaniline	ND		0.383	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
4-Nitrophenol	ND		0.757	0.264	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Acenaphthene	ND		0.153	0.122	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Acenaphthylene	ND		0.153	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Acetophenone	ND		0.383	0.0933	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Aniline	ND		0.757	0.0580	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Anthracene	ND		0.153	0.0885	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Azobenzene/Diphenyldiazene	ND		0.757	0.129	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzidine	ND	*-	1.51	0.224	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[a]anthracene	ND		0.153	0.0860	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[a]pyrene	ND		0.153	0.109	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[b]fluoranthene	ND		0.153	0.127	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[g,h,i]perylene	ND		0.153	0.119	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzo[k]fluoranthene	ND		0.153	0.119	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzoic acid	ND		0.757	0.521	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Benzyl alcohol	ND		0.757	0.137	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Bis(2-chloroethoxy)methane	ND		0.757	0.132	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Bis(2-chloroethyl)ether	ND		0.383	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
bis (2-chloroisopropyl) ether	ND		0.383	0.170	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Bis(2-ethylhexyl) phthalate	ND		0.383	0.0975	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Butyl benzyl phthalate	ND		0.757	0.0759	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Carbazole	ND		0.383	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Chrysene	ND		0.153	0.0864	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Dibenz(a,h)anthracene	ND		0.153	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Dibenzofuran	ND		0.383	0.133	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Diethyl phthalate	ND		0.757	0.0830	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Dimethyl phthalate	ND		0.757	0.0986	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Di-n-butyl phthalate	ND		0.757	0.0809	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Di-n-octyl phthalate	ND		0.757	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Fluoranthene	ND		0.153	0.0897	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Fluorene	ND		0.153	0.140	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Hexachlorobenzene	ND		0.383	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Hexachlorobutadiene	ND		0.383	0.191	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.383	0.146	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Hexachloroethane	ND		0.383	0.150	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Indeno[1,2,3-cd]pyrene	ND		0.153	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Isophorone	ND		0.383	0.105	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Naphthalene	ND		0.153	0.147	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Nitrobenzene	ND		0.383	0.177	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
N-Nitrosodimethylamine	ND		0.383	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
N-Nitrosodi-n-propylamine	ND		0.383	0.152	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
N-Nitrosodiphenylamine	ND		0.757	0.0965	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pentachloronitrobenzene	ND		0.757	0.119	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pentachlorophenol	ND		0.757	0.310	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Phenanthrene	ND		0.153	0.0867	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Phenol	ND		0.757	0.156	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pyrene	ND		0.153	0.0844	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1
Pyridine	ND		0.757	0.179	mg/Kg	☼	03/03/23 08:01	03/09/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
Nitrobenzene-d5 (Surr)	*49*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:46*	*1*
Terphenyl-d14	*63*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:46*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.770	0.394	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.770	0.329	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Ethylbenzene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Methyl tert-butyl ether	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
m,p-Xylene	ND		0.308	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Naphthalene	ND		0.154	0.105	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
o-Xylene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
Toluene	ND		0.154	0.0308	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.770	0.394	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
C9-C10 Aromatics	ND		0.770	0.108	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1
C9-C12 Aliphatics (unadjusted)	ND		0.770	0.329	mg/Kg	☼	03/03/23 07:17	03/03/23 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:39*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/03/23 07:17*	*03/03/23 13:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0233	0.0168	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1221	ND		0.0233	0.00688	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1232	ND		0.0233	0.00645	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0233	0.00368	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1248	ND		0.0233	0.00728	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1254	**0.0199**	**J**	0.0233	0.0181	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1262	ND		0.0233	0.00542	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1260	ND		0.0233	0.00501	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1
PCB-1268	ND		0.0233	0.00496	mg/Kg	☼	03/02/23 12:19	03/03/23 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*
Tetrachloro-m-xylene	*64*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/03/23 19:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoroheptanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorononanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorodecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorotridecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorotetradecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorobutanesulfonic acid	ND		2.29	0.457	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorohexanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
10:2 FTS	ND		2.29	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoropentanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoroheptanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorononanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorodecanesulfonic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctanesulfonamide	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorohexadecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorooctadecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorobutanoic acid	ND		2.29	0.914	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoropentanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NMeFOSE	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NMeFOSA	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NEtFOSE	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
NEtFOSA	ND		2.29	0.571	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
HFPODA	ND		2.29	1.14	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
DONA	ND		3.43	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
11Cl-PF3OUdS	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluorododecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
Perfluoroundecanoic acid	ND		0.686	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1

Client Sample ID: 2023-MW-01-1012' **Lab Sample ID: 620-10051-4**
Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.43	0.686	ug/Kg	☼	03/03/23 07:14	03/15/23 00:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
M2-8:2 FTS	*124*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
M2-6:2 FTS	*117*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C5 PFHxA	*123*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C4 PFHpA	*124*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C8 PFOA	*125*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C9 PFNA	*120*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C2-PFDoDA	*123*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C2 PFTeDA	*126*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C3 PFBS	*121*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C3 PFHxS	*121*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C8 PFOS	*120*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d3-NMeFOSAA	*130*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d5-NEtFOSAA	*133*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C8 FOSA	*125*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C4 PFBA	*123*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C5 PFPeA	*126*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d3-NMePFOSA	*111*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d9-N-EtFOSE-M	*111*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
d5-NEtPFOSA	*113*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:46*	*1*
13C3 HFPO-DA	*123*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.60	1.56	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Arsenic	**1.48**	**J**	2.76	1.29	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Barium	**14.8**		0.460	0.138	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Beryllium	**0.185**	**J**	0.460	0.0920	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Cadmium	ND		0.460	0.0920	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Chromium	**8.48**		1.38	0.322	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Lead	**1.80**		1.38	0.552	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Nickel	**2.53**		0.920	0.239	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Selenium	ND		4.60	1.38	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Silver	ND	^3+	0.920	0.368	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Thallium	ND		2.76	1.20	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Vanadium	**5.11**		0.920	0.395	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1
Zinc	**17.1**	**^5-**	1.84	0.736	mg/Kg	☼	03/05/23 19:48	03/09/23 19:32	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0652	0.0217	mg/Kg	☼	03/05/23 20:11	03/06/23 13:05	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-01-1012'
Date Collected: 02/27/23 13:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-4
Matrix: Solid
Percent Solids: 85.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.0		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	85.0		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0559	0.0307	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Acetone	ND		0.559	0.0705	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Acrylonitrile	ND		0.0559	0.0202	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Benzene	ND		0.0559	0.00895	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromobenzene	ND		0.0559	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromochloromethane	ND		0.0559	0.00800	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromodichloromethane	ND		0.0559	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromoform	ND		0.0559	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Bromomethane	ND		0.112	0.0276	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2-Butanone (MEK)	ND		0.112	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
n-Butylbenzene	ND		0.0559	0.0224	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
sec-Butylbenzene	ND		0.0559	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
tert-Butylbenzene	ND		0.0559	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Carbon disulfide	ND		0.112	0.0207	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Carbon tetrachloride	ND		0.0559	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chlorobenzene	ND		0.0559	0.00677	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chloroethane	ND		0.112	0.0250	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chloroform	ND		0.0559	0.00660	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Chloromethane	ND		0.112	0.0666	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2-Chlorotoluene	ND		0.0559	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
4-Chlorotoluene	ND		0.0559	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dibromo-3-Chloropropane	ND		0.112	0.0221	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Dibromochloromethane	ND		0.0559	0.00884	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dibromoethane (EDB)	ND		0.0559	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Dibromomethane	ND		0.0559	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dichlorobenzene	ND		0.0559	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3-Dichlorobenzene	ND		0.0559	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,4-Dichlorobenzene	ND		0.0559	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Dichlorodifluoromethane (Freon 12)	ND		0.112	0.0733	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1-Dichloroethane	ND		0.0559	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dichloroethane	ND		0.0559	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1-Dichloroethene	ND		0.0559	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
cis-1,2-Dichloroethene	ND		0.0559	0.0186	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
trans-1,2-Dichloroethene	ND		0.0559	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2-Dichloropropane	ND		0.0559	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3-Dichloropropane	ND		0.0559	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2,2-Dichloropropane	ND		0.0559	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1-Dichloropropene	ND		0.0559	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
cis-1,3-Dichloropropene	ND		0.0559	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
trans-1,3-Dichloropropene	ND		0.0559	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethylbenzene	ND		0.0559	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Hexachlorobutadiene	ND		0.0559	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
2-Hexanone (MBK)	ND		0.112	0.0372	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Isopropylbenzene	ND		0.0559	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
4-Isopropyltoluene	ND		0.0559	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Methyl tert-butyl ether	ND		0.0559	0.0168	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.112	0.0401	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Methylene Chloride	ND		0.112	0.0478	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Naphthalene	ND		0.0559	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0559	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Styrene	ND		0.0559	0.00738	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,1,2-Tetrachloroethane	ND		0.0559	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,2,2-Tetrachloroethane	ND		0.0559	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Tetrachloroethene	ND		0.0559	0.0176	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Toluene	ND		0.0559	0.00901	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,3-Trichlorobenzene	ND		0.0559	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,4-Trichlorobenzene	ND		0.0559	0.00923	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3,5-Trichlorobenzene	ND		0.0559	0.00884	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,1-Trichloroethane	ND		0.0559	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,1,2-Trichloroethane	ND		0.0559	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Trichloroethene	ND		0.0559	0.00957	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Trichlorofluoromethane (Freon 11)	ND		0.0559	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,3-Trichloropropane	ND		0.0559	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,2,4-Trimethylbenzene	ND		0.0559	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3,5-Trimethylbenzene	ND		0.0559	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Vinyl chloride	ND		0.0559	0.0275	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
m,p-Xylene	ND		0.0559	0.0329	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
o-Xylene	ND		0.0559	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Tetrahydrofuran	ND		0.112	0.0409	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethyl ether	ND		0.0559	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Tert-amyl methyl ether	ND		0.0559	0.0309	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethyl tert-butyl ether	ND		0.0559	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
di-Isopropyl ether	ND		0.0559	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
tert-Butanol	ND		1.12	0.794	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,4-Dioxane	ND		1.12	0.330	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
trans-1,4-Dichloro-2-butene	ND		0.280	0.0369	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Ethanol	ND		11.2	0.962	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
1,3-Dichloropropene, Total	ND		0.0559	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1
Xylenes, Total	ND		0.168	0.168	mg/Kg	☼	03/07/23 12:57	03/07/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:33*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.672	0.120	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,2,4-Trichlorobenzene	ND		0.672	0.154	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,2-Dichlorobenzene	ND		0.672	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,3-Dichlorobenzene	ND		0.672	0.163	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1,4-Dichlorobenzene	ND		0.672	0.158	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
1-Methylnaphthalene	ND		0.136	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4,5-Trichlorophenol	ND		0.672	0.0770	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4,6-Trichlorophenol	ND		0.340	0.0831	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4-Dichlorophenol	ND		0.340	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4-Dimethylphenol	ND		0.672	0.0986	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,4-Dinitrophenol	ND		0.672	0.177	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.340	0.0797	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2,6-Dinitrotoluene	ND		0.340	0.0797	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Chloronaphthalene	ND		0.672	0.155	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Chlorophenol	ND		0.340	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Methylnaphthalene	ND		0.136	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Methylphenol	ND		0.672	0.0982	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Nitroaniline	ND		0.672	0.0640	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
2-Nitrophenol	ND		0.340	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
3 & 4 Methylphenol	ND		0.672	0.127	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
3,3'-Dichlorobenzidine	ND		0.672	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
3-Nitroaniline	ND		0.672	0.0601	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4,6-Dinitro-2-methylphenol	ND		0.672	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Bromophenyl phenyl ether	ND		0.672	0.0760	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Chloro-3-methylphenol	ND		0.672	0.132	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Chloroaniline	ND		0.340	0.0515	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Chlorophenyl phenyl ether	ND		0.672	0.0719	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Nitroaniline	ND		0.340	0.107	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
4-Nitrophenol	ND		0.672	0.234	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Acenaphthene	ND		0.136	0.108	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Acenaphthylene	ND		0.136	0.0892	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Acetophenone	ND		0.340	0.0829	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Aniline	ND		0.672	0.0515	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Anthracene	ND		0.136	0.0786	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Azobenzene/Diphenyldiazene	ND		0.672	0.115	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzidine	ND	*-	1.34	0.199	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[a]anthracene	ND		0.136	0.0764	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[a]pyrene	ND		0.136	0.0972	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[b]fluoranthene	ND		0.136	0.113	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[g,h,i]perylene	ND		0.136	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzo[k]fluoranthene	ND		0.136	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzoic acid	ND		0.672	0.463	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Benzyl alcohol	ND		0.672	0.122	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Bis(2-chloroethoxy)methane	ND		0.672	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Bis(2-chloroethyl)ether	ND		0.340	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
bis (2-chloroisopropyl) ether	ND		0.340	0.151	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Bis(2-ethylhexyl) phthalate	ND		0.340	0.0866	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Butyl benzyl phthalate	ND		0.672	0.0674	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Carbazole	ND		0.340	0.0890	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Chrysene	**0.0827**	**J**	0.136	0.0768	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Dibenz(a,h)anthracene	ND		0.136	0.104	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Dibenzofuran	ND		0.340	0.118	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Diethyl phthalate	ND		0.672	0.0738	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Dimethyl phthalate	ND		0.672	0.0876	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Di-n-butyl phthalate	ND		0.672	0.0719	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Di-n-octyl phthalate	ND		0.672	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Fluoranthene	**0.187**		0.136	0.0797	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Fluorene	ND		0.136	0.124	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Hexachlorobenzene	ND		0.340	0.0943	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Hexachlorobutadiene	ND		0.340	0.170	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1

Client Sample ID: 2023-MW-02-0002' Lab Sample ID: 620-10051-5

Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.340	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Hexachloroethane	ND		0.340	0.134	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Indeno[1,2,3-cd]pyrene	ND		0.136	0.115	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Isophorone	ND		0.340	0.0931	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Naphthalene	ND		0.136	0.130	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Nitrobenzene	ND		0.340	0.157	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
N-Nitrosodimethylamine	ND		0.340	0.0892	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
N-Nitrosodi-n-propylamine	ND		0.340	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
N-Nitrosodiphenylamine	ND		0.672	0.0858	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pentachloronitrobenzene	ND		0.672	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pentachlorophenol	ND		0.672	0.275	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Phenanthrene	**0.167**		0.136	0.0770	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Phenol	ND		0.672	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pyrene	**0.203**		0.136	0.0750	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1
Pyridine	ND		0.672	0.159	mg/Kg	☼	03/03/23 08:01	03/09/23 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
2-Fluorophenol (Surr)	*83*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
Nitrobenzene-d5 (Surr)	*53*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
2,4,6-Tribromophenol (Surr)	*96*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:42*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.737	0.378	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.737	0.316	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Ethylbenzene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Methyl tert-butyl ether	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
m,p-Xylene	ND		0.295	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Naphthalene	ND		0.147	0.100	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
o-Xylene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
Toluene	ND		0.147	0.0295	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
C5-C8 Aliphatics (unadjusted)	ND		0.737	0.378	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
C9-C10 Aromatics	ND		0.737	0.103	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1
C9-C12 Aliphatics (unadjusted)	ND		0.737	0.316	mg/Kg	☼	03/03/23 07:17	03/03/23 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 14:19*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 14:19*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0147	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1221	ND		0.0205	0.00604	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1232	ND		0.0205	0.00567	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1

Client Sample ID: 2023-MW-02-0002' **Lab Sample ID: 620-10051-5**
Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00323	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1248	ND		0.0205	0.00639	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1254	**0.0309**		0.0205	0.0159	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1262	ND		0.0205	0.00477	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1260	**0.0144**	**J**	0.0205	0.00440	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1
PCB-1268	ND		0.0205	0.00436	mg/Kg	☼	03/02/23 12:19	03/08/23 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:27*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoroheptanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorononanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorodecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorotridecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorotetradecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorobutanesulfonic acid	ND		2.06	0.411	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorohexanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NEtFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NMeFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
10:2 FTS	ND		2.06	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoropentanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoroheptanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorononanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorodecanesulfonic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctanesulfonamide	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorohexadecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorooctadecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorobutanoic acid	ND		2.06	0.822	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoropentanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NMeFOSE	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NMeFOSA	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NEtFOSE	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
NEtFOSA	ND		2.06	0.514	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
HFPODA	ND		2.06	1.03	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
DONA	ND		3.08	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
9Cl-PF3ONS	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
11Cl-PF3OUdS	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluorododecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.06	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
Perfluoroundecanoic acid	ND		0.617	0.206	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1

Client Sample ID: 2023-MW-02-0002' **Lab Sample ID: 620-10051-5**
Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.06	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.617	ug/Kg	☼	03/03/23 07:14	03/15/23 00:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
M2-6:2 FTS	*88*		*10 - 200*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C5 PFHxA	*85*		*10 - 174*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C4 PFHpA	*85*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C8 PFOA	*87*		*26 - 159*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C9 PFNA	*98*		*26 - 165*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C6 PFDA	*91*		*26 - 161*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C7 PFUnA	*90*		*12 - 173*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C2-PFDoDA	*90*		*11 - 166*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C3 PFBS	*92*		*27 - 179*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C3 PFHxS	*95*		*24 - 171*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d5-NEtFOSAA	*20*		*10 - 193*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C8 FOSA	*92*		*14 - 163*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C4 PFBA	*78*		*28 - 153*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C5 PFPeA	*84*		*24 - 161*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d3-NMePFOSA	*77*		*10 - 175*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d9-N-EtFOSE-M	*85*		*10 - 185*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
d5-NEtPFOSA	*79*		*10 - 180*	*03/03/23 07:14*	*03/15/23 00:57*	*1*
13C3 HFPO-DA	*80*		*10 - 169*	*03/03/23 07:14*	*03/15/23 00:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.76	1.62	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Arsenic	**4.78**		2.86	1.33	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Barium	**39.3**		0.476	0.143	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Beryllium	**0.397**	**J**	0.476	0.0952	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Cadmium	ND		0.476	0.0952	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Chromium	**12.0**		1.43	0.333	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Lead	**6.28**		1.43	0.571	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Nickel	**5.07**		0.952	0.248	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Selenium	ND		4.76	1.43	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Silver	ND	^3+	0.952	0.381	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Thallium	ND		2.86	1.24	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Vanadium	**19.3**		0.952	0.410	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1
Zinc	**22.7**		1.90	0.762	mg/Kg	☼	03/05/23 19:48	03/09/23 19:27	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0575	0.0192	mg/Kg	☼	03/05/23 20:11	03/06/23 13:07	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0002'
Date Collected: 02/27/23 15:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-5
Matrix: Solid
Percent Solids: 96.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	96.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0204'
Lab Sample ID: 620-10051-6
Date Collected: 02/27/23 15:05
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 84.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0498	0.0273	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Acetone	ND		0.498	0.0627	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Acrylonitrile	ND		0.0498	0.0180	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Benzene	ND		0.0498	0.00796	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromobenzene	ND		0.0498	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromochloromethane	ND		0.0498	0.00712	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromodichloromethane	ND		0.0498	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromoform	ND		0.0498	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Bromomethane	ND		0.0995	0.0246	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2-Butanone (MEK)	ND		0.0995	0.0227	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
n-Butylbenzene	ND		0.0498	0.0199	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
sec-Butylbenzene	ND		0.0498	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
tert-Butylbenzene	ND		0.0498	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Carbon disulfide	ND		0.0995	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Carbon tetrachloride	ND		0.0498	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chlorobenzene	ND		0.0498	0.00602	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chloroethane	ND		0.0995	0.0222	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chloroform	ND		0.0498	0.00587	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Chloromethane	ND		0.0995	0.0592	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2-Chlorotoluene	ND		0.0498	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
4-Chlorotoluene	ND		0.0498	0.00901	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dibromo-3-Chloropropane	ND		0.0995	0.0197	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Dibromochloromethane	ND		0.0498	0.00786	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dibromoethane (EDB)	ND		0.0498	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Dibromomethane	ND		0.0498	0.00936	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dichlorobenzene	ND		0.0498	0.00896	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3-Dichlorobenzene	ND		0.0498	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,4-Dichlorobenzene	ND		0.0498	0.00891	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Dichlorodifluoromethane (Freon 12)	ND		0.0995	0.0652	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1-Dichloroethane	ND		0.0498	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dichloroethane	ND		0.0498	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1-Dichloroethene	ND		0.0498	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
cis-1,2-Dichloroethene	ND		0.0498	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
trans-1,2-Dichloroethene	ND		0.0498	0.0113	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2-Dichloropropane	ND		0.0498	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3-Dichloropropane	ND		0.0498	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2,2-Dichloropropane	ND		0.0498	0.0131	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1-Dichloropropene	ND		0.0498	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
cis-1,3-Dichloropropene	ND		0.0498	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
trans-1,3-Dichloropropene	ND		0.0498	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethylbenzene	ND		0.0498	0.0104	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Hexachlorobutadiene	ND		0.0498	0.0159	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
2-Hexanone (MBK)	ND		0.0995	0.0331	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Isopropylbenzene	ND		0.0498	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
4-Isopropyltoluene	ND		0.0498	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Methyl tert-butyl ether	ND		0.0498	0.0150	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.0995	0.0356	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Methylene Chloride	ND		0.0995	0.0425	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Naphthalene	ND		0.0498	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0204'
Date Collected: 02/27/23 15:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-6
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0498	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Styrene	ND		0.0498	0.00657	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,1,2-Tetrachloroethane	ND		0.0498	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,2,2-Tetrachloroethane	ND		0.0498	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Tetrachloroethene	ND		0.0498	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Toluene	ND		0.0498	0.00801	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,3-Trichlorobenzene	ND		0.0498	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,4-Trichlorobenzene	ND		0.0498	0.00821	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3,5-Trichlorobenzene	ND		0.0498	0.00786	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,1-Trichloroethane	ND		0.0498	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,1,2-Trichloroethane	ND		0.0498	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Trichloroethene	ND		0.0498	0.00851	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Trichlorofluoromethane (Freon 11)	ND		0.0498	0.0225	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,3-Trichloropropane	ND		0.0498	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,2,4-Trimethylbenzene	ND		0.0498	0.0126	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3,5-Trimethylbenzene	ND		0.0498	0.0104	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Vinyl chloride	ND		0.0498	0.0245	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
m,p-Xylene	ND		0.0498	0.0293	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
o-Xylene	ND		0.0498	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Tetrahydrofuran	ND		0.0995	0.0364	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethyl ether	ND		0.0498	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Tert-amyl methyl ether	ND		0.0498	0.0275	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethyl tert-butyl ether	ND		0.0498	0.0138	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
di-Isopropyl ether	ND		0.0498	0.0161	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
tert-Butanol	ND		0.995	0.707	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,4-Dioxane	ND		0.995	0.293	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
trans-1,4-Dichloro-2-butene	ND		0.249	0.0329	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Ethanol	ND		9.95	0.856	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
1,3-Dichloropropene, Total	ND		0.0498	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1
Xylenes, Total	ND		0.149	0.149	mg/Kg	☼	03/07/23 12:57	03/07/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 18:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.385	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,2,4-Trichlorobenzene	ND		0.385	0.0883	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,2-Dichlorobenzene	ND		0.385	0.0742	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,3-Dichlorobenzene	ND		0.385	0.0933	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1,4-Dichlorobenzene	ND		0.385	0.0907	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
1-Methylnaphthalene	ND		0.0779	0.0654	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4,5-Trichlorophenol	ND		0.385	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4,6-Trichlorophenol	ND		0.195	0.0476	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4-Dichlorophenol	ND		0.195	0.0776	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4-Dimethylphenol	ND		0.385	0.0565	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,4-Dinitrophenol	ND		0.385	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0204'
Date Collected: 02/27/23 15:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-6
Matrix: Solid
Percent Solids: 84.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.195	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2,6-Dinitrotoluene	ND		0.195	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Chloronaphthalene	ND		0.385	0.0891	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Chlorophenol	ND		0.195	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Methylnaphthalene	ND		0.0779	0.0576	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Methylphenol	ND		0.385	0.0563	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Nitroaniline	ND		0.385	0.0367	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
2-Nitrophenol	ND		0.195	0.0692	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
3 & 4 Methylphenol	ND		0.385	0.0730	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
3,3'-Dichlorobenzidine	ND		0.385	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
3-Nitroaniline	ND		0.385	0.0344	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4,6-Dinitro-2-methylphenol	ND		0.385	0.0692	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Bromophenyl phenyl ether	ND		0.385	0.0435	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Chloro-3-methylphenol	ND		0.385	0.0754	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Chloroaniline	ND		0.195	0.0295	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Chlorophenyl phenyl ether	ND		0.385	0.0412	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Nitroaniline	ND		0.195	0.0615	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
4-Nitrophenol	ND		0.385	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Acenaphthene	ND		0.0779	0.0621	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Acenaphthylene	ND		0.0779	0.0511	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Acetophenone	ND		0.195	0.0475	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Aniline	ND		0.385	0.0295	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Anthracene	ND		0.0779	0.0451	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Azobenzene/Diphenyldiazene	ND		0.385	0.0657	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzidine	ND	*-	0.770	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[a]anthracene	**0.0514**	**J**	0.0779	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[a]pyrene	ND		0.0779	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[b]fluoranthene	ND		0.0779	0.0646	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[g,h,i]perylene	ND		0.0779	0.0608	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzo[k]fluoranthene	ND		0.0779	0.0606	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzoic acid	**1.20**		0.385	0.265	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Benzyl alcohol	ND		0.385	0.0698	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Bis(2-chloroethoxy)methane	ND		0.385	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Bis(2-chloroethyl)ether	ND		0.195	0.0637	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
bis (2-chloroisopropyl) ether	ND		0.195	0.0867	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Bis(2-ethylhexyl) phthalate	ND		0.195	0.0496	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Butyl benzyl phthalate	ND		0.385	0.0386	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Carbazole	ND		0.195	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Chrysene	**0.0577**	**J**	0.0779	0.0440	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Dibenz(a,h)anthracene	ND		0.0779	0.0594	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Dibenzofuran	ND		0.195	0.0675	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Diethyl phthalate	ND		0.385	0.0423	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Dimethyl phthalate	ND		0.385	0.0502	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Di-n-butyl phthalate	ND		0.385	0.0412	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Di-n-octyl phthalate	ND		0.385	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Fluoranthene	**0.133**		0.0779	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Fluorene	ND		0.0779	0.0711	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Hexachlorobenzene	ND		0.195	0.0541	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Hexachlorobutadiene	ND		0.195	0.0972	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1

Client Sample ID: 2023-MW-02-0204' **Lab Sample ID: 620-10051-6**
Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.195	0.0745	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Hexachloroethane	ND		0.195	0.0766	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0779	0.0661	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Isophorone	ND		0.195	0.0534	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Naphthalene	ND		0.0779	0.0747	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Nitrobenzene	ND		0.195	0.0900	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
N-Nitrosodimethylamine	ND		0.195	0.0511	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
N-Nitrosodi-n-propylamine	ND		0.195	0.0776	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
N-Nitrosodiphenylamine	ND		0.385	0.0491	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pentachloronitrobenzene	ND		0.385	0.0608	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pentachlorophenol	ND		0.385	0.158	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Phenanthrene	**0.0723**	**J**	0.0779	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Phenol	ND		0.385	0.0794	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pyrene	**0.171**		0.0779	0.0430	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1
Pyridine	ND		0.385	0.0912	mg/Kg	☼	03/03/23 08:01	03/08/23 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
2-Fluorophenol (Surr)	*78*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:29*	*1*
Terphenyl-d14	*56*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.389	0.199	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.389	0.166	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Ethylbenzene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Methyl tert-butyl ether	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
m,p-Xylene	ND		0.156	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Naphthalene	**0.0711**	**J B**	0.0778	0.0529	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
o-Xylene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
Toluene	ND		0.0778	0.0156	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
C5-C8 Aliphatics (unadjusted)	ND		0.389	0.199	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
C9-C10 Aromatics	ND		0.389	0.0544	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1
C9-C12 Aliphatics (unadjusted)	ND		0.389	0.166	mg/Kg	☼	03/03/23 07:17	03/03/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/03/23 07:17*	*03/03/23 15:37*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/03/23 07:17*	*03/03/23 15:37*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0233	0.0168	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1221	ND		0.0233	0.00690	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1232	ND		0.0233	0.00647	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1

Client Sample ID: 2023-MW-02-0204' **Lab Sample ID: 620-10051-6**
Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0233	0.00369	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1248	ND		0.0233	0.00729	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1254	ND		0.0233	0.0182	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1262	ND		0.0233	0.00544	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1260	ND		0.0233	0.00502	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1
PCB-1268	ND		0.0233	0.00497	mg/Kg	☼	03/02/23 12:19	03/08/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/08/23 13:46*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoroheptanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorononanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorodecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorotridecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorotetradecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorobutanesulfonic acid	ND		2.24	0.447	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorohexanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NEtFOSAA	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NMeFOSAA	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
10:2 FTS	ND		2.24	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoropentanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoroheptanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorononanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorodecanesulfonic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctanesulfonamide	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorohexadecanoic acid	**0.299**	**J**	0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorooctadecanoic acid	**0.386**	**J**	0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorobutanoic acid	ND		2.24	0.895	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoropentanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NMeFOSE	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NMeFOSA	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NEtFOSE	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
NEtFOSA	ND		2.24	0.559	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
HFPODA	ND		2.24	1.12	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
DONA	ND		3.36	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
9Cl-PF3ONS	ND		2.24	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
11Cl-PF3OUdS	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluorododecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.24	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
Perfluoroundecanoic acid	ND		0.671	0.224	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1

Client Sample ID: 2023-MW-02-0204' **Lab Sample ID: 620-10051-6**
Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.24	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.36	0.671	ug/Kg	☼	03/20/23 00:33	03/21/23 03:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*32*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
M2-6:2 FTS	*35*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C5 PFHxA	*36*		*10 - 174*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C4 PFHpA	*42*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C8 PFOA	*40*		*26 - 159*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C9 PFNA	*39*		*26 - 165*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C6 PFDA	*40*		*26 - 161*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C7 PFUnA	*48*		*12 - 173*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C2-PFDoDA	*44*		*11 - 166*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C2 PFTeDA	*47*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C3 PFBS	*64*		*27 - 179*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C3 PFHxS	*74*		*24 - 171*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C8 PFOS	*67*		*41 - 154*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d5-NEtFOSAA	*28*		*10 - 193*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C8 FOSA	*122*		*14 - 163*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C4 PFBA	*33*		*28 - 153*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C5 PFPeA	*34*		*24 - 161*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d9-N-EtFOSE-M	*124*		*10 - 185*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/20/23 00:33*	*03/21/23 03:57*	*1*
13C3 HFPO-DA	*44*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.49	1.53	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Arsenic	**3.12**		2.69	1.26	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Barium	**20.9**		0.449	0.135	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Beryllium	**0.451**		0.449	0.0898	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Cadmium	ND		0.449	0.0898	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Chromium	**7.41**		1.35	0.314	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Lead	**7.54**		1.35	0.539	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Nickel	**2.77**		0.898	0.234	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Selenium	ND		4.49	1.35	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Silver	ND	^3+	0.898	0.359	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Thallium	ND		2.69	1.17	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Vanadium	**13.4**		0.898	0.386	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1
Zinc	**16.3**		1.80	0.719	mg/Kg	☼	03/05/23 19:48	03/09/23 18:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0408**	**J**	0.0711	0.0237	mg/Kg	☼	03/05/23 20:11	03/06/23 13:09	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0204'
Date Collected: 02/27/23 15:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-6
Matrix: Solid
Percent Solids: 84.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	84.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'
Date Collected: 02/27/23 15:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-7
Matrix: Solid
Percent Solids: 84.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0653	0.0358	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Acetone	**0.216**	**J**	0.653	0.0823	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Acrylonitrile	ND		0.0653	0.0236	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Benzene	ND		0.0653	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromobenzene	ND		0.0653	0.0148	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromochloromethane	ND		0.0653	0.00934	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromodichloromethane	ND		0.0653	0.0169	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromoform	ND		0.0653	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Bromomethane	ND		0.131	0.0323	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2-Butanone (MEK)	**0.0884**	**J**	0.131	0.0299	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
n-Butylbenzene	ND		0.0653	0.0261	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
sec-Butylbenzene	ND		0.0653	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
tert-Butylbenzene	ND		0.0653	0.0267	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Carbon disulfide	ND		0.131	0.0242	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Carbon tetrachloride	ND		0.0653	0.0195	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chlorobenzene	ND		0.0653	0.00790	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chloroethane	ND		0.131	0.0291	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chloroform	ND		0.0653	0.00771	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Chloromethane	ND		0.131	0.0777	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2-Chlorotoluene	ND		0.0653	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
4-Chlorotoluene	ND		0.0653	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dibromo-3-Chloropropane	ND		0.131	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Dibromochloromethane	ND		0.0653	0.0103	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dibromoethane (EDB)	ND		0.0653	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Dibromomethane	ND		0.0653	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dichlorobenzene	ND		0.0653	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3-Dichlorobenzene	ND		0.0653	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,4-Dichlorobenzene	ND		0.0653	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Dichlorodifluoromethane (Freon 12)	ND		0.131	0.0856	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1-Dichloroethane	ND		0.0653	0.0151	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dichloroethane	ND		0.0653	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1-Dichloroethene	ND		0.0653	0.0167	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
cis-1,2-Dichloroethene	ND		0.0653	0.0218	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
trans-1,2-Dichloroethene	ND		0.0653	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2-Dichloropropane	ND		0.0653	0.0227	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3-Dichloropropane	ND		0.0653	0.0206	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2,2-Dichloropropane	ND		0.0653	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1-Dichloropropene	ND		0.0653	0.0200	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
cis-1,3-Dichloropropene	ND		0.0653	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
trans-1,3-Dichloropropene	ND		0.0653	0.0266	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethylbenzene	ND		0.0653	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Hexachlorobutadiene	ND		0.0653	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
2-Hexanone (MBK)	ND		0.131	0.0434	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Isopropylbenzene	ND		0.0653	0.0237	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
4-Isopropyltoluene	ND		0.0653	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Methyl tert-butyl ether	ND		0.0653	0.0197	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.131	0.0468	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Methylene Chloride	ND		0.131	0.0558	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Naphthalene	ND		0.0653	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1

Client Sample ID: 2023-MW-02-0406'
Lab Sample ID: 620-10051-7
Date Collected: 02/27/23 15:10
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 84.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0653	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Styrene	ND		0.0653	0.00862	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,1,2-Tetrachloroethane	ND		0.0653	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,2,2-Tetrachloroethane	ND		0.0653	0.0207	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Tetrachloroethene	ND		0.0653	0.0206	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Toluene	ND		0.0653	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,3-Trichlorobenzene	ND		0.0653	0.0152	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,4-Trichlorobenzene	ND		0.0653	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3,5-Trichlorobenzene	ND		0.0653	0.0103	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,1-Trichloroethane	ND		0.0653	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,1,2-Trichloroethane	ND		0.0653	0.0202	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Trichloroethene	ND		0.0653	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Trichlorofluoromethane (Freon 11)	ND		0.0653	0.0295	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,3-Trichloropropane	ND		0.0653	0.0301	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,2,4-Trimethylbenzene	ND		0.0653	0.0165	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3,5-Trimethylbenzene	ND		0.0653	0.0137	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Vinyl chloride	ND		0.0653	0.0321	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
m,p-Xylene	ND		0.0653	0.0384	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
o-Xylene	ND		0.0653	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Tetrahydrofuran	ND		0.131	0.0477	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethyl ether	ND		0.0653	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Tert-amyl methyl ether	ND		0.0653	0.0361	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethyl tert-butyl ether	ND		0.0653	0.0181	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
di-Isopropyl ether	ND		0.0653	0.0211	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
tert-Butanol	ND		1.31	0.928	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,4-Dioxane	ND		1.31	0.385	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
trans-1,4-Dichloro-2-butene	ND		0.327	0.0431	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Ethanol	ND		13.1	1.12	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
1,3-Dichloropropene, Total	ND		0.0653	0.0266	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1
Xylenes, Total	ND		0.196	0.196	mg/Kg	☼	03/07/23 12:57	03/07/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:25*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.383	0.0682	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,2,4-Trichlorobenzene	ND		0.383	0.0878	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,2-Dichlorobenzene	ND		0.383	0.0739	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,3-Dichlorobenzene	ND		0.383	0.0928	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1,4-Dichlorobenzene	ND		0.383	0.0903	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
1-Methylnaphthalene	ND		0.0775	0.0651	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4,5-Trichlorophenol	ND		0.383	0.0439	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4,6-Trichlorophenol	ND		0.194	0.0474	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4-Dichlorophenol	ND		0.194	0.0773	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4-Dimethylphenol	ND		0.383	0.0562	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,4-Dinitrophenol	ND		0.383	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'
Date Collected: 02/27/23 15:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-7
Matrix: Solid
Percent Solids: 84.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.194	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2,6-Dinitrotoluene	ND		0.194	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Chloronaphthalene	ND		0.383	0.0886	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Chlorophenol	ND		0.194	0.0793	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Methylnaphthalene	ND		0.0775	0.0573	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Methylphenol	ND		0.383	0.0560	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Nitroaniline	ND		0.383	0.0365	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
2-Nitrophenol	ND		0.194	0.0689	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
3 & 4 Methylphenol	ND		0.383	0.0726	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
3,3'-Dichlorobenzidine	ND		0.383	0.0633	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
3-Nitroaniline	ND		0.383	0.0343	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4,6-Dinitro-2-methylphenol	ND		0.383	0.0689	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Bromophenyl phenyl ether	ND		0.383	0.0433	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Chloro-3-methylphenol	ND		0.383	0.0751	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Chloroaniline	ND		0.194	0.0294	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Chlorophenyl phenyl ether	ND		0.383	0.0410	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Nitroaniline	ND		0.194	0.0612	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
4-Nitrophenol	ND		0.383	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Acenaphthene	ND		0.0775	0.0618	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Acenaphthylene	ND		0.0775	0.0509	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Acetophenone	ND		0.194	0.0473	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Aniline	ND		0.383	0.0294	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Anthracene	ND		0.0775	0.0448	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Azobenzene/Diphenyldiazene	ND		0.383	0.0654	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzidine	ND	*-	0.767	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[a]anthracene	ND		0.0775	0.0436	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[a]pyrene	ND		0.0775	0.0554	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[b]fluoranthene	ND		0.0775	0.0642	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[g,h,i]perylene	ND		0.0775	0.0605	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzo[k]fluoranthene	ND		0.0775	0.0603	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzoic acid	ND		0.383	0.264	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Benzyl alcohol	ND		0.383	0.0695	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Bis(2-chloroethoxy)methane	ND		0.383	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Bis(2-chloroethyl)ether	ND		0.194	0.0634	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
bis (2-chloroisopropyl) ether	ND		0.194	0.0863	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Bis(2-ethylhexyl) phthalate	ND		0.194	0.0494	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Butyl benzyl phthalate	ND		0.383	0.0385	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Carbazole	ND		0.194	0.0508	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Chrysene	ND		0.0775	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Dibenz(a,h)anthracene	ND		0.0775	0.0591	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Dibenzofuran	ND		0.194	0.0672	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Diethyl phthalate	ND		0.383	0.0421	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Dimethyl phthalate	ND		0.383	0.0500	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Di-n-butyl phthalate	ND		0.383	0.0410	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Di-n-octyl phthalate	ND		0.383	0.0633	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Fluoranthene	ND		0.0775	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Fluorene	ND		0.0775	0.0708	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Hexachlorobenzene	ND		0.194	0.0538	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Hexachlorobutadiene	ND		0.194	0.0968	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1

Client Sample ID: 2023-MW-02-0406' **Lab Sample ID: 620-10051-7**
Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.194	0.0741	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Hexachloroethane	ND		0.194	0.0762	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Indeno[1,2,3-cd]pyrene	ND		0.0775	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Isophorone	ND		0.194	0.0531	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Naphthalene	ND		0.0775	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Nitrobenzene	ND		0.194	0.0896	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
N-Nitrosodimethylamine	ND		0.194	0.0509	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
N-Nitrosodi-n-propylamine	ND		0.194	0.0773	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
N-Nitrosodiphenylamine	ND		0.383	0.0489	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pentachloronitrobenzene	ND		0.383	0.0605	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pentachlorophenol	ND		0.383	0.157	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Phenanthrene	ND		0.0775	0.0439	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Phenol	ND		0.383	0.0790	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pyrene	ND		0.0775	0.0428	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1
Pyridine	ND		0.383	0.0907	mg/Kg	☼	03/03/23 08:01	03/08/23 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
2-Fluorophenol (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
Nitrobenzene-d5 (Surr)	*48*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
Phenol-d5 (Surr)	*65*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/03/23 08:01*	*03/08/23 14:58*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 14:58*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.717	0.367	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	**3.44**		0.717	0.307	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Ethylbenzene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Methyl tert-butyl ether	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
m,p-Xylene	ND		0.287	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Naphthalene	**1.37**	**B**	0.143	0.0975	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
o-Xylene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
Toluene	ND		0.143	0.0287	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
C5-C8 Aliphatics (unadjusted)	ND		0.717	0.367	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
C9-C10 Aromatics	**3.90**		0.717	0.100	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1
C9-C12 Aliphatics (unadjusted)	**7.34**		0.717	0.307	mg/Kg	☼	03/03/23 07:17	03/03/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:17*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:17*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0165	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1221	ND		0.0228	0.00675	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1232	ND		0.0228	0.00633	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1

Client Sample ID: 2023-MW-02-0406' **Lab Sample ID: 620-10051-7**
Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00361	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1248	ND		0.0228	0.00714	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1254	ND		0.0228	0.0178	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1260	ND		0.0228	0.00491	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1
PCB-1268	ND		0.0228	0.00487	mg/Kg	☼	03/02/23 12:19	03/08/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:04*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoroheptanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorononanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorodecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorotridecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorotetradecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorobutanesulfonic acid	ND		2.16	0.433	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorohexanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NEtFOSAA	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NMeFOSAA	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
10:2 FTS	ND		2.16	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoropentanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoroheptanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorononanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorodecanesulfonic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctanesulfonamide	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorohexadecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorooctadecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorobutanoic acid	ND		2.16	0.866	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoropentanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NMeFOSE	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NMeFOSA	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NEtFOSE	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
NEtFOSA	ND		2.16	0.541	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
HFPODA	ND		2.16	1.08	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
DONA	ND		3.25	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
9Cl-PF3ONS	ND		2.16	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
11Cl-PF3OUdS	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluorododecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
4:2 Fluorotelomer sulfonic acid	ND		2.16	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
Perfluoroundecanoic acid	ND		0.649	0.216	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1

Client Sample ID: 2023-MW-02-0406' **Lab Sample ID: 620-10051-7**
Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.16	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1
8:2 Fluorotelomer sulfonic acid	ND		3.25	0.649	ug/Kg	☼	03/20/23 00:33	03/21/23 04:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*104*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
M2-8:2 FTS	*129*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
M2-6:2 FTS	*119*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C5 PFHxA	*105*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C4 PFHpA	*116*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C8 PFOA	*117*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C6 PFDA	*124*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C7 PFUnA	*135*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C2-PFDoDA	*131*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C3 PFBS	*133*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C3 PFHxS	*149*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C8 PFOS	*131*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d3-NMeFOSAA	*11*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d5-NEtFOSAA	*14*		*10 - 193*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C8 FOSA	*89*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C5 PFPeA	*90*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d7-N-MeFOSE-M	*80*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d3-NMePFOSA	*73*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
d5-NEtPFOSA	*71*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:08*	*1*
13C3 HFPO-DA	*93*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:08*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.72	1.60	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Arsenic	**3.48**		2.83	1.32	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Barium	**21.3**		0.472	0.142	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Beryllium	**0.357**	**J**	0.472	0.0944	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Cadmium	ND		0.472	0.0944	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Chromium	**7.88**		1.42	0.330	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Lead	**4.14**		1.42	0.566	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Nickel	**3.44**		0.944	0.245	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Selenium	ND		4.72	1.42	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Silver	ND	^3+	0.944	0.378	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Thallium	ND		2.83	1.23	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Vanadium	**10.9**		0.944	0.406	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1
Zinc	**17.1**	**^5-**	1.89	0.755	mg/Kg	☼	03/05/23 19:57	03/08/23 20:14	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0664	0.0221	mg/Kg	☼	03/05/23 20:31	03/06/23 17:37	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'
Date Collected: 02/27/23 15:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-7
Matrix: Solid
Percent Solids: 84.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.2		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	84.8		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0608'
Lab Sample ID: 620-10051-8
Date Collected: 02/27/23 15:15
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0388	0.0212	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Acetone	ND		0.388	0.0488	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Acrylonitrile	ND		0.0388	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Benzene	ND		0.0388	0.00620	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromobenzene	ND		0.0388	0.00876	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromochloromethane	ND		0.0388	0.00554	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromodichloromethane	ND		0.0388	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromoform	ND		0.0388	0.00830	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Bromomethane	ND		0.0775	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2-Butanone (MEK)	ND		0.0775	0.0177	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
n-Butylbenzene	ND		0.0388	0.0155	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
sec-Butylbenzene	ND		0.0388	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
tert-Butylbenzene	ND		0.0388	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Carbon disulfide	ND		0.0775	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Carbon tetrachloride	ND		0.0388	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chlorobenzene	ND		0.0388	0.00469	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chloroethane	ND		0.0775	0.0173	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chloroform	ND		0.0388	0.00457	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Chloromethane	ND		0.0775	0.0461	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2-Chlorotoluene	ND		0.0388	0.00961	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
4-Chlorotoluene	ND		0.0388	0.00702	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dibromo-3-Chloropropane	ND		0.0775	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Dibromochloromethane	ND		0.0388	0.00612	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dibromoethane (EDB)	ND		0.0388	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Dibromomethane	ND		0.0388	0.00729	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dichlorobenzene	ND		0.0388	0.00698	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3-Dichlorobenzene	ND		0.0388	0.00965	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,4-Dichlorobenzene	ND		0.0388	0.00694	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Dichlorodifluoromethane (Freon 12)	ND		0.0775	0.0508	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1-Dichloroethane	ND		0.0388	0.00895	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dichloroethane	ND		0.0388	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1-Dichloroethene	ND		0.0388	0.00992	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
cis-1,2-Dichloroethene	ND		0.0388	0.0129	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
trans-1,2-Dichloroethene	ND		0.0388	0.00884	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2-Dichloropropane	ND		0.0388	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3-Dichloropropane	ND		0.0388	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2,2-Dichloropropane	ND		0.0388	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1-Dichloropropene	ND		0.0388	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
cis-1,3-Dichloropropene	ND		0.0388	0.00915	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
trans-1,3-Dichloropropene	ND		0.0388	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethylbenzene	ND		0.0388	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Hexachlorobutadiene	ND		0.0388	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
2-Hexanone (MBK)	ND		0.0775	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Isopropylbenzene	ND		0.0388	0.0141	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
4-Isopropyltoluene	ND		0.0388	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Methyl tert-butyl ether	ND		0.0388	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
4-Methyl-2-pentanone (MIBK)	ND		0.0775	0.0278	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Methylene Chloride	ND		0.0775	0.0331	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Naphthalene	ND		0.0388	0.0112	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0608'
Date Collected: 02/27/23 15:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-8
Matrix: Solid
Percent Solids: 97.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0388	0.00965	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Styrene	ND		0.0388	0.00512	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,1,2-Tetrachloroethane	ND		0.0388	0.00934	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,2,2-Tetrachloroethane	ND		0.0388	0.0123	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Tetrachloroethene	ND		0.0388	0.0122	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Toluene	ND		0.0388	0.00624	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,3-Trichlorobenzene	ND		0.0388	0.00903	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,4-Trichlorobenzene	ND		0.0388	0.00640	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3,5-Trichlorobenzene	ND		0.0388	0.00612	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,1-Trichloroethane	ND		0.0388	0.00938	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,1,2-Trichloroethane	ND		0.0388	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Trichloroethene	ND		0.0388	0.00663	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Trichlorofluoromethane (Freon 11)	ND		0.0388	0.0175	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,3-Trichloropropane	ND		0.0388	0.0179	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,2,4-Trimethylbenzene	ND		0.0388	0.00981	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3,5-Trimethylbenzene	ND		0.0388	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Vinyl chloride	ND		0.0388	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
m,p-Xylene	ND		0.0388	0.0228	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
o-Xylene	ND		0.0388	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Tetrahydrofuran	ND		0.0775	0.0283	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethyl ether	ND		0.0388	0.0105	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Tert-amyl methyl ether	ND		0.0388	0.0214	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethyl tert-butyl ether	ND		0.0388	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
di-Isopropyl ether	ND		0.0388	0.0125	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
tert-Butanol	ND		0.775	0.550	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,4-Dioxane	ND		0.775	0.228	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
trans-1,4-Dichloro-2-butene	ND		0.194	0.0256	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Ethanol	ND		7.75	0.667	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
1,3-Dichloropropene, Total	ND		0.0388	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1
Xylenes, Total	ND		0.116	0.116	mg/Kg	☼	03/07/23 12:57	03/07/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 19:51*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.332	0.0591	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,2,4-Trichlorobenzene	ND		0.332	0.0762	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,2-Dichlorobenzene	ND		0.332	0.0641	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,3-Dichlorobenzene	ND		0.332	0.0805	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1,4-Dichlorobenzene	ND		0.332	0.0783	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
1-Methylnaphthalene	ND		0.0672	0.0564	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4,5-Trichlorophenol	ND		0.332	0.0381	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4,6-Trichlorophenol	ND		0.168	0.0411	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4-Dichlorophenol	ND		0.168	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4-Dimethylphenol	ND		0.332	0.0488	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,4-Dinitrophenol	ND		0.332	0.0874	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0608'
Date Collected: 02/27/23 15:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-8
Matrix: Solid
Percent Solids: 97.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.168	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2,6-Dinitrotoluene	ND		0.168	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Chloronaphthalene	ND		0.332	0.0769	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Chlorophenol	ND		0.168	0.0688	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Methylnaphthalene	ND		0.0672	0.0497	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Methylphenol	ND		0.332	0.0486	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Nitroaniline	ND		0.332	0.0316	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
2-Nitrophenol	ND		0.168	0.0597	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
3 & 4 Methylphenol	ND		0.332	0.0630	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
3,3'-Dichlorobenzidine	ND		0.332	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
3-Nitroaniline	ND		0.332	0.0297	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4,6-Dinitro-2-methylphenol	ND		0.332	0.0597	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Bromophenyl phenyl ether	ND		0.332	0.0376	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Chloro-3-methylphenol	ND		0.332	0.0651	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Chloroaniline	ND		0.168	0.0255	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Chlorophenyl phenyl ether	ND		0.332	0.0356	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Nitroaniline	ND		0.168	0.0531	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
4-Nitrophenol	ND		0.332	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Acenaphthene	ND		0.0672	0.0536	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Acenaphthylene	ND		0.0672	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Acetophenone	ND		0.168	0.0410	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Aniline	ND		0.332	0.0255	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Anthracene	ND		0.0672	0.0389	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Azobenzene/Diphenyldiazene	ND		0.332	0.0567	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzidine	ND	*-	0.665	0.0984	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[a]anthracene	ND		0.0672	0.0378	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[a]pyrene	ND		0.0672	0.0481	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[b]fluoranthene	ND		0.0672	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[g,h,i]perylene	ND		0.0672	0.0525	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzo[k]fluoranthene	ND		0.0672	0.0523	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzoic acid	ND		0.332	0.229	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Benzyl alcohol	ND		0.332	0.0602	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Bis(2-chloroethoxy)methane	ND		0.332	0.0578	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Bis(2-chloroethyl)ether	ND		0.168	0.0550	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
bis (2-chloroisopropyl) ether	ND		0.168	0.0749	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Bis(2-ethylhexyl) phthalate	ND		0.168	0.0428	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Butyl benzyl phthalate	ND		0.332	0.0333	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Carbazole	ND		0.168	0.0440	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Chrysene	ND		0.0672	0.0380	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Dibenz(a,h)anthracene	ND		0.0672	0.0513	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Dibenzofuran	ND		0.168	0.0582	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Diethyl phthalate	ND		0.332	0.0365	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Dimethyl phthalate	ND		0.332	0.0433	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Di-n-butyl phthalate	ND		0.332	0.0356	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Di-n-octyl phthalate	ND		0.332	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Fluoranthene	ND		0.0672	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Fluorene	ND		0.0672	0.0614	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Hexachlorobenzene	ND		0.168	0.0466	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Hexachlorobutadiene	ND		0.168	0.0839	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.168	0.0643	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Hexachloroethane	ND		0.168	0.0661	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0672	0.0570	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Isophorone	ND		0.168	0.0460	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Naphthalene	ND		0.0672	0.0645	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Nitrobenzene	ND		0.168	0.0777	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
N-Nitrosodimethylamine	ND		0.168	0.0441	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
N-Nitrosodi-n-propylamine	ND		0.168	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
N-Nitrosodiphenylamine	ND		0.332	0.0424	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pentachloronitrobenzene	ND		0.332	0.0525	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pentachlorophenol	ND		0.332	0.136	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Phenanthrene	ND		0.0672	0.0381	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Phenol	ND		0.332	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pyrene	ND		0.0672	0.0371	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1
Pyridine	ND		0.332	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
Phenol-d5 (Surr)	*72*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:27*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:27*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.262	0.134	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.262	0.112	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Ethylbenzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Methyl tert-butyl ether	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Naphthalene	ND		0.0523	0.0356	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
o-Xylene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
Toluene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
C5-C8 Aliphatics (unadjusted)	ND		0.262	0.134	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
C9-C10 Aromatics	ND		0.262	0.0366	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1
C9-C12 Aliphatics (unadjusted)	ND		0.262	0.112	mg/Kg	☼	03/03/23 07:17	03/03/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:56*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/03/23 07:17*	*03/03/23 16:56*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0204	0.0147	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1221	ND		0.0204	0.00604	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1232	ND		0.0204	0.00566	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0204	0.00323	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1248	ND		0.0204	0.00639	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1254	ND		0.0204	0.0159	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1262	ND		0.0204	0.00476	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1260	ND		0.0204	0.00439	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1
PCB-1268	ND		0.0204	0.00435	mg/Kg	☼	03/02/23 12:19	03/08/23 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:23*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoroheptanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorononanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorodecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorotridecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorotetradecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorobutanesulfonic acid	ND		1.98	0.396	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorohexanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NEtFOSAA	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NMeFOSAA	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
10:2 FTS	ND		1.98	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoropentanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoroheptanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorononanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorodecanesulfonic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctanesulfonamide	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorohexadecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorooctadecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorobutanoic acid	ND		1.98	0.792	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoropentanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NMeFOSE	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NMeFOSA	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NEtFOSE	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
NEtFOSA	ND		1.98	0.495	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
HFPODA	ND		1.98	0.990	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
DONA	ND		2.97	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
9Cl-PF3ONS	ND		1.98	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
11Cl-PF3OUdS	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluorododecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
4:2 Fluorotelomer sulfonic acid	ND		1.98	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
Perfluoroundecanoic acid	ND		0.594	0.198	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.98	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1
8:2 Fluorotelomer sulfonic acid	ND		2.97	0.594	ug/Kg	☼	03/20/23 00:33	03/21/23 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*77*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
M2-8:2 FTS	*84*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
M2-6:2 FTS	*86*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C5 PFHxA	*82*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C4 PFHpA	*86*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C8 PFOA	*85*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C9 PFNA	*76*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C6 PFDA	*85*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C7 PFUnA	*88*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C2-PFDoDA	*89*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C2 PFTeDA	*87*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C3 PFBS	*121*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C3 PFHxS	*132*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C8 PFOS	*118*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d3-NMeFOSAA	*9*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C8 FOSA	*128*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C4 PFBA	*76*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C5 PFPeA	*73*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d7-N-MeFOSE-M	*123*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d3-NMePFOSA	*100*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d9-N-EtFOSE-M	*125*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
d5-NEtPFOSA	*101*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:19*	*1*
13C3 HFPO-DA	*104*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:19*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoroheptanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorononanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorodecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorotridecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorotetradecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorobutanesulfonic acid	ND		1.87	0.374	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorohexanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NEtFOSAA	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NMeFOSAA	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
10:2 FTS	ND		1.87	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoropentanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoroheptanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorononanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorodecanesulfonic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctanesulfonamide	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorooctadecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorobutanoic acid	ND		1.87	0.749	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoropentanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NMeFOSE	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NMeFOSA	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NEtFOSE	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
NEtFOSA	ND		1.87	0.468	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
HFPODA	ND		1.87	0.936	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
DONA	ND		2.81	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
9Cl-PF3ONS	ND		1.87	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
11Cl-PF3OUdS	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluorododecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
4:2 Fluorotelomer sulfonic acid	ND		1.87	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
Perfluoroundecanoic acid	ND		0.562	0.187	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
6:2 Fluorotelomer sulfonic acid	ND		1.87	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1
8:2 Fluorotelomer sulfonic acid	ND		2.81	0.562	ug/Kg	☼	03/03/23 07:14	03/15/23 01:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*43*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
M2-8:2 FTS	*53*		*15 - 200*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
M2-6:2 FTS	*51*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C5 PFHxA	*51*		*10 - 174*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C4 PFHpA	*53*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C8 PFOA	*54*		*26 - 159*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C9 PFNA	*53*		*26 - 165*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C6 PFDA	*51*		*26 - 161*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C7 PFUnA	*53*		*12 - 173*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C2-PFDoDA	*52*		*11 - 166*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C2 PFTeDA	*56*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C3 PFBS	*74*		*27 - 179*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C3 PFHxS	*77*		*24 - 171*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C8 PFOS	*81*		*41 - 154*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d3-NMeFOSAA	*7*	**5-*	*10 - 178*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d5-NEtFOSAA	*9*	**5-*	*10 - 193*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C8 FOSA	*100*		*14 - 163*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C4 PFBA	*48*		*28 - 153*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C5 PFPeA	*50*		*24 - 161*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:14*	*03/15/23 01:30*	*1*
13C3 HFPO-DA	*59*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.48	1.52	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Arsenic	**2.21**	**J**	2.69	1.25	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Barium	**11.9**		0.448	0.134	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Beryllium	**0.244**	**J**	0.448	0.0895	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0608' **Lab Sample ID: 620-10051-8**
Date Collected: 02/27/23 15:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.1**

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.448	0.0895	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Chromium	**4.17**		1.34	0.313	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Lead	**2.80**		1.34	0.537	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Nickel	**1.95**		0.895	0.233	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Selenium	ND		4.48	1.34	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Silver	ND	^3+	0.895	0.358	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Thallium	ND		2.69	1.16	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Vanadium	**5.17**		0.895	0.385	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1
Zinc	**9.08**	**^5-**	1.79	0.716	mg/Kg	☼	03/05/23 19:57	03/08/23 20:11	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0588	0.0196	mg/Kg	☼	03/05/23 20:31	03/06/23 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.9**		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	**97.1**		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0810'
Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9
Matrix: Solid
Percent Solids: 92.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0513	0.0281	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Acetone	ND		0.513	0.0646	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Acrylonitrile	ND		0.0513	0.0185	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Benzene	ND		0.0513	0.00821	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromobenzene	ND		0.0513	0.0116	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromochloromethane	ND		0.0513	0.00733	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromodichloromethane	ND		0.0513	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromoform	ND		0.0513	0.0110	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Bromomethane	ND		0.103	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2-Butanone (MEK)	ND		0.103	0.0234	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
n-Butylbenzene	ND		0.0513	0.0205	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
sec-Butylbenzene	ND		0.0513	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
tert-Butylbenzene	ND		0.0513	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Carbon disulfide	ND		0.103	0.0190	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Carbon tetrachloride	ND		0.0513	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chlorobenzene	ND		0.0513	0.00621	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chloroethane	ND		0.103	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chloroform	ND		0.0513	0.00605	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Chloromethane	ND		0.103	0.0610	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2-Chlorotoluene	ND		0.0513	0.0127	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
4-Chlorotoluene	ND		0.0513	0.00928	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dibromo-3-Chloropropane	ND		0.103	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Dibromochloromethane	ND		0.0513	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dibromoethane (EDB)	ND		0.0513	0.0140	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Dibromomethane	ND		0.0513	0.00964	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dichlorobenzene	ND		0.0513	0.00923	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3-Dichlorobenzene	ND		0.0513	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,4-Dichlorobenzene	ND		0.0513	0.00918	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Dichlorodifluoromethane (Freon 12)	ND		0.103	0.0672	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1-Dichloroethane	ND		0.0513	0.0118	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dichloroethane	ND		0.0513	0.0134	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1-Dichloroethene	ND		0.0513	0.0131	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
cis-1,2-Dichloroethene	ND		0.0513	0.0171	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
trans-1,2-Dichloroethene	ND		0.0513	0.0117	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2-Dichloropropane	ND		0.0513	0.0178	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3-Dichloropropane	ND		0.0513	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2,2-Dichloropropane	ND		0.0513	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1-Dichloropropene	ND		0.0513	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
cis-1,3-Dichloropropene	ND		0.0513	0.0121	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
trans-1,3-Dichloropropene	ND		0.0513	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethylbenzene	ND		0.0513	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Hexachlorobutadiene	ND		0.0513	0.0164	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
2-Hexanone (MBK)	ND		0.103	0.0341	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Isopropylbenzene	ND		0.0513	0.0186	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
4-Isopropyltoluene	ND		0.0513	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Methyl tert-butyl ether	ND		0.0513	0.0154	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.103	0.0367	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Methylene Chloride	ND		0.103	0.0438	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Naphthalene	ND		0.0513	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1

Client Sample ID: 2023-MW-02-0810'
Lab Sample ID: 620-10051-9
Date Collected: 02/27/23 15:20
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 92.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0513	0.0128	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Styrene	ND		0.0513	0.00677	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,1,2-Tetrachloroethane	ND		0.0513	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,2,2-Tetrachloroethane	ND		0.0513	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Tetrachloroethene	ND		0.0513	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Toluene	ND		0.0513	0.00826	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,3-Trichlorobenzene	ND		0.0513	0.0120	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,4-Trichlorobenzene	ND		0.0513	0.00846	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3,5-Trichlorobenzene	ND		0.0513	0.00810	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,1-Trichloroethane	ND		0.0513	0.0124	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,1,2-Trichloroethane	ND		0.0513	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Trichloroethene	ND		0.0513	0.00877	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Trichlorofluoromethane (Freon 11)	ND		0.0513	0.0232	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,3-Trichloropropane	ND		0.0513	0.0236	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,2,4-Trimethylbenzene	ND		0.0513	0.0130	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3,5-Trimethylbenzene	ND		0.0513	0.0107	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Vinyl chloride	ND		0.0513	0.0252	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
m,p-Xylene	ND		0.0513	0.0302	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
o-Xylene	ND		0.0513	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Tetrahydrofuran	ND		0.103	0.0375	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethyl ether	ND		0.0513	0.0139	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Tert-amyl methyl ether	ND		0.0513	0.0284	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethyl tert-butyl ether	ND		0.0513	0.0142	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
di-Isopropyl ether	ND		0.0513	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
tert-Butanol	ND		1.03	0.728	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,4-Dioxane	ND		1.03	0.302	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
trans-1,4-Dichloro-2-butene	ND		0.256	0.0339	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Ethanol	ND		10.3	0.882	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
1,3-Dichloropropene, Total	ND		0.0513	0.0209	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1
Xylenes, Total	ND		0.154	0.154	mg/Kg	☼	03/07/23 12:57	03/07/23 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:17*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.354	0.0630	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,2,4-Trichlorobenzene	ND		0.354	0.0811	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,2-Dichlorobenzene	ND		0.354	0.0682	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,3-Dichlorobenzene	ND		0.354	0.0857	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1,4-Dichlorobenzene	ND		0.354	0.0834	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
1-Methylnaphthalene	ND		0.0716	0.0601	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4,5-Trichlorophenol	ND		0.354	0.0406	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4,6-Trichlorophenol	ND		0.179	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4-Dichlorophenol	ND		0.179	0.0714	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4-Dimethylphenol	ND		0.354	0.0519	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,4-Dinitrophenol	ND		0.354	0.0931	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0810'
Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9
Matrix: Solid
Percent Solids: 92.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2,6-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Chloronaphthalene	ND		0.354	0.0819	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Chlorophenol	ND		0.179	0.0733	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Methylnaphthalene	ND		0.0716	0.0529	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Methylphenol	ND		0.354	0.0517	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Nitroaniline	ND		0.354	0.0337	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
2-Nitrophenol	ND		0.179	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
3 & 4 Methylphenol	ND		0.354	0.0671	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
3,3'-Dichlorobenzidine	ND		0.354	0.0585	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
3-Nitroaniline	ND		0.354	0.0317	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4,6-Dinitro-2-methylphenol	ND		0.354	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Bromophenyl phenyl ether	ND		0.354	0.0400	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Chloro-3-methylphenol	ND		0.354	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Chlorophenyl phenyl ether	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Nitroaniline	ND		0.179	0.0566	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
4-Nitrophenol	ND		0.354	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Acenaphthene	ND		0.0716	0.0571	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Acenaphthylene	ND		0.0716	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Acetophenone	ND		0.179	0.0437	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Aniline	ND		0.354	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Anthracene	ND		0.0716	0.0414	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Azobenzene/Diphenyldiazene	ND		0.354	0.0604	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzidine	ND	*-	0.708	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[a]anthracene	ND		0.0716	0.0402	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[a]pyrene	ND		0.0716	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[b]fluoranthene	ND		0.0716	0.0593	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[g,h,i]perylene	ND		0.0716	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzo[k]fluoranthene	ND		0.0716	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzoic acid	ND		0.354	0.244	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Benzyl alcohol	ND		0.354	0.0642	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Bis(2-chloroethoxy)methane	ND		0.354	0.0616	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Bis(2-chloroethyl)ether	ND		0.179	0.0586	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Bis(2-ethylhexyl) phthalate	ND		0.179	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Butyl benzyl phthalate	ND		0.354	0.0355	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Carbazole	ND		0.179	0.0469	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Chrysene	ND		0.0716	0.0405	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Dibenz(a,h)anthracene	ND		0.0716	0.0546	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Dibenzofuran	ND		0.179	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Diethyl phthalate	ND		0.354	0.0388	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Dimethyl phthalate	ND		0.354	0.0461	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Di-n-butyl phthalate	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Di-n-octyl phthalate	ND		0.354	0.0585	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Fluoranthene	ND		0.0716	0.0420	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Fluorene	ND		0.0716	0.0654	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Hexachlorobenzene	ND		0.179	0.0497	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Hexachlorobutadiene	ND		0.179	0.0894	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1

Client Sample ID: 2023-MW-02-0810' **Lab Sample ID: 620-10051-9**
Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Hexachloroethane	ND		0.179	0.0704	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0716	0.0607	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Isophorone	ND		0.179	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Naphthalene	ND		0.0716	0.0687	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Nitrobenzene	ND		0.179	0.0827	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
N-Nitrosodimethylamine	ND		0.179	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0714	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
N-Nitrosodiphenylamine	ND		0.354	0.0452	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pentachloronitrobenzene	ND		0.354	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pentachlorophenol	ND		0.354	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Phenanthrene	ND		0.0716	0.0406	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Phenol	ND		0.354	0.0730	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pyrene	ND		0.0716	0.0395	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1
Pyridine	ND		0.354	0.0838	mg/Kg	☼	03/03/23 08:01	03/08/23 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/03/23 08:01*	*03/08/23 15:56*	*1*
Terphenyl-d14	*71*		*30 - 130*	*03/03/23 08:01*	*03/08/23 15:56*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Ethylbenzene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Methyl tert-butyl ether	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Naphthalene	ND		0.0521	0.0354	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
o-Xylene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
Toluene	ND		0.0521	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
C9-C10 Aromatics	ND		0.260	0.0365	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/03/23 07:17	03/03/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 17:36*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/03/23 07:17*	*03/03/23 17:36*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0215	0.0155	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1221	ND		0.0215	0.00635	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1232	ND		0.0215	0.00595	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1

Client Sample ID: 2023-MW-02-0810' **Lab Sample ID: 620-10051-9**
Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0215	0.00339	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1248	ND		0.0215	0.00671	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1254	ND		0.0215	0.0167	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1262	ND		0.0215	0.00501	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1260	ND		0.0215	0.00462	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1
PCB-1268	ND		0.0215	0.00458	mg/Kg	☼	03/02/23 12:19	03/03/23 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:05*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoroheptanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorononanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorodecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorotridecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorotetradecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorobutanesulfonic acid	ND		2.00	0.401	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorohexanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NEtFOSAA	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NMeFOSAA	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
10:2 FTS	ND		2.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoropentanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoroheptanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorononanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorodecanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctanesulfonamide	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorohexadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorooctadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorobutanoic acid	ND		2.00	0.801	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoropentanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NMeFOSE	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NMeFOSA	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NEtFOSE	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
NEtFOSA	ND		2.00	0.501	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
HFPODA	ND		2.00	1.00	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
DONA	ND		3.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
11Cl-PF3OUdS	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluorododecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
Perfluoroundecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1

Client Sample ID: 2023-MW-02-0810'
Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9
Matrix: Solid
Percent Solids: 92.5

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.601	ug/Kg	☼	03/03/23 07:14	03/15/23 01:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*34*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
M2-6:2 FTS	*38*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C5 PFHxA	*47*		*10 - 174*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C4 PFHpA	*49*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C8 PFOA	*47*		*26 - 159*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C9 PFNA	*46*		*26 - 165*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C6 PFDA	*49*		*26 - 161*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C7 PFUnA	*53*		*12 - 173*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C2-PFDoDA	*50*		*11 - 166*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C2 PFTeDA	*53*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C3 PFBS	*67*		*27 - 179*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C3 PFHxS	*72*		*24 - 171*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C8 PFOS	*76*		*41 - 154*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d3-NMeFOSAA	*4*	*5-	*10 - 178*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d5-NEtFOSAA	*5*	*5-	*10 - 193*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C4 PFBA	*42*		*28 - 153*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C5 PFPeA	*42*		*24 - 161*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d7-N-MeFOSE-M	*92*		*10 - 179*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:14*	*03/15/23 01:42*	*1*
13C3 HFPO-DA	*56*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoroheptanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorononanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorodecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorotridecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorotetradecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorobutanesulfonic acid	ND		2.00	0.401	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorohexanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NEtFOSAA	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NMeFOSAA	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
10:2 FTS	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoropentanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoroheptanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorononanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorodecanesulfonic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctanesulfonamide	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1

Client Sample ID: 2023-MW-02-0810' **Lab Sample ID: 620-10051-9**
Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorooctadecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorobutanoic acid	ND		2.00	0.801	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoropentanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NMeFOSE	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NMeFOSA	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NEtFOSE	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
NEtFOSA	ND		2.00	0.501	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
HFPODA	ND		2.00	1.00	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
DONA	ND		3.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
11Cl-PF3OUdS	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluorododecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
Perfluoroundecanoic acid	ND		0.601	0.200	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.601	ug/Kg	☼	03/20/23 00:33	03/21/23 04:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*50*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
M2-8:2 FTS	*56*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
M2-6:2 FTS	*55*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C5 PFHxA	*66*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C4 PFHpA	*67*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C8 PFOA	*67*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C9 PFNA	*62*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C6 PFDA	*66*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C7 PFUnA	*67*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C2-PFDoDA	*63*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C2 PFTeDA	*68*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C3 PFBS	*102*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C8 FOSA	*118*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C4 PFBA	*58*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C5 PFPeA	*55*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d7-N-MeFOSE-M	*110*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d3-NMePFOSA	*60*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
d5-NEtPFOSA	*64*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:30*	*1*
13C3 HFPO-DA	*67*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.74	1.61	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Arsenic	**2.61**	**J**	2.85	1.33	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Barium	**13.6**		0.474	0.142	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Beryllium	**0.242**	**J**	0.474	0.0949	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0810'

Date Collected: 02/27/23 15:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-9

Matrix: Solid
Percent Solids: 92.5

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.474	0.0949	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Chromium	**4.15**		1.42	0.332	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Lead	**2.09**		1.42	0.569	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Nickel	**1.71**		0.949	0.247	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Selenium	ND		4.74	1.42	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Silver	ND	^3+	0.949	0.379	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Thallium	ND		2.85	1.23	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Vanadium	**4.91**		0.949	0.408	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1
Zinc	**7.71**	**^5-**	1.90	0.759	mg/Kg	☼	03/05/23 19:57	03/08/23 20:08	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0608	0.0203	mg/Kg	☼	03/05/23 20:11	03/06/23 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.5**		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	**92.5**		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-1012'
Date Collected: 02/27/23 15:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-10
Matrix: Solid
Percent Solids: 79.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0633	0.0347	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Acetone	ND		0.633	0.0798	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Acrylonitrile	ND		0.0633	0.0229	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Benzene	ND		0.0633	0.0101	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromobenzene	ND		0.0633	0.0143	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromochloromethane	ND		0.0633	0.00905	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromodichloromethane	ND		0.0633	0.0163	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromoform	ND		0.0633	0.0135	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Bromomethane	ND		0.127	0.0313	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2-Butanone (MEK)	ND		0.127	0.0289	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
n-Butylbenzene	ND		0.0633	0.0253	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
sec-Butylbenzene	ND		0.0633	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
tert-Butylbenzene	ND		0.0633	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Carbon disulfide	ND		0.127	0.0234	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Carbon tetrachloride	ND		0.0633	0.0189	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chlorobenzene	ND		0.0633	0.00766	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chloroethane	ND		0.127	0.0282	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chloroform	ND		0.0633	0.00747	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Chloromethane	ND		0.127	0.0753	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2-Chlorotoluene	ND		0.0633	0.0157	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
4-Chlorotoluene	ND		0.0633	0.0115	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dibromo-3-Chloropropane	ND		0.127	0.0250	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Dibromochloromethane	ND		0.0633	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dibromoethane (EDB)	ND		0.0633	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Dibromomethane	ND		0.0633	0.0119	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dichlorobenzene	ND		0.0633	0.0114	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3-Dichlorobenzene	ND		0.0633	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,4-Dichlorobenzene	ND		0.0633	0.0113	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Dichlorodifluoromethane (Freon 12)	ND		0.127	0.0829	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1-Dichloroethane	ND		0.0633	0.0146	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dichloroethane	ND		0.0633	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1-Dichloroethene	ND		0.0633	0.0162	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
cis-1,2-Dichloroethene	ND		0.0633	0.0211	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
trans-1,2-Dichloroethene	ND		0.0633	0.0144	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2-Dichloropropane	ND		0.0633	0.0220	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3-Dichloropropane	ND		0.0633	0.0200	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2,2-Dichloropropane	ND		0.0633	0.0166	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1-Dichloropropene	ND		0.0633	0.0194	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
cis-1,3-Dichloropropene	ND		0.0633	0.0149	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
trans-1,3-Dichloropropene	ND		0.0633	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethylbenzene	ND		0.0633	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Hexachlorobutadiene	ND		0.0633	0.0203	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
2-Hexanone (MBK)	ND		0.127	0.0421	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Isopropylbenzene	ND		0.0633	0.0230	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
4-Isopropyltoluene	ND		0.0633	0.0175	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Methyl tert-butyl ether	ND		0.0633	0.0191	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
4-Methyl-2-pentanone (MIBK)	ND		0.127	0.0453	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Methylene Chloride	ND		0.127	0.0541	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Naphthalene	ND		0.0633	0.0184	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0633	0.0158	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Styrene	ND		0.0633	0.00836	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,1,2-Tetrachloroethane	ND		0.0633	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,2,2-Tetrachloroethane	ND		0.0633	0.0201	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Tetrachloroethene	ND		0.0633	0.0199	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Toluene	ND		0.0633	0.0102	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,3-Trichlorobenzene	ND		0.0633	0.0147	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,4-Trichlorobenzene	ND		0.0633	0.0104	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3,5-Trichlorobenzene	ND		0.0633	0.0100	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,1-Trichloroethane	ND		0.0633	0.0153	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,1,2-Trichloroethane	ND		0.0633	0.0196	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Trichloroethene	ND		0.0633	0.0108	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Trichlorofluoromethane (Freon 11)	ND		0.0633	0.0286	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,3-Trichloropropane	ND		0.0633	0.0292	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,2,4-Trimethylbenzene	ND		0.0633	0.0160	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3,5-Trimethylbenzene	ND		0.0633	0.0132	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Vinyl chloride	ND		0.0633	0.0311	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
m,p-Xylene	ND		0.0633	0.0372	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
o-Xylene	ND		0.0633	0.0195	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Tetrahydrofuran	ND		0.127	0.0463	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethyl ether	ND		0.0633	0.0172	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Tert-amyl methyl ether	ND		0.0633	0.0350	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethyl tert-butyl ether	ND		0.0633	0.0175	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
di-Isopropyl ether	ND		0.0633	0.0204	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
tert-Butanol	ND		1.27	0.899	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,4-Dioxane	ND		1.27	0.373	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
trans-1,4-Dichloro-2-butene	ND		0.317	0.0418	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Ethanol	ND		12.7	1.09	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
1,3-Dichloropropene, Total	ND		0.0633	0.0258	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1
Xylenes, Total	ND		0.190	0.190	mg/Kg	☼	03/07/23 12:57	03/07/23 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/07/23 12:57*	*03/07/23 20:42*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.414	0.0736	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,2,4-Trichlorobenzene	ND		0.414	0.0948	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,2-Dichlorobenzene	ND		0.414	0.0798	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,3-Dichlorobenzene	ND		0.414	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1,4-Dichlorobenzene	ND		0.414	0.0974	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
1-Methylnaphthalene	ND		0.0836	0.0702	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4,5-Trichlorophenol	ND		0.414	0.0474	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4,6-Trichlorophenol	ND		0.209	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4-Dichlorophenol	ND		0.209	0.0834	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4-Dimethylphenol	ND		0.414	0.0607	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,4-Dinitrophenol	ND		0.414	0.109	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-1012'
Date Collected: 02/27/23 15:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-10
Matrix: Solid
Percent Solids: 79.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2,6-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Chloronaphthalene	ND		0.414	0.0957	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Chlorophenol	ND		0.209	0.0857	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Methylnaphthalene	ND		0.0836	0.0618	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Methylphenol	ND		0.414	0.0604	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Nitroaniline	ND		0.414	0.0394	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
2-Nitrophenol	ND		0.209	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
3 & 4 Methylphenol	ND		0.414	0.0784	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
3,3'-Dichlorobenzidine	ND		0.414	0.0683	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
3-Nitroaniline	ND		0.414	0.0370	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4,6-Dinitro-2-methylphenol	ND		0.414	0.0744	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Bromophenyl phenyl ether	ND		0.414	0.0468	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Chloro-3-methylphenol	ND		0.414	0.0810	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Chloroaniline	ND		0.209	0.0317	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Chlorophenyl phenyl ether	ND		0.414	0.0443	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Nitroaniline	ND		0.209	0.0661	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
4-Nitrophenol	ND		0.414	0.144	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Acenaphthene	ND		0.0836	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Acenaphthylene	ND		0.0836	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Acetophenone	ND		0.209	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Aniline	ND		0.414	0.0317	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Anthracene	ND		0.0836	0.0484	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Azobenzene/Diphenyldiazene	ND		0.414	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzidine	ND	*-	0.828	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[a]anthracene	ND		0.0836	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[a]pyrene	ND		0.0836	0.0598	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[b]fluoranthene	ND		0.0836	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[g,h,i]perylene	ND		0.0836	0.0653	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzo[k]fluoranthene	ND		0.0836	0.0651	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzoic acid	ND		0.414	0.285	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Benzyl alcohol	ND		0.414	0.0750	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Bis(2-chloroethoxy)methane	ND		0.414	0.0720	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Bis(2-chloroethyl)ether	ND		0.209	0.0685	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
bis (2-chloroisopropyl) ether	ND		0.209	0.0932	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Bis(2-ethylhexyl) phthalate	ND		0.209	0.0533	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Butyl benzyl phthalate	ND		0.414	0.0415	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Carbazole	ND		0.209	0.0548	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Chrysene	ND		0.0836	0.0473	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Dibenz(a,h)anthracene	ND		0.0836	0.0638	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Dibenzofuran	ND		0.209	0.0725	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Diethyl phthalate	ND		0.414	0.0454	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Dimethyl phthalate	ND		0.414	0.0539	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Di-n-butyl phthalate	ND		0.414	0.0443	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Di-n-octyl phthalate	ND		0.414	0.0683	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Fluoranthene	ND		0.0836	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Fluorene	ND		0.0836	0.0764	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Hexachlorobenzene	ND		0.209	0.0581	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Hexachlorobutadiene	ND		0.209	0.104	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.209	0.0800	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Hexachloroethane	ND		0.209	0.0823	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0836	0.0710	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Isophorone	ND		0.209	0.0573	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Naphthalene	ND		0.0836	0.0803	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Nitrobenzene	ND		0.209	0.0967	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
N-Nitrosodimethylamine	ND		0.209	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
N-Nitrosodi-n-propylamine	ND		0.209	0.0834	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
N-Nitrosodiphenylamine	ND		0.414	0.0528	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pentachloronitrobenzene	ND		0.414	0.0653	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pentachlorophenol	ND		0.414	0.169	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Phenanthrene	ND		0.0836	0.0474	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Phenol	ND		0.414	0.0853	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pyrene	ND		0.0836	0.0461	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1
Pyridine	ND		0.414	0.0979	mg/Kg	☼	03/03/23 08:01	03/08/23 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:24*	*1*
Terphenyl-d14	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:24*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.344	0.176	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.344	0.147	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Ethylbenzene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Methyl tert-butyl ether	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
m,p-Xylene	ND		0.138	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Naphthalene	**0.0743**	**B**	0.0688	0.0468	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
o-Xylene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
Toluene	ND		0.0688	0.0138	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
C5-C8 Aliphatics (unadjusted)	ND		0.344	0.176	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
C9-C10 Aromatics	**0.0866**	**J**	0.344	0.0482	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1
C9-C12 Aliphatics (unadjusted)	**0.178**	**J**	0.344	0.147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:15*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:15*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0248	0.0179	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1221	ND		0.0248	0.00734	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1232	ND		0.0248	0.00688	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1

Client Sample ID: 2023-MW-02-1012'
Date Collected: 02/27/23 15:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-10
Matrix: Solid
Percent Solids: 79.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0248	0.00393	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1248	ND		0.0248	0.00777	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1254	ND		0.0248	0.0193	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1262	ND		0.0248	0.00579	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1260	ND		0.0248	0.00534	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1
PCB-1268	ND		0.0248	0.00529	mg/Kg	☼	03/02/23 12:19	03/03/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:24*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoroheptanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorononanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorodecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorotridecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorotetradecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorobutanesulfonic acid	ND		2.33	0.467	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorohexanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NEtFOSAA	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NMeFOSAA	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
10:2 FTS	ND		2.33	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoropentanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoroheptanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorononanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorodecanesulfonic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctanesulfonamide	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorohexadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorooctadecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorobutanoic acid	ND		2.33	0.934	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoropentanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NMeFOSE	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NMeFOSA	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NEtFOSE	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
NEtFOSA	ND		2.33	0.584	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
HFPODA	ND		2.33	1.17	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
DONA	ND		3.50	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
9Cl-PF3ONS	ND		2.33	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
11Cl-PF3OUdS	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluorododecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
4:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
Perfluoroundecanoic acid	ND		0.700	0.233	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.33	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1
8:2 Fluorotelomer sulfonic acid	ND		3.50	0.700	ug/Kg	☼	03/03/23 07:14	03/15/23 01:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*91*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
M2-8:2 FTS	*98*		*15 - 200*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
M2-6:2 FTS	*100*		*10 - 200*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C5 PFHxA	*104*		*10 - 174*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C4 PFHpA	*104*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C8 PFOA	*101*		*26 - 159*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C9 PFNA	*98*		*26 - 165*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C6 PFDA	*96*		*26 - 161*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C7 PFUnA	*101*		*12 - 173*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C2 PFTeDA	*100*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C3 PFBS	*97*		*27 - 179*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C3 PFHxS	*102*		*24 - 171*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C8 PFOS	*95*		*41 - 154*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d3-NMeFOSAA	*44*		*10 - 178*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d5-NEtFOSAA	*47*		*10 - 193*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C8 FOSA	*89*		*14 - 163*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C4 PFBA	*96*		*28 - 153*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C5 PFPeA	*95*		*24 - 161*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d3-NMePFOSA	*68*		*10 - 175*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
d5-NEtPFOSA	*68*		*10 - 180*	*03/03/23 07:14*	*03/15/23 01:53*	*1*
13C3 HFPO-DA	*90*		*10 - 169*	*03/03/23 07:14*	*03/15/23 01:53*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.53	1.88	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Arsenic	**2.30**	**J**	3.32	1.55	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Barium	**24.8**		0.553	0.166	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Beryllium	**0.294**	**J**	0.553	0.111	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Cadmium	ND		0.553	0.111	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Chromium	**6.05**		1.66	0.387	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Lead	**3.21**		1.66	0.664	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Nickel	**3.37**		1.11	0.288	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Selenium	ND		5.53	1.66	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Silver	ND	^3+	1.11	0.442	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Thallium	ND		3.32	1.44	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Vanadium	**9.15**		1.11	0.476	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1
Zinc	**13.9**	**^5-**	2.21	0.885	mg/Kg	☼	03/05/23 19:57	03/08/23 19:46	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0709	0.0236	mg/Kg	☼	03/05/23 20:11	03/06/23 13:12	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-1012' **Lab Sample ID: 620-10051-10**
Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	79.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'
Date Collected: 03/01/23 08:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-11
Matrix: Solid
Percent Solids: 93.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00449	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Acetone	ND		0.0449	0.0101	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Acrylonitrile	ND		0.00449	0.00269	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Benzene	ND		0.00449	0.00300	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromobenzene	ND		0.00449	0.00299	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromochloromethane	ND		0.00449	0.00255	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromodichloromethane	ND		0.00449	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromoform	ND		0.00449	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Bromomethane	ND		0.00898	0.00559	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2-Butanone (MEK)	ND		0.00898	0.00357	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
n-Butylbenzene	ND		0.00898	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
sec-Butylbenzene	ND		0.00449	0.00362	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
tert-Butylbenzene	ND		0.00449	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Carbon disulfide	ND		0.00898	0.00315	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Carbon tetrachloride	ND		0.00449	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chlorobenzene	ND		0.00449	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chloroethane	ND		0.00898	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chloroform	ND		0.00449	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Chloromethane	ND		0.00898	0.00345	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2-Chlorotoluene	ND		0.00449	0.00357	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
4-Chlorotoluene	ND		0.00449	0.00390	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00898	0.00381	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Dibromochloromethane	ND		0.00449	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dibromoethane (EDB)	ND		0.00449	0.00322	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Dibromomethane	ND		0.00449	0.00264	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dichlorobenzene	ND		0.00449	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3-Dichlorobenzene	ND		0.00449	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,4-Dichlorobenzene	ND		0.00449	0.00426	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00898	0.00241	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1-Dichloroethane	ND		0.00449	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dichloroethane	ND		0.00449	0.00303	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1-Dichloroethene	ND		0.00449	0.00275	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
cis-1,2-Dichloroethene	ND		0.00449	0.00260	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
trans-1,2-Dichloroethene	ND		0.00449	0.00279	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2-Dichloropropane	ND		0.00449	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3-Dichloropropane	ND		0.00449	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2,2-Dichloropropane	ND		0.00449	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1-Dichloropropene	ND		0.00449	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
cis-1,3-Dichloropropene	ND		0.00449	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
trans-1,3-Dichloropropene	ND		0.00449	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethylbenzene	ND		0.00449	0.00321	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Hexachlorobutadiene	ND		0.00898	0.00452	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
2-Hexanone (MBK)	ND		0.00898	0.00264	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Isopropylbenzene	ND		0.00449	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
4-Isopropyltoluene	ND		0.00449	0.00441	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Methyl tert-butyl ether	ND		0.00449	0.00259	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00898	0.00290	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Methylene Chloride	ND		0.00898	0.00241	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Naphthalene	ND		0.00449	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Styrene	ND		0.00449	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,1,2-Tetrachloroethane	ND		0.00449	0.00337	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,2,2-Tetrachloroethane	ND		0.00449	0.00411	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Tetrachloroethene	ND		0.00449	0.00250	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Toluene	ND		0.00449	0.00285	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,3-Trichlorobenzene	ND		0.00449	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,4-Trichlorobenzene	ND		0.00449	0.00414	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3,5-Trichlorobenzene	ND		0.00449	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,1-Trichloroethane	ND		0.00449	0.00306	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,1,2-Trichloroethane	ND		0.00449	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Trichloroethene	ND		0.00449	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00449	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,3-Trichloropropane	ND		0.00449	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,2,4-Trimethylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3,5-Trimethylbenzene	ND		0.00449	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Vinyl chloride	ND		0.00449	0.00274	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
m,p-Xylene	ND		0.00449	0.00613	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
o-Xylene	ND		0.00449	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Tetrahydrofuran	ND		0.00898	0.00227	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethyl ether	ND		0.00449	0.00236	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Tert-amyl methyl ether	ND		0.00449	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethyl tert-butyl ether	ND		0.00449	0.00295	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
di-Isopropyl ether	ND		0.00449	0.00321	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
tert-Butanol	ND		0.0898	0.0241	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,4-Dioxane	ND		0.0898	0.0279	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
trans-1,4-Dichloro-2-butene	ND		0.0225	0.00331	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Ethanol	ND		0.898	0.0557	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
1,3-Dichloropropene, Total	ND		0.00449	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1
Xylenes, Total	ND		0.0135	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.689	0.123	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,2,4-Trichlorobenzene	ND		0.689	0.158	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,2-Dichlorobenzene	ND		0.689	0.133	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,3-Dichlorobenzene	ND		0.689	0.167	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1,4-Dichlorobenzene	ND		0.689	0.162	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
1-Methylnaphthalene	ND		0.139	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4,5-Trichlorophenol	ND		0.689	0.0790	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4,6-Trichlorophenol	ND		0.349	0.0852	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4-Dichlorophenol	ND		0.349	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4-Dimethylphenol	ND		0.689	0.101	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,4-Dinitrophenol	ND		0.689	0.181	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'
Date Collected: 03/01/23 08:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-11
Matrix: Solid
Percent Solids: 93.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.349	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2,6-Dinitrotoluene	ND		0.349	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Chloronaphthalene	ND		0.689	0.159	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Chlorophenol	ND		0.349	0.143	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Methylnaphthalene	ND		0.139	0.103	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Methylphenol	ND		0.689	0.101	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Nitroaniline	ND		0.689	0.0656	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
2-Nitrophenol	ND		0.349	0.124	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
3 & 4 Methylphenol	ND		0.689	0.131	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
3,3'-Dichlorobenzidine	ND		0.689	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
3-Nitroaniline	ND		0.689	0.0616	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4,6-Dinitro-2-methylphenol	ND		0.689	0.124	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Bromophenyl phenyl ether	ND		0.689	0.0779	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Chloro-3-methylphenol	ND		0.689	0.135	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Chloroaniline	ND		0.349	0.0529	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Chlorophenyl phenyl ether	ND		0.689	0.0737	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Nitroaniline	ND		0.349	0.110	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
4-Nitrophenol	ND		0.689	0.240	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Acenaphthene	ND		0.139	0.111	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Acenaphthylene	ND		0.139	0.0915	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Acetophenone	ND		0.349	0.0850	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Aniline	ND		0.689	0.0529	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Anthracene	ND		0.139	0.0806	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Azobenzene/Diphenyldiazene	ND		0.689	0.118	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzidine	ND	*-	1.38	0.204	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[a]anthracene	ND		0.139	0.0783	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[a]pyrene	ND		0.139	0.0997	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[b]fluoranthene	ND		0.139	0.116	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[g,h,i]perylene	ND		0.139	0.109	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzo[k]fluoranthene	ND		0.139	0.108	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzoic acid	ND		0.689	0.474	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Benzyl alcohol	ND		0.689	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Bis(2-chloroethoxy)methane	ND		0.689	0.120	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Bis(2-chloroethyl)ether	ND		0.349	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
bis (2-chloroisopropyl) ether	ND		0.349	0.155	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Bis(2-ethylhexyl) phthalate	**1.11**		0.349	0.0888	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Butyl benzyl phthalate	ND		0.689	0.0692	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Carbazole	ND		0.349	0.0913	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Chrysene	ND		0.139	0.0788	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Dibenz(a,h)anthracene	ND		0.139	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Dibenzofuran	ND		0.349	0.121	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Diethyl phthalate	ND		0.689	0.0756	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Dimethyl phthalate	ND		0.689	0.0898	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Di-n-butyl phthalate	ND		0.689	0.0737	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Di-n-octyl phthalate	ND		0.689	0.114	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Fluoranthene	ND		0.139	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Fluorene	ND		0.139	0.127	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Hexachlorobenzene	ND		0.349	0.0967	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Hexachlorobutadiene	ND		0.349	0.174	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.349	0.133	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Hexachloroethane	ND		0.349	0.137	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Indeno[1,2,3-cd]pyrene	ND		0.139	0.118	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Isophorone	ND		0.349	0.0955	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Naphthalene	ND		0.139	0.134	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Nitrobenzene	ND		0.349	0.161	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
N-Nitrosodimethylamine	ND		0.349	0.0915	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
N-Nitrosodi-n-propylamine	ND		0.349	0.139	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
N-Nitrosodiphenylamine	ND		0.689	0.0880	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pentachloronitrobenzene	ND		0.689	0.109	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pentachlorophenol	ND		0.689	0.282	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Phenanthrene	ND		0.139	0.0790	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Phenol	ND		0.689	0.142	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pyrene	ND		0.139	0.0769	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1
Pyridine	ND		0.689	0.163	mg/Kg	☼	03/03/23 08:01	03/09/23 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
Phenol-d5 (Surr)	*75*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
2,4,6-Tribromophenol (Surr)	*110*		*15 - 110*	*03/03/23 08:01*	*03/09/23 16:14*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/03/23 08:01*	*03/09/23 16:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.367	0.188	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.367	0.157	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Ethylbenzene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Methyl tert-butyl ether	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
m,p-Xylene	ND		0.147	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Naphthalene	ND		0.0734	0.0499	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
o-Xylene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
Toluene	ND		0.0734	0.0147	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
C5-C8 Aliphatics (unadjusted)	ND		0.367	0.188	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
C9-C10 Aromatics	ND		0.367	0.0514	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1
C9-C12 Aliphatics (unadjusted)	ND		0.367	0.157	mg/Kg	☼	03/03/23 07:17	03/03/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:54*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 18:54*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0212	0.0152	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1221	ND		0.0212	0.00625	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1232	ND		0.0212	0.00586	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0212	0.00334	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1248	ND		0.0212	0.00661	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1254	**0.212**		0.0212	0.0165	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1262	ND		0.0212	0.00493	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1260	ND		0.0212	0.00455	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1
PCB-1268	ND		0.0212	0.00451	mg/Kg	☼	03/02/23 12:19	03/03/23 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*03/02/23 12:19*	*03/03/23 20:43*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.710**		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoroheptanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorononanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorodecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorotridecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorotetradecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorobutanesulfonic acid	ND		2.05	0.410	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorohexanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NEtFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NMeFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
10:2 FTS	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoropentanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoroheptanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorononanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorodecanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctanesulfonamide	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorohexadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorooctadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorobutanoic acid	ND		2.05	0.821	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoropentanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NMeFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NMeFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NEtFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
NEtFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
HFPODA	ND		2.05	1.03	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
DONA	ND		3.08	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
9Cl-PF3ONS	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
11Cl-PF3OUdS	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluorododecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
Perfluoroundecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*55*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
M2-8:2 FTS	*69*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
M2-6:2 FTS	*67*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C5 PFHxA	*59*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C4 PFHpA	*65*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C8 PFOA	*64*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C9 PFNA	*62*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C6 PFDA	*67*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C7 PFUnA	*71*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C2-PFDoDA	*69*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C2 PFTeDA	*73*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C8 PFOS	*106*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d3-NMeFOSAA	*8*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C4 PFBA	*53*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C5 PFPeA	*53*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d3-NMePFOSA	*30*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
d5-NEtPFOSA	*32*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:41*	*1*
13C3 HFPO-DA	*69*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoroheptanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorononanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorodecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorotridecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorotetradecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorobutanesulfonic acid	ND		1.94	0.388	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorohexanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NEtFOSAA	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NMeFOSAA	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
10:2 FTS	ND		1.94	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoropentanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoroheptanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorononanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorodecanesulfonic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctanesulfonamide	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1

Client Sample ID: 2023-SB-16-0002' **Lab Sample ID: 620-10051-11**
Date Collected: 03/01/23 08:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorooctadecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorobutanoic acid	ND		1.94	0.776	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoropentanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NMeFOSE	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NMeFOSA	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NEtFOSE	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
NEtFOSA	ND		1.94	0.485	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
HFPODA	ND		1.94	0.970	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
DONA	ND		2.91	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
9Cl-PF3ONS	ND		1.94	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
11Cl-PF3OUdS	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluorododecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
4:2 Fluorotelomer sulfonic acid	ND		1.94	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
Perfluoroundecanoic acid	ND		0.582	0.194	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
6:2 Fluorotelomer sulfonic acid	ND		1.94	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1
8:2 Fluorotelomer sulfonic acid	ND		2.91	0.582	ug/Kg	☼	03/03/23 07:14	03/15/23 02:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*32*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
M2-8:2 FTS	*44*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
M2-6:2 FTS	*35*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C5 PFHxA	*37*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C4 PFHpA	*39*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C8 PFOA	*38*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C9 PFNA	*40*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C6 PFDA	*41*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C7 PFUnA	*45*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C2-PFDoDA	*43*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C2 PFTeDA	*47*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C3 PFBS	*69*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C3 PFHxS	*72*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C8 PFOS	*72*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 178*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d5-NEtFOSAA	*8*	**5-*	*10 - 193*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C8 FOSA	*103*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C4 PFBA	*32*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C5 PFPeA	*34*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:04*	*1*
13C3 HFPO-DA	*44*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:04*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.13	1.74	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Arsenic	**2.54**	**J**	3.08	1.44	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Barium	**13.0**		0.513	0.154	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Beryllium	**0.239**	**J**	0.513	0.103	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0002'

Date Collected: 03/01/23 08:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-11

Matrix: Solid
Percent Solids: 93.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.513	0.103	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Chromium	**3.84**		1.54	0.359	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Lead	**2.92**		1.54	0.615	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Nickel	**1.77**		1.03	0.267	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Selenium	ND		5.13	1.54	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Silver	ND	^3+	1.03	0.410	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Thallium	ND		3.08	1.33	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Vanadium	**6.15**		1.03	0.441	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1
Zinc	**8.39**	**^5-**	2.05	0.821	mg/Kg	☼	03/05/23 19:57	03/08/23 19:49	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0619	0.0206	mg/Kg	☼	03/05/23 20:31	03/06/23 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.3**		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	**93.7**		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0204'
Date Collected: 03/01/23 09:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-12
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Acetone	ND		0.0569	0.0127	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Acrylonitrile	ND		0.00569	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Benzene	ND		0.00569	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromobenzene	ND		0.00569	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromochloromethane	ND		0.00569	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromodichloromethane	ND		0.00569	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromoform	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Bromomethane	ND		0.0114	0.00709	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2-Butanone (MEK)	ND		0.0114	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
n-Butylbenzene	ND		0.0114	0.00610	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
sec-Butylbenzene	ND		0.00569	0.00459	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
tert-Butylbenzene	ND		0.00569	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Carbon disulfide	ND		0.0114	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Carbon tetrachloride	ND		0.00569	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chlorobenzene	ND		0.00569	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chloroethane	ND		0.0114	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chloroform	ND		0.00569	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Chloromethane	ND		0.0114	0.00437	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2-Chlorotoluene	ND		0.00569	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
4-Chlorotoluene	ND		0.00569	0.00494	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dibromo-3-Chloropropane	ND		0.0114	0.00483	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Dibromochloromethane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dibromoethane (EDB)	ND		0.00569	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Dibromomethane	ND		0.00569	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dichlorobenzene	ND		0.00569	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3-Dichlorobenzene	ND		0.00569	0.00456	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,4-Dichlorobenzene	ND		0.00569	0.00539	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1-Dichloroethane	ND		0.00569	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dichloroethane	ND		0.00569	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1-Dichloroethene	ND		0.00569	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
cis-1,2-Dichloroethene	ND		0.00569	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
trans-1,2-Dichloroethene	ND		0.00569	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2-Dichloropropane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3-Dichloropropane	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2,2-Dichloropropane	ND		0.00569	0.00393	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1-Dichloropropene	ND		0.00569	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
cis-1,3-Dichloropropene	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
trans-1,3-Dichloropropene	ND		0.00569	0.00432	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethylbenzene	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Hexachlorobutadiene	ND		0.0114	0.00572	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
2-Hexanone (MBK)	ND		0.0114	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Isopropylbenzene	ND		0.00569	0.00430	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
4-Isopropyltoluene	ND		0.00569	0.00559	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Methyl tert-butyl ether	ND		0.00569	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.0114	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Methylene Chloride	ND		0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Naphthalene	ND		0.00569	0.00514	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00569	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Styrene	ND		0.00569	0.00440	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,1,2-Tetrachloroethane	ND		0.00569	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,2,2-Tetrachloroethane	ND		0.00569	0.00521	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Tetrachloroethene	ND		0.00569	0.00316	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Toluene	ND		0.00569	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,3-Trichlorobenzene	ND		0.00569	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,4-Trichlorobenzene	ND		0.00569	0.00525	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3,5-Trichlorobenzene	ND		0.00569	0.00541	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,1-Trichloroethane	ND		0.00569	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,1,2-Trichloroethane	ND		0.00569	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Trichloroethene	ND		0.00569	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Trichlorofluoromethane (Freon 11)	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,3-Trichloropropane	ND		0.00569	0.00505	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,2,4-Trimethylbenzene	ND		0.00569	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3,5-Trimethylbenzene	ND		0.00569	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Vinyl chloride	ND		0.00569	0.00347	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
m,p-Xylene	ND		0.00569	0.00777	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
o-Xylene	ND		0.00569	0.00415	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Tetrahydrofuran	ND		0.0114	0.00288	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethyl ether	ND		0.00569	0.00299	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Tert-amyl methyl ether	ND		0.00569	0.00450	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethyl tert-butyl ether	ND		0.00569	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
di-Isopropyl ether	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
tert-Butanol	ND		0.114	0.0305	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,4-Dioxane	ND		0.114	0.0354	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
trans-1,4-Dichloro-2-butene	ND		0.0285	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Ethanol	ND		1.14	0.0706	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
1,3-Dichloropropene, Total	ND		0.00569	0.00432	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1
Xylenes, Total	ND		0.0171	0.00569	mg/Kg	☼	03/02/23 17:46	03/03/23 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:35*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.359	0.0639	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,2,4-Trichlorobenzene	ND		0.359	0.0822	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,2-Dichlorobenzene	ND		0.359	0.0692	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,3-Dichlorobenzene	ND		0.359	0.0869	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1,4-Dichlorobenzene	ND		0.359	0.0845	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
1-Methylnaphthalene	ND		0.0726	0.0609	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4,5-Trichlorophenol	ND		0.359	0.0411	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4,6-Trichlorophenol	ND		0.182	0.0444	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4-Dichlorophenol	ND		0.182	0.0723	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4-Dimethylphenol	ND		0.359	0.0527	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,4-Dinitrophenol	ND		0.359	0.0944	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0204'
Date Collected: 03/01/23 09:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-12
Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.182	0.0425	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2,6-Dinitrotoluene	ND		0.182	0.0425	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Chloronaphthalene	ND		0.359	0.0830	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Chlorophenol	ND		0.182	0.0743	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Methylnaphthalene	ND		0.0726	0.0536	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Methylphenol	ND		0.359	0.0524	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Nitroaniline	ND		0.359	0.0342	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
2-Nitrophenol	ND		0.182	0.0645	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
3 & 4 Methylphenol	ND		0.359	0.0680	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
3,3'-Dichlorobenzidine	ND		0.359	0.0593	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
3-Nitroaniline	ND		0.359	0.0321	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4,6-Dinitro-2-methylphenol	ND		0.359	0.0645	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Bromophenyl phenyl ether	ND		0.359	0.0406	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Chloro-3-methylphenol	ND		0.359	0.0703	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Chloroaniline	ND		0.182	0.0275	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Chlorophenyl phenyl ether	ND		0.359	0.0384	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Nitroaniline	ND		0.182	0.0573	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
4-Nitrophenol	ND		0.359	0.125	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Acenaphthene	ND		0.0726	0.0579	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Acenaphthylene	ND		0.0726	0.0477	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Acetophenone	ND		0.182	0.0443	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Aniline	ND		0.359	0.0275	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Anthracene	ND		0.0726	0.0420	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Azobenzene/Diphenyldiazene	ND		0.359	0.0613	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzidine	ND	*-	0.718	0.106	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[a]anthracene	ND		0.0726	0.0408	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[a]pyrene	ND		0.0726	0.0519	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[b]fluoranthene	ND		0.0726	0.0602	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[g,h,i]perylene	ND		0.0726	0.0567	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzo[k]fluoranthene	ND		0.0726	0.0565	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzoic acid	ND		0.359	0.247	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Benzyl alcohol	ND		0.359	0.0651	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Bis(2-chloroethoxy)methane	ND		0.359	0.0624	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Bis(2-chloroethyl)ether	ND		0.182	0.0594	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
bis (2-chloroisopropyl) ether	ND		0.182	0.0808	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Bis(2-ethylhexyl) phthalate	**0.332**		0.182	0.0462	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Butyl benzyl phthalate	ND		0.359	0.0360	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Carbazole	ND		0.182	0.0475	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Chrysene	ND		0.0726	0.0410	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Dibenz(a,h)anthracene	ND		0.0726	0.0554	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Dibenzofuran	ND		0.182	0.0629	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Diethyl phthalate	ND		0.359	0.0394	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Dimethyl phthalate	ND		0.359	0.0468	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Di-n-butyl phthalate	ND		0.359	0.0384	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Di-n-octyl phthalate	ND		0.359	0.0593	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Fluoranthene	ND		0.0726	0.0425	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Fluorene	ND		0.0726	0.0663	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Hexachlorobenzene	ND		0.182	0.0504	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Hexachlorobutadiene	ND		0.182	0.0906	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.182	0.0694	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Hexachloroethane	ND		0.182	0.0714	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0726	0.0616	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Isophorone	ND		0.182	0.0497	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Naphthalene	ND		0.0726	0.0696	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Nitrobenzene	ND		0.182	0.0839	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
N-Nitrosodimethylamine	ND		0.182	0.0477	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
N-Nitrosodi-n-propylamine	ND		0.182	0.0723	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
N-Nitrosodiphenylamine	ND		0.359	0.0458	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pentachloronitrobenzene	ND		0.359	0.0567	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pentachlorophenol	ND		0.359	0.147	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Phenanthrene	ND		0.0726	0.0411	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Phenol	ND		0.359	0.0740	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pyrene	ND		0.0726	0.0400	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1
Pyridine	ND		0.359	0.0850	mg/Kg	☼	03/03/23 08:01	03/09/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
2-Fluorophenol (Surr)	*88*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/09/23 15:17*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/03/23 08:01*	*03/09/23 15:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.276	0.141	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.276	0.118	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Ethylbenzene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Methyl tert-butyl ether	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
m,p-Xylene	ND		0.110	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Naphthalene	ND		0.0551	0.0375	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
o-Xylene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
Toluene	ND		0.0551	0.0110	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.276	0.141	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
C9-C10 Aromatics	ND		0.276	0.0386	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.276	0.118	mg/Kg	☼	03/03/23 07:17	03/03/23 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/03/23 07:17*	*03/03/23 19:34*	*1*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/03/23 07:17*	*03/03/23 19:34*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0220	0.0159	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1221	ND		0.0220	0.00651	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1232	ND		0.0220	0.00610	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0220	0.00348	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1248	ND		0.0220	0.00688	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1254	**0.0363**		0.0220	0.0171	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1262	ND		0.0220	0.00513	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1260	ND		0.0220	0.00474	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1
PCB-1268	ND		0.0220	0.00469	mg/Kg	☼	03/02/23 12:19	03/03/23 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:02*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoroheptanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorononanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorodecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorotridecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorotetradecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorobutanesulfonic acid	ND		2.23	0.446	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorohexanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NEtFOSAA	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NMeFOSAA	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
10:2 FTS	ND		2.23	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoropentanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoroheptanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorononanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorodecanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctanesulfonamide	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorohexadecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorooctadecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorobutanoic acid	ND		2.23	0.892	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoropentanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NMeFOSE	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NMeFOSA	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NEtFOSE	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
NEtFOSA	ND		2.23	0.557	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
HFPODA	ND		2.23	1.11	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
DONA	ND		3.34	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
9Cl-PF3ONS	ND		2.23	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
11Cl-PF3OUdS	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluorododecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
4:2 Fluorotelomer sulfonic acid	ND		2.23	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
Perfluoroundecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1

Client Sample ID: 2023-SB-16-0204' **Lab Sample ID: 620-10051-12**
Date Collected: 03/01/23 09:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.23	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1
8:2 Fluorotelomer sulfonic acid	ND		3.34	0.669	ug/Kg	☼	03/03/23 07:14	03/15/23 02:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
M2-8:2 FTS	*73*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
M2-6:2 FTS	*74*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C5 PFHxA	*77*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C4 PFHpA	*82*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C8 PFOA	*78*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C9 PFNA	*84*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C6 PFDA	*75*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C2-PFDoDA	*78*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C3 PFBS	*93*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C3 PFHxS	*102*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C8 PFOS	*100*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d3-NMeFOSAA	*13*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d5-NEtFOSAA	*16*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C4 PFBA	*71*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C5 PFPeA	*72*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d7-N-MeFOSE-M	*106*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d9-N-EtFOSE-M	*100*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:15*	*1*
13C3 HFPO-DA	*75*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:15*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		8.99	3.06	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Arsenic	**3.93**	**J**	5.39	2.52	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Barium	**17.0**		0.899	0.270	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Beryllium	**0.299**	**J**	0.899	0.180	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Cadmium	ND		0.899	0.180	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Chromium	**5.20**		2.70	0.629	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Lead	**2.77**		2.70	1.08	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Nickel	**2.53**		1.80	0.467	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Selenium	ND		8.99	2.70	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Silver	ND	^3+	1.80	0.719	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Thallium	ND		5.39	2.34	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Vanadium	**7.87**		1.80	0.773	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1
Zinc	**9.79**	**^5-**	3.59	1.44	mg/Kg	☼	03/05/23 19:57	03/08/23 20:01	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0658	0.0219	mg/Kg	☼	03/05/23 20:31	03/06/23 17:50	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0204'
Date Collected: 03/01/23 09:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-12
Matrix: Solid
Percent Solids: 89.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.3		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	89.7		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0406'
Lab Sample ID: 620-10051-13
Date Collected: 03/01/23 09:05
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 89.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00505	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Acetone	ND		0.0505	0.0113	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Acrylonitrile	ND		0.00505	0.00303	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Benzene	ND		0.00505	0.00337	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromobenzene	ND		0.00505	0.00336	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromochloromethane	ND		0.00505	0.00287	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromodichloromethane	ND		0.00505	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromoform	ND		0.00505	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Bromomethane	ND		0.0101	0.00629	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2-Butanone (MEK)	ND		0.0101	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
n-Butylbenzene	ND		0.0101	0.00541	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
sec-Butylbenzene	ND		0.00505	0.00407	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
tert-Butylbenzene	ND		0.00505	0.00398	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Carbon disulfide	ND		0.0101	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Carbon tetrachloride	ND		0.00505	0.00318	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chlorobenzene	ND		0.00505	0.00370	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chloroethane	ND		0.0101	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chloroform	ND		0.00505	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Chloromethane	ND		0.0101	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2-Chlorotoluene	ND		0.00505	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
4-Chlorotoluene	ND		0.00505	0.00438	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00428	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Dibromochloromethane	ND		0.00505	0.00334	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dibromoethane (EDB)	ND		0.00505	0.00363	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Dibromomethane	ND		0.00505	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dichlorobenzene	ND		0.00505	0.00469	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3-Dichlorobenzene	ND		0.00505	0.00405	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,4-Dichlorobenzene	ND		0.00505	0.00479	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00271	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1-Dichloroethane	ND		0.00505	0.00342	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dichloroethane	ND		0.00505	0.00340	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1-Dichloroethene	ND		0.00505	0.00309	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
cis-1,2-Dichloroethene	ND		0.00505	0.00292	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
trans-1,2-Dichloroethene	ND		0.00505	0.00314	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2-Dichloropropane	ND		0.00505	0.00334	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3-Dichloropropane	ND		0.00505	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2,2-Dichloropropane	ND		0.00505	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1-Dichloropropene	ND		0.00505	0.00343	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
cis-1,3-Dichloropropene	ND		0.00505	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
trans-1,3-Dichloropropene	ND		0.00505	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethylbenzene	ND		0.00505	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Hexachlorobutadiene	ND		0.0101	0.00508	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Isopropylbenzene	ND		0.00505	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
4-Isopropyltoluene	ND		0.00505	0.00496	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Methyl tert-butyl ether	ND		0.00505	0.00291	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00326	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Naphthalene	ND		0.00505	0.00457	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Styrene	ND		0.00505	0.00391	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,1,2-Tetrachloroethane	ND		0.00505	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,2,2-Tetrachloroethane	ND		0.00505	0.00463	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Tetrachloroethene	ND		0.00505	0.00281	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Toluene	ND		0.00505	0.00320	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,3-Trichlorobenzene	ND		0.00505	0.00426	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,4-Trichlorobenzene	ND		0.00505	0.00466	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3,5-Trichlorobenzene	ND		0.00505	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,1-Trichloroethane	ND		0.00505	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,1,2-Trichloroethane	ND		0.00505	0.00381	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Trichloroethene	ND		0.00505	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Trichlorofluoromethane (Freon 11)	ND		0.00505	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,3-Trichloropropane	ND		0.00505	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,2,4-Trimethylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3,5-Trimethylbenzene	ND		0.00505	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Vinyl chloride	ND		0.00505	0.00308	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
m,p-Xylene	ND		0.00505	0.00690	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
o-Xylene	ND		0.00505	0.00369	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethyl ether	ND		0.00505	0.00266	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Tert-amyl methyl ether	ND		0.00505	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethyl tert-butyl ether	ND		0.00505	0.00332	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
di-Isopropyl ether	ND		0.00505	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,4-Dioxane	ND		0.101	0.0314	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
trans-1,4-Dichloro-2-butene	ND		0.0252	0.00373	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Ethanol	ND		1.01	0.0626	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
1,3-Dichloropropene, Total	ND		0.00505	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1
Xylenes, Total	ND		0.0151	0.00505	mg/Kg	☼	03/02/23 17:46	03/03/23 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 00:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.727	0.129	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,2,4-Trichlorobenzene	ND		0.727	0.167	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,2-Dichlorobenzene	ND		0.727	0.140	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,3-Dichlorobenzene	ND		0.727	0.176	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1,4-Dichlorobenzene	ND		0.727	0.171	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
1-Methylnaphthalene	ND		0.147	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4,5-Trichlorophenol	ND		0.727	0.0833	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4,6-Trichlorophenol	ND		0.368	0.0899	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4-Dichlorophenol	ND		0.368	0.146	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4-Dimethylphenol	ND		0.727	0.107	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,4-Dinitrophenol	ND		0.727	0.191	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0406'
Date Collected: 03/01/23 09:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-13
Matrix: Solid
Percent Solids: 89.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.368	0.0861	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2,6-Dinitrotoluene	ND		0.368	0.0861	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Chloronaphthalene	ND		0.727	0.168	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Chlorophenol	ND		0.368	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Methylnaphthalene	ND		0.147	0.109	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Methylphenol	ND		0.727	0.106	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Nitroaniline	ND		0.727	0.0692	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
2-Nitrophenol	ND		0.368	0.131	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
3 & 4 Methylphenol	ND		0.727	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
3,3'-Dichlorobenzidine	ND		0.727	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
3-Nitroaniline	ND		0.727	0.0650	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4,6-Dinitro-2-methylphenol	ND		0.727	0.131	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Bromophenyl phenyl ether	ND		0.727	0.0822	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Chloro-3-methylphenol	ND		0.727	0.142	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Chloroaniline	ND		0.368	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Chlorophenyl phenyl ether	ND		0.727	0.0778	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Nitroaniline	ND		0.368	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
4-Nitrophenol	ND		0.727	0.253	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Acenaphthene	ND		0.147	0.117	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Acenaphthylene	ND		0.147	0.0965	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Acetophenone	ND		0.368	0.0897	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Aniline	ND		0.727	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Anthracene	ND		0.147	0.0850	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Azobenzene/Diphenyldiazene	ND		0.727	0.124	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzidine	ND	*-	1.45	0.215	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[a]anthracene	ND		0.147	0.0826	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[a]pyrene	ND		0.147	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[b]fluoranthene	ND		0.147	0.122	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[g,h,i]perylene	ND		0.147	0.115	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzo[k]fluoranthene	ND		0.147	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzoic acid	ND		0.727	0.500	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Benzyl alcohol	ND		0.727	0.132	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Bis(2-chloroethoxy)methane	ND		0.727	0.126	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Bis(2-chloroethyl)ether	ND		0.368	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
bis (2-chloroisopropyl) ether	ND		0.368	0.164	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Bis(2-ethylhexyl) phthalate	ND		0.368	0.0936	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Butyl benzyl phthalate	ND		0.727	0.0729	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Carbazole	ND		0.368	0.0963	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Chrysene	ND		0.147	0.0831	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Dibenz(a,h)anthracene	ND		0.147	0.112	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Dibenzofuran	ND		0.368	0.127	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Diethyl phthalate	ND		0.727	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Dimethyl phthalate	ND		0.727	0.0947	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Di-n-butyl phthalate	ND		0.727	0.0778	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Di-n-octyl phthalate	ND		0.727	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Fluoranthene	ND		0.147	0.0861	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Fluorene	ND		0.147	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Hexachlorobenzene	ND		0.368	0.102	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Hexachlorobutadiene	ND		0.368	0.184	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.368	0.141	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Hexachloroethane	ND		0.368	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Indeno[1,2,3-cd]pyrene	ND		0.147	0.125	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Isophorone	ND		0.368	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Naphthalene	ND		0.147	0.141	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Nitrobenzene	ND		0.368	0.170	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
N-Nitrosodimethylamine	ND		0.368	0.0965	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
N-Nitrosodi-n-propylamine	ND		0.368	0.146	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
N-Nitrosodiphenylamine	ND		0.727	0.0927	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pentachloronitrobenzene	ND		0.727	0.115	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pentachlorophenol	ND		0.727	0.297	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Phenanthrene	ND		0.147	0.0833	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Phenol	ND		0.727	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pyrene	ND		0.147	0.0811	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1
Pyridine	ND		0.727	0.172	mg/Kg	☼	03/03/23 08:01	03/08/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
Nitrobenzene-d5 (Surr)	*48*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*	*03/03/23 08:01*	*03/08/23 16:53*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 16:53*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.268	0.137	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.268	0.115	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Ethylbenzene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Methyl tert-butyl ether	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
m,p-Xylene	ND		0.107	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Naphthalene	ND		0.0536	0.0364	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
o-Xylene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
Toluene	ND		0.0536	0.0107	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
C5-C8 Aliphatics (unadjusted)	ND		0.268	0.137	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
C9-C10 Aromatics	ND		0.268	0.0375	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1
C9-C12 Aliphatics (unadjusted)	ND		0.268	0.115	mg/Kg	☼	03/03/23 07:17	03/03/23 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:13*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:13*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0219	0.0158	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1221	ND		0.0219	0.00646	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1232	ND		0.0219	0.00606	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0219	0.00346	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1248	ND		0.0219	0.00684	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1254	**0.0277**		0.0219	0.0170	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1262	ND		0.0219	0.00510	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1260	ND		0.0219	0.00470	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1
PCB-1268	ND		0.0219	0.00466	mg/Kg	☼	03/02/23 12:19	03/03/23 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:20*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoroheptanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorononanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorodecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorotridecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorotetradecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorobutanesulfonic acid	ND		2.09	0.419	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorohexanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NEtFOSAA	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NMeFOSAA	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
10:2 FTS	ND		2.09	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoropentanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoroheptanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorononanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorodecanesulfonic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctanesulfonamide	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorohexadecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorooctadecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorobutanoic acid	ND		2.09	0.838	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoropentanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NMeFOSE	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NMeFOSA	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NEtFOSE	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
NEtFOSA	ND		2.09	0.523	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
HFPODA	ND		2.09	1.05	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
DONA	ND		3.14	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
9Cl-PF3ONS	ND		2.09	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
11Cl-PF3OUdS	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluorododecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
4:2 Fluorotelomer sulfonic acid	ND		2.09	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
Perfluoroundecanoic acid	ND		0.628	0.209	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.09	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1
8:2 Fluorotelomer sulfonic acid	ND		3.14	0.628	ug/Kg	☼	03/03/23 07:14	03/15/23 02:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
M2-8:2 FTS	*88*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
M2-6:2 FTS	*80*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C4 PFHpA	*91*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C8 PFOA	*89*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C9 PFNA	*90*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C6 PFDA	*90*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C7 PFUnA	*87*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C2 PFTeDA	*97*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C3 PFBS	*92*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C3 PFHxS	*97*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C8 PFOS	*98*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d3-NMeFOSAA	*17*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d5-NEtFOSAA	*21*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C8 FOSA	*96*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C4 PFBA	*77*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C5 PFPeA	*77*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d3-NMePFOSA	*82*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d9-N-EtFOSE-M	*88*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
d5-NEtPFOSA	*87*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:37*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:37*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.71	1.60	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Arsenic	**3.43**		2.82	1.32	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Barium	**14.2**		0.471	0.141	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Beryllium	**0.224**	**J**	0.471	0.0941	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Cadmium	ND		0.471	0.0941	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Chromium	**5.13**		1.41	0.329	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Lead	**2.45**		1.41	0.565	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Nickel	**1.74**		0.941	0.245	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Selenium	ND		4.71	1.41	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Silver	ND	^3+	0.941	0.377	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Thallium	ND		2.82	1.22	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Vanadium	**6.07**		0.941	0.405	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1
Zinc	**7.07**	**^5-**	1.88	0.753	mg/Kg	☼	03/05/23 19:57	03/08/23 20:05	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0672	0.0224	mg/Kg	☼	03/05/23 20:31	03/06/23 17:52	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0406' **Lab Sample ID: 620-10051-13**
Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.7		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	89.3		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0608'
Date Collected: 03/01/23 09:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-14
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Acetone	ND		0.0569	0.0128	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Acrylonitrile	ND		0.00569	0.00342	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Benzene	ND		0.00569	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromobenzene	ND		0.00569	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromochloromethane	ND		0.00569	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromodichloromethane	ND		0.00569	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromoform	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Bromomethane	ND		0.0114	0.00709	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2-Butanone (MEK)	ND		0.0114	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
n-Butylbenzene	ND		0.0114	0.00610	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
sec-Butylbenzene	ND		0.00569	0.00459	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
tert-Butylbenzene	ND		0.00569	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Carbon disulfide	ND		0.0114	0.00400	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Carbon tetrachloride	ND		0.00569	0.00359	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chlorobenzene	ND		0.00569	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chloroethane	ND		0.0114	0.00418	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chloroform	ND		0.00569	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Chloromethane	ND		0.0114	0.00437	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2-Chlorotoluene	ND		0.00569	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
4-Chlorotoluene	ND		0.00569	0.00494	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dibromo-3-Chloropropane	ND		0.0114	0.00483	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Dibromochloromethane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dibromoethane (EDB)	ND		0.00569	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Dibromomethane	ND		0.00569	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dichlorobenzene	ND		0.00569	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3-Dichlorobenzene	ND		0.00569	0.00457	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,4-Dichlorobenzene	ND		0.00569	0.00540	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1-Dichloroethane	ND		0.00569	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dichloroethane	ND		0.00569	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1-Dichloroethene	ND		0.00569	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
cis-1,2-Dichloroethene	ND		0.00569	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
trans-1,2-Dichloroethene	ND		0.00569	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2-Dichloropropane	ND		0.00569	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3-Dichloropropane	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2,2-Dichloropropane	ND		0.00569	0.00393	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1-Dichloropropene	ND		0.00569	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
cis-1,3-Dichloropropene	ND		0.00569	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
trans-1,3-Dichloropropene	ND		0.00569	0.00433	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethylbenzene	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Hexachlorobutadiene	ND		0.0114	0.00573	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
2-Hexanone (MBK)	ND		0.0114	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Isopropylbenzene	ND		0.00569	0.00430	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
4-Isopropyltoluene	ND		0.00569	0.00559	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Methyl tert-butyl ether	ND		0.00569	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.0114	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Methylene Chloride	ND		0.0114	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Naphthalene	ND		0.00569	0.00515	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00569	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Styrene	ND		0.00569	0.00441	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,1,2-Tetrachloroethane	ND		0.00569	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,2,2-Tetrachloroethane	ND		0.00569	0.00521	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Tetrachloroethene	ND		0.00569	0.00316	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Toluene	ND		0.00569	0.00361	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,3-Trichlorobenzene	ND		0.00569	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,4-Trichlorobenzene	ND		0.00569	0.00525	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3,5-Trichlorobenzene	ND		0.00569	0.00541	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,1-Trichloroethane	ND		0.00569	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,1,2-Trichloroethane	ND		0.00569	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Trichloroethene	ND		0.00569	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Trichlorofluoromethane (Freon 11)	ND		0.00569	0.00435	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,3-Trichloropropane	ND		0.00569	0.00505	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,2,4-Trimethylbenzene	ND		0.00569	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3,5-Trimethylbenzene	ND		0.00569	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Vinyl chloride	ND		0.00569	0.00347	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
m,p-Xylene	ND		0.00569	0.00778	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
o-Xylene	ND		0.00569	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Tetrahydrofuran	ND		0.0114	0.00288	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethyl ether	ND		0.00569	0.00299	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Tert-amyl methyl ether	ND		0.00569	0.00450	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethyl tert-butyl ether	ND		0.00569	0.00375	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
di-Isopropyl ether	ND		0.00569	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
tert-Butanol	ND		0.114	0.0305	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,4-Dioxane	ND		0.114	0.0354	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
trans-1,4-Dichloro-2-butene	ND		0.0285	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Ethanol	ND		1.14	0.0706	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
1,3-Dichloropropene, Total	ND		0.00569	0.00433	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1
Xylenes, Total	ND		0.0171	0.00569	mg/Kg	☼	03/02/23 17:46	03/03/23 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.354	0.0629	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,2,4-Trichlorobenzene	ND		0.354	0.0811	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,2-Dichlorobenzene	ND		0.354	0.0682	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,3-Dichlorobenzene	ND		0.354	0.0857	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1,4-Dichlorobenzene	ND		0.354	0.0833	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
1-Methylnaphthalene	ND		0.0715	0.0601	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4,5-Trichlorophenol	ND		0.354	0.0405	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4,6-Trichlorophenol	ND		0.179	0.0438	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4-Dichlorophenol	ND		0.179	0.0713	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4-Dimethylphenol	ND		0.354	0.0519	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,4-Dinitrophenol	ND		0.354	0.0931	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0608'
Date Collected: 03/01/23 09:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-14
Matrix: Solid
Percent Solids: 90.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0419	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2,6-Dinitrotoluene	ND		0.179	0.0419	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Chloronaphthalene	ND		0.354	0.0818	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Chlorophenol	ND		0.179	0.0732	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Methylnaphthalene	ND		0.0715	0.0529	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Methylphenol	ND		0.354	0.0517	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Nitroaniline	ND		0.354	0.0337	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
2-Nitrophenol	ND		0.179	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
3 & 4 Methylphenol	ND		0.354	0.0670	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
3,3'-Dichlorobenzidine	ND		0.354	0.0584	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
3-Nitroaniline	ND		0.354	0.0316	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4,6-Dinitro-2-methylphenol	ND		0.354	0.0636	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Bromophenyl phenyl ether	ND		0.354	0.0400	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Chloro-3-methylphenol	ND		0.354	0.0693	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Chlorophenyl phenyl ether	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Nitroaniline	ND		0.179	0.0565	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
4-Nitrophenol	ND		0.354	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Acenaphthene	ND		0.0715	0.0571	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Acenaphthylene	ND		0.0715	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Acetophenone	ND		0.179	0.0436	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Aniline	ND		0.354	0.0271	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Anthracene	ND		0.0715	0.0414	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Azobenzene/Diphenyldiazene	ND		0.354	0.0604	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzidine	ND	*-	0.708	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[a]anthracene	ND		0.0715	0.0402	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[a]pyrene	ND		0.0715	0.0512	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[b]fluoranthene	ND		0.0715	0.0593	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[g,h,i]perylene	ND		0.0715	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzo[k]fluoranthene	ND		0.0715	0.0557	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzoic acid	ND		0.354	0.243	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Benzyl alcohol	ND		0.354	0.0641	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Bis(2-chloroethoxy)methane	ND		0.354	0.0616	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Bis(2-chloroethyl)ether	ND		0.179	0.0586	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0797	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Bis(2-ethylhexyl) phthalate	ND		0.179	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Butyl benzyl phthalate	ND		0.354	0.0355	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Carbazole	ND		0.179	0.0469	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Chrysene	ND		0.0715	0.0404	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Dibenz(a,h)anthracene	ND		0.0715	0.0546	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Dibenzofuran	ND		0.179	0.0620	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Diethyl phthalate	ND		0.354	0.0388	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Dimethyl phthalate	ND		0.354	0.0461	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Di-n-butyl phthalate	ND		0.354	0.0379	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Di-n-octyl phthalate	ND		0.354	0.0584	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Fluoranthene	ND		0.0715	0.0419	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Fluorene	ND		0.0715	0.0653	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Hexachlorobenzene	ND		0.179	0.0497	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Hexachlorobutadiene	ND		0.179	0.0893	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0684	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Hexachloroethane	ND		0.179	0.0703	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0715	0.0607	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Isophorone	ND		0.179	0.0490	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Naphthalene	ND		0.0715	0.0686	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Nitrobenzene	ND		0.179	0.0827	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
N-Nitrosodimethylamine	ND		0.179	0.0470	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0713	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
N-Nitrosodiphenylamine	ND		0.354	0.0451	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pentachloronitrobenzene	ND		0.354	0.0559	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pentachlorophenol	ND		0.354	0.145	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Phenanthrene	ND		0.0715	0.0405	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Phenol	ND		0.354	0.0729	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pyrene	ND		0.0715	0.0395	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1
Pyridine	ND		0.354	0.0838	mg/Kg	☼	03/03/23 08:01	03/08/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*30 - 130*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
2-Fluorophenol (Surr)	*85*		*15 - 110*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
Nitrobenzene-d5 (Surr)	*50*		*30 - 130*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/03/23 08:01*	*03/08/23 17:21*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/03/23 08:01*	*03/08/23 17:21*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Ethylbenzene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Methyl tert-butyl ether	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Naphthalene	ND		0.0520	0.0354	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
o-Xylene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
Toluene	ND		0.0520	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
C9-C10 Aromatics	ND		0.260	0.0364	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/03/23 07:17	03/03/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:52*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/03/23 07:17*	*03/03/23 20:52*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0216	0.0156	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1221	ND		0.0216	0.00639	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1232	ND		0.0216	0.00599	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0216	0.00342	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1248	ND		0.0216	0.00676	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1254	ND		0.0216	0.0168	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1262	ND		0.0216	0.00504	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1260	ND		0.0216	0.00465	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1
PCB-1268	ND		0.0216	0.00461	mg/Kg	☼	03/02/23 12:19	03/03/23 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:39*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoroheptanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorononanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorodecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorotridecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorotetradecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorobutanesulfonic acid	ND		2.01	0.401	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorohexanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NEtFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NMeFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
10:2 FTS	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoropentanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoroheptanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorononanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorodecanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctanesulfonamide	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorohexadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorooctadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorobutanoic acid	ND		2.01	0.803	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoropentanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NMeFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NMeFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NEtFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
NEtFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
HFPODA	ND		2.01	1.00	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
DONA	ND		3.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
9Cl-PF3ONS	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
11Cl-PF3OUdS	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluorododecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
4:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
Perfluoroundecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1
8:2 Fluorotelomer sulfonic acid	ND		3.01	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 02:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*98*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
M2-6:2 FTS	*97*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C5 PFHxA	*110*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C4 PFHpA	*115*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C8 PFOA	*110*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C9 PFNA	*104*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C6 PFDA	*102*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C7 PFUnA	*107*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C2-PFDoDA	*102*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C3 PFBS	*105*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C8 PFOS	*107*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d3-NMeFOSAA	*75*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d5-NEtFOSAA	*84*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C4 PFBA	*105*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C5 PFPeA	*101*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d9-N-EtFOSE-M	*98*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
d5-NEtPFOSA	*96*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:48*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:48*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.52	1.54	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Arsenic	**2.85**		2.71	1.27	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Barium	**12.9**		0.452	0.136	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Beryllium	**0.216**	**J**	0.452	0.0905	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Cadmium	ND		0.452	0.0905	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Chromium	**6.84**		1.36	0.317	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Lead	**3.46**		1.36	0.543	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Nickel	**2.40**		0.905	0.235	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Selenium	ND		4.52	1.36	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Silver	ND	^3+	0.905	0.362	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Thallium	ND		2.71	1.18	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Vanadium	**7.29**		0.905	0.389	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1
Zinc	**8.84**		1.81	0.724	mg/Kg	☼	03/05/23 19:48	03/09/23 19:14	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0651	0.0217	mg/Kg	☼	03/05/23 20:31	03/06/23 17:54	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0608' **Lab Sample ID: 620-10051-14**
Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.4		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	90.6		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'
Date Collected: 03/01/23 09:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-15
Matrix: Solid
Percent Solids: 81.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00564	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Acetone	ND		0.0564	0.0126	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Acrylonitrile	ND		0.00564	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Benzene	ND		0.00564	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromobenzene	ND		0.00564	0.00376	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromochloromethane	ND		0.00564	0.00320	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromodichloromethane	ND		0.00564	0.00414	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromoform	ND		0.00564	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Bromomethane	ND		0.0113	0.00703	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2-Butanone (MEK)	ND		0.0113	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
n-Butylbenzene	ND		0.0113	0.00605	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
sec-Butylbenzene	ND		0.00564	0.00455	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
tert-Butylbenzene	ND		0.00564	0.00445	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Carbon disulfide	ND		0.0113	0.00396	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Carbon tetrachloride	ND		0.00564	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chlorobenzene	ND		0.00564	0.00413	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chloroethane	ND		0.0113	0.00414	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chloroform	ND		0.00564	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Chloromethane	ND		0.0113	0.00433	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2-Chlorotoluene	ND		0.00564	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
4-Chlorotoluene	ND		0.00564	0.00490	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0113	0.00478	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Dibromochloromethane	ND		0.00564	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dibromoethane (EDB)	ND		0.00564	0.00405	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Dibromomethane	ND		0.00564	0.00332	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dichlorobenzene	ND		0.00564	0.00524	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3-Dichlorobenzene	ND		0.00564	0.00452	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,4-Dichlorobenzene	ND		0.00564	0.00535	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0113	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1-Dichloroethane	ND		0.00564	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dichloroethane	ND		0.00564	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1-Dichloroethene	ND		0.00564	0.00345	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
cis-1,2-Dichloroethene	ND		0.00564	0.00326	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
trans-1,2-Dichloroethene	ND		0.00564	0.00351	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2-Dichloropropane	ND		0.00564	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3-Dichloropropane	ND		0.00564	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2,2-Dichloropropane	ND		0.00564	0.00389	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1-Dichloropropene	ND		0.00564	0.00384	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
cis-1,3-Dichloropropene	ND		0.00564	0.00368	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
trans-1,3-Dichloropropene	ND		0.00564	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethylbenzene	ND		0.00564	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Hexachlorobutadiene	ND		0.0113	0.00568	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
2-Hexanone (MBK)	ND		0.0113	0.00332	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Isopropylbenzene	ND		0.00564	0.00427	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
4-Isopropyltoluene	ND		0.00564	0.00554	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Methyl tert-butyl ether	ND		0.00564	0.00325	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0113	0.00364	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Methylene Chloride	ND		0.0113	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Naphthalene	ND		0.00564	0.00510	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00564	0.00477	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Styrene	ND		0.00564	0.00437	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,1,2-Tetrachloroethane	ND		0.00564	0.00423	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,2,2-Tetrachloroethane	ND		0.00564	0.00517	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Tetrachloroethene	ND		0.00564	0.00314	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Toluene	ND		0.00564	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,3-Trichlorobenzene	ND		0.00564	0.00476	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,4-Trichlorobenzene	ND		0.00564	0.00520	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3,5-Trichlorobenzene	ND		0.00564	0.00536	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,1-Trichloroethane	ND		0.00564	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,1,2-Trichloroethane	ND		0.00564	0.00425	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Trichloroethene	ND		0.00564	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00564	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,3-Trichloropropane	ND		0.00564	0.00501	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,2,4-Trimethylbenzene	ND		0.00564	0.00477	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3,5-Trimethylbenzene	ND		0.00564	0.00480	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Vinyl chloride	ND		0.00564	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
m,p-Xylene	ND		0.00564	0.00771	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
o-Xylene	ND		0.00564	0.00412	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Tetrahydrofuran	ND		0.0113	0.00285	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethyl ether	ND		0.00564	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Tert-amyl methyl ether	ND		0.00564	0.00446	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethyl tert-butyl ether	ND		0.00564	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
di-Isopropyl ether	ND		0.00564	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
tert-Butanol	ND		0.113	0.0302	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,4-Dioxane	ND		0.113	0.0351	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
trans-1,4-Dichloro-2-butene	ND		0.0282	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Ethanol	ND		1.13	0.0700	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
1,3-Dichloropropene, Total	ND		0.00564	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1
Xylenes, Total	ND		0.0169	0.00564	mg/Kg	☼	03/02/23 17:46	03/03/23 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/02/23 17:46*	*03/03/23 01:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.397	0.0705	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,2,4-Trichlorobenzene	ND		0.397	0.0908	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,2-Dichlorobenzene	ND		0.397	0.0764	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,3-Dichlorobenzene	ND		0.397	0.0960	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1,4-Dichlorobenzene	ND		0.397	0.0934	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
1-Methylnaphthalene	ND		0.0802	0.0673	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4,5-Trichlorophenol	ND		0.397	0.0454	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4,6-Trichlorophenol	ND		0.201	0.0490	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4-Dichlorophenol	ND		0.201	0.0799	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4-Dimethylphenol	ND		0.397	0.0582	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,4-Dinitrophenol	ND		0.397	0.104	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'
Date Collected: 03/01/23 09:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-15
Matrix: Solid
Percent Solids: 81.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2,6-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Chloronaphthalene	ND		0.397	0.0917	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Chlorophenol	ND		0.201	0.0821	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Methylnaphthalene	ND		0.0802	0.0592	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Methylphenol	ND		0.397	0.0579	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Nitroaniline	ND		0.397	0.0377	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
2-Nitrophenol	ND		0.201	0.0713	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
3 & 4 Methylphenol	ND		0.397	0.0751	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
3,3'-Dichlorobenzidine	ND		0.397	0.0655	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
3-Nitroaniline	ND		0.397	0.0354	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4,6-Dinitro-2-methylphenol	ND		0.397	0.0713	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Bromophenyl phenyl ether	ND		0.397	0.0448	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Chloro-3-methylphenol	ND		0.397	0.0776	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Chloroaniline	ND		0.201	0.0304	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Chlorophenyl phenyl ether	ND		0.397	0.0424	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Nitroaniline	ND		0.201	0.0633	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
4-Nitrophenol	ND		0.397	0.138	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Acenaphthene	ND		0.0802	0.0639	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Acenaphthylene	ND		0.0802	0.0526	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Acetophenone	ND		0.201	0.0489	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Aniline	ND		0.397	0.0304	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Anthracene	ND		0.0802	0.0464	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Azobenzene/Diphenyldiazene	ND		0.397	0.0677	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzidine	ND	*-	0.793	0.117	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[a]anthracene	ND		0.0802	0.0451	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[a]pyrene	ND		0.0802	0.0573	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[b]fluoranthene	ND		0.0802	0.0665	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[g,h,i]perylene	ND		0.0802	0.0626	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzo[k]fluoranthene	ND		0.0802	0.0624	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzoic acid	ND		0.397	0.273	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Benzyl alcohol	ND		0.397	0.0719	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Bis(2-chloroethoxy)methane	ND		0.397	0.0690	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Bis(2-chloroethyl)ether	ND		0.201	0.0656	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0893	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0511	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Butyl benzyl phthalate	ND		0.397	0.0398	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Carbazole	ND		0.201	0.0525	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Chrysene	ND		0.0802	0.0453	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Dibenz(a,h)anthracene	ND		0.0802	0.0612	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Dibenzofuran	ND		0.201	0.0695	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Diethyl phthalate	ND		0.397	0.0435	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Dimethyl phthalate	ND		0.397	0.0517	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Di-n-butyl phthalate	ND		0.397	0.0424	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Di-n-octyl phthalate	ND		0.397	0.0655	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Fluoranthene	ND		0.0802	0.0470	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Fluorene	ND		0.0802	0.0732	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Hexachlorobenzene	ND		0.201	0.0556	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0767	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Hexachloroethane	ND		0.201	0.0788	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Indeno[1,2,3-cd]pyrene	ND		0.0802	0.0680	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Isophorone	ND		0.201	0.0549	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Naphthalene	ND		0.0802	0.0769	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Nitrobenzene	ND		0.201	0.0926	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
N-Nitrosodimethylamine	ND		0.201	0.0526	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0799	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
N-Nitrosodiphenylamine	ND		0.397	0.0506	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pentachloronitrobenzene	ND		0.397	0.0626	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pentachlorophenol	ND		0.397	0.162	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Phenanthrene	ND		0.0802	0.0454	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Phenol	ND		0.397	0.0817	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pyrene	ND		0.0802	0.0442	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1
Pyridine	ND		0.397	0.0938	mg/Kg	☼	03/03/23 08:01	03/09/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
Nitrobenzene-d5 (Surr)	*68*		*30 - 130*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*15 - 110*	*03/03/23 08:01*	*03/09/23 14:49*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/03/23 08:01*	*03/09/23 14:49*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.334	0.171	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.334	0.143	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Ethylbenzene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Methyl tert-butyl ether	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
m,p-Xylene	ND		0.134	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Naphthalene	ND		0.0668	0.0454	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
o-Xylene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
Toluene	ND		0.0668	0.0134	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
C5-C8 Aliphatics (unadjusted)	ND		0.334	0.171	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
C9-C10 Aromatics	ND		0.334	0.0467	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1
C9-C12 Aliphatics (unadjusted)	ND		0.334	0.143	mg/Kg	☼	03/03/23 07:17	03/03/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/03/23 07:17*	*03/03/23 21:32*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/03/23 07:17*	*03/03/23 21:32*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0234	0.0169	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1221	ND		0.0234	0.00693	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1232	ND		0.0234	0.00649	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0234	0.00370	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1248	ND		0.0234	0.00732	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1254	ND		0.0234	0.0182	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1262	ND		0.0234	0.00546	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1260	ND		0.0234	0.00504	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1
PCB-1268	ND		0.0234	0.00499	mg/Kg	☼	03/02/23 12:19	03/03/23 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*
Tetrachloro-m-xylene	*59*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/02/23 12:19*	*03/03/23 21:58*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoroheptanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorononanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorodecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorotridecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorotetradecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorobutanesulfonic acid	ND		2.29	0.458	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorohexanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
10:2 FTS	ND		2.29	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoropentanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoroheptanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorononanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorodecanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctanesulfonamide	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorohexadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorooctadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorobutanoic acid	ND		2.29	0.917	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoropentanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NMeFOSE	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NMeFOSA	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NEtFOSE	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
NEtFOSA	ND		2.29	0.573	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
HFPODA	ND		2.29	1.15	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
DONA	ND		3.44	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
11Cl-PF3OUdS	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluorododecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
Perfluoroundecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1

Client Sample ID: 2023-SB-16-0810' **Lab Sample ID: 620-10051-15**
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.688	ug/Kg	☼	03/03/23 07:14	03/15/23 02:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*71*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
M2-8:2 FTS	*77*		*15 - 200*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
M2-6:2 FTS	*82*		*10 - 200*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C4 PFHpA	*94*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C8 PFOA	*100*		*26 - 159*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C9 PFNA	*97*		*26 - 165*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C6 PFDA	*96*		*26 - 161*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C7 PFUnA	*102*		*12 - 173*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C2 PFTeDA	*104*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C3 PFBS	*100*		*27 - 179*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C3 PFHxS	*99*		*24 - 171*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C8 PFOS	*104*		*41 - 154*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d3-NMeFOSAA	*22*		*10 - 178*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C4 PFBA	*94*		*28 - 153*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C5 PFPeA	*90*		*24 - 161*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d9-N-EtFOSE-M	*97*		*10 - 185*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
d5-NEtPFOSA	*96*		*10 - 180*	*03/03/23 07:14*	*03/15/23 02:59*	*1*
13C3 HFPO-DA	*84*		*10 - 169*	*03/03/23 07:14*	*03/15/23 02:59*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.29	1.80	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Arsenic	**8.66**		3.17	1.48	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Barium	**95.0**		0.529	0.159	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Beryllium	**1.23**		0.529	0.106	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Cadmium	ND		0.529	0.106	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Chromium	**26.3**		1.59	0.370	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Lead	**11.7**		1.59	0.634	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Nickel	**14.9**		1.06	0.275	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Selenium	ND		5.29	1.59	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Silver	ND	^3+	1.06	0.423	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Thallium	ND		31.7	13.7	mg/Kg	☼	03/05/23 19:48	03/09/23 20:13	10
Vanadium	**43.0**		1.06	0.455	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1
Zinc	**58.8**		2.11	0.846	mg/Kg	☼	03/05/23 19:48	03/09/23 19:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0701	0.0234	mg/Kg	☼	03/06/23 22:34	03/07/23 18:40	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-0810'
Date Collected: 03/01/23 09:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-15
Matrix: Solid
Percent Solids: 81.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.5		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	81.5		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Acetone	ND		0.0528	0.0118	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Acrylonitrile	ND		0.00528	0.00317	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Benzene	ND		0.00528	0.00353	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromobenzene	ND		0.00528	0.00352	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromochloromethane	ND		0.00528	0.00300	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromodichloromethane	ND		0.00528	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromoform	ND		0.00528	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Bromomethane	ND		0.0106	0.00658	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2-Butanone (MEK)	ND		0.0106	0.00421	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
n-Butylbenzene	ND		0.0106	0.00566	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
sec-Butylbenzene	ND		0.00528	0.00426	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
tert-Butylbenzene	ND		0.00528	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Carbon tetrachloride	ND		0.00528	0.00333	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chlorobenzene	ND		0.00528	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chloroethane	ND		0.0106	0.00388	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chloroform	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Chloromethane	ND		0.0106	0.00406	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2-Chlorotoluene	ND		0.00528	0.00421	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
4-Chlorotoluene	ND		0.00528	0.00459	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Dibromochloromethane	ND		0.00528	0.00350	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dibromoethane (EDB)	ND		0.00528	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Dibromomethane	ND		0.00528	0.00311	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dichlorobenzene	ND		0.00528	0.00490	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3-Dichlorobenzene	ND		0.00528	0.00424	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,4-Dichlorobenzene	ND		0.00528	0.00501	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1-Dichloroethane	ND		0.00528	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dichloroethane	ND		0.00528	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1-Dichloroethene	ND		0.00528	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
cis-1,2-Dichloroethene	ND		0.00528	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
trans-1,2-Dichloroethene	ND		0.00528	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2-Dichloropropane	ND		0.00528	0.00350	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3-Dichloropropane	ND		0.00528	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2,2-Dichloropropane	ND		0.00528	0.00365	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1-Dichloropropene	ND		0.00528	0.00359	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
cis-1,3-Dichloropropene	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
trans-1,3-Dichloropropene	ND		0.00528	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethylbenzene	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Hexachlorobutadiene	ND		0.0106	0.00532	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
2-Hexanone (MBK)	ND		0.0106	0.00311	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Isopropylbenzene	ND		0.00528	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
4-Isopropyltoluene	ND		0.00528	0.00519	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Methyl tert-butyl ether	ND		0.00528	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Methylene Chloride	ND		0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Naphthalene	ND		0.00528	0.00478	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1

Client Sample ID: 2023-SB-16-1012' **Lab Sample ID: 620-10051-16**
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Styrene	ND		0.00528	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,1,2-Tetrachloroethane	ND		0.00528	0.00396	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,2,2-Tetrachloroethane	ND		0.00528	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Tetrachloroethene	ND		0.00528	0.00294	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Toluene	ND		0.00528	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,3-Trichlorobenzene	ND		0.00528	0.00446	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,4-Trichlorobenzene	ND		0.00528	0.00487	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3,5-Trichlorobenzene	ND		0.00528	0.00502	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,1-Trichloroethane	ND		0.00528	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,1,2-Trichloroethane	ND		0.00528	0.00398	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Trichloroethene	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00528	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,3-Trichloropropane	ND		0.00528	0.00469	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,2,4-Trimethylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3,5-Trimethylbenzene	ND		0.00528	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Vinyl chloride	ND		0.00528	0.00322	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
m,p-Xylene	ND		0.00528	0.00722	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
o-Xylene	ND		0.00528	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Tetrahydrofuran	ND		0.0106	0.00267	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethyl ether	ND		0.00528	0.00278	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Tert-amyl methyl ether	ND		0.00528	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethyl tert-butyl ether	ND		0.00528	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
di-Isopropyl ether	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,4-Dioxane	ND		0.106	0.0329	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Ethanol	ND		1.06	0.0655	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
1,3-Dichloropropene, Total	ND		0.00528	0.00402	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1
Xylenes, Total	ND		0.0159	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.427	0.0759	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,2,4-Trichlorobenzene	ND		0.427	0.0977	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,2-Dichlorobenzene	ND		0.427	0.0822	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,3-Dichlorobenzene	ND		0.427	0.103	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1,4-Dichlorobenzene	ND		0.427	0.100	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
1-Methylnaphthalene	ND		0.0862	0.0724	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4,5-Trichlorophenol	ND		0.427	0.0489	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4,6-Trichlorophenol	ND		0.216	0.0527	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4-Dichlorophenol	ND		0.216	0.0860	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4-Dimethylphenol	ND		0.427	0.0626	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,4-Dinitrophenol	ND		0.427	0.112	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.216	0.0505	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2,6-Dinitrotoluene	ND		0.216	0.0505	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Chloronaphthalene	ND		0.427	0.0986	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Chlorophenol	ND		0.216	0.0883	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Methylnaphthalene	ND		0.0862	0.0637	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Methylphenol	ND		0.427	0.0623	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Nitroaniline	ND		0.427	0.0406	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
2-Nitrophenol	ND		0.216	0.0766	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
3 & 4 Methylphenol	ND		0.427	0.0808	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
3,3'-Dichlorobenzidine	ND		0.427	0.0704	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
3-Nitroaniline	ND		0.427	0.0381	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4,6-Dinitro-2-methylphenol	ND		0.427	0.0766	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Bromophenyl phenyl ether	ND		0.427	0.0482	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Chloro-3-methylphenol	ND		0.427	0.0835	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Chloroaniline	ND		0.216	0.0327	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Chlorophenyl phenyl ether	ND		0.427	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Nitroaniline	ND		0.216	0.0681	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
4-Nitrophenol	ND		0.427	0.149	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Acenaphthene	ND		0.0862	0.0688	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Acenaphthylene	ND		0.0862	0.0566	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Acetophenone	ND		0.216	0.0526	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Aniline	ND		0.427	0.0327	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Anthracene	ND		0.0862	0.0499	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Azobenzene/Diphenyldiazene	ND		0.427	0.0728	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzidine	ND	*-	0.853	0.126	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[a]anthracene	ND		0.0862	0.0485	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[a]pyrene	ND		0.0862	0.0617	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[b]fluoranthene	ND		0.0862	0.0715	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[g,h,i]perylene	ND		0.0862	0.0673	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzo[k]fluoranthene	ND		0.0862	0.0671	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzoic acid	ND		0.427	0.293	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Benzyl alcohol	ND		0.427	0.0773	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Bis(2-chloroethoxy)methane	ND		0.427	0.0742	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Bis(2-chloroethyl)ether	ND		0.216	0.0706	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
bis (2-chloroisopropyl) ether	ND		0.216	0.0960	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Bis(2-ethylhexyl) phthalate	ND		0.216	0.0549	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Butyl benzyl phthalate	ND		0.427	0.0428	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Carbazole	ND		0.216	0.0565	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Chrysene	ND		0.0862	0.0487	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Dibenz(a,h)anthracene	ND		0.0862	0.0658	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Dibenzofuran	ND		0.216	0.0747	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Diethyl phthalate	ND		0.427	0.0468	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Dimethyl phthalate	ND		0.427	0.0556	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Di-n-butyl phthalate	ND		0.427	0.0456	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Di-n-octyl phthalate	ND		0.427	0.0704	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Fluoranthene	ND		0.0862	0.0505	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Fluorene	ND		0.0862	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Hexachlorobenzene	ND		0.216	0.0598	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Hexachlorobutadiene	ND		0.216	0.108	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1

Client Sample ID: 2023-SB-16-1012' **Lab Sample ID: 620-10051-16**
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.216	0.0825	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Hexachloroethane	ND		0.216	0.0848	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0862	0.0732	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Isophorone	ND		0.216	0.0591	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Naphthalene	ND		0.0862	0.0827	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Nitrobenzene	ND		0.216	0.0997	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
N-Nitrosodimethylamine	ND		0.216	0.0566	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
N-Nitrosodi-n-propylamine	ND		0.216	0.0860	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
N-Nitrosodiphenylamine	ND		0.427	0.0544	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pentachloronitrobenzene	ND		0.427	0.0673	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pentachlorophenol	ND		0.427	0.174	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Phenanthrene	ND		0.0862	0.0489	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Phenol	ND		0.427	0.0879	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pyrene	ND		0.0862	0.0476	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1
Pyridine	ND		0.427	0.101	mg/Kg	☼	03/03/23 08:01	03/08/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
2-Fluorophenol (Surr)	*111*	*S1+*	*15 - 110*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
2,4,6-Tribromophenol (Surr)	*99*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:11*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.114	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Ethylbenzene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Methyl tert-butyl ether	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Naphthalene	ND		0.0531	0.0361	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
o-Xylene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
Toluene	ND		0.0531	0.0106	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
C9-C10 Aromatics	ND		0.265	0.0371	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.114	mg/Kg	☼	03/03/23 07:17	03/03/23 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:17*	*03/03/23 22:50*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 22:50*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0254	0.0183	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1221	ND		0.0254	0.00750	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1232	ND		0.0254	0.00703	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1

Client Sample ID: 2023-SB-16-1012' **Lab Sample ID: 620-10051-16**
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0254	0.00401	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1248	ND		0.0254	0.00793	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1254	ND		0.0254	0.0197	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1262	ND		0.0254	0.00591	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1260	ND		0.0254	0.00545	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1
PCB-1268	ND		0.0254	0.00540	mg/Kg	☼	03/02/23 12:19	03/03/23 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*
Tetrachloro-m-xylene	*50*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/02/23 12:19*	*03/03/23 22:17*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoroheptanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorononanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorodecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorotridecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorotetradecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorobutanesulfonic acid	ND		2.41	0.482	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorohexanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NEtFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NMeFOSAA	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
10:2 FTS	ND		2.41	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoropentanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoroheptanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorononanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorodecanesulfonic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctanesulfonamide	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorohexadecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorooctadecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorobutanoic acid	ND		2.41	0.963	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoropentanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NMeFOSE	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NMeFOSA	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NEtFOSE	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
NEtFOSA	ND		2.41	0.602	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
HFPODA	ND		2.41	1.20	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
DONA	ND		3.61	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
9Cl-PF3ONS	ND		2.41	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
11Cl-PF3OUdS	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluorododecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
4:2 Fluorotelomer sulfonic acid	ND		2.41	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
Perfluoroundecanoic acid	ND		0.722	0.241	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.41	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1
8:2 Fluorotelomer sulfonic acid	ND		3.61	0.722	ug/Kg	☼	03/03/23 07:14	03/15/23 03:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
M2-8:2 FTS	*93*		*15 - 200*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
M2-6:2 FTS	*89*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C5 PFHxA	*101*		*10 - 174*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C4 PFHpA	*111*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C8 PFOA	*103*		*26 - 159*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C9 PFNA	*101*		*26 - 165*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C7 PFUnA	*105*		*12 - 173*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C2 PFTeDA	*100*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C3 PFBS	*101*		*27 - 179*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C3 PFHxS	*103*		*24 - 171*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C8 PFOS	*108*		*41 - 154*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d3-NMeFOSAA	*41*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d5-NEtFOSAA	*49*		*10 - 193*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C4 PFBA	*99*		*28 - 153*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C5 PFPeA	*93*		*24 - 161*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d3-NMePFOSA	*91*		*10 - 175*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d9-N-EtFOSE-M	*92*		*10 - 185*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
d5-NEtPFOSA	*93*		*10 - 180*	*03/03/23 07:14*	*03/15/23 03:10*	*1*
13C3 HFPO-DA	*104*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:10*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.23**	**J**	4.57	1.55	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Arsenic	**11.2**		2.74	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Barium	**120**		0.457	0.137	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Beryllium	**1.52**		0.457	0.0913	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Cadmium	ND		0.457	0.0913	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Chromium	**35.3**		1.37	0.320	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Lead	**13.9**		1.37	0.548	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Nickel	**20.8**		0.913	0.237	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Selenium	ND		4.57	1.37	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Silver	ND	^3+	0.913	0.365	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Thallium	ND		27.4	11.9	mg/Kg	☼	03/08/23 00:33	03/10/23 04:35	10
Vanadium	**57.7**		0.913	0.393	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1
Zinc	**77.8**		1.83	0.731	mg/Kg	☼	03/08/23 00:33	03/10/23 04:31	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0782	0.0261	mg/Kg	☼	03/07/23 20:58	03/08/23 12:48	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-16-1012'
Date Collected: 03/01/23 09:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-16
Matrix: Solid
Percent Solids: 75.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	24.5		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	75.5		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0002'
Date Collected: 03/01/23 10:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-17
Matrix: Solid
Percent Solids: 96.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00537	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Acetone	ND		0.0537	0.0120	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Acrylonitrile	ND		0.00537	0.00322	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Benzene	ND		0.00537	0.00359	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromobenzene	ND		0.00537	0.00358	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromochloromethane	ND		0.00537	0.00305	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromodichloromethane	ND		0.00537	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromoform	ND		0.00537	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Bromomethane	ND		0.0107	0.00669	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2-Butanone (MEK)	ND		0.0107	0.00428	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
n-Butylbenzene	ND		0.0107	0.00576	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
sec-Butylbenzene	ND		0.00537	0.00433	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
tert-Butylbenzene	ND		0.00537	0.00423	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Carbon disulfide	ND		0.0107	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Carbon tetrachloride	ND		0.00537	0.00338	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chlorobenzene	ND		0.00537	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chloroethane	ND		0.0107	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chloroform	ND		0.00537	0.00361	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Chloromethane	ND		0.0107	0.00413	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2-Chlorotoluene	ND		0.00537	0.00428	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
4-Chlorotoluene	ND		0.00537	0.00466	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dibromo-3-Chloropropane	ND		0.0107	0.00456	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Dibromochloromethane	ND		0.00537	0.00356	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dibromoethane (EDB)	ND		0.00537	0.00386	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Dibromomethane	ND		0.00537	0.00316	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dichlorobenzene	ND		0.00537	0.00499	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3-Dichlorobenzene	ND		0.00537	0.00431	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,4-Dichlorobenzene	ND		0.00537	0.00509	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Dichlorodifluoromethane (Freon 12)	ND		0.0107	0.00288	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1-Dichloroethane	ND		0.00537	0.00364	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dichloroethane	ND		0.00537	0.00362	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1-Dichloroethene	ND		0.00537	0.00329	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
cis-1,2-Dichloroethene	ND		0.00537	0.00310	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
trans-1,2-Dichloroethene	ND		0.00537	0.00334	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2-Dichloropropane	ND		0.00537	0.00356	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3-Dichloropropane	ND		0.00537	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2,2-Dichloropropane	ND		0.00537	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1-Dichloropropene	ND		0.00537	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
cis-1,3-Dichloropropene	ND		0.00537	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
trans-1,3-Dichloropropene	ND		0.00537	0.00408	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethylbenzene	ND		0.00537	0.00384	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Hexachlorobutadiene	ND	F1	0.0107	0.00540	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
2-Hexanone (MBK)	ND		0.0107	0.00316	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Isopropylbenzene	ND		0.00537	0.00406	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
4-Isopropyltoluene	ND		0.00537	0.00528	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Methyl tert-butyl ether	ND		0.00537	0.00309	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0107	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Methylene Chloride	ND		0.0107	0.00288	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Naphthalene	ND	F1	0.00537	0.00486	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00537	0.00454	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Styrene	ND		0.00537	0.00416	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,1,2-Tetrachloroethane	ND		0.00537	0.00403	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,2,2-Tetrachloroethane	ND		0.00537	0.00492	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Tetrachloroethene	ND		0.00537	0.00299	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Toluene	ND		0.00537	0.00341	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,3-Trichlorobenzene	ND	F1	0.00537	0.00453	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,4-Trichlorobenzene	ND	F1	0.00537	0.00495	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3,5-Trichlorobenzene	ND		0.00537	0.00510	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,1-Trichloroethane	ND		0.00537	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,1,2-Trichloroethane	ND		0.00537	0.00405	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Trichloroethene	ND		0.00537	0.00361	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Trichlorofluoromethane (Freon 11)	ND		0.00537	0.00410	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,3-Trichloropropane	ND		0.00537	0.00477	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,2,4-Trimethylbenzene	ND		0.00537	0.00454	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3,5-Trimethylbenzene	ND		0.00537	0.00457	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Vinyl chloride	ND		0.00537	0.00328	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
m,p-Xylene	ND		0.00537	0.00734	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
o-Xylene	ND		0.00537	0.00392	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Tetrahydrofuran	ND		0.0107	0.00272	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethyl ether	ND		0.00537	0.00283	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Tert-amyl methyl ether	ND		0.00537	0.00424	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethyl tert-butyl ether	ND		0.00537	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
di-Isopropyl ether	ND		0.00537	0.00384	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
tert-Butanol	ND		0.107	0.0288	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,4-Dioxane	ND		0.107	0.0334	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
trans-1,4-Dichloro-2-butene	ND		0.0269	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Ethanol	ND		1.07	0.0666	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
1,3-Dichloropropene, Total	ND		0.00537	0.00408	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1
Xylenes, Total	ND		0.0161	0.00537	mg/Kg	☼	03/06/23 09:50	03/06/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:43*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.665	0.118	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,2,4-Trichlorobenzene	ND		0.665	0.152	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,2-Dichlorobenzene	ND		0.665	0.128	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,3-Dichlorobenzene	ND		0.665	0.161	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1,4-Dichlorobenzene	ND		0.665	0.156	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
1-Methylnaphthalene	ND		0.134	0.113	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4,5-Trichlorophenol	ND		0.665	0.0761	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4,6-Trichlorophenol	ND		0.336	0.0822	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4-Dichlorophenol	ND		0.336	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4-Dimethylphenol	ND		0.665	0.0975	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,4-Dinitrophenol	ND		0.665	0.175	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0002'
Date Collected: 03/01/23 10:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-17
Matrix: Solid
Percent Solids: 96.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.336	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2,6-Dinitrotoluene	ND		0.336	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Chloronaphthalene	ND		0.665	0.154	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Chlorophenol	ND		0.336	0.138	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Methylnaphthalene	ND		0.134	0.0993	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Methylphenol	ND		0.665	0.0971	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Nitroaniline	ND		0.665	0.0632	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
2-Nitrophenol	ND		0.336	0.119	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
3 & 4 Methylphenol	ND		0.665	0.126	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
3,3'-Dichlorobenzidine	ND		0.665	0.110	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
3-Nitroaniline	ND		0.665	0.0594	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4,6-Dinitro-2-methylphenol	ND		0.665	0.119	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Bromophenyl phenyl ether	ND		0.665	0.0751	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Chloro-3-methylphenol	ND		0.665	0.130	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Chloroaniline	ND	F1	0.336	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Chlorophenyl phenyl ether	ND		0.665	0.0711	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Nitroaniline	ND		0.336	0.106	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
4-Nitrophenol	ND		0.665	0.232	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Acenaphthene	ND		0.134	0.107	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Acenaphthylene	ND		0.134	0.0882	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Acetophenone	ND		0.336	0.0820	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Aniline	ND	F1	0.665	0.0510	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Anthracene	ND		0.134	0.0777	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Azobenzene/Diphenyldiazene	ND		0.665	0.113	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzidine	ND	*- F1	1.33	0.197	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[a]anthracene	ND		0.134	0.0755	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[a]pyrene	ND		0.134	0.0961	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[b]fluoranthene	ND		0.134	0.111	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[g,h,i]perylene	ND		0.134	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzo[k]fluoranthene	ND		0.134	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzoic acid	ND	F1	0.665	0.457	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Benzyl alcohol	ND		0.665	0.120	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Bis(2-chloroethoxy)methane	ND		0.665	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Bis(2-chloroethyl)ether	ND		0.336	0.110	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
bis (2-chloroisopropyl) ether	ND		0.336	0.150	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Bis(2-ethylhexyl) phthalate	**0.0999**	**J**	0.336	0.0856	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Butyl benzyl phthalate	ND		0.665	0.0667	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Carbazole	ND		0.336	0.0880	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Chrysene	ND		0.134	0.0759	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Dibenz(a,h)anthracene	ND		0.134	0.103	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Dibenzofuran	ND		0.336	0.116	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Diethyl phthalate	ND		0.665	0.0729	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Dimethyl phthalate	ND		0.665	0.0866	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Di-n-butyl phthalate	ND		0.665	0.0711	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Di-n-octyl phthalate	ND		0.665	0.110	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Fluoranthene	ND		0.134	0.0787	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Fluorene	ND		0.134	0.123	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Hexachlorobenzene	ND		0.336	0.0932	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Hexachlorobutadiene	ND		0.336	0.168	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND	F1	0.336	0.128	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Hexachloroethane	ND		0.336	0.132	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Indeno[1,2,3-cd]pyrene	ND		0.134	0.114	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Isophorone	ND		0.336	0.0920	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Naphthalene	ND		0.134	0.129	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Nitrobenzene	ND		0.336	0.155	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
N-Nitrosodimethylamine	ND		0.336	0.0882	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
N-Nitrosodi-n-propylamine	ND		0.336	0.134	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
N-Nitrosodiphenylamine	ND		0.665	0.0848	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pentachloronitrobenzene	ND		0.665	0.105	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pentachlorophenol	ND		0.665	0.272	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Phenanthrene	ND		0.134	0.0761	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Phenol	ND		0.665	0.137	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pyrene	ND		0.134	0.0741	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1
Pyridine	ND		0.665	0.157	mg/Kg	☼	03/03/23 08:01	03/08/23 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*15 - 110*	*03/03/23 08:01*	*03/08/23 20:39*	*1*
Terphenyl-d14	*73*		*30 - 130*	*03/03/23 08:01*	*03/08/23 20:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.252	0.129	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.252	0.108	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Ethylbenzene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Methyl tert-butyl ether	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Naphthalene	**0.0376**	**J**	0.0504	0.0343	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
o-Xylene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
Toluene	ND		0.0504	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
C5-C8 Aliphatics (unadjusted)	ND		0.252	0.129	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
C9-C10 Aromatics	ND		0.252	0.0353	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1
C9-C12 Aliphatics (unadjusted)	ND		0.252	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 03:26*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/03/23 07:25*	*03/04/23 03:26*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0204	0.0147	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1221	ND		0.0204	0.00604	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1232	ND		0.0204	0.00566	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0204	0.00323	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1248	ND		0.0204	0.00638	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1254	**0.0880**		0.0204	0.0159	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1262	ND		0.0204	0.00476	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1260	ND		0.0204	0.00439	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1
PCB-1268	ND		0.0204	0.00435	mg/Kg	☼	03/02/23 12:19	03/08/23 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*03/02/23 12:19*	*03/08/23 14:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoroheptanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorononanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorodecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorotridecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorotetradecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorobutanesulfonic acid	ND		1.98	0.395	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorohexanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NEtFOSAA	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NMeFOSAA	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
10:2 FTS	ND		1.98	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoropentanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoroheptanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorononanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorodecanesulfonic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctanesulfonamide	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorohexadecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorooctadecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorobutanoic acid	ND		1.98	0.791	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoropentanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NMeFOSE	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NMeFOSA	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NEtFOSE	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
NEtFOSA	ND		1.98	0.494	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
HFPODA	ND		1.98	0.988	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
DONA	ND		2.96	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
9Cl-PF3ONS	ND		1.98	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
11Cl-PF3OUdS	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluorododecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
4:2 Fluorotelomer sulfonic acid	ND		1.98	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
Perfluoroundecanoic acid	ND		0.593	0.198	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0002' **Lab Sample ID: 620-10051-17**
Date Collected: 03/01/23 10:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.98	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1
8:2 Fluorotelomer sulfonic acid	ND		2.96	0.593	ug/Kg	☼	03/03/23 07:13	03/15/23 23:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
M2-8:2 FTS	*108*		*15 - 200*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
M2-6:2 FTS	*98*		*10 - 200*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C3 PFBS	*108*		*27 - 179*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C8 PFOS	*108*		*41 - 154*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d3-NMeFOSAA	*30*		*10 - 178*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d5-NEtFOSAA	*39*		*10 - 193*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C4 PFBA	*99*		*28 - 153*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d7-N-MeFOSE-M	*97*		*10 - 179*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d3-NMePFOSA	*82*		*10 - 175*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d9-N-EtFOSE-M	*97*		*10 - 185*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/03/23 07:13*	*03/15/23 23:32*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/03/23 07:13*	*03/15/23 23:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.09	1.73	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Arsenic	**1.98**	**J**	3.05	1.42	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Barium	**12.5**		0.509	0.153	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Beryllium	**0.191**	**J**	0.509	0.102	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Cadmium	ND		0.509	0.102	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Chromium	**3.82**		1.53	0.356	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Lead	**2.29**		1.53	0.610	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Nickel	**1.80**		1.02	0.264	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Selenium	ND	F2	5.09	1.53	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Silver	ND	^3+	1.02	0.407	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Thallium	ND	F2	3.05	1.32	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Vanadium	**5.44**		1.02	0.437	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1
Zinc	**7.46**		2.03	0.814	mg/Kg	☼	03/05/23 19:48	03/09/23 18:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0593	0.0198	mg/Kg	☼	03/05/23 20:11	03/06/23 11:59	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0002'
Date Collected: 03/01/23 10:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-17
Matrix: Solid
Percent Solids: 96.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.6		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	96.4		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0204'
Date Collected: 03/01/23 10:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-18
Matrix: Solid
Percent Solids: 96.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00507	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Acetone	ND		0.0507	0.0114	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Acrylonitrile	ND		0.00507	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Benzene	ND		0.00507	0.00339	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromobenzene	ND		0.00507	0.00338	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromochloromethane	ND		0.00507	0.00288	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromodichloromethane	ND		0.00507	0.00372	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromoform	ND		0.00507	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Bromomethane	ND		0.0101	0.00632	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
n-Butylbenzene	ND		0.0101	0.00543	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
sec-Butylbenzene	ND		0.00507	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
tert-Butylbenzene	ND		0.00507	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Carbon disulfide	ND		0.0101	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Carbon tetrachloride	ND		0.00507	0.00319	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chlorobenzene	ND		0.00507	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chloroethane	ND		0.0101	0.00372	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chloroform	ND		0.00507	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Chloromethane	ND		0.0101	0.00389	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2-Chlorotoluene	ND		0.00507	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
4-Chlorotoluene	ND		0.00507	0.00440	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00430	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Dibromochloromethane	ND		0.00507	0.00336	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dibromoethane (EDB)	ND		0.00507	0.00364	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Dibromomethane	ND		0.00507	0.00298	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dichlorobenzene	ND		0.00507	0.00470	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3-Dichlorobenzene	ND		0.00507	0.00407	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,4-Dichlorobenzene	ND		0.00507	0.00481	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00272	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1-Dichloroethane	ND		0.00507	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dichloroethane	ND		0.00507	0.00342	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1-Dichloroethene	ND		0.00507	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
cis-1,2-Dichloroethene	ND		0.00507	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
trans-1,2-Dichloroethene	ND		0.00507	0.00315	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2-Dichloropropane	ND		0.00507	0.00336	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3-Dichloropropane	ND		0.00507	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2,2-Dichloropropane	ND		0.00507	0.00350	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1-Dichloropropene	ND		0.00507	0.00345	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
cis-1,3-Dichloropropene	ND		0.00507	0.00330	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
trans-1,3-Dichloropropene	ND		0.00507	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethylbenzene	ND		0.00507	0.00362	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Hexachlorobutadiene	ND		0.0101	0.00510	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
2-Hexanone (MBK)	ND		0.0101	0.00298	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Isopropylbenzene	ND		0.00507	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
4-Isopropyltoluene	ND		0.00507	0.00498	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Methyl tert-butyl ether	ND		0.00507	0.00292	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Methylene Chloride	ND		0.0101	0.00272	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Naphthalene	ND		0.00507	0.00458	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00507	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Styrene	ND		0.00507	0.00392	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,1,2-Tetrachloroethane	ND		0.00507	0.00380	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,2,2-Tetrachloroethane	ND		0.00507	0.00464	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Tetrachloroethene	ND		0.00507	0.00282	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Toluene	ND		0.00507	0.00321	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,3-Trichlorobenzene	ND		0.00507	0.00428	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,4-Trichlorobenzene	ND		0.00507	0.00467	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3,5-Trichlorobenzene	ND		0.00507	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,1-Trichloroethane	ND		0.00507	0.00346	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,1,2-Trichloroethane	ND		0.00507	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Trichloroethene	ND		0.00507	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Trichlorofluoromethane (Freon 11)	ND		0.00507	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,3-Trichloropropane	ND		0.00507	0.00450	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,2,4-Trimethylbenzene	ND		0.00507	0.00429	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3,5-Trimethylbenzene	ND		0.00507	0.00431	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Vinyl chloride	ND		0.00507	0.00309	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
m,p-Xylene	ND		0.00507	0.00692	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
o-Xylene	ND		0.00507	0.00370	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethyl ether	ND		0.00507	0.00267	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Tert-amyl methyl ether	ND		0.00507	0.00400	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethyl tert-butyl ether	ND		0.00507	0.00334	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
di-Isopropyl ether	ND		0.00507	0.00362	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
tert-Butanol	ND		0.101	0.0272	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00374	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Ethanol	ND		1.01	0.0629	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
1,3-Dichloropropene, Total	ND		0.00507	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1
Xylenes, Total	ND		0.0152	0.00507	mg/Kg	☼	03/02/23 17:46	03/03/23 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 02:38*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.340	0.0605	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,2,4-Trichlorobenzene	ND		0.340	0.0780	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,2-Dichlorobenzene	ND		0.340	0.0656	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,3-Dichlorobenzene	ND		0.340	0.0824	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1,4-Dichlorobenzene	ND		0.340	0.0801	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
1-Methylnaphthalene	ND		0.0688	0.0578	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4,5-Trichlorophenol	ND		0.340	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4,6-Trichlorophenol	ND		0.172	0.0421	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4-Dichlorophenol	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4-Dimethylphenol	ND		0.340	0.0499	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,4-Dinitrophenol	ND		0.340	0.0895	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0204'
Date Collected: 03/01/23 10:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-18
Matrix: Solid
Percent Solids: 96.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2,6-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Chloronaphthalene	ND		0.340	0.0787	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Chlorophenol	ND		0.172	0.0704	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Methylnaphthalene	ND		0.0688	0.0508	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Methylphenol	ND		0.340	0.0497	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Nitroaniline	ND		0.340	0.0324	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
2-Nitrophenol	ND		0.172	0.0612	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
3 & 4 Methylphenol	ND		0.340	0.0645	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
3,3'-Dichlorobenzidine	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
3-Nitroaniline	ND		0.340	0.0304	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4,6-Dinitro-2-methylphenol	ND		0.340	0.0612	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Bromophenyl phenyl ether	ND		0.340	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Chloro-3-methylphenol	ND		0.340	0.0666	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Chloroaniline	ND		0.172	0.0261	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Chlorophenyl phenyl ether	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Nitroaniline	ND		0.172	0.0544	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
4-Nitrophenol	ND		0.340	0.119	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Acenaphthene	ND		0.0688	0.0549	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Acenaphthylene	ND		0.0688	0.0452	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Acetophenone	ND		0.172	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Aniline	ND		0.340	0.0261	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Anthracene	ND		0.0688	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Azobenzene/Diphenyldiazene	ND		0.340	0.0581	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzidine	ND	*1	0.681	0.101	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[a]anthracene	ND		0.0688	0.0387	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[a]pyrene	ND		0.0688	0.0492	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[b]fluoranthene	ND		0.0688	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[g,h,i]perylene	ND		0.0688	0.0537	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzo[k]fluoranthene	ND		0.0688	0.0535	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzoic acid	ND		0.340	0.234	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Benzyl alcohol	ND		0.340	0.0617	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Bis(2-chloroethoxy)methane	ND		0.340	0.0592	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Bis(2-chloroethyl)ether	ND		0.172	0.0563	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
bis (2-chloroisopropyl) ether	ND		0.172	0.0766	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Bis(2-ethylhexyl) phthalate	**0.162**	**J**	0.172	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Butyl benzyl phthalate	ND		0.340	0.0341	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Carbazole	ND		0.172	0.0451	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Chrysene	ND		0.0688	0.0389	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Dibenz(a,h)anthracene	ND		0.0688	0.0525	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Dibenzofuran	ND		0.172	0.0596	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Diethyl phthalate	ND		0.340	0.0373	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Dimethyl phthalate	ND		0.340	0.0443	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Di-n-butyl phthalate	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Di-n-octyl phthalate	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Fluoranthene	ND		0.0688	0.0403	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Fluorene	ND		0.0688	0.0628	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Hexachlorobenzene	ND		0.172	0.0478	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Hexachlorobutadiene	ND		0.172	0.0859	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.172	0.0658	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Hexachloroethane	ND		0.172	0.0677	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0688	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Isophorone	ND		0.172	0.0471	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Naphthalene	ND		0.0688	0.0660	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Nitrobenzene	ND		0.172	0.0795	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
N-Nitrosodimethylamine	ND		0.172	0.0452	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
N-Nitrosodi-n-propylamine	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
N-Nitrosodiphenylamine	ND		0.340	0.0434	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pentachloronitrobenzene	ND		0.340	0.0537	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pentachlorophenol	ND		0.340	0.139	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Phenanthrene	ND		0.0688	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Phenol	ND		0.340	0.0701	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pyrene	ND		0.0688	0.0380	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1
Pyridine	ND		0.340	0.0805	mg/Kg	☼	03/09/23 11:00	03/09/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:08*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Ethylbenzene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Methyl tert-butyl ether	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Naphthalene	ND		0.0519	0.0353	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
o-Xylene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
Toluene	ND		0.0519	0.0104	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
C9-C10 Aromatics	ND		0.260	0.0364	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/03/23 07:17	03/03/23 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:17*	*03/03/23 23:30*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:17*	*03/03/23 23:30*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0148	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1221	ND		0.0205	0.00606	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1232	ND		0.0205	0.00568	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00324	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1248	ND		0.0205	0.00641	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1254	**0.0169**	**J**	0.0205	0.0160	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1262	ND		0.0205	0.00478	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1260	ND		0.0205	0.00441	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1
PCB-1268	ND		0.0205	0.00437	mg/Kg	☼	03/02/23 12:19	03/04/23 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*
Tetrachloro-m-xylene	*77*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*03/02/23 12:19*	*03/04/23 03:50*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoroheptanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorononanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorodecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorotridecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorotetradecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorobutanesulfonic acid	ND		2.03	0.406	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorohexanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NEtFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NMeFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
10:2 FTS	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoropentanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoroheptanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorononanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorodecanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctanesulfonamide	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorohexadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorooctadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorobutanoic acid	ND		2.03	0.812	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoropentanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NMeFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NMeFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NEtFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
NEtFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
HFPODA	ND		2.03	1.02	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
DONA	ND		3.05	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
9Cl-PF3ONS	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
11Cl-PF3OUdS	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluorododecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
4:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
Perfluoroundecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1

Client Sample ID: 2023-SB-15-0204' **Lab Sample ID: 620-10051-18**
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1
8:2 Fluorotelomer sulfonic acid	ND		3.05	0.609	ug/Kg	☼	03/03/23 07:14	03/15/23 03:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
M2-8:2 FTS	*66*		*15 - 200*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
M2-6:2 FTS	*71*		*10 - 200*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C5 PFHxA	*75*		*10 - 174*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C4 PFHpA	*77*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C8 PFOA	*74*		*26 - 159*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C9 PFNA	*75*		*26 - 165*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C6 PFDA	*68*		*26 - 161*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C7 PFUnA	*76*		*12 - 173*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C2-PFDoDA	*74*		*11 - 166*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C2 PFTeDA	*78*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C3 PFBS	*66*		*27 - 179*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C3 PFHxS	*73*		*24 - 171*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C8 PFOS	*71*		*41 - 154*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d3-NMeFOSAA	*30*		*10 - 178*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d5-NEtFOSAA	*33*		*10 - 193*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C8 FOSA	*71*		*14 - 163*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C5 PFPeA	*70*		*24 - 161*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d7-N-MeFOSE-M	*66*		*10 - 179*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d3-NMePFOSA	*62*		*10 - 175*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d9-N-EtFOSE-M	*67*		*10 - 185*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
d5-NEtPFOSA	*64*		*10 - 180*	*03/03/23 07:14*	*03/15/23 03:21*	*1*
13C3 HFPO-DA	*73*		*10 - 169*	*03/03/23 07:14*	*03/15/23 03:21*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.98	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Arsenic	**2.38**	**J**	2.99	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Barium	**17.7**		0.498	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Beryllium	**0.210**	**J**	0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Cadmium	ND		0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Chromium	**4.13**		1.49	0.349	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Lead	**3.10**		1.49	0.598	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Nickel	**2.45**		0.996	0.259	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Selenium	ND		4.98	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Silver	ND	^3+	0.996	0.398	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Thallium	ND		2.99	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Vanadium	**6.10**		0.996	0.428	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1
Zinc	**9.08**		1.99	0.797	mg/Kg	☼	03/08/23 00:33	03/10/23 05:41	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0592	0.0197	mg/Kg	☼	03/14/23 11:01	03/14/23 14:21	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0204'
Date Collected: 03/01/23 10:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-18
Matrix: Solid
Percent Solids: 96.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.5		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	96.5		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'
Date Collected: 03/01/23 10:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-19
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00522	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Acetone	ND		0.0522	0.0117	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Acrylonitrile	ND		0.00522	0.00313	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Benzene	ND		0.00522	0.00349	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromobenzene	ND		0.00522	0.00348	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromochloromethane	ND		0.00522	0.00297	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromodichloromethane	ND		0.00522	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromoform	ND		0.00522	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Bromomethane	ND		0.0104	0.00651	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2-Butanone (MEK)	ND		0.0104	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
n-Butylbenzene	ND		0.0104	0.00560	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
sec-Butylbenzene	ND		0.00522	0.00421	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
tert-Butylbenzene	ND		0.00522	0.00412	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Carbon disulfide	ND		0.0104	0.00367	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Carbon tetrachloride	ND		0.00522	0.00329	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chlorobenzene	ND		0.00522	0.00382	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chloroform	ND		0.00522	0.00351	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Chloromethane	ND		0.0104	0.00401	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2-Chlorotoluene	ND		0.00522	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
4-Chlorotoluene	ND		0.00522	0.00453	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00443	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Dibromochloromethane	ND		0.00522	0.00346	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dibromoethane (EDB)	ND		0.00522	0.00375	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Dibromomethane	ND		0.00522	0.00307	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dichlorobenzene	ND		0.00522	0.00485	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3-Dichlorobenzene	ND		0.00522	0.00419	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,4-Dichlorobenzene	ND		0.00522	0.00495	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0104	0.00280	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1-Dichloroethane	ND		0.00522	0.00354	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dichloroethane	ND		0.00522	0.00352	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1-Dichloroethene	ND		0.00522	0.00320	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
cis-1,2-Dichloroethene	ND		0.00522	0.00302	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
trans-1,2-Dichloroethene	ND		0.00522	0.00325	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2-Dichloropropane	ND		0.00522	0.00346	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3-Dichloropropane	ND		0.00522	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2,2-Dichloropropane	ND		0.00522	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1-Dichloropropene	ND		0.00522	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
cis-1,3-Dichloropropene	ND		0.00522	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
trans-1,3-Dichloropropene	ND		0.00522	0.00397	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethylbenzene	ND		0.00522	0.00373	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Hexachlorobutadiene	ND		0.0104	0.00525	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
2-Hexanone (MBK)	ND		0.0104	0.00307	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Isopropylbenzene	ND		0.00522	0.00395	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
4-Isopropyltoluene	ND		0.00522	0.00513	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Methyl tert-butyl ether	ND		0.00522	0.00301	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00337	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Methylene Chloride	ND		0.0104	0.00280	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Naphthalene	ND		0.00522	0.00472	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Styrene	ND		0.00522	0.00404	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,1,2-Tetrachloroethane	ND		0.00522	0.00392	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,2,2-Tetrachloroethane	ND		0.00522	0.00478	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Tetrachloroethene	ND		0.00522	0.00290	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Toluene	ND		0.00522	0.00331	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,3-Trichlorobenzene	ND		0.00522	0.00441	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,4-Trichlorobenzene	ND		0.00522	0.00482	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3,5-Trichlorobenzene	ND		0.00522	0.00496	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,1-Trichloroethane	ND		0.00522	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,1,2-Trichloroethane	ND		0.00522	0.00394	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Trichloroethene	ND		0.00522	0.00351	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Trichlorofluoromethane (Freon 11)	ND		0.00522	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,3-Trichloropropane	ND		0.00522	0.00464	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,2,4-Trimethylbenzene	ND		0.00522	0.00442	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3,5-Trimethylbenzene	ND		0.00522	0.00444	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Vinyl chloride	ND		0.00522	0.00319	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
m,p-Xylene	ND		0.00522	0.00713	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
o-Xylene	ND		0.00522	0.00381	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethyl ether	ND		0.00522	0.00275	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Tert-amyl methyl ether	ND		0.00522	0.00413	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethyl tert-butyl ether	ND		0.00522	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
di-Isopropyl ether	ND		0.00522	0.00373	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
tert-Butanol	ND		0.104	0.0280	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,4-Dioxane	ND		0.104	0.0325	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Ethanol	ND		1.04	0.0648	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
1,3-Dichloropropene, Total	ND		0.00522	0.00397	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1
Xylenes, Total	ND		0.0157	0.00522	mg/Kg	☼	03/02/23 17:46	03/03/23 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/03/23 03:03*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.343	0.0610	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,2,4-Trichlorobenzene	ND		0.343	0.0786	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,2-Dichlorobenzene	ND		0.343	0.0661	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,3-Dichlorobenzene	ND		0.343	0.0831	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1,4-Dichlorobenzene	ND		0.343	0.0808	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
1-Methylnaphthalene	ND		0.0694	0.0582	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4,5-Trichlorophenol	ND		0.343	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4,6-Trichlorophenol	ND		0.174	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4-Dichlorophenol	ND		0.174	0.0692	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4-Dimethylphenol	ND		0.343	0.0503	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,4-Dinitrophenol	ND		0.343	0.0903	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'
Date Collected: 03/01/23 10:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-19
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.174	0.0407	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2,6-Dinitrotoluene	ND		0.174	0.0407	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Chloronaphthalene	ND		0.343	0.0793	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Chlorophenol	ND		0.174	0.0710	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Methylnaphthalene	ND		0.0694	0.0513	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Methylphenol	ND		0.343	0.0501	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Nitroaniline	ND		0.343	0.0327	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
2-Nitrophenol	ND		0.174	0.0617	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
3 & 4 Methylphenol	ND		0.343	0.0650	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
3,3'-Dichlorobenzidine	ND		0.343	0.0567	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
3-Nitroaniline	ND		0.343	0.0307	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4,6-Dinitro-2-methylphenol	ND		0.343	0.0617	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Bromophenyl phenyl ether	ND		0.343	0.0388	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Chloro-3-methylphenol	ND		0.343	0.0672	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Chloroaniline	ND		0.174	0.0263	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Chlorophenyl phenyl ether	ND		0.343	0.0367	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Nitroaniline	ND		0.174	0.0548	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
4-Nitrophenol	ND		0.343	0.120	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Acenaphthene	ND		0.0694	0.0553	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Acenaphthylene	ND		0.0694	0.0455	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Acetophenone	ND		0.174	0.0423	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Aniline	ND		0.343	0.0263	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Anthracene	ND		0.0694	0.0401	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Azobenzene/Diphenyldiazene	ND		0.343	0.0585	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzidine	ND	*1	0.686	0.102	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[a]anthracene	ND		0.0694	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[a]pyrene	ND		0.0694	0.0496	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[b]fluoranthene	ND		0.0694	0.0575	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[g,h,i]perylene	ND		0.0694	0.0542	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzo[k]fluoranthene	ND		0.0694	0.0540	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzoic acid	ND		0.343	0.236	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Benzyl alcohol	ND		0.343	0.0622	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Bis(2-chloroethoxy)methane	ND		0.343	0.0597	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Bis(2-chloroethyl)ether	ND		0.174	0.0568	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
bis (2-chloroisopropyl) ether	ND		0.174	0.0773	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Bis(2-ethylhexyl) phthalate	ND		0.174	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Butyl benzyl phthalate	ND		0.343	0.0344	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Carbazole	ND		0.174	0.0454	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Chrysene	ND		0.0694	0.0392	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Dibenz(a,h)anthracene	ND		0.0694	0.0529	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Dibenzofuran	ND		0.174	0.0601	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Diethyl phthalate	ND		0.343	0.0376	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Dimethyl phthalate	ND		0.343	0.0447	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Di-n-butyl phthalate	ND		0.343	0.0367	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Di-n-octyl phthalate	ND		0.343	0.0567	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Fluoranthene	ND		0.0694	0.0407	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Fluorene	ND		0.0694	0.0633	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Hexachlorobenzene	ND		0.174	0.0481	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Hexachlorobutadiene	ND		0.174	0.0866	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.174	0.0663	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Hexachloroethane	ND		0.174	0.0682	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0694	0.0589	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Isophorone	ND		0.174	0.0475	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Naphthalene	ND		0.0694	0.0666	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Nitrobenzene	ND		0.174	0.0802	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
N-Nitrosodimethylamine	ND		0.174	0.0455	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
N-Nitrosodi-n-propylamine	ND		0.174	0.0692	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
N-Nitrosodiphenylamine	ND		0.343	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pentachloronitrobenzene	ND		0.343	0.0542	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pentachlorophenol	ND		0.343	0.140	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Phenanthrene	ND		0.0694	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Phenol	ND		0.343	0.0707	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pyrene	ND		0.0694	0.0383	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1
Pyridine	ND		0.343	0.0812	mg/Kg	☼	03/09/23 11:00	03/09/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/09/23 11:00*	*03/09/23 18:36*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/09/23 11:00*	*03/09/23 18:36*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.193	0.0986	mg/Kg			03/06/23 12:30	1
C9-C12 Aliphatics (adjusted)	ND		0.193	0.0824	mg/Kg			03/06/23 12:30	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Ethylbenzene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Methyl tert-butyl ether	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
m,p-Xylene	ND		0.0770	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Naphthalene	ND		0.0385	0.0262	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
o-Xylene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
Toluene	ND		0.0385	0.00770	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
C5-C8 Aliphatics (unadjusted)	ND		0.193	0.0986	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
C9-C10 Aromatics	ND		0.193	0.0270	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1
C9-C12 Aliphatics (unadjusted)	ND		0.193	0.0824	mg/Kg	☼	03/03/23 07:17	03/04/23 00:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:17*	*03/04/23 00:09*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:17*	*03/04/23 00:09*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.206	0.149	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1221	ND		0.206	0.0610	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1232	ND		0.206	0.0572	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.206	0.0326	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1248	ND		0.206	0.0645	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1254	**1.09**		0.206	0.161	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1262	ND		0.206	0.0481	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1260	ND		0.206	0.0444	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10
PCB-1268	ND		0.206	0.0440	mg/Kg	☼	03/02/23 13:08	03/08/23 00:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/02/23 13:08*	*03/08/23 00:49*	*10*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoroheptanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorononanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorodecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorotridecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorotetradecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorobutanesulfonic acid	ND		2.01	0.402	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorohexanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NEtFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NMeFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
10:2 FTS	ND		2.01	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoropentanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoroheptanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorononanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorodecanesulfonic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctanesulfonamide	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorohexadecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorooctadecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorobutanoic acid	ND		2.01	0.804	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoropentanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NMeFOSE	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NMeFOSA	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NEtFOSE	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
NEtFOSA	ND		2.01	0.503	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
HFPODA	ND		2.01	1.01	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
DONA	ND		3.02	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
9Cl-PF3ONS	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
11Cl-PF3OUdS	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluorododecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
4:2 Fluorotelomer sulfonic acid	ND		2.01	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
Perfluoroundecanoic acid	ND		0.603	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1

Client Sample ID: 2023-SB-15-0406' **Lab Sample ID: 620-10051-19**
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.01	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1
8:2 Fluorotelomer sulfonic acid	ND		3.02	0.603	ug/Kg	☼	03/03/23 07:13	03/16/23 00:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C4 PFHpA	*104*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C6 PFDA	*98*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C7 PFUnA	*106*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C2-PFDoDA	*98*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C2 PFTeDA	*113*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C3 PFBS	*106*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C3 PFHxS	*107*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C8 PFOS	*104*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d3-NMeFOSAA	*27*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d5-NEtFOSAA	*32*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C8 FOSA	*94*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C4 PFBA	*98*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C5 PFPeA	*96*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d7-N-MeFOSE-M	*88*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d9-N-EtFOSE-M	*89*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
d5-NEtPFOSA	*81*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:06*	*1*
13C3 HFPO-DA	*98*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:06*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.98	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Arsenic	**2.74**	**J**	2.99	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Barium	**13.3**		0.498	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Beryllium	**0.143**	**J**	0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Cadmium	ND		0.498	0.0996	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Chromium	**4.29**		1.49	0.348	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Lead	**2.05**		1.49	0.597	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Nickel	**1.51**		0.996	0.259	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Selenium	ND		4.98	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Silver	ND	^3+	0.996	0.398	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Thallium	ND		2.99	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Vanadium	**4.85**		0.996	0.428	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1
Zinc	**7.74**		1.99	0.797	mg/Kg	☼	03/08/23 00:33	03/10/23 05:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0603	0.0201	mg/Kg	☼	03/07/23 20:58	03/08/23 12:15	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0406'
Date Collected: 03/01/23 10:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-19
Matrix: Solid
Percent Solids: 94.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.3		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	94.7		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0608'
Date Collected: 03/01/23 10:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-20
Matrix: Solid
Percent Solids: 94.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00555	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Acetone	ND		0.0555	0.0124	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Acrylonitrile	ND		0.00555	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Benzene	ND		0.00555	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromobenzene	ND		0.00555	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromochloromethane	ND		0.00555	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromodichloromethane	ND		0.00555	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromoform	ND		0.00555	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Bromomethane	ND		0.0111	0.00692	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2-Butanone (MEK)	ND		0.0111	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
n-Butylbenzene	ND		0.0111	0.00595	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
sec-Butylbenzene	ND		0.00555	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
tert-Butylbenzene	ND		0.00555	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Carbon disulfide	ND		0.0111	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Carbon tetrachloride	ND		0.00555	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chlorobenzene	ND		0.00555	0.00406	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chloroethane	ND		0.0111	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chloroform	ND		0.00555	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Chloromethane	ND		0.0111	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2-Chlorotoluene	ND		0.00555	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
4-Chlorotoluene	ND		0.00555	0.00482	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dibromo-3-Chloropropane	ND		0.0111	0.00471	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Dibromochloromethane	ND		0.00555	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dibromoethane (EDB)	ND		0.00555	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Dibromomethane	ND		0.00555	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dichlorobenzene	ND		0.00555	0.00515	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3-Dichlorobenzene	ND		0.00555	0.00445	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,4-Dichlorobenzene	ND		0.00555	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Dichlorodifluoromethane (Freon 12)	ND		0.0111	0.00298	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1-Dichloroethane	ND		0.00555	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dichloroethane	ND		0.00555	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1-Dichloroethene	ND		0.00555	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
cis-1,2-Dichloroethene	ND		0.00555	0.00321	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
trans-1,2-Dichloroethene	ND		0.00555	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2-Dichloropropane	ND		0.00555	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3-Dichloropropane	ND		0.00555	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2,2-Dichloropropane	ND		0.00555	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1-Dichloropropene	ND		0.00555	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
cis-1,3-Dichloropropene	ND		0.00555	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
trans-1,3-Dichloropropene	ND		0.00555	0.00422	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethylbenzene	ND		0.00555	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Hexachlorobutadiene	ND		0.0111	0.00559	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
2-Hexanone (MBK)	ND		0.0111	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Isopropylbenzene	ND		0.00555	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
4-Isopropyltoluene	ND		0.00555	0.00545	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Methyl tert-butyl ether	ND		0.00555	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		0.0111	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Methylene Chloride	ND		0.0111	0.00298	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Naphthalene	ND		0.00555	0.00502	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00555	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Styrene	ND		0.00555	0.00430	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,1,2-Tetrachloroethane	ND		0.00555	0.00416	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,2,2-Tetrachloroethane	ND		0.00555	0.00509	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Tetrachloroethene	ND		0.00555	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Toluene	ND		0.00555	0.00352	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,3-Trichlorobenzene	ND		0.00555	0.00469	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,4-Trichlorobenzene	ND		0.00555	0.00512	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3,5-Trichlorobenzene	ND		0.00555	0.00528	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,1-Trichloroethane	ND		0.00555	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,1,2-Trichloroethane	ND		0.00555	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Trichloroethene	ND		0.00555	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Trichlorofluoromethane (Freon 11)	ND		0.00555	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,3-Trichloropropane	ND		0.00555	0.00493	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,2,4-Trimethylbenzene	ND		0.00555	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3,5-Trimethylbenzene	ND		0.00555	0.00472	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Vinyl chloride	ND		0.00555	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
m,p-Xylene	ND		0.00555	0.00759	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
o-Xylene	ND		0.00555	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Tetrahydrofuran	ND		0.0111	0.00281	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethyl ether	ND		0.00555	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Tert-amyl methyl ether	ND		0.00555	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethyl tert-butyl ether	ND		0.00555	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
di-Isopropyl ether	ND		0.00555	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
tert-Butanol	ND		0.111	0.0298	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,4-Dioxane	ND		0.111	0.0345	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
trans-1,4-Dichloro-2-butene	ND		0.0278	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Ethanol	ND		1.11	0.0689	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
1,3-Dichloropropene, Total	ND		0.00555	0.00422	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1
Xylenes, Total	ND		0.0167	0.00555	mg/Kg	☼	03/03/23 10:32	03/03/23 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:30*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.346	0.0616	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,2,4-Trichlorobenzene	ND		0.346	0.0793	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,2-Dichlorobenzene	ND		0.346	0.0667	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,3-Dichlorobenzene	ND		0.346	0.0838	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1,4-Dichlorobenzene	ND		0.346	0.0815	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
1-Methylnaphthalene	ND		0.0700	0.0588	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4,5-Trichlorophenol	ND		0.346	0.0397	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4,6-Trichlorophenol	ND		0.175	0.0428	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4-Dichlorophenol	ND		0.175	0.0698	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4-Dimethylphenol	ND		0.346	0.0508	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,4-Dinitrophenol	ND		0.346	0.0911	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0608'
Date Collected: 03/01/23 10:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-20
Matrix: Solid
Percent Solids: 94.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2,6-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Chloronaphthalene	ND		0.346	0.0800	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Chlorophenol	ND		0.175	0.0717	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Methylnaphthalene	ND		0.0700	0.0517	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Methylphenol	ND		0.346	0.0506	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Nitroaniline	ND		0.346	0.0329	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
2-Nitrophenol	ND		0.175	0.0622	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
3 & 4 Methylphenol	ND		0.346	0.0656	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
3,3'-Dichlorobenzidine	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
3-Nitroaniline	ND		0.346	0.0309	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4,6-Dinitro-2-methylphenol	ND		0.346	0.0622	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Bromophenyl phenyl ether	ND		0.346	0.0391	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Chloro-3-methylphenol	ND		0.346	0.0678	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Chlorophenyl phenyl ether	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Nitroaniline	ND		0.175	0.0553	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
4-Nitrophenol	ND		0.346	0.121	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Acenaphthene	ND		0.0700	0.0558	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Acenaphthylene	ND		0.0700	0.0460	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Acetophenone	ND		0.175	0.0427	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Aniline	ND		0.346	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Anthracene	ND		0.0700	0.0405	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Azobenzene/Diphenyldiazene	ND		0.346	0.0591	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzidine	ND	*1	0.692	0.103	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[a]anthracene	ND		0.0700	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[a]pyrene	ND		0.0700	0.0500	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[b]fluoranthene	ND		0.0700	0.0580	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[g,h,i]perylene	ND		0.0700	0.0547	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzo[k]fluoranthene	ND		0.0700	0.0545	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzoic acid	ND		0.346	0.238	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Benzyl alcohol	ND		0.346	0.0627	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Bis(2-chloroethoxy)methane	ND		0.346	0.0602	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Bis(2-chloroethyl)ether	ND		0.175	0.0573	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0780	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Bis(2-ethylhexyl) phthalate	ND		0.175	0.0446	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Butyl benzyl phthalate	ND		0.346	0.0347	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Carbazole	ND		0.175	0.0458	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Chrysene	ND		0.0700	0.0396	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Dibenz(a,h)anthracene	ND		0.0700	0.0534	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Dibenzofuran	ND		0.175	0.0606	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Diethyl phthalate	ND		0.346	0.0380	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Dimethyl phthalate	ND		0.346	0.0451	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Di-n-butyl phthalate	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Di-n-octyl phthalate	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Fluoranthene	ND		0.0700	0.0410	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Fluorene	ND		0.0700	0.0639	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Hexachlorobenzene	ND		0.175	0.0486	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Hexachlorobutadiene	ND		0.175	0.0874	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0669	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Hexachloroethane	ND		0.175	0.0688	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0700	0.0594	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Isophorone	ND		0.175	0.0479	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Naphthalene	ND		0.0700	0.0671	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Nitrobenzene	ND		0.175	0.0809	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
N-Nitrosodimethylamine	ND		0.175	0.0460	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0698	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
N-Nitrosodiphenylamine	ND		0.346	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pentachloronitrobenzene	ND		0.346	0.0547	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pentachlorophenol	ND		0.346	0.142	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Phenanthrene	ND		0.0700	0.0397	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Phenol	ND		0.346	0.0713	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pyrene	ND		0.0700	0.0386	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1
Pyridine	ND		0.346	0.0819	mg/Kg	☼	03/09/23 11:00	03/09/23 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
2-Fluorophenol (Surr)	*79*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
Nitrobenzene-d5 (Surr)	*52*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
Phenol-d5 (Surr)	*60*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:04*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:04*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.343	0.176	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.343	0.147	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Ethylbenzene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Methyl tert-butyl ether	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
m,p-Xylene	ND		0.137	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Naphthalene	**0.0534**	**J**	0.0687	0.0467	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
o-Xylene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
Toluene	ND		0.0687	0.0137	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
C5-C8 Aliphatics (unadjusted)	ND		0.343	0.176	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
C9-C10 Aromatics	ND		0.343	0.0481	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1
C9-C12 Aliphatics (unadjusted)	ND		0.343	0.147	mg/Kg	☼	03/03/23 07:25	03/04/23 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 05:24*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/03/23 07:25*	*03/04/23 05:24*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1221	ND		0.0208	0.00614	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1232	ND		0.0208	0.00576	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00328	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1254	ND		0.0208	0.0162	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1262	ND		0.0208	0.00484	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1260	ND		0.0208	0.00447	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/02/23 13:08	03/04/23 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*41*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*
DCB Decachlorobiphenyl (Surr)	*43*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*
DCB Decachlorobiphenyl (Surr)	*44*		*30 - 150*	*03/02/23 13:08*	*03/04/23 04:09*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoroheptanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorononanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorodecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorotridecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorotetradecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorobutanesulfonic acid	ND		2.01	0.401	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorohexanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NEtFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NMeFOSAA	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
10:2 FTS	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoropentanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoroheptanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorononanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorodecanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctanesulfonamide	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorohexadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorooctadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorobutanoic acid	ND		2.01	0.803	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoropentanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NMeFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NMeFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NEtFOSE	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
NEtFOSA	ND		2.01	0.502	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
HFPODA	ND		2.01	1.00	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
DONA	ND		3.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
9Cl-PF3ONS	ND		2.01	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
11Cl-PF3OUdS	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluorododecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
4:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
Perfluoroundecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0608' **Lab Sample ID: 620-10051-20**
Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1
8:2 Fluorotelomer sulfonic acid	ND		3.01	0.602	ug/Kg	☼	03/03/23 07:13	03/16/23 00:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
M2-8:2 FTS	*117*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
M2-6:2 FTS	*108*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C5 PFHxA	*106*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C4 PFHpA	*114*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C8 PFOA	*111*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C6 PFDA	*109*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C2-PFDoDA	*113*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C2 PFTeDA	*128*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C8 PFOS	*113*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d3-NMeFOSAA	*60*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d5-NEtFOSAA	*63*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C8 FOSA	*116*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C4 PFBA	*108*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C5 PFPeA	*106*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d7-N-MeFOSE-M	*110*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d3-NMePFOSA	*101*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d9-N-EtFOSE-M	*107*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
d5-NEtPFOSA	*104*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:17*	*1*
13C3 HFPO-DA	*107*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:17*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.92	1.67	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Arsenic	**1.98**	**J**	2.95	1.38	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Barium	**13.8**		0.492	0.148	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Beryllium	**0.153**	**J**	0.492	0.0985	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Cadmium	ND		0.492	0.0985	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Chromium	**3.77**		1.48	0.345	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Lead	**1.87**		1.48	0.591	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Nickel	**1.50**		0.985	0.256	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Selenium	ND		4.92	1.48	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Silver	ND	^3+	0.985	0.394	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Thallium	ND		2.95	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Vanadium	**5.30**		0.985	0.423	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1
Zinc	**8.34**		1.97	0.788	mg/Kg	☼	03/08/23 00:33	03/10/23 05:19	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0622	0.0207	mg/Kg	☼	03/07/23 20:58	03/08/23 12:17	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0608'
Date Collected: 03/01/23 10:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-20
Matrix: Solid
Percent Solids: 94.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.1		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	94.9		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0810'
Date Collected: 03/01/23 10:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-21
Matrix: Solid
Percent Solids: 87.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00551	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Acetone	ND		0.0551	0.0123	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Acrylonitrile	ND		0.00551	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Benzene	ND		0.00551	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromobenzene	ND		0.00551	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromochloromethane	ND		0.00551	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromodichloromethane	ND		0.00551	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromoform	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Bromomethane	ND		0.0110	0.00687	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2-Butanone (MEK)	ND		0.0110	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
n-Butylbenzene	ND		0.0110	0.00591	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
sec-Butylbenzene	ND		0.00551	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
tert-Butylbenzene	ND		0.00551	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Carbon disulfide	ND		0.0110	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Carbon tetrachloride	ND		0.00551	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chlorobenzene	ND		0.00551	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chloroethane	ND		0.0110	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chloroform	ND		0.00551	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Chloromethane	ND		0.0110	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2-Chlorotoluene	ND		0.00551	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
4-Chlorotoluene	ND		0.00551	0.00478	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0110	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Dibromochloromethane	ND		0.00551	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dibromoethane (EDB)	ND		0.00551	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Dibromomethane	ND		0.00551	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dichlorobenzene	ND		0.00551	0.00511	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3-Dichlorobenzene	ND		0.00551	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,4-Dichlorobenzene	ND		0.00551	0.00522	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0110	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1-Dichloroethane	ND		0.00551	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dichloroethane	ND		0.00551	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1-Dichloroethene	ND		0.00551	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
cis-1,2-Dichloroethene	ND		0.00551	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
trans-1,2-Dichloroethene	ND		0.00551	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2-Dichloropropane	ND		0.00551	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3-Dichloropropane	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2,2-Dichloropropane	ND		0.00551	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1-Dichloropropene	ND		0.00551	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
cis-1,3-Dichloropropene	ND		0.00551	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
trans-1,3-Dichloropropene	ND		0.00551	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethylbenzene	ND		0.00551	0.00393	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Hexachlorobutadiene	ND		0.0110	0.00554	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
2-Hexanone (MBK)	ND		0.0110	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Isopropylbenzene	ND		0.00551	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
4-Isopropyltoluene	ND		0.00551	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Methyl tert-butyl ether	ND		0.00551	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00356	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Methylene Chloride	ND		0.0110	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Naphthalene	ND		0.00551	0.00498	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00551	0.00466	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Styrene	ND		0.00551	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,1,2-Tetrachloroethane	ND		0.00551	0.00413	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,2,2-Tetrachloroethane	ND		0.00551	0.00505	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Tetrachloroethene	ND		0.00551	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Toluene	ND		0.00551	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,3-Trichlorobenzene	ND		0.00551	0.00465	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,4-Trichlorobenzene	ND		0.00551	0.00508	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3,5-Trichlorobenzene	ND		0.00551	0.00523	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,1-Trichloroethane	ND		0.00551	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,1,2-Trichloroethane	ND		0.00551	0.00415	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Trichloroethene	ND		0.00551	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00551	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,3-Trichloropropane	ND		0.00551	0.00489	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,2,4-Trimethylbenzene	ND		0.00551	0.00466	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3,5-Trimethylbenzene	ND		0.00551	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Vinyl chloride	ND		0.00551	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
m,p-Xylene	ND		0.00551	0.00753	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
o-Xylene	ND		0.00551	0.00402	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Tetrahydrofuran	ND		0.0110	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethyl ether	ND		0.00551	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Tert-amyl methyl ether	ND		0.00551	0.00435	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethyl tert-butyl ether	ND		0.00551	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
di-Isopropyl ether	ND		0.00551	0.00393	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
tert-Butanol	ND		0.110	0.0295	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,4-Dioxane	ND		0.110	0.0343	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
trans-1,4-Dichloro-2-butene	ND		0.0276	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Ethanol	ND		1.10	0.0683	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
1,3-Dichloropropene, Total	ND		0.00551	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1
Xylenes, Total	ND		0.0165	0.00551	mg/Kg	☼	03/03/23 10:32	03/03/23 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:55*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.370	0.0658	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,2,4-Trichlorobenzene	ND		0.370	0.0847	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,2-Dichlorobenzene	ND		0.370	0.0713	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,3-Dichlorobenzene	ND		0.370	0.0895	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1,4-Dichlorobenzene	ND		0.370	0.0871	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
1-Methylnaphthalene	ND		0.0747	0.0628	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4,5-Trichlorophenol	ND		0.370	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4,6-Trichlorophenol	ND		0.187	0.0457	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4-Dichlorophenol	ND		0.187	0.0745	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4-Dimethylphenol	ND		0.370	0.0542	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,4-Dinitrophenol	ND		0.370	0.0973	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-0810'
Date Collected: 03/01/23 10:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-21
Matrix: Solid
Percent Solids: 87.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2,6-Dinitrotoluene	ND		0.187	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Chloronaphthalene	ND		0.370	0.0855	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Chlorophenol	ND		0.187	0.0765	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Methylnaphthalene	ND		0.0747	0.0552	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Methylphenol	ND		0.370	0.0540	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Nitroaniline	ND		0.370	0.0352	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
2-Nitrophenol	ND		0.187	0.0665	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
3 & 4 Methylphenol	ND		0.370	0.0700	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
3,3'-Dichlorobenzidine	ND		0.370	0.0611	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
3-Nitroaniline	ND		0.370	0.0331	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4,6-Dinitro-2-methylphenol	ND		0.370	0.0665	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Bromophenyl phenyl ether	ND		0.370	0.0418	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Chloro-3-methylphenol	ND		0.370	0.0724	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Chloroaniline	ND		0.187	0.0284	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Chlorophenyl phenyl ether	ND		0.370	0.0396	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Nitroaniline	ND		0.187	0.0591	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
4-Nitrophenol	ND		0.370	0.129	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Acenaphthene	ND		0.0747	0.0596	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Acenaphthylene	ND		0.0747	0.0491	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Acetophenone	ND		0.187	0.0456	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Aniline	ND		0.370	0.0284	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Anthracene	ND		0.0747	0.0433	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Azobenzene/Diphenyldiazene	ND		0.370	0.0631	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzidine	ND	*1	0.740	0.109	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[a]anthracene	ND		0.0747	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[a]pyrene	ND		0.0747	0.0535	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[b]fluoranthene	ND		0.0747	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[g,h,i]perylene	ND		0.0747	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzo[k]fluoranthene	ND		0.0747	0.0582	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzoic acid	**1.36**		0.370	0.254	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Benzyl alcohol	ND		0.370	0.0670	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Bis(2-chloroethoxy)methane	ND		0.370	0.0643	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Bis(2-chloroethyl)ether	ND		0.187	0.0612	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0833	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Bis(2-ethylhexyl) phthalate	ND		0.187	0.0476	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Butyl benzyl phthalate	ND		0.370	0.0371	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Carbazole	ND		0.187	0.0490	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Chrysene	ND		0.0747	0.0422	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Dibenz(a,h)anthracene	ND		0.0747	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Dibenzofuran	ND		0.187	0.0648	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Diethyl phthalate	ND		0.370	0.0406	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Dimethyl phthalate	ND		0.370	0.0482	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Di-n-butyl phthalate	ND		0.370	0.0396	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Di-n-octyl phthalate	ND		0.370	0.0611	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Fluoranthene	ND		0.0747	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Fluorene	ND		0.0747	0.0682	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Hexachlorobenzene	ND		0.187	0.0519	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Hexachlorobutadiene	ND		0.187	0.0933	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0715	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Hexachloroethane	ND		0.187	0.0735	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0747	0.0634	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Isophorone	ND		0.187	0.0512	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Naphthalene	ND		0.0747	0.0717	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Nitrobenzene	ND		0.187	0.0864	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
N-Nitrosodimethylamine	ND		0.187	0.0491	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0745	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
N-Nitrosodiphenylamine	ND		0.370	0.0472	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pentachloronitrobenzene	ND		0.370	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pentachlorophenol	ND		0.370	0.151	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Phenanthrene	ND		0.0747	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Phenol	ND		0.370	0.0762	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pyrene	ND		0.0747	0.0412	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1
Pyridine	ND		0.370	0.0875	mg/Kg	☼	03/09/23 11:00	03/09/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
2-Fluorophenol (Surr)	*106*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
Phenol-d5 (Surr)	*87*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
2,4,6-Tribromophenol (Surr)	*107*		*15 - 110*	*03/09/23 11:00*	*03/09/23 19:33*	*1*
Terphenyl-d14	*98*		*30 - 130*	*03/09/23 11:00*	*03/09/23 19:33*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.252	0.129	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.252	0.108	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Ethylbenzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Methyl tert-butyl ether	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Naphthalene	ND		0.0505	0.0343	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
o-Xylene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
Toluene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
C5-C8 Aliphatics (unadjusted)	ND		0.252	0.129	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
C9-C10 Aromatics	ND		0.252	0.0353	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1
C9-C12 Aliphatics (unadjusted)	ND		0.252	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:03*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:03*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0185	0.0133	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1221	ND		0.0185	0.00547	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1232	ND		0.0185	0.00513	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0185	0.00293	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1248	ND		0.0185	0.00579	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1254	**0.0818**		0.0185	0.0144	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1262	ND		0.0185	0.00431	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1260	ND		0.0185	0.00398	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1
PCB-1268	ND		0.0185	0.00394	mg/Kg	☼	03/07/23 15:15	03/08/23 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/07/23 15:15*	*03/08/23 23:01*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoroheptanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorononanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorodecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorotridecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorotetradecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorobutanesulfonic acid	ND		2.15	0.429	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorohexanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NEtFOSAA	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NMeFOSAA	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
10:2 FTS	ND		2.15	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoropentanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoroheptanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorononanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorodecanesulfonic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctanesulfonamide	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorohexadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorooctadecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorobutanoic acid	ND		2.15	0.858	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoropentanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NMeFOSE	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NMeFOSA	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NEtFOSE	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
NEtFOSA	ND		2.15	0.536	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
HFPODA	ND		2.15	1.07	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
DONA	ND		3.22	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
9Cl-PF3ONS	ND		2.15	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
11Cl-PF3OUdS	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluorododecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
4:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
Perfluoroundecanoic acid	ND		0.644	0.215	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.15	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1
8:2 Fluorotelomer sulfonic acid	ND		3.22	0.644	ug/Kg	☼	03/03/23 07:13	03/16/23 00:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*87*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
M2-6:2 FTS	*99*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C5 PFHxA	*100*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C4 PFHpA	*105*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C8 PFOA	*102*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C9 PFNA	*108*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C7 PFUnA	*108*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C2-PFDoDA	*105*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C2 PFTeDA	*113*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C3 PFBS	*101*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C3 PFHxS	*101*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C8 PFOS	*105*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d3-NMeFOSAA	*104*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d5-NEtFOSAA	*104*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C4 PFBA	*105*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C5 PFPeA	*103*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d7-N-MeFOSE-M	*97*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d3-NMePFOSA	*93*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
d5-NEtPFOSA	*94*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:28*	*1*
13C3 HFPO-DA	*106*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.31	1.46	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Arsenic	**2.06**	**J**	2.58	1.21	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Barium	**11.3**		0.431	0.129	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Beryllium	**0.179**	**J**	0.431	0.0861	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Cadmium	ND		0.431	0.0861	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Chromium	**3.53**		1.29	0.302	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Lead	**1.90**		1.29	0.517	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Nickel	**1.54**		0.861	0.224	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Selenium	ND		4.31	1.29	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Silver	ND	^3+	0.861	0.345	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Thallium	ND		2.58	1.12	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Vanadium	**4.39**		0.861	0.370	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1
Zinc	**5.63**	**^5-**	1.72	0.689	mg/Kg	☼	03/07/23 20:22	03/08/23 22:27	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0640	0.0213	mg/Kg	☼	03/07/23 20:58	03/08/23 12:23	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0810' **Lab Sample ID: 620-10051-21**
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.1		0.1	0.1	%			03/02/23 09:00	1
Percent Solids (EPA Moisture)	87.9		0.1	0.1	%			03/02/23 09:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-1012'
Date Collected: 03/01/23 10:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-22
Matrix: Solid
Percent Solids: 83.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Acetone	ND		0.0528	0.0118	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Acrylonitrile	ND		0.00528	0.00317	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Benzene	ND		0.00528	0.00353	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromobenzene	ND		0.00528	0.00352	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromochloromethane	ND		0.00528	0.00300	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromodichloromethane	ND		0.00528	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromoform	ND		0.00528	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Bromomethane	ND		0.0106	0.00658	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2-Butanone (MEK)	ND		0.0106	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
n-Butylbenzene	ND		0.0106	0.00566	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
sec-Butylbenzene	ND		0.00528	0.00425	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
tert-Butylbenzene	ND		0.00528	0.00416	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Carbon tetrachloride	ND		0.00528	0.00333	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chlorobenzene	ND		0.00528	0.00386	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chloroethane	ND		0.0106	0.00387	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chloroform	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Chloromethane	ND		0.0106	0.00405	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2-Chlorotoluene	ND		0.00528	0.00420	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
4-Chlorotoluene	ND		0.00528	0.00458	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Dibromochloromethane	ND		0.00528	0.00349	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dibromoethane (EDB)	ND		0.00528	0.00379	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Dibromomethane	ND		0.00528	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dichlorobenzene	ND		0.00528	0.00490	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3-Dichlorobenzene	ND		0.00528	0.00423	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,4-Dichlorobenzene	ND		0.00528	0.00500	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1-Dichloroethane	ND		0.00528	0.00358	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dichloroethane	ND		0.00528	0.00356	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1-Dichloroethene	ND		0.00528	0.00323	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
cis-1,2-Dichloroethene	ND		0.00528	0.00305	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
trans-1,2-Dichloroethene	ND		0.00528	0.00328	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2-Dichloropropane	ND		0.00528	0.00349	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3-Dichloropropane	ND		0.00528	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2,2-Dichloropropane	ND		0.00528	0.00364	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1-Dichloropropene	ND		0.00528	0.00359	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
cis-1,3-Dichloropropene	ND		0.00528	0.00344	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
trans-1,3-Dichloropropene	ND		0.00528	0.00401	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethylbenzene	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Hexachlorobutadiene	ND		0.0106	0.00531	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
2-Hexanone (MBK)	ND		0.0106	0.00310	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Isopropylbenzene	ND		0.00528	0.00399	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
4-Isopropyltoluene	ND		0.00528	0.00518	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Methyl tert-butyl ether	ND		0.00528	0.00304	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00341	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Methylene Chloride	**0.00518**	**J**	0.0106	0.00283	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Naphthalene	ND		0.00528	0.00477	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Styrene	ND		0.00528	0.00409	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,1,2-Tetrachloroethane	ND		0.00528	0.00396	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,2,2-Tetrachloroethane	ND		0.00528	0.00484	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Tetrachloroethene	ND		0.00528	0.00293	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Toluene	ND		0.00528	0.00335	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,3-Trichlorobenzene	ND		0.00528	0.00446	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,4-Trichlorobenzene	ND		0.00528	0.00487	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3,5-Trichlorobenzene	ND		0.00528	0.00501	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,1-Trichloroethane	ND		0.00528	0.00360	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,1,2-Trichloroethane	ND		0.00528	0.00398	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Trichloroethene	ND		0.00528	0.00355	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00528	0.00403	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,3-Trichloropropane	ND		0.00528	0.00469	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,2,4-Trimethylbenzene	ND		0.00528	0.00447	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3,5-Trimethylbenzene	ND		0.00528	0.00449	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Vinyl chloride	ND		0.00528	0.00322	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
m,p-Xylene	ND		0.00528	0.00721	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
o-Xylene	ND		0.00528	0.00385	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Tetrahydrofuran	ND		0.0106	0.00267	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethyl ether	ND		0.00528	0.00278	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Tert-amyl methyl ether	ND		0.00528	0.00417	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethyl tert-butyl ether	ND		0.00528	0.00347	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
di-Isopropyl ether	ND		0.00528	0.00377	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,4-Dioxane	ND		0.106	0.0328	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Ethanol	ND		1.06	0.0655	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
1,3-Dichloropropene, Total	ND		0.00528	0.00401	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1
Xylenes, Total	ND		0.0158	0.00528	mg/Kg	☼	03/02/23 17:46	03/03/23 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/03/23 04:18*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.393	0.0699	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,2,4-Trichlorobenzene	ND		0.393	0.0900	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,2-Dichlorobenzene	ND		0.393	0.0758	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,3-Dichlorobenzene	ND		0.393	0.0952	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1,4-Dichlorobenzene	ND		0.393	0.0926	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
1-Methylnaphthalene	ND		0.0794	0.0667	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4,5-Trichlorophenol	ND		0.393	0.0450	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4,6-Trichlorophenol	ND		0.199	0.0486	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4-Dichlorophenol	ND		0.199	0.0792	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4-Dimethylphenol	ND		0.393	0.0577	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,4-Dinitrophenol	ND		0.393	0.103	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-1012'
Date Collected: 03/01/23 10:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-22
Matrix: Solid
Percent Solids: 83.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2,6-Dinitrotoluene	ND		0.199	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Chloronaphthalene	ND		0.393	0.0909	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Chlorophenol	ND		0.199	0.0814	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Methylnaphthalene	ND		0.0794	0.0587	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Methylphenol	ND		0.393	0.0574	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Nitroaniline	ND		0.393	0.0374	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
2-Nitrophenol	ND		0.199	0.0706	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
3 & 4 Methylphenol	ND		0.393	0.0744	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
3,3'-Dichlorobenzidine	ND		0.393	0.0649	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
3-Nitroaniline	ND		0.393	0.0351	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4,6-Dinitro-2-methylphenol	ND		0.393	0.0706	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Bromophenyl phenyl ether	ND		0.393	0.0444	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Chloro-3-methylphenol	ND		0.393	0.0769	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Chloroaniline	ND		0.199	0.0301	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Chlorophenyl phenyl ether	ND		0.393	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Nitroaniline	ND		0.199	0.0628	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
4-Nitrophenol	ND		0.393	0.137	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Acenaphthene	ND		0.0794	0.0634	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Acenaphthylene	ND		0.0794	0.0522	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Acetophenone	ND		0.199	0.0485	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Aniline	ND		0.393	0.0301	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Anthracene	ND		0.0794	0.0460	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Azobenzene/Diphenyldiazene	ND		0.393	0.0671	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzidine	ND	*1	0.786	0.116	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[a]anthracene	ND		0.0794	0.0447	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[a]pyrene	ND		0.0794	0.0568	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[b]fluoranthene	ND		0.0794	0.0659	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[g,h,i]perylene	ND		0.0794	0.0621	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzo[k]fluoranthene	ND		0.0794	0.0618	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzoic acid	ND		0.393	0.270	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Benzyl alcohol	ND		0.393	0.0712	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Bis(2-chloroethoxy)methane	ND		0.393	0.0684	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Bis(2-chloroethyl)ether	ND		0.199	0.0650	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
bis (2-chloroisopropyl) ether	ND		0.199	0.0885	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Bis(2-ethylhexyl) phthalate	**0.170**	**J**	0.199	0.0506	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Butyl benzyl phthalate	ND		0.393	0.0394	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Carbazole	ND		0.199	0.0521	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Chrysene	ND		0.0794	0.0449	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Dibenz(a,h)anthracene	ND		0.0794	0.0606	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Dibenzofuran	ND		0.199	0.0688	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Diethyl phthalate	ND		0.393	0.0431	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Dimethyl phthalate	ND		0.393	0.0512	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Di-n-butyl phthalate	ND		0.393	0.0420	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Di-n-octyl phthalate	ND		0.393	0.0649	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Fluoranthene	ND		0.0794	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Fluorene	ND		0.0794	0.0725	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Hexachlorobenzene	ND		0.199	0.0551	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Hexachlorobutadiene	ND		0.199	0.0992	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.199	0.0760	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Hexachloroethane	ND		0.199	0.0781	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0794	0.0674	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Isophorone	ND		0.199	0.0544	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Naphthalene	ND		0.0794	0.0762	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Nitrobenzene	ND		0.199	0.0918	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
N-Nitrosodimethylamine	ND		0.199	0.0522	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
N-Nitrosodi-n-propylamine	ND		0.199	0.0792	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
N-Nitrosodiphenylamine	ND		0.393	0.0501	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pentachloronitrobenzene	ND		0.393	0.0621	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pentachlorophenol	ND		0.393	0.161	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Phenanthrene	ND		0.0794	0.0450	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Phenol	ND		0.393	0.0810	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pyrene	ND		0.0794	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1
Pyridine	ND		0.393	0.0930	mg/Kg	☼	03/09/23 11:00	03/09/23 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
2-Fluorophenol (Surr)	*105*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
Phenol-d5 (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
2,4,6-Tribromophenol (Surr)	*108*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:01*	*1*
Terphenyl-d14	*102*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:01*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.113	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Ethylbenzene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Methyl tert-butyl ether	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Naphthalene	ND		0.0530	0.0360	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
o-Xylene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
Toluene	ND		0.0530	0.0106	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
C9-C10 Aromatics	ND		0.265	0.0371	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.113	mg/Kg	☼	03/03/23 07:25	03/04/23 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:43*	*1*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 06:43*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1221	ND		0.0228	0.00674	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1232	ND		0.0228	0.00632	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0228	0.00360	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1248	ND		0.0228	0.00713	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1254	**0.0321**		0.0228	0.0177	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1262	ND		0.0228	0.00532	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1260	ND		0.0228	0.00490	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1
PCB-1268	ND		0.0228	0.00486	mg/Kg	☼	03/02/23 13:19	03/08/23 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*31*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*
Tetrachloro-m-xylene	*34*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*
DCB Decachlorobiphenyl (Surr)	*32*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*
DCB Decachlorobiphenyl (Surr)	*31*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:38*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoroheptanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorononanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorodecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorotridecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorotetradecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorobutanesulfonic acid	ND		2.30	0.461	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorohexanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NEtFOSAA	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NMeFOSAA	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
10:2 FTS	ND		2.30	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoropentanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoroheptanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorononanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorodecanesulfonic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctanesulfonamide	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorohexadecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorooctadecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorobutanoic acid	ND		2.30	0.922	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoropentanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NMeFOSE	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NMeFOSA	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NEtFOSE	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
NEtFOSA	ND		2.30	0.576	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
HFPODA	ND		2.30	1.15	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
DONA	ND		3.46	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
9Cl-PF3ONS	ND		2.30	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
11Cl-PF3OUdS	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluorododecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.30	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
Perfluoroundecanoic acid	ND		0.691	0.230	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1

Client Sample ID: 2023-SB-15-1012' **Lab Sample ID: 620-10051-22**
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.30	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.691	ug/Kg	☼	03/03/23 07:13	03/16/23 00:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*82*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
M2-8:2 FTS	*100*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
M2-6:2 FTS	*95*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C4 PFHpA	*103*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C8 PFOA	*103*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C9 PFNA	*99*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C6 PFDA	*95*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C7 PFUnA	*104*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C2 PFTeDA	*103*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C3 PFHxS	*99*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C8 PFOS	*97*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d3-NMeFOSAA	*100*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d5-NEtFOSAA	*99*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C8 FOSA	*99*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C4 PFBA	*102*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C5 PFPeA	*97*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:39*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.16	1.76	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Arsenic	**2.74**	**J**	3.10	1.45	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Barium	**14.7**		0.516	0.155	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Beryllium	**0.189**	**J**	0.516	0.103	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Cadmium	ND		0.516	0.103	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Chromium	**9.25**		1.55	0.361	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Lead	**2.45**		1.55	0.620	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Nickel	**2.57**		1.03	0.269	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Selenium	ND		5.16	1.55	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Silver	ND	^3+	1.03	0.413	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Thallium	ND		3.10	1.34	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Vanadium	**6.91**		1.03	0.444	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1
Zinc	**9.28**		2.07	0.826	mg/Kg	☼	03/08/23 00:33	03/10/23 04:51	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0696	0.0232	mg/Kg	☼	03/07/23 20:58	03/08/23 12:41	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-15-1012'
Date Collected: 03/01/23 10:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-22
Matrix: Solid
Percent Solids: 83.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.5		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	83.5		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00587	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Acetone	ND		0.0587	0.0131	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Acrylonitrile	ND		0.00587	0.00352	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Benzene	ND		0.00587	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromobenzene	ND		0.00587	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromochloromethane	ND		0.00587	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromodichloromethane	ND		0.00587	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromoform	ND		0.00587	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Bromomethane	ND		0.0117	0.00731	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2-Butanone (MEK)	ND		0.0117	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
n-Butylbenzene	ND		0.0117	0.00629	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
sec-Butylbenzene	ND		0.00587	0.00473	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
tert-Butylbenzene	ND		0.00587	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Carbon disulfide	ND		0.0117	0.00412	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Carbon tetrachloride	ND		0.00587	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chlorobenzene	ND		0.00587	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chloroethane	ND		0.0117	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chloroform	ND		0.00587	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Chloromethane	ND		0.0117	0.00450	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2-Chlorotoluene	ND		0.00587	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
4-Chlorotoluene	ND		0.00587	0.00509	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dibromo-3-Chloropropane	ND		0.0117	0.00497	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Dibromochloromethane	ND		0.00587	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dibromoethane (EDB)	ND		0.00587	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Dibromomethane	ND		0.00587	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dichlorobenzene	ND		0.00587	0.00544	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3-Dichlorobenzene	ND		0.00587	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,4-Dichlorobenzene	ND		0.00587	0.00556	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Dichlorodifluoromethane (Freon 12)	ND		0.0117	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1-Dichloroethane	ND		0.00587	0.00398	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dichloroethane	ND		0.00587	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1-Dichloroethene	ND		0.00587	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
cis-1,2-Dichloroethene	ND		0.00587	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
trans-1,2-Dichloroethene	ND		0.00587	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2-Dichloropropane	ND		0.00587	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3-Dichloropropane	ND		0.00587	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2,2-Dichloropropane	ND		0.00587	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1-Dichloropropene	ND		0.00587	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
cis-1,3-Dichloropropene	ND		0.00587	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
trans-1,3-Dichloropropene	ND		0.00587	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethylbenzene	ND		0.00587	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Hexachlorobutadiene	ND		0.0117	0.00590	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
2-Hexanone (MBK)	ND		0.0117	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Isopropylbenzene	ND		0.00587	0.00443	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
4-Isopropyltoluene	ND		0.00587	0.00576	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Methyl tert-butyl ether	ND		0.00587	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.0117	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Methylene Chloride	ND		0.0117	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Naphthalene	ND		0.00587	0.00530	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1

Client Sample ID: 2023-FD-03 **Lab Sample ID: 620-10051-23**
Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00587	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Styrene	ND		0.00587	0.00454	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,1,2-Tetrachloroethane	ND		0.00587	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,2,2-Tetrachloroethane	ND		0.00587	0.00537	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Tetrachloroethene	ND		0.00587	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Toluene	ND		0.00587	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,3-Trichlorobenzene	ND		0.00587	0.00495	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,4-Trichlorobenzene	ND		0.00587	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3,5-Trichlorobenzene	ND		0.00587	0.00557	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,1-Trichloroethane	ND		0.00587	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,1,2-Trichloroethane	ND		0.00587	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Trichloroethene	ND		0.00587	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Trichlorofluoromethane (Freon 11)	ND		0.00587	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,3-Trichloropropane	ND		0.00587	0.00521	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,2,4-Trimethylbenzene	ND		0.00587	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3,5-Trimethylbenzene	ND		0.00587	0.00499	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Vinyl chloride	ND		0.00587	0.00358	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
m,p-Xylene	ND		0.00587	0.00801	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
o-Xylene	ND		0.00587	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Tetrahydrofuran	ND		0.0117	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethyl ether	ND		0.00587	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Tert-amyl methyl ether	ND		0.00587	0.00463	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethyl tert-butyl ether	ND		0.00587	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
di-Isopropyl ether	ND		0.00587	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
tert-Butanol	ND		0.117	0.0314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,4-Dioxane	ND		0.117	0.0365	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
trans-1,4-Dichloro-2-butene	ND		0.0293	0.00433	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Ethanol	ND		1.17	0.0727	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
1,3-Dichloropropene, Total	ND		0.00587	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1
Xylenes, Total	ND		0.0176	0.00587	mg/Kg	☼	03/03/23 10:32	03/03/23 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:20*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.362	0.0644	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,2,4-Trichlorobenzene	ND		0.362	0.0830	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,2-Dichlorobenzene	ND		0.362	0.0698	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,3-Dichlorobenzene	ND		0.362	0.0877	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1,4-Dichlorobenzene	ND		0.362	0.0853	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
1-Methylnaphthalene	ND		0.0732	0.0615	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4,5-Trichlorophenol	ND		0.362	0.0415	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4,6-Trichlorophenol	ND		0.183	0.0448	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4-Dichlorophenol	ND		0.183	0.0730	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4-Dimethylphenol	ND		0.362	0.0531	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,4-Dinitrophenol	ND		0.362	0.0953	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.183	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2,6-Dinitrotoluene	ND		0.183	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Chloronaphthalene	ND		0.362	0.0837	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Chlorophenol	ND		0.183	0.0750	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Methylnaphthalene	ND		0.0732	0.0541	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Methylphenol	ND		0.362	0.0529	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Nitroaniline	ND		0.362	0.0345	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
2-Nitrophenol	ND		0.183	0.0651	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
3 & 4 Methylphenol	ND		0.362	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
3,3'-Dichlorobenzidine	ND		0.362	0.0598	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
3-Nitroaniline	ND		0.362	0.0324	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4,6-Dinitro-2-methylphenol	ND		0.362	0.0651	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Bromophenyl phenyl ether	ND		0.362	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Chloro-3-methylphenol	ND		0.362	0.0709	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Chloroaniline	ND		0.183	0.0278	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Chlorophenyl phenyl ether	ND		0.362	0.0387	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Nitroaniline	ND		0.183	0.0578	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
4-Nitrophenol	ND		0.362	0.126	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Acenaphthene	ND		0.0732	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Acenaphthylene	ND		0.0732	0.0481	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Acetophenone	ND		0.183	0.0447	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Aniline	ND		0.362	0.0278	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Anthracene	ND		0.0732	0.0424	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Azobenzene/Diphenyldiazene	ND		0.362	0.0618	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzidine	ND	*1	0.724	0.107	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[a]anthracene	ND		0.0732	0.0412	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[a]pyrene	ND		0.0732	0.0523	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[b]fluoranthene	ND		0.0732	0.0607	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[g,h,i]perylene	ND		0.0732	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzo[k]fluoranthene	ND		0.0732	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzoic acid	ND		0.362	0.249	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Benzyl alcohol	ND		0.362	0.0656	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Bis(2-chloroethoxy)methane	ND		0.362	0.0630	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Bis(2-chloroethyl)ether	ND		0.183	0.0599	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
bis (2-chloroisopropyl) ether	ND		0.183	0.0815	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Bis(2-ethylhexyl) phthalate	**0.405**		0.183	0.0466	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Butyl benzyl phthalate	ND		0.362	0.0363	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Carbazole	ND		0.183	0.0480	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Chrysene	ND		0.0732	0.0414	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Dibenz(a,h)anthracene	ND		0.0732	0.0559	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Dibenzofuran	ND		0.183	0.0634	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Diethyl phthalate	ND		0.362	0.0397	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Dimethyl phthalate	ND		0.362	0.0472	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Di-n-butyl phthalate	ND		0.362	0.0387	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Di-n-octyl phthalate	ND		0.362	0.0598	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Fluoranthene	ND		0.0732	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Fluorene	ND		0.0732	0.0668	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Hexachlorobenzene	ND		0.183	0.0508	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Hexachlorobutadiene	ND		0.183	0.0914	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.183	0.0700	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Hexachloroethane	ND		0.183	0.0720	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0732	0.0621	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Isophorone	ND		0.183	0.0502	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Naphthalene	ND		0.0732	0.0702	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Nitrobenzene	ND		0.183	0.0846	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
N-Nitrosodimethylamine	ND		0.183	0.0481	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
N-Nitrosodi-n-propylamine	ND		0.183	0.0730	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
N-Nitrosodiphenylamine	ND		0.362	0.0462	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pentachloronitrobenzene	ND		0.362	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pentachlorophenol	ND		0.362	0.148	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Phenanthrene	ND		0.0732	0.0415	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Phenol	ND		0.362	0.0746	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pyrene	ND		0.0732	0.0404	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1
Pyridine	ND		0.362	0.0857	mg/Kg	☼	03/09/23 11:00	03/09/23 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
Phenol-d5 (Surr)	*74*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:29*	*1*
Terphenyl-d14	*87*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.503	0.257	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.503	0.215	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Ethylbenzene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Methyl tert-butyl ether	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
m,p-Xylene	ND		0.201	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Naphthalene	ND		0.101	0.0684	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
o-Xylene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
Toluene	ND		0.101	0.0201	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
C5-C8 Aliphatics (unadjusted)	ND		0.503	0.257	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
C9-C10 Aromatics	ND		0.503	0.0704	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1
C9-C12 Aliphatics (unadjusted)	ND		0.503	0.215	mg/Kg	☼	03/03/23 07:25	03/04/23 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 07:22*	*1*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/03/23 07:25*	*03/04/23 07:22*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0216	0.0156	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1221	ND		0.0216	0.00639	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1232	ND		0.0216	0.00599	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1

Client Sample ID: 2023-FD-03 **Lab Sample ID: 620-10051-23**
Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0216	0.00342	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1248	ND		0.0216	0.00676	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1254	**0.0332**		0.0216	0.0168	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1262	ND		0.0216	0.00504	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1260	ND		0.0216	0.00465	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1
PCB-1268	ND		0.0216	0.00461	mg/Kg	☼	03/02/23 13:19	03/04/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:22*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoroheptanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorononanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorodecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorotridecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorotetradecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorobutanesulfonic acid	ND		2.16	0.431	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorohexanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NEtFOSAA	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NMeFOSAA	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
10:2 FTS	ND		2.16	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoropentanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoroheptanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorononanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorodecanesulfonic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctanesulfonamide	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorohexadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorooctadecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorobutanoic acid	ND		2.16	0.862	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoropentanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NMeFOSE	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NMeFOSA	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NEtFOSE	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
NEtFOSA	ND		2.16	0.539	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
HFPODA	ND		2.16	1.08	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
DONA	ND		3.23	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
9Cl-PF3ONS	ND		2.16	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
11Cl-PF3OUdS	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluorododecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
Perfluoroundecanoic acid	ND		0.647	0.216	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.16	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.647	ug/Kg	☼	03/03/23 07:13	03/16/23 00:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*61*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
M2-8:2 FTS	*73*		*15 - 200*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
M2-6:2 FTS	*75*		*10 - 200*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C5 PFHxA	*79*		*10 - 174*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C4 PFHpA	*83*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C8 PFOA	*80*		*26 - 159*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C9 PFNA	*80*		*26 - 165*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C6 PFDA	*76*		*26 - 161*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C7 PFUnA	*82*		*12 - 173*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C2-PFDoDA	*83*		*11 - 166*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C2 PFTeDA	*84*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C3 PFHxS	*104*		*24 - 171*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C8 PFOS	*105*		*41 - 154*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d3-NMeFOSAA	*10*		*10 - 178*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C5 PFPeA	*71*		*24 - 161*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d7-N-MeFOSE-M	*94*		*10 - 179*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d9-N-EtFOSE-M	*94*		*10 - 185*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
d5-NEtPFOSA	*83*		*10 - 180*	*03/03/23 07:13*	*03/16/23 00:50*	*1*
13C3 HFPO-DA	*77*		*10 - 169*	*03/03/23 07:13*	*03/16/23 00:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Arsenic	**3.47**		3.00	1.40	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Barium	**16.2**		0.500	0.150	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Beryllium	**0.261**	**J**	0.500	0.100	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Cadmium	ND		0.500	0.100	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Chromium	**5.23**		1.50	0.350	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Lead	**2.75**		1.50	0.600	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Nickel	**2.13**		1.00	0.260	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Selenium	ND		5.00	1.50	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Silver	ND	^3+	1.00	0.400	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Thallium	ND		3.00	1.30	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Vanadium	**7.78**		1.00	0.430	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1
Zinc	**9.24**		2.00	0.800	mg/Kg	☼	03/08/23 00:33	03/10/23 05:26	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0624	0.0208	mg/Kg	☼	03/07/23 20:58	03/08/23 12:50	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-03
Date Collected: 03/01/23 08:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-23
Matrix: Solid
Percent Solids: 90.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	9.9		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	90.1		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-01

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-24

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Methylene Chloride	**0.00377**	**J**	0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 14:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-01
Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-24
Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:15	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:15*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0002'
Lab Sample ID: 620-10051-25
Date Collected: 03/01/23 11:20
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 94.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00495	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Acetone	ND		0.0495	0.0111	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Acrylonitrile	ND		0.00495	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Benzene	ND		0.00495	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromobenzene	ND		0.00495	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromochloromethane	ND		0.00495	0.00281	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromodichloromethane	ND		0.00495	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromoform	ND		0.00495	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Bromomethane	ND		0.00989	0.00616	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2-Butanone (MEK)	ND		0.00989	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
n-Butylbenzene	ND		0.00989	0.00530	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
sec-Butylbenzene	ND		0.00495	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
tert-Butylbenzene	ND		0.00495	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Carbon disulfide	ND		0.00989	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Carbon tetrachloride	ND		0.00495	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chlorobenzene	ND		0.00495	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chloroethane	ND		0.00989	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chloroform	ND		0.00495	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Chloromethane	ND		0.00989	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2-Chlorotoluene	ND		0.00495	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
4-Chlorotoluene	ND		0.00495	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dibromo-3-Chloropropane	ND		0.00989	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Dibromochloromethane	ND		0.00495	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dibromoethane (EDB)	ND		0.00495	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Dibromomethane	ND		0.00495	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dichlorobenzene	ND		0.00495	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3-Dichlorobenzene	ND		0.00495	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,4-Dichlorobenzene	ND		0.00495	0.00469	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.00989	0.00265	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1-Dichloroethane	ND		0.00495	0.00335	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dichloroethane	ND		0.00495	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1-Dichloroethene	ND		0.00495	0.00303	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
cis-1,2-Dichloroethene	ND		0.00495	0.00286	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
trans-1,2-Dichloroethene	ND		0.00495	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2-Dichloropropane	ND		0.00495	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3-Dichloropropane	ND		0.00495	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2,2-Dichloropropane	ND		0.00495	0.00341	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1-Dichloropropene	ND		0.00495	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
cis-1,3-Dichloropropene	ND		0.00495	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
trans-1,3-Dichloropropene	ND		0.00495	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethylbenzene	ND		0.00495	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Hexachlorobutadiene	ND		0.00989	0.00498	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
2-Hexanone (MBK)	ND		0.00989	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Isopropylbenzene	ND		0.00495	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
4-Isopropyltoluene	ND		0.00495	0.00486	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Methyl tert-butyl ether	ND		0.00495	0.00285	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.00989	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Methylene Chloride	ND		0.00989	0.00265	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Naphthalene	ND		0.00495	0.00447	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00495	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Styrene	ND		0.00495	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,1,2-Tetrachloroethane	ND		0.00495	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,2,2-Tetrachloroethane	ND		0.00495	0.00453	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Tetrachloroethene	ND		0.00495	0.00275	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Toluene	ND		0.00495	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,3-Trichlorobenzene	ND		0.00495	0.00418	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,4-Trichlorobenzene	ND		0.00495	0.00456	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3,5-Trichlorobenzene	ND		0.00495	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,1-Trichloroethane	ND		0.00495	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,1,2-Trichloroethane	ND		0.00495	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Trichloroethene	ND		0.00495	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00495	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,3-Trichloropropane	ND		0.00495	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,2,4-Trimethylbenzene	ND		0.00495	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3,5-Trimethylbenzene	ND		0.00495	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Vinyl chloride	ND		0.00495	0.00302	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
m,p-Xylene	ND		0.00495	0.00676	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
o-Xylene	ND		0.00495	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Tetrahydrofuran	ND		0.00989	0.00250	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethyl ether	ND		0.00495	0.00260	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Tert-amyl methyl ether	ND		0.00495	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethyl tert-butyl ether	ND		0.00495	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
di-Isopropyl ether	ND		0.00495	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
tert-Butanol	ND		0.0989	0.0265	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,4-Dioxane	ND		0.0989	0.0308	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Ethanol	ND		0.989	0.0613	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
1,3-Dichloropropene, Total	ND		0.00495	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1
Xylenes, Total	ND		0.0148	0.00495	mg/Kg	☼	03/03/23 10:32	03/03/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 16:45*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.345	0.0614	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,2,4-Trichlorobenzene	ND		0.345	0.0791	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,2-Dichlorobenzene	ND		0.345	0.0665	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,3-Dichlorobenzene	ND		0.345	0.0835	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1,4-Dichlorobenzene	ND		0.345	0.0812	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
1-Methylnaphthalene	ND		0.0697	0.0586	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4,5-Trichlorophenol	ND		0.345	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4,6-Trichlorophenol	ND		0.175	0.0427	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4-Dichlorophenol	ND		0.175	0.0695	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4-Dimethylphenol	ND		0.345	0.0506	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,4-Dinitrophenol	ND		0.345	0.0908	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0002'
Date Collected: 03/01/23 11:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-25
Matrix: Solid
Percent Solids: 94.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2,6-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Chloronaphthalene	ND		0.345	0.0798	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Chlorophenol	ND		0.175	0.0714	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Methylnaphthalene	ND		0.0697	0.0516	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Methylphenol	ND		0.345	0.0504	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Nitroaniline	ND		0.345	0.0328	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
2-Nitrophenol	ND		0.175	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
3 & 4 Methylphenol	ND		0.345	0.0654	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
3,3'-Dichlorobenzidine	ND		0.345	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
3-Nitroaniline	ND		0.345	0.0308	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4,6-Dinitro-2-methylphenol	ND		0.345	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Bromophenyl phenyl ether	ND		0.345	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Chloro-3-methylphenol	ND		0.345	0.0675	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Chlorophenyl phenyl ether	ND		0.345	0.0369	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Nitroaniline	ND		0.175	0.0551	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
4-Nitrophenol	ND		0.345	0.120	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Acenaphthene	ND		0.0697	0.0556	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Acenaphthylene	ND		0.0697	0.0458	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Acetophenone	ND		0.175	0.0426	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Aniline	ND		0.345	0.0265	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Anthracene	ND		0.0697	0.0404	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Azobenzene/Diphenyldiazene	ND		0.345	0.0589	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzidine	ND	*1	0.690	0.102	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[a]anthracene	ND		0.0697	0.0392	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[a]pyrene	ND		0.0697	0.0499	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[b]fluoranthene	ND		0.0697	0.0578	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[g,h,i]perylene	ND		0.0697	0.0545	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzo[k]fluoranthene	ND		0.0697	0.0543	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzoic acid	ND		0.345	0.237	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Benzyl alcohol	ND		0.345	0.0625	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Bis(2-chloroethoxy)methane	ND		0.345	0.0600	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Bis(2-chloroethyl)ether	ND		0.175	0.0571	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0777	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Bis(2-ethylhexyl) phthalate	**0.0974**	**J**	0.175	0.0444	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Butyl benzyl phthalate	ND		0.345	0.0346	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Carbazole	ND		0.175	0.0457	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Chrysene	ND		0.0697	0.0394	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Dibenz(a,h)anthracene	ND		0.0697	0.0532	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Dibenzofuran	ND		0.175	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Diethyl phthalate	ND		0.345	0.0379	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Dimethyl phthalate	ND		0.345	0.0450	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Di-n-butyl phthalate	ND		0.345	0.0369	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Di-n-octyl phthalate	ND		0.345	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Fluoranthene	ND		0.0697	0.0409	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Fluorene	ND		0.0697	0.0637	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Hexachlorobenzene	ND		0.175	0.0484	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Hexachlorobutadiene	ND		0.175	0.0871	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0667	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Hexachloroethane	ND		0.175	0.0686	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Indeno[1,2,3-cd]pyrene	ND		0.0697	0.0592	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Isophorone	ND		0.175	0.0478	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Naphthalene	ND		0.0697	0.0669	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Nitrobenzene	ND		0.175	0.0806	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
N-Nitrosodimethylamine	ND		0.175	0.0458	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0695	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
N-Nitrosodiphenylamine	ND		0.345	0.0440	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pentachloronitrobenzene	ND		0.345	0.0545	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pentachlorophenol	ND		0.345	0.141	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Phenanthrene	ND		0.0697	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Phenol	ND		0.345	0.0711	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pyrene	ND		0.0697	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1
Pyridine	ND		0.345	0.0817	mg/Kg	☼	03/09/23 11:00	03/09/23 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
2,4,6-Tribromophenol (Surr)	*103*		*15 - 110*	*03/09/23 11:00*	*03/09/23 20:57*	*1*
Terphenyl-d14	*95*		*30 - 130*	*03/09/23 11:00*	*03/09/23 20:57*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.773	0.396	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.773	0.331	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Ethylbenzene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Methyl tert-butyl ether	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
m,p-Xylene	ND		0.309	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Naphthalene	**0.114**	**J**	0.155	0.105	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
o-Xylene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
Toluene	ND		0.155	0.0309	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
C5-C8 Aliphatics (unadjusted)	ND		0.773	0.396	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
C9-C10 Aromatics	ND		0.773	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1
C9-C12 Aliphatics (unadjusted)	ND		0.773	0.331	mg/Kg	☼	03/03/23 07:25	03/04/23 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 08:41*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 08:41*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0210	0.0151	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1221	ND		0.0210	0.00619	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1232	ND		0.0210	0.00581	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0210	0.00331	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1248	ND		0.0210	0.00655	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1254	**0.137**		0.0210	0.0163	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1262	ND		0.0210	0.00488	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1260	ND		0.0210	0.00451	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1
PCB-1268	ND		0.0210	0.00446	mg/Kg	☼	03/02/23 13:19	03/08/23 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*
Tetrachloro-m-xylene	*47*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*	*03/02/23 13:19*	*03/08/23 15:57*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoroheptanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorononanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorodecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorotridecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorotetradecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorobutanesulfonic acid	ND		2.07	0.413	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorohexanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NEtFOSAA	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NMeFOSAA	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
10:2 FTS	ND		2.07	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoropentanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoroheptanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorononanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorodecanesulfonic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctanesulfonamide	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorohexadecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorooctadecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorobutanoic acid	ND		2.07	0.826	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoropentanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NMeFOSE	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NMeFOSA	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NEtFOSE	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
NEtFOSA	ND		2.07	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
HFPODA	ND		2.07	1.03	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
DONA	ND		3.10	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
9Cl-PF3ONS	ND		2.07	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
11Cl-PF3OUdS	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluorododecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.07	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
Perfluoroundecanoic acid	ND		0.620	0.207	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1

Client Sample ID: 2023-SB-14-0002' **Lab Sample ID: 620-10051-25**
Date Collected: 03/01/23 11:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.07	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.10	0.620	ug/Kg	☼	03/03/23 07:13	03/16/23 01:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
M2-6:2 FTS	*87*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C5 PFHxA	*89*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C4 PFHpA	*94*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C8 PFOA	*92*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C6 PFDA	*93*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C7 PFUnA	*97*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C2-PFDoDA	*99*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C2 PFTeDA	*109*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C3 PFBS	*99*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C3 PFHxS	*111*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C8 PFOS	*107*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d3-NMeFOSAA	*22*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d5-NEtFOSAA	*29*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C4 PFBA	*79*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C5 PFPeA	*77*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d7-N-MeFOSE-M	*90*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d9-N-EtFOSE-M	*93*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:01*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.26	1.45	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Arsenic	**2.29**	**J**	2.55	1.19	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Barium	**13.6**		0.426	0.128	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Beryllium	**0.273**	**J**	0.426	0.0851	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Cadmium	ND		0.426	0.0851	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Chromium	**4.11**		1.28	0.298	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Lead	**2.79**		1.28	0.511	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Nickel	**4.15**		0.851	0.221	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Selenium	ND		4.26	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Silver	ND	^3+	0.851	0.340	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Thallium	ND		2.55	1.11	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Vanadium	**6.10**		0.851	0.366	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1
Zinc	**10.0**		1.70	0.681	mg/Kg	☼	03/08/23 00:33	03/10/23 04:15	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0618	0.0206	mg/Kg	☼	03/07/23 20:58	03/08/23 12:54	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0002'
Date Collected: 03/01/23 11:20
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-25
Matrix: Solid
Percent Solids: 94.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.0		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	94.0		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0204'
Date Collected: 03/01/23 11:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-26
Matrix: Solid
Percent Solids: 97.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00484	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Acetone	ND		0.0484	0.0108	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Acrylonitrile	ND		0.00484	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Benzene	ND		0.00484	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromobenzene	ND		0.00484	0.00322	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromochloromethane	ND		0.00484	0.00275	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromodichloromethane	ND		0.00484	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromoform	ND		0.00484	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Bromomethane	ND		0.00967	0.00603	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2-Butanone (MEK)	ND		0.00967	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
n-Butylbenzene	ND		0.00967	0.00518	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
sec-Butylbenzene	ND		0.00484	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
tert-Butylbenzene	ND		0.00484	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Carbon disulfide	ND		0.00967	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Carbon tetrachloride	ND		0.00484	0.00305	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chlorobenzene	ND		0.00484	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chloroethane	ND		0.00967	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chloroform	ND		0.00484	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Chloromethane	ND		0.00967	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2-Chlorotoluene	ND		0.00484	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
4-Chlorotoluene	ND		0.00484	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00967	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Dibromochloromethane	ND		0.00484	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dibromoethane (EDB)	ND		0.00484	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Dibromomethane	ND		0.00484	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dichlorobenzene	ND		0.00484	0.00449	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3-Dichlorobenzene	ND		0.00484	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,4-Dichlorobenzene	ND		0.00484	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Dichlorodifluoromethane (Freon 12)	ND		0.00967	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1-Dichloroethane	ND		0.00484	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dichloroethane	ND		0.00484	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1-Dichloroethene	ND		0.00484	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
cis-1,2-Dichloroethene	ND		0.00484	0.00280	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
trans-1,2-Dichloroethene	ND		0.00484	0.00301	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2-Dichloropropane	ND		0.00484	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3-Dichloropropane	ND		0.00484	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2,2-Dichloropropane	ND		0.00484	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1-Dichloropropene	ND		0.00484	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
cis-1,3-Dichloropropene	ND		0.00484	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
trans-1,3-Dichloropropene	ND		0.00484	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethylbenzene	ND		0.00484	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Hexachlorobutadiene	ND		0.00967	0.00487	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
2-Hexanone (MBK)	ND		0.00967	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Isopropylbenzene	ND		0.00484	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
4-Isopropyltoluene	ND		0.00484	0.00475	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Methyl tert-butyl ether	ND		0.00484	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.00967	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Methylene Chloride	ND		0.00967	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Naphthalene	ND		0.00484	0.00437	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1

Client Sample ID: 2023-SB-14-0204' **Lab Sample ID: 620-10051-26**
Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00484	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Styrene	ND		0.00484	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,1,2-Tetrachloroethane	ND		0.00484	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,2,2-Tetrachloroethane	ND		0.00484	0.00443	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Tetrachloroethene	ND		0.00484	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Toluene	ND		0.00484	0.00307	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,3-Trichlorobenzene	ND		0.00484	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,4-Trichlorobenzene	ND		0.00484	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3,5-Trichlorobenzene	ND		0.00484	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,1-Trichloroethane	ND		0.00484	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,1,2-Trichloroethane	ND		0.00484	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Trichloroethene	ND		0.00484	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Trichlorofluoromethane (Freon 11)	ND		0.00484	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,3-Trichloropropane	ND		0.00484	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,2,4-Trimethylbenzene	ND		0.00484	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3,5-Trimethylbenzene	ND		0.00484	0.00411	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Vinyl chloride	ND		0.00484	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
m,p-Xylene	ND		0.00484	0.00661	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
o-Xylene	ND		0.00484	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Tetrahydrofuran	ND		0.00967	0.00245	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethyl ether	ND		0.00484	0.00254	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Tert-amyl methyl ether	ND		0.00484	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethyl tert-butyl ether	ND		0.00484	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
di-Isopropyl ether	ND		0.00484	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
tert-Butanol	ND		0.0967	0.0259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,4-Dioxane	ND		0.0967	0.0301	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
trans-1,4-Dichloro-2-butene	ND		0.0242	0.00357	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Ethanol	ND		0.967	0.0600	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
1,3-Dichloropropene, Total	ND		0.00484	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1
Xylenes, Total	ND		0.0145	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:10*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.336	0.0597	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,2,4-Trichlorobenzene	ND		0.336	0.0769	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,2-Dichlorobenzene	ND		0.336	0.0647	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,3-Dichlorobenzene	ND		0.336	0.0813	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1,4-Dichlorobenzene	ND		0.336	0.0791	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
1-Methylnaphthalene	ND		0.0679	0.0570	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4,5-Trichlorophenol	ND		0.336	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4,6-Trichlorophenol	ND		0.170	0.0415	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4-Dichlorophenol	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4-Dimethylphenol	ND		0.336	0.0493	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,4-Dinitrophenol	ND		0.336	0.0883	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0204'
Date Collected: 03/01/23 11:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-26
Matrix: Solid
Percent Solids: 97.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2,6-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Chloronaphthalene	ND		0.336	0.0777	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Chlorophenol	ND		0.170	0.0695	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Methylnaphthalene	ND		0.0679	0.0502	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Methylphenol	ND		0.336	0.0491	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Nitroaniline	ND		0.336	0.0320	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
2-Nitrophenol	ND		0.170	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
3 & 4 Methylphenol	ND		0.336	0.0636	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
3,3'-Dichlorobenzidine	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
3-Nitroaniline	ND		0.336	0.0300	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4,6-Dinitro-2-methylphenol	ND		0.336	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Bromophenyl phenyl ether	ND		0.336	0.0380	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Chloro-3-methylphenol	ND		0.336	0.0657	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Chloroaniline	ND		0.170	0.0257	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Chlorophenyl phenyl ether	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Nitroaniline	ND		0.170	0.0536	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
4-Nitrophenol	ND		0.336	0.117	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Acenaphthene	ND		0.0679	0.0541	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Acenaphthylene	ND		0.0679	0.0446	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Acetophenone	ND		0.170	0.0414	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Aniline	ND		0.336	0.0257	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Anthracene	ND		0.0679	0.0393	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Azobenzene/Diphenyldiazene	ND		0.336	0.0573	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzidine	ND	*1	0.672	0.0994	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[a]anthracene	ND		0.0679	0.0382	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[a]pyrene	ND		0.0679	0.0485	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[b]fluoranthene	ND		0.0679	0.0563	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[g,h,i]perylene	ND		0.0679	0.0530	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzo[k]fluoranthene	ND		0.0679	0.0528	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzoic acid	ND		0.336	0.231	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Benzyl alcohol	ND		0.336	0.0609	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Bis(2-chloroethoxy)methane	ND		0.336	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Bis(2-chloroethyl)ether	ND		0.170	0.0556	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
bis (2-chloroisopropyl) ether	ND		0.170	0.0756	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Bis(2-ethylhexyl) phthalate	ND		0.170	0.0433	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Butyl benzyl phthalate	ND		0.336	0.0337	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Carbazole	ND		0.170	0.0445	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Chrysene	ND		0.0679	0.0384	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Dibenz(a,h)anthracene	ND		0.0679	0.0518	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Dibenzofuran	ND		0.170	0.0588	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Diethyl phthalate	ND		0.336	0.0368	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Dimethyl phthalate	ND		0.336	0.0438	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Di-n-butyl phthalate	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Di-n-octyl phthalate	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Fluoranthene	ND		0.0679	0.0398	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Fluorene	ND		0.0679	0.0620	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Hexachlorobenzene	ND		0.170	0.0471	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Hexachlorobutadiene	ND		0.170	0.0848	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1

Client Sample ID: 2023-SB-14-0204' **Lab Sample ID: 620-10051-26**
Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.170	0.0649	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Hexachloroethane	ND		0.170	0.0668	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0679	0.0576	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Isophorone	ND		0.170	0.0465	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Naphthalene	ND		0.0679	0.0651	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Nitrobenzene	ND		0.170	0.0785	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
N-Nitrosodimethylamine	ND		0.170	0.0446	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
N-Nitrosodi-n-propylamine	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
N-Nitrosodiphenylamine	ND		0.336	0.0428	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pentachloronitrobenzene	ND		0.336	0.0530	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pentachlorophenol	ND		0.336	0.137	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Phenanthrene	ND		0.0679	0.0385	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Phenol	ND		0.336	0.0692	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pyrene	ND		0.0679	0.0375	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1
Pyridine	ND		0.336	0.0795	mg/Kg	☼	03/09/23 11:00	03/09/23 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:25*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:25*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.261	0.134	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.261	0.112	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Ethylbenzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Methyl tert-butyl ether	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Naphthalene	ND		0.0523	0.0355	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
o-Xylene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
Toluene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
C5-C8 Aliphatics (unadjusted)	ND		0.261	0.134	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
C9-C10 Aromatics	ND		0.261	0.0366	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1
C9-C12 Aliphatics (unadjusted)	ND		0.261	0.112	mg/Kg	☼	03/03/23 07:25	03/04/23 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:20*	*1*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:20*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0196	0.0141	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1221	ND		0.0196	0.00578	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1232	ND		0.0196	0.00542	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1

Client Sample ID: 2023-SB-14-0204'
Lab Sample ID: 620-10051-26
Date Collected: 03/01/23 11:25
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.0

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0196	0.00309	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1248	ND		0.0196	0.00611	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1254	ND		0.0196	0.0152	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1262	ND		0.0196	0.00456	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1260	ND		0.0196	0.00420	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1
PCB-1268	ND		0.0196	0.00416	mg/Kg	☼	03/02/23 13:19	03/04/23 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*03/02/23 13:19*	*03/04/23 00:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoroheptanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorononanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorodecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorotridecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorotetradecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorobutanesulfonic acid	ND		1.95	0.389	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorohexanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NEtFOSAA	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NMeFOSAA	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
10:2 FTS	ND		1.95	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoropentanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoroheptanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorononanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorodecanesulfonic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctanesulfonamide	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorohexadecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorooctadecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorobutanoic acid	ND		1.95	0.778	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoropentanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NMeFOSE	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NMeFOSA	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NEtFOSE	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
NEtFOSA	ND		1.95	0.486	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
HFPODA	ND		1.95	0.973	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
DONA	ND		2.92	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
9Cl-PF3ONS	ND		1.95	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
11Cl-PF3OUdS	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluorododecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
4:2 Fluorotelomer sulfonic acid	ND		1.95	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
Perfluoroundecanoic acid	ND		0.584	0.195	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0204' **Lab Sample ID: 620-10051-26**
Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.95	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1
8:2 Fluorotelomer sulfonic acid	ND		2.92	0.584	ug/Kg	☼	03/03/23 07:13	03/16/23 01:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*81*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
M2-8:2 FTS	*95*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
M2-6:2 FTS	*91*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C5 PFHxA	*92*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C4 PFHpA	*98*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C8 PFOA	*93*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C9 PFNA	*95*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C6 PFDA	*94*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C7 PFUnA	*99*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C3 PFHxS	*103*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C8 PFOS	*101*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d3-NMeFOSAA	*25*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d5-NEtFOSAA	*30*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C8 FOSA	*102*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C4 PFBA	*84*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d7-N-MeFOSE-M	*98*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d3-NMePFOSA	*87*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d9-N-EtFOSE-M	*95*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
d5-NEtPFOSA	*88*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:12*	*1*
13C3 HFPO-DA	*91*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.91	1.67	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Arsenic	**1.68**	**J**	2.95	1.37	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Barium	**15.1**		0.491	0.147	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Beryllium	**0.191**	**J**	0.491	0.0982	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Cadmium	ND		0.491	0.0982	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Chromium	**4.14**		1.47	0.344	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Lead	**1.85**		1.47	0.589	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Nickel	**2.49**		0.982	0.255	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Selenium	ND		4.91	1.47	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Silver	ND	^3+	0.982	0.393	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Thallium	ND		2.95	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Vanadium	**6.30**		0.982	0.422	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1
Zinc	**9.29**		1.96	0.785	mg/Kg	☼	03/08/23 00:33	03/10/23 04:03	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0589	0.0196	mg/Kg	☼	03/07/23 20:58	03/08/23 12:37	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0204'
Date Collected: 03/01/23 11:25
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-26
Matrix: Solid
Percent Solids: 97.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.0		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	97.0		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-27
Matrix: Solid
Percent Solids: 97.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00511	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Acetone	ND		0.0511	0.0114	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Acrylonitrile	ND		0.00511	0.00307	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Benzene	ND		0.00511	0.00341	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromobenzene	ND		0.00511	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromochloromethane	ND		0.00511	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromodichloromethane	ND		0.00511	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromoform	ND		0.00511	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Bromomethane	ND		0.0102	0.00637	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2-Butanone (MEK)	ND		0.0102	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
n-Butylbenzene	ND		0.0102	0.00548	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
sec-Butylbenzene	ND		0.00511	0.00412	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
tert-Butylbenzene	ND		0.00511	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Carbon disulfide	ND		0.0102	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Carbon tetrachloride	ND		0.00511	0.00322	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chlorobenzene	ND		0.00511	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chloroethane	ND		0.0102	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chloroform	ND		0.00511	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Chloromethane	ND		0.0102	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2-Chlorotoluene	ND		0.00511	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
4-Chlorotoluene	ND		0.00511	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dibromo-3-Chloropropane	ND		0.0102	0.00433	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Dibromochloromethane	ND		0.00511	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dibromoethane (EDB)	ND		0.00511	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Dibromomethane	ND		0.00511	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dichlorobenzene	ND		0.00511	0.00474	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3-Dichlorobenzene	ND		0.00511	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,4-Dichlorobenzene	ND		0.00511	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Dichlorodifluoromethane (Freon 12)	ND		0.0102	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1-Dichloroethane	ND		0.00511	0.00346	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dichloroethane	ND		0.00511	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1-Dichloroethene	ND		0.00511	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
cis-1,2-Dichloroethene	ND		0.00511	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
trans-1,2-Dichloroethene	ND		0.00511	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2-Dichloropropane	ND		0.00511	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3-Dichloropropane	ND		0.00511	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2,2-Dichloropropane	ND		0.00511	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1-Dichloropropene	ND		0.00511	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
cis-1,3-Dichloropropene	ND		0.00511	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
trans-1,3-Dichloropropene	ND		0.00511	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethylbenzene	ND		0.00511	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Hexachlorobutadiene	ND		0.0102	0.00514	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
2-Hexanone (MBK)	ND		0.0102	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Isopropylbenzene	ND		0.00511	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
4-Isopropyltoluene	ND		0.00511	0.00502	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Methyl tert-butyl ether	ND		0.00511	0.00294	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.0102	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Methylene Chloride	ND		0.0102	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Naphthalene	ND		0.00511	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00511	0.00432	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Styrene	ND		0.00511	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,1,2-Tetrachloroethane	ND		0.00511	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,2,2-Tetrachloroethane	ND		0.00511	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Tetrachloroethene	ND		0.00511	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Toluene	ND		0.00511	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,3-Trichlorobenzene	ND		0.00511	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,4-Trichlorobenzene	ND		0.00511	0.00471	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3,5-Trichlorobenzene	ND		0.00511	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,1-Trichloroethane	ND		0.00511	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,1,2-Trichloroethane	ND		0.00511	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Trichloroethene	ND		0.00511	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Trichlorofluoromethane (Freon 11)	ND		0.00511	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,3-Trichloropropane	ND		0.00511	0.00454	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,2,4-Trimethylbenzene	ND		0.00511	0.00432	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3,5-Trimethylbenzene	ND		0.00511	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Vinyl chloride	ND		0.00511	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
m,p-Xylene	ND		0.00511	0.00698	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
o-Xylene	ND		0.00511	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Tetrahydrofuran	ND		0.0102	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethyl ether	ND		0.00511	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Tert-amyl methyl ether	ND		0.00511	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethyl tert-butyl ether	ND		0.00511	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
di-Isopropyl ether	ND		0.00511	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
tert-Butanol	ND		0.102	0.0274	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,4-Dioxane	ND		0.102	0.0318	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
trans-1,4-Dichloro-2-butene	ND		0.0255	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Ethanol	ND		1.02	0.0634	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
1,3-Dichloropropene, Total	ND		0.00511	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1
Xylenes, Total	ND		0.0153	0.00511	mg/Kg	☼	03/03/23 10:32	03/03/23 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 17:36*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.333	0.0593	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,2,4-Trichlorobenzene	ND		0.333	0.0764	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,2-Dichlorobenzene	ND		0.333	0.0642	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,3-Dichlorobenzene	ND		0.333	0.0807	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1,4-Dichlorobenzene	ND		0.333	0.0785	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
1-Methylnaphthalene	ND		0.0674	0.0566	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4,5-Trichlorophenol	ND		0.333	0.0382	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4,6-Trichlorophenol	ND		0.169	0.0412	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4-Dichlorophenol	ND		0.169	0.0672	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4-Dimethylphenol	ND		0.333	0.0489	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,4-Dinitrophenol	ND		0.333	0.0877	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-27
Matrix: Solid
Percent Solids: 97.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.169	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2,6-Dinitrotoluene	ND		0.169	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Chloronaphthalene	ND		0.333	0.0771	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Chlorophenol	ND		0.169	0.0690	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Methylnaphthalene	ND		0.0674	0.0498	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Methylphenol	ND		0.333	0.0487	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Nitroaniline	ND		0.333	0.0317	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
2-Nitrophenol	ND		0.169	0.0599	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
3 & 4 Methylphenol	ND		0.333	0.0631	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
3,3'-Dichlorobenzidine	ND		0.333	0.0550	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
3-Nitroaniline	ND		0.333	0.0298	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4,6-Dinitro-2-methylphenol	ND		0.333	0.0599	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Bromophenyl phenyl ether	ND		0.333	0.0377	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Chloro-3-methylphenol	ND		0.333	0.0652	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Chloroaniline	ND		0.169	0.0256	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Chlorophenyl phenyl ether	ND		0.333	0.0357	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Nitroaniline	ND		0.169	0.0532	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
4-Nitrophenol	ND		0.333	0.116	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Acenaphthene	ND		0.0674	0.0537	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Acenaphthylene	ND		0.0674	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Acetophenone	ND		0.169	0.0411	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Aniline	ND		0.333	0.0256	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Anthracene	ND		0.0674	0.0390	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Azobenzene/Diphenyldiazene	ND		0.333	0.0569	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzidine	ND	*1	0.667	0.0987	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[a]anthracene	ND		0.0674	0.0379	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[a]pyrene	ND		0.0674	0.0482	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[b]fluoranthene	ND		0.0674	0.0559	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[g,h,i]perylene	ND		0.0674	0.0526	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzo[k]fluoranthene	ND		0.0674	0.0524	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzoic acid	ND		0.333	0.229	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Benzyl alcohol	ND		0.333	0.0604	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Bis(2-chloroethoxy)methane	ND		0.333	0.0580	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Bis(2-chloroethyl)ether	ND		0.169	0.0551	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
bis (2-chloroisopropyl) ether	ND		0.169	0.0750	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Bis(2-ethylhexyl) phthalate	ND		0.169	0.0429	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Butyl benzyl phthalate	ND		0.333	0.0334	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Carbazole	ND		0.169	0.0441	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Chrysene	ND		0.0674	0.0381	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Dibenz(a,h)anthracene	ND		0.0674	0.0514	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Dibenzofuran	ND		0.169	0.0584	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Diethyl phthalate	ND		0.333	0.0366	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Dimethyl phthalate	ND		0.333	0.0434	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Di-n-butyl phthalate	ND		0.333	0.0357	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Di-n-octyl phthalate	ND		0.333	0.0550	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Fluoranthene	ND		0.0674	0.0395	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Fluorene	ND		0.0674	0.0615	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Hexachlorobenzene	ND		0.169	0.0468	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Hexachlorobutadiene	ND		0.169	0.0841	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.169	0.0644	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Hexachloroethane	ND		0.169	0.0663	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Indeno[1,2,3-cd]pyrene	ND		0.0674	0.0572	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Isophorone	ND		0.169	0.0462	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Naphthalene	ND		0.0674	0.0646	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Nitrobenzene	ND		0.169	0.0779	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
N-Nitrosodimethylamine	ND		0.169	0.0442	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
N-Nitrosodi-n-propylamine	ND		0.169	0.0672	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
N-Nitrosodiphenylamine	ND		0.333	0.0425	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pentachloronitrobenzene	ND		0.333	0.0526	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pentachlorophenol	ND		0.333	0.136	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Phenanthrene	ND		0.0674	0.0382	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Phenol	ND		0.333	0.0687	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pyrene	ND		0.0674	0.0372	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1
Pyridine	ND		0.333	0.0789	mg/Kg	☼	03/09/23 11:00	03/09/23 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*	*03/09/23 11:00*	*03/09/23 21:53*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/09/23 11:00*	*03/09/23 21:53*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.253	0.129	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.253	0.108	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Ethylbenzene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Methyl tert-butyl ether	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Naphthalene	ND		0.0505	0.0344	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
o-Xylene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
Toluene	ND		0.0505	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
C5-C8 Aliphatics (unadjusted)	ND		0.253	0.129	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
C9-C10 Aromatics	ND		0.253	0.0354	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1
C9-C12 Aliphatics (unadjusted)	ND		0.253	0.108	mg/Kg	☼	03/03/23 07:25	03/04/23 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:59*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 09:59*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1221	ND		0.0200	0.00591	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1232	ND		0.0200	0.00554	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0200	0.00316	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1248	ND		0.0200	0.00625	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1254	ND		0.0200	0.0155	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1262	ND		0.0200	0.00466	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1260	ND		0.0200	0.00430	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1
PCB-1268	ND		0.0200	0.00426	mg/Kg	☼	03/02/23 13:19	03/08/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*
Tetrachloro-m-xylene	*63*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*03/02/23 13:19*	*03/08/23 16:15*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoroheptanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorononanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorodecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorotridecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorotetradecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorobutanesulfonic acid	ND		1.89	0.378	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorohexanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NEtFOSAA	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NMeFOSAA	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
10:2 FTS	ND		1.89	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoropentanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoroheptanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorononanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorodecanesulfonic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctanesulfonamide	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorohexadecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorooctadecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorobutanoic acid	ND		1.89	0.755	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoropentanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NMeFOSE	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NMeFOSA	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NEtFOSE	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
NEtFOSA	ND		1.89	0.472	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
HFPODA	ND		1.89	0.944	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
DONA	ND		2.83	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
9Cl-PF3ONS	ND		1.89	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
11Cl-PF3OUdS	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluorododecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
4:2 Fluorotelomer sulfonic acid	ND		1.89	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
Perfluoroundecanoic acid	ND		0.567	0.189	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1

Client Sample ID: 2023-SB-14-0406' **Lab Sample ID: 620-10051-27**
Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.89	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1
8:2 Fluorotelomer sulfonic acid	ND		2.83	0.567	ug/Kg	☼	03/03/23 07:13	03/16/23 01:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
M2-6:2 FTS	*117*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C5 PFHxA	*121*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C4 PFHpA	*125*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C8 PFOA	*118*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C9 PFNA	*114*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C6 PFDA	*112*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C2-PFDoDA	*125*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C2 PFTeDA	*133*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C3 PFHxS	*117*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C8 PFOS	*112*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d3-NMeFOSAA	*69*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d5-NEtFOSAA	*65*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C8 FOSA	*112*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C4 PFBA	*111*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C5 PFPeA	*110*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d7-N-MeFOSE-M	*105*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d3-NMePFOSA	*96*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
d5-NEtPFOSA	*99*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:23*	*1*
13C3 HFPO-DA	*111*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.50	1.19	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Arsenic	**1.39**	**J**	2.10	0.980	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Barium	**9.33**		0.350	0.105	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Beryllium	**0.141**	**J**	0.350	0.0700	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Cadmium	ND		0.350	0.0700	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Chromium	**6.73**		1.05	0.245	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Lead	**1.64**		1.05	0.420	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Nickel	**1.68**		0.700	0.182	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Selenium	ND		3.50	1.05	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Silver	ND	^3+	0.700	0.280	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Thallium	ND		2.10	0.910	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Vanadium	**3.52**		0.700	0.301	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1
Zinc	**4.81**		1.40	0.560	mg/Kg	☼	03/08/23 00:33	03/10/23 04:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0618	0.0206	mg/Kg	☼	03/07/23 20:58	03/08/23 12:52	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'
Date Collected: 03/01/23 11:30
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-27
Matrix: Solid
Percent Solids: 97.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.8		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	97.2		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0608'
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-28
Matrix: Solid
Percent Solids: 95.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00520	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Acetone	ND		0.0520	0.0117	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Acrylonitrile	ND		0.00520	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Benzene	ND		0.00520	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromobenzene	ND		0.00520	0.00346	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromochloromethane	ND		0.00520	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromodichloromethane	ND		0.00520	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromoform	ND		0.00520	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Bromomethane	ND		0.0104	0.00648	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2-Butanone (MEK)	ND		0.0104	0.00414	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
n-Butylbenzene	ND		0.0104	0.00558	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
sec-Butylbenzene	ND		0.00520	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
tert-Butylbenzene	ND		0.00520	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Carbon disulfide	ND		0.0104	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Carbon tetrachloride	ND		0.00520	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chlorobenzene	ND		0.00520	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chloroethane	ND		0.0104	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chloroform	ND		0.00520	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Chloromethane	ND		0.0104	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2-Chlorotoluene	ND		0.00520	0.00414	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
4-Chlorotoluene	ND		0.00520	0.00452	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00441	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Dibromochloromethane	ND		0.00520	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dibromoethane (EDB)	ND		0.00520	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Dibromomethane	ND		0.00520	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dichlorobenzene	ND		0.00520	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3-Dichlorobenzene	ND		0.00520	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,4-Dichlorobenzene	ND		0.00520	0.00493	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Dichlorodifluoromethane (Freon 12)	ND		0.0104	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1-Dichloroethane	ND		0.00520	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dichloroethane	ND		0.00520	0.00351	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1-Dichloroethene	ND		0.00520	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
cis-1,2-Dichloroethene	ND		0.00520	0.00301	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
trans-1,2-Dichloroethene	ND		0.00520	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2-Dichloropropane	ND		0.00520	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3-Dichloropropane	ND		0.00520	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2,2-Dichloropropane	ND		0.00520	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1-Dichloropropene	ND		0.00520	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
cis-1,3-Dichloropropene	ND		0.00520	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
trans-1,3-Dichloropropene	ND		0.00520	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethylbenzene	ND		0.00520	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Hexachlorobutadiene	ND		0.0104	0.00523	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
2-Hexanone (MBK)	ND		0.0104	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Isopropylbenzene	ND		0.00520	0.00393	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
4-Isopropyltoluene	ND		0.00520	0.00511	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Methyl tert-butyl ether	ND		0.00520	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Methylene Chloride	ND		0.0104	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Naphthalene	ND		0.00520	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00520	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Styrene	ND		0.00520	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,1,2-Tetrachloroethane	ND		0.00520	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,2,2-Tetrachloroethane	ND		0.00520	0.00477	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Tetrachloroethene	ND		0.00520	0.00289	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Toluene	ND		0.00520	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,3-Trichlorobenzene	ND		0.00520	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,4-Trichlorobenzene	ND		0.00520	0.00480	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3,5-Trichlorobenzene	ND		0.00520	0.00494	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,1-Trichloroethane	ND		0.00520	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,1,2-Trichloroethane	ND		0.00520	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Trichloroethene	ND		0.00520	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Trichlorofluoromethane (Freon 11)	ND		0.00520	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,3-Trichloropropane	ND		0.00520	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,2,4-Trimethylbenzene	ND		0.00520	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3,5-Trimethylbenzene	ND		0.00520	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Vinyl chloride	ND		0.00520	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
m,p-Xylene	ND		0.00520	0.00711	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
o-Xylene	ND		0.00520	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Tetrahydrofuran	ND		0.0104	0.00263	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethyl ether	ND		0.00520	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Tert-amyl methyl ether	ND		0.00520	0.00411	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethyl tert-butyl ether	ND		0.00520	0.00342	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
di-Isopropyl ether	ND		0.00520	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
tert-Butanol	ND		0.104	0.0279	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,4-Dioxane	ND		0.104	0.0324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
trans-1,4-Dichloro-2-butene	ND		0.0260	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Ethanol	ND		1.04	0.0645	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
1,3-Dichloropropene, Total	ND		0.00520	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1
Xylenes, Total	ND		0.0156	0.00520	mg/Kg	☼	03/03/23 10:32	03/03/23 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:02*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.336	0.0598	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,2,4-Trichlorobenzene	ND		0.336	0.0770	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,2-Dichlorobenzene	ND		0.336	0.0647	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,3-Dichlorobenzene	ND		0.336	0.0813	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1,4-Dichlorobenzene	ND		0.336	0.0791	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
1-Methylnaphthalene	ND		0.0679	0.0570	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4,5-Trichlorophenol	ND		0.336	0.0385	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4,6-Trichlorophenol	ND		0.170	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4-Dichlorophenol	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4-Dimethylphenol	ND		0.336	0.0493	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,4-Dinitrophenol	ND		0.336	0.0884	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0608'
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-28
Matrix: Solid
Percent Solids: 95.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2,6-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Chloronaphthalene	ND		0.336	0.0777	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Chlorophenol	ND		0.170	0.0695	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Methylnaphthalene	ND		0.0679	0.0502	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Methylphenol	ND		0.336	0.0491	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Nitroaniline	ND		0.336	0.0320	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
2-Nitrophenol	ND		0.170	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
3 & 4 Methylphenol	ND		0.336	0.0636	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
3,3'-Dichlorobenzidine	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
3-Nitroaniline	ND		0.336	0.0300	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4,6-Dinitro-2-methylphenol	ND		0.336	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Bromophenyl phenyl ether	ND		0.336	0.0380	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Chloro-3-methylphenol	ND		0.336	0.0658	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Chloroaniline	ND		0.170	0.0258	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Chlorophenyl phenyl ether	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Nitroaniline	ND		0.170	0.0536	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
4-Nitrophenol	ND		0.336	0.117	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Acenaphthene	ND		0.0679	0.0542	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Acenaphthylene	ND		0.0679	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Acetophenone	ND		0.170	0.0414	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Aniline	ND		0.336	0.0258	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Anthracene	ND		0.0679	0.0393	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Azobenzene/Diphenyldiazene	ND		0.336	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzidine	ND	*1	0.672	0.0995	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[a]anthracene	ND		0.0679	0.0382	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[a]pyrene	ND		0.0679	0.0486	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[b]fluoranthene	ND		0.0679	0.0563	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[g,h,i]perylene	ND		0.0679	0.0530	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzo[k]fluoranthene	ND		0.0679	0.0528	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzoic acid	ND		0.336	0.231	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Benzyl alcohol	ND		0.336	0.0609	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Bis(2-chloroethoxy)methane	ND		0.336	0.0584	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Bis(2-chloroethyl)ether	ND		0.170	0.0556	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
bis (2-chloroisopropyl) ether	ND		0.170	0.0756	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Bis(2-ethylhexyl) phthalate	ND		0.170	0.0433	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Butyl benzyl phthalate	ND		0.336	0.0337	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Carbazole	ND		0.170	0.0445	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Chrysene	ND		0.0679	0.0384	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Dibenz(a,h)anthracene	ND		0.0679	0.0518	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Dibenzofuran	ND		0.170	0.0588	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Diethyl phthalate	ND		0.336	0.0369	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Dimethyl phthalate	ND		0.336	0.0438	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Di-n-butyl phthalate	ND		0.336	0.0359	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Di-n-octyl phthalate	ND		0.336	0.0555	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Fluoranthene	ND		0.0679	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Fluorene	ND		0.0679	0.0620	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Hexachlorobenzene	ND		0.170	0.0471	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Hexachlorobutadiene	ND		0.170	0.0848	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.170	0.0649	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Hexachloroethane	ND		0.170	0.0668	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0679	0.0576	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Isophorone	ND		0.170	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Naphthalene	ND		0.0679	0.0652	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Nitrobenzene	ND		0.170	0.0785	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
N-Nitrosodimethylamine	ND		0.170	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
N-Nitrosodi-n-propylamine	ND		0.170	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
N-Nitrosodiphenylamine	ND		0.336	0.0429	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pentachloronitrobenzene	ND		0.336	0.0530	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pentachlorophenol	ND		0.336	0.137	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Phenanthrene	ND		0.0679	0.0385	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Phenol	ND		0.336	0.0692	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pyrene	ND		0.0679	0.0375	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1
Pyridine	ND		0.336	0.0795	mg/Kg	☼	03/09/23 11:00	03/10/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/10/23 18:11*	*1*
Terphenyl-d14	*82*		*30 - 130*	*03/09/23 11:00*	*03/10/23 18:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.255	0.130	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.255	0.109	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Ethylbenzene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Methyl tert-butyl ether	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Naphthalene	ND		0.0509	0.0346	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
o-Xylene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
Toluene	ND		0.0509	0.0102	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.255	0.130	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
C9-C10 Aromatics	ND		0.255	0.0356	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1
C9-C12 Aliphatics (unadjusted)	ND		0.255	0.109	mg/Kg	☼	03/03/23 07:25	03/04/23 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/03/23 07:25*	*03/04/23 10:39*	*1*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 10:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0147	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1221	ND		0.0205	0.00605	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1232	ND		0.0205	0.00567	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00323	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1248	ND		0.0205	0.00640	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1254	**0.0829**		0.0205	0.0159	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1262	ND		0.0205	0.00477	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1260	ND		0.0205	0.00440	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1
PCB-1268	ND		0.0205	0.00436	mg/Kg	☼	03/02/23 13:19	03/04/23 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:00*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoroheptanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorononanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorodecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorotridecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorotetradecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorobutanesulfonic acid	ND		2.05	0.410	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorohexanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NEtFOSAA	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NMeFOSAA	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
10:2 FTS	ND		2.05	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoropentanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoroheptanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorononanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorodecanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctanesulfonamide	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorohexadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorooctadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorobutanoic acid	ND		2.05	0.820	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoropentanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NMeFOSE	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NMeFOSA	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NEtFOSE	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
NEtFOSA	ND		2.05	0.513	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
HFPODA	ND		2.05	1.03	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
DONA	ND		3.08	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
9Cl-PF3ONS	ND		2.05	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
11Cl-PF3OUdS	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluorododecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
Perfluoroundecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1

Client Sample ID: 2023-SB-14-0608' **Lab Sample ID: 620-10051-28**
Date Collected: 03/01/23 11:35 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 95.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.615	ug/Kg	☼	03/03/23 07:13	03/16/23 01:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C4 PFHpA	*97*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C9 PFNA	*110*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C6 PFDA	*105*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C7 PFUnA	*112*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C2-PFDoDA	*104*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C2 PFTeDA	*123*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C3 PFBS	*107*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C3 PFHxS	*110*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C8 PFOS	*117*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d3-NMeFOSAA	*37*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d5-NEtFOSAA	*40*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C8 FOSA	*103*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C4 PFBA	*98*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C5 PFPeA	*98*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d7-N-MeFOSE-M	*98*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d9-N-EtFOSE-M	*98*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
d5-NEtPFOSA	*84*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:34*	*1*
13C3 HFPO-DA	*80*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:34*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.58	1.22	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Arsenic	**2.21**		2.15	1.00	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Barium	**18.4**		0.358	0.107	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Beryllium	**0.229**	**J**	0.358	0.0716	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Cadmium	ND		0.358	0.0716	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Chromium	**9.02**		1.07	0.251	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Lead	**2.22**		1.07	0.430	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Nickel	**4.45**		0.716	0.186	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Selenium	ND		3.58	1.07	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Silver	ND	^3+	0.716	0.287	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Thallium	ND		2.15	0.931	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Vanadium	**7.44**		0.716	0.308	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1
Zinc	**12.9**	**^5-**	1.43	0.573	mg/Kg	☼	03/07/23 20:22	03/08/23 22:23	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0607	0.0202	mg/Kg	☼	03/07/23 20:58	03/08/23 12:25	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0608'
Date Collected: 03/01/23 11:35
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-28
Matrix: Solid
Percent Solids: 95.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.4		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	95.6		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0810'
Lab Sample ID: 620-10051-29
Date Collected: 03/01/23 11:40
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 86.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00574	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Acetone	ND		0.0574	0.0129	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Acrylonitrile	ND		0.00574	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Benzene	ND		0.00574	0.00383	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromobenzene	ND		0.00574	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromochloromethane	ND		0.00574	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromodichloromethane	ND		0.00574	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromoform	ND		0.00574	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Bromomethane	ND		0.0115	0.00715	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2-Butanone (MEK)	ND		0.0115	0.00457	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
n-Butylbenzene	ND		0.0115	0.00615	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
sec-Butylbenzene	ND		0.00574	0.00463	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
tert-Butylbenzene	ND		0.00574	0.00452	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Carbon disulfide	ND		0.0115	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Carbon tetrachloride	ND		0.00574	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chlorobenzene	ND		0.00574	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chloroethane	ND		0.0115	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chloroform	ND		0.00574	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Chloromethane	ND		0.0115	0.00441	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2-Chlorotoluene	ND		0.00574	0.00457	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
4-Chlorotoluene	ND		0.00574	0.00498	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dibromo-3-Chloropropane	ND		0.0115	0.00487	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Dibromochloromethane	ND		0.00574	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dibromoethane (EDB)	ND		0.00574	0.00412	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Dibromomethane	ND		0.00574	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dichlorobenzene	ND		0.00574	0.00533	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3-Dichlorobenzene	ND		0.00574	0.00460	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,4-Dichlorobenzene	ND		0.00574	0.00544	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Dichlorodifluoromethane (Freon 12)	ND		0.0115	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1-Dichloroethane	ND		0.00574	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dichloroethane	ND		0.00574	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1-Dichloroethene	ND		0.00574	0.00351	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
cis-1,2-Dichloroethene	ND		0.00574	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
trans-1,2-Dichloroethene	ND		0.00574	0.00357	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2-Dichloropropane	ND		0.00574	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3-Dichloropropane	ND		0.00574	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2,2-Dichloropropane	ND		0.00574	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1-Dichloropropene	ND		0.00574	0.00390	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
cis-1,3-Dichloropropene	ND		0.00574	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
trans-1,3-Dichloropropene	ND		0.00574	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethylbenzene	ND		0.00574	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Hexachlorobutadiene	ND		0.0115	0.00577	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
2-Hexanone (MBK)	ND		0.0115	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Isopropylbenzene	ND		0.00574	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
4-Isopropyltoluene	ND		0.00574	0.00564	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Methyl tert-butyl ether	ND		0.00574	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		0.0115	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Methylene Chloride	ND		0.0115	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Naphthalene	ND		0.00574	0.00519	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1

Client Sample ID: 2023-SB-14-0810' **Lab Sample ID: 620-10051-29**
Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00574	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Styrene	ND		0.00574	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,1,2-Tetrachloroethane	ND		0.00574	0.00430	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,2,2-Tetrachloroethane	ND		0.00574	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Tetrachloroethene	ND		0.00574	0.00319	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Toluene	ND		0.00574	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,3-Trichlorobenzene	ND		0.00574	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,4-Trichlorobenzene	ND		0.00574	0.00529	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3,5-Trichlorobenzene	ND		0.00574	0.00545	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,1-Trichloroethane	ND		0.00574	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,1,2-Trichloroethane	ND		0.00574	0.00433	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Trichloroethene	ND		0.00574	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Trichlorofluoromethane (Freon 11)	ND		0.00574	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,3-Trichloropropane	ND		0.00574	0.00510	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,2,4-Trimethylbenzene	ND		0.00574	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3,5-Trimethylbenzene	ND		0.00574	0.00488	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Vinyl chloride	ND		0.00574	0.00350	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
m,p-Xylene	ND		0.00574	0.00784	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
o-Xylene	ND		0.00574	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Tetrahydrofuran	ND		0.0115	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethyl ether	ND		0.00574	0.00302	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Tert-amyl methyl ether	ND		0.00574	0.00453	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethyl tert-butyl ether	ND		0.00574	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
di-Isopropyl ether	ND		0.00574	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
tert-Butanol	ND		0.115	0.0308	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,4-Dioxane	ND		0.115	0.0357	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
trans-1,4-Dichloro-2-butene	ND		0.0287	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Ethanol	ND		1.15	0.0712	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
1,3-Dichloropropene, Total	ND		0.00574	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1
Xylenes, Total	ND		0.0172	0.00574	mg/Kg	☼	03/03/23 10:32	03/03/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:28*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0669	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,2,4-Trichlorobenzene	ND		0.376	0.0862	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,2-Dichlorobenzene	ND		0.376	0.0725	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,3-Dichlorobenzene	ND		0.376	0.0911	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1,4-Dichlorobenzene	ND		0.376	0.0886	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
1-Methylnaphthalene	ND		0.0760	0.0638	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4,6-Trichlorophenol	ND		0.190	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4-Dichlorophenol	ND		0.190	0.0758	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4-Dimethylphenol	ND		0.376	0.0552	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,4-Dinitrophenol	ND		0.376	0.0990	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0810'
Date Collected: 03/01/23 11:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-29
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2,6-Dinitrotoluene	ND		0.190	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Chloronaphthalene	ND		0.376	0.0870	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Chlorophenol	ND		0.190	0.0779	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Methylnaphthalene	ND		0.0760	0.0562	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
2-Nitrophenol	ND		0.190	0.0676	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
3,3'-Dichlorobenzidine	ND		0.376	0.0621	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0676	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Chloro-3-methylphenol	ND		0.376	0.0736	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Nitroaniline	ND		0.190	0.0601	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Acenaphthene	ND		0.0760	0.0606	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Acenaphthylene	ND		0.0760	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Acetophenone	ND		0.190	0.0464	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Anthracene	ND		0.0760	0.0440	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0642	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzidine	ND	*1	0.752	0.111	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[a]anthracene	ND		0.0760	0.0427	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[a]pyrene	ND		0.0760	0.0544	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[b]fluoranthene	ND		0.0760	0.0630	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[g,h,i]perylene	ND		0.0760	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzo[k]fluoranthene	ND		0.0760	0.0592	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Benzyl alcohol	ND		0.376	0.0682	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0654	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0847	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Butyl benzyl phthalate	ND		0.376	0.0377	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Carbazole	ND		0.190	0.0498	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Chrysene	ND		0.0760	0.0430	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Dibenz(a,h)anthracene	ND		0.0760	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Dibenzofuran	ND		0.190	0.0659	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Diethyl phthalate	ND		0.376	0.0413	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Di-n-octyl phthalate	ND		0.376	0.0621	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Fluoranthene	ND		0.0760	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Fluorene	ND		0.0760	0.0694	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Hexachlorobenzene	ND		0.190	0.0528	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Hexachlorobutadiene	ND		0.190	0.0950	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1

Client Sample ID: 2023-SB-14-0810' **Lab Sample ID: 620-10051-29**
Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0727	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Hexachloroethane	ND		0.190	0.0748	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Indeno[1,2,3-cd]pyrene	ND		0.0760	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Isophorone	ND		0.190	0.0521	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Naphthalene	ND		0.0760	0.0730	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Nitrobenzene	ND		0.190	0.0879	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0758	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
N-Nitrosodiphenylamine	ND		0.376	0.0480	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pentachloronitrobenzene	ND		0.376	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Phenanthrene	ND		0.0760	0.0431	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Phenol	ND		0.376	0.0775	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pyrene	ND		0.0760	0.0420	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1
Pyridine	ND		0.376	0.0890	mg/Kg	☼	03/09/23 11:00	03/10/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
Phenol-d5 (Surr)	*83*		*15 - 110*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*15 - 110*	*03/09/23 11:00*	*03/10/23 14:48*	*1*
Terphenyl-d14	*87*		*30 - 130*	*03/09/23 11:00*	*03/10/23 14:48*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.284	0.145	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.284	0.121	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Ethylbenzene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Methyl tert-butyl ether	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
m,p-Xylene	ND		0.114	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Naphthalene	ND		0.0568	0.0386	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
o-Xylene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
Toluene	ND		0.0568	0.0114	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
C5-C8 Aliphatics (unadjusted)	ND		0.284	0.145	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
C9-C10 Aromatics	ND		0.284	0.0397	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1
C9-C12 Aliphatics (unadjusted)	ND		0.284	0.121	mg/Kg	☼	03/03/23 07:25	03/04/23 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:18*	*1*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:18*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0217	0.0157	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1221	ND		0.0217	0.00643	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1232	ND		0.0217	0.00602	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1

Client Sample ID: 2023-SB-14-0810'
Date Collected: 03/01/23 11:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-29
Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0217	0.00344	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1248	ND		0.0217	0.00680	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1254	ND		0.0217	0.0169	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1262	ND		0.0217	0.00507	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1260	ND		0.0217	0.00468	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1
PCB-1268	ND		0.0217	0.00463	mg/Kg	☼	03/02/23 13:19	03/04/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:18*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoroheptanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorononanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorodecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorotridecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorotetradecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorobutanesulfonic acid	ND		2.14	0.428	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorohexanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NEtFOSAA	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NMeFOSAA	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
10:2 FTS	ND		2.14	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoropentanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoroheptanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorononanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorodecanesulfonic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctanesulfonamide	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorohexadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorooctadecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorobutanoic acid	ND		2.14	0.856	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoropentanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NMeFOSE	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NMeFOSA	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NEtFOSE	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
NEtFOSA	ND		2.14	0.535	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
HFPODA	ND		2.14	1.07	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
DONA	ND		3.21	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
9Cl-PF3ONS	ND		2.14	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
11Cl-PF3OUdS	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluorododecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
4:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
Perfluoroundecanoic acid	ND		0.642	0.214	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1

Client Sample ID: 2023-SB-14-0810' **Lab Sample ID: 620-10051-29**
Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.14	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1
8:2 Fluorotelomer sulfonic acid	ND		3.21	0.642	ug/Kg	☼	03/03/23 07:13	03/16/23 01:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*101*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
M2-8:2 FTS	*109*		*15 - 200*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
M2-6:2 FTS	*104*		*10 - 200*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C5 PFHxA	*112*		*10 - 174*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C4 PFHpA	*110*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C8 PFOA	*109*		*26 - 159*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C9 PFNA	*116*		*26 - 165*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C6 PFDA	*116*		*26 - 161*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C7 PFUnA	*115*		*12 - 173*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C2-PFDoDA	*111*		*11 - 166*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C2 PFTeDA	*128*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C3 PFHxS	*115*		*24 - 171*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C8 PFOS	*117*		*41 - 154*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d3-NMeFOSAA	*73*		*10 - 178*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d5-NEtFOSAA	*73*		*10 - 193*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C8 FOSA	*110*		*14 - 163*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C4 PFBA	*106*		*28 - 153*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C5 PFPeA	*102*		*24 - 161*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d3-NMePFOSA	*94*		*10 - 175*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d9-N-EtFOSE-M	*103*		*10 - 185*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
d5-NEtPFOSA	*97*		*10 - 180*	*03/03/23 07:13*	*03/16/23 01:56*	*1*
13C3 HFPO-DA	*100*		*10 - 169*	*03/03/23 07:13*	*03/16/23 01:56*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.61	1.91	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Arsenic	**2.65**	**J**	3.36	1.57	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Barium	**16.4**		0.561	0.168	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Beryllium	**0.164**	**J**	0.561	0.112	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Cadmium	ND		0.561	0.112	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Chromium	**3.95**		1.68	0.392	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Lead	**2.22**		1.68	0.673	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Nickel	**1.68**		1.12	0.292	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Selenium	ND		5.61	1.68	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Silver	ND	^3+	1.12	0.449	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Thallium	ND		3.36	1.46	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Vanadium	**5.96**		1.12	0.482	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1
Zinc	**7.71**		2.24	0.897	mg/Kg	☼	03/08/23 00:33	03/10/23 03:40	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0640	0.0213	mg/Kg	☼	03/07/23 20:58	03/08/23 12:29	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0810'
Date Collected: 03/01/23 11:40
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-29
Matrix: Solid
Percent Solids: 86.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.4		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	86.6		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-1012'
Lab Sample ID: 620-10051-30
Date Collected: 03/01/23 11:45
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 83.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00496	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Acetone	ND		0.0496	0.0111	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Acrylonitrile	ND		0.00496	0.00298	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Benzene	ND		0.00496	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromobenzene	ND		0.00496	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromochloromethane	ND		0.00496	0.00282	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromodichloromethane	ND		0.00496	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromoform	ND		0.00496	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Bromomethane	ND		0.00993	0.00619	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2-Butanone (MEK)	ND		0.00993	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
n-Butylbenzene	ND		0.00993	0.00532	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
sec-Butylbenzene	ND		0.00496	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
tert-Butylbenzene	ND		0.00496	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Carbon disulfide	ND		0.00993	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Carbon tetrachloride	ND		0.00496	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chlorobenzene	ND		0.00496	0.00363	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chloroethane	ND		0.00993	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chloroform	ND		0.00496	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Chloromethane	ND		0.00993	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2-Chlorotoluene	ND		0.00496	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
4-Chlorotoluene	ND		0.00496	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dibromo-3-Chloropropane	ND		0.00993	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Dibromochloromethane	ND		0.00496	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dibromoethane (EDB)	ND		0.00496	0.00356	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Dibromomethane	ND		0.00496	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dichlorobenzene	ND		0.00496	0.00461	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3-Dichlorobenzene	ND		0.00496	0.00398	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,4-Dichlorobenzene	ND		0.00496	0.00471	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Dichlorodifluoromethane (Freon 12)	ND		0.00993	0.00266	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1-Dichloroethane	ND		0.00496	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dichloroethane	ND		0.00496	0.00335	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1-Dichloroethene	ND		0.00496	0.00304	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
cis-1,2-Dichloroethene	ND		0.00496	0.00287	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
trans-1,2-Dichloroethene	ND		0.00496	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2-Dichloropropane	ND		0.00496	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3-Dichloropropane	ND		0.00496	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2,2-Dichloropropane	ND		0.00496	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1-Dichloropropene	ND		0.00496	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
cis-1,3-Dichloropropene	ND		0.00496	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
trans-1,3-Dichloropropene	ND		0.00496	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethylbenzene	ND		0.00496	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Hexachlorobutadiene	ND		0.00993	0.00499	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
2-Hexanone (MBK)	ND		0.00993	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Isopropylbenzene	ND		0.00496	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
4-Isopropyltoluene	ND		0.00496	0.00488	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Methyl tert-butyl ether	ND		0.00496	0.00286	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.00993	0.00321	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Methylene Chloride	ND		0.00993	0.00266	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Naphthalene	ND		0.00496	0.00449	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00496	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Styrene	ND		0.00496	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,1,2-Tetrachloroethane	ND		0.00496	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,2,2-Tetrachloroethane	ND		0.00496	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Tetrachloroethene	ND		0.00496	0.00276	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Toluene	ND		0.00496	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,3-Trichlorobenzene	ND		0.00496	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,4-Trichlorobenzene	ND		0.00496	0.00458	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3,5-Trichlorobenzene	ND		0.00496	0.00472	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,1-Trichloroethane	ND		0.00496	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,1,2-Trichloroethane	ND		0.00496	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Trichloroethene	ND		0.00496	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Trichlorofluoromethane (Freon 11)	ND		0.00496	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,3-Trichloropropane	ND		0.00496	0.00441	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,2,4-Trimethylbenzene	ND		0.00496	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3,5-Trimethylbenzene	ND		0.00496	0.00422	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Vinyl chloride	ND		0.00496	0.00303	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
m,p-Xylene	ND		0.00496	0.00678	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
o-Xylene	ND		0.00496	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Tetrahydrofuran	ND		0.00993	0.00251	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethyl ether	ND		0.00496	0.00261	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Tert-amyl methyl ether	ND		0.00496	0.00392	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethyl tert-butyl ether	ND		0.00496	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
di-Isopropyl ether	ND		0.00496	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
tert-Butanol	ND		0.0993	0.0266	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,4-Dioxane	ND		0.0993	0.0309	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
trans-1,4-Dichloro-2-butene	ND		0.0248	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Ethanol	ND		0.993	0.0616	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
1,3-Dichloropropene, Total	ND		0.00496	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1
Xylenes, Total	ND		0.0149	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 18:54*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.391	0.0695	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,2,4-Trichlorobenzene	ND		0.391	0.0895	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,2-Dichlorobenzene	ND		0.391	0.0753	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,3-Dichlorobenzene	ND		0.391	0.0946	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1,4-Dichlorobenzene	ND		0.391	0.0920	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
1-Methylnaphthalene	ND		0.0790	0.0663	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4,5-Trichlorophenol	ND		0.391	0.0448	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4,6-Trichlorophenol	ND		0.198	0.0483	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4-Dichlorophenol	ND		0.198	0.0788	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4-Dimethylphenol	ND		0.391	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,4-Dinitrophenol	ND		0.391	0.103	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-1012'
Date Collected: 03/01/23 11:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-30
Matrix: Solid
Percent Solids: 83.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2,6-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Chloronaphthalene	ND		0.391	0.0904	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Chlorophenol	ND		0.198	0.0809	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Methylnaphthalene	ND		0.0790	0.0584	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Methylphenol	ND		0.391	0.0571	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Nitroaniline	ND		0.391	0.0372	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
2-Nitrophenol	ND		0.198	0.0702	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
3 & 4 Methylphenol	ND		0.391	0.0740	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
3,3'-Dichlorobenzidine	ND		0.391	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
3-Nitroaniline	ND		0.391	0.0349	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4,6-Dinitro-2-methylphenol	ND		0.391	0.0702	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Bromophenyl phenyl ether	ND		0.391	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Chloro-3-methylphenol	ND		0.391	0.0765	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Chloroaniline	ND		0.198	0.0300	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Chlorophenyl phenyl ether	ND		0.391	0.0418	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Nitroaniline	ND		0.198	0.0624	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
4-Nitrophenol	ND		0.391	0.136	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Acenaphthene	ND		0.0790	0.0630	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Acenaphthylene	ND		0.0790	0.0519	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Acetophenone	ND		0.198	0.0482	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Aniline	ND		0.391	0.0300	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Anthracene	ND		0.0790	0.0457	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Azobenzene/Diphenyldiazene	ND		0.391	0.0667	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzidine	ND	*1	0.782	0.116	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[a]anthracene	ND		0.0790	0.0444	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[a]pyrene	ND		0.0790	0.0565	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[b]fluoranthene	ND		0.0790	0.0655	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[g,h,i]perylene	ND		0.0790	0.0617	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzo[k]fluoranthene	ND		0.0790	0.0615	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzoic acid	ND		0.391	0.269	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Benzyl alcohol	ND		0.391	0.0708	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Bis(2-chloroethoxy)methane	ND		0.391	0.0680	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Bis(2-chloroethyl)ether	ND		0.198	0.0647	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
bis (2-chloroisopropyl) ether	ND		0.198	0.0880	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Bis(2-ethylhexyl) phthalate	ND		0.198	0.0503	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Butyl benzyl phthalate	ND		0.391	0.0392	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Carbazole	ND		0.198	0.0518	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Chrysene	ND		0.0790	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Dibenz(a,h)anthracene	ND		0.0790	0.0603	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Dibenzofuran	ND		0.198	0.0684	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Diethyl phthalate	ND		0.391	0.0429	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Dimethyl phthalate	ND		0.391	0.0509	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Di-n-butyl phthalate	ND		0.391	0.0418	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Di-n-octyl phthalate	ND		0.391	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Fluoranthene	ND		0.0790	0.0463	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Fluorene	ND		0.0790	0.0721	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Hexachlorobenzene	ND		0.198	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Hexachlorobutadiene	ND		0.198	0.0986	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.198	0.0756	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Hexachloroethane	ND		0.198	0.0777	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0790	0.0670	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Isophorone	ND		0.198	0.0541	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Naphthalene	ND		0.0790	0.0758	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Nitrobenzene	ND		0.198	0.0913	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
N-Nitrosodimethylamine	ND		0.198	0.0519	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
N-Nitrosodi-n-propylamine	ND		0.198	0.0788	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
N-Nitrosodiphenylamine	ND		0.391	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pentachloronitrobenzene	ND		0.391	0.0617	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pentachlorophenol	ND		0.391	0.160	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Phenanthrene	ND		0.0790	0.0448	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Phenol	ND		0.391	0.0805	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pyrene	ND		0.0790	0.0436	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1
Pyridine	ND		0.391	0.0925	mg/Kg	☼	03/09/23 11:00	03/10/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
2-Fluorophenol (Surr)	*109*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
Nitrobenzene-d5 (Surr)	*46*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:17*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.261	0.134	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.261	0.112	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Ethylbenzene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Methyl tert-butyl ether	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Naphthalene	ND		0.0523	0.0355	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
o-Xylene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
Toluene	ND		0.0523	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
C5-C8 Aliphatics (unadjusted)	ND		0.261	0.134	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
C9-C10 Aromatics	ND		0.261	0.0366	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1
C9-C12 Aliphatics (unadjusted)	ND		0.261	0.112	mg/Kg	☼	03/03/23 07:25	03/04/23 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:57*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 11:57*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1221	ND		0.0229	0.00676	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1232	ND		0.0229	0.00634	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0229	0.00361	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1248	ND		0.0229	0.00715	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1254	ND		0.0229	0.0178	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1262	ND		0.0229	0.00533	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1260	ND		0.0229	0.00492	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1
PCB-1268	ND		0.0229	0.00487	mg/Kg	☼	03/02/23 13:19	03/04/23 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:37*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoroheptanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorononanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorodecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorotridecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorotetradecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorobutanesulfonic acid	ND		2.31	0.462	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorohexanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NEtFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NMeFOSAA	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
10:2 FTS	ND		2.31	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoropentanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoroheptanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorononanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorodecanesulfonic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctanesulfonamide	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorohexadecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorooctadecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorobutanoic acid	ND		2.31	0.924	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoropentanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NMeFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NMeFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NEtFOSE	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
NEtFOSA	ND		2.31	0.577	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
HFPODA	ND		2.31	1.15	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
DONA	ND		3.46	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
9Cl-PF3ONS	ND		2.31	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
11Cl-PF3OUdS	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluorododecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
4:2 Fluorotelomer sulfonic acid	ND		2.31	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
Perfluoroundecanoic acid	ND		0.693	0.231	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1

Client Sample ID: 2023-SB-14-1012' **Lab Sample ID: 620-10051-30**
Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.31	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1
8:2 Fluorotelomer sulfonic acid	ND		3.46	0.693	ug/Kg	☼	03/03/23 07:13	03/16/23 02:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
M2-8:2 FTS	*99*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
M2-6:2 FTS	*96*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C5 PFHxA	*101*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C4 PFHpA	*99*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C8 PFOA	*105*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C9 PFNA	*100*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C6 PFDA	*104*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C7 PFUnA	*94*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C2-PFDoDA	*97*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C2 PFTeDA	*103*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C3 PFBS	*97*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C3 PFHxS	*95*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d3-NMeFOSAA	*72*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d5-NEtFOSAA	*73*		*10 - 193*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C8 FOSA	*90*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C4 PFBA	*103*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d7-N-MeFOSE-M	*87*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d9-N-EtFOSE-M	*82*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
d5-NEtPFOSA	*81*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:08*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:08*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.55	1.55	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Arsenic	**2.61**	**J**	2.73	1.27	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Barium	**13.0**		0.455	0.136	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Beryllium	**0.157**	**J**	0.455	0.0910	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Cadmium	ND		0.455	0.0910	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Chromium	**4.27**		1.36	0.318	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Lead	**1.96**		1.36	0.546	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Nickel	**1.76**		0.910	0.237	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Selenium	ND		4.55	1.36	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Silver	ND	^3+	0.910	0.364	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Thallium	ND		2.73	1.18	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Vanadium	**5.28**		0.910	0.391	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1
Zinc	**8.20**		1.82	0.728	mg/Kg	☼	03/08/23 00:33	03/10/23 04:38	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0697	0.0232	mg/Kg	☼	03/07/23 20:58	03/08/23 12:27	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-1012'
Date Collected: 03/01/23 11:45
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-30
Matrix: Solid
Percent Solids: 83.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.7		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	83.3		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-02

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-31

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Methylene Chloride	**0.00476**	**J**	0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 14:40	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-02

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-31

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 14:40	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 14:40*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0002'
Date Collected: 03/01/23 12:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-32
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00494	0.00322	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Acetone	ND		0.0494	0.0111	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Acrylonitrile	ND		0.00494	0.00296	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Benzene	ND		0.00494	0.00330	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromobenzene	ND		0.00494	0.00329	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromochloromethane	ND		0.00494	0.00281	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromodichloromethane	ND		0.00494	0.00363	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromoform	ND		0.00494	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Bromomethane	ND		0.00988	0.00616	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2-Butanone (MEK)	ND		0.00988	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
n-Butylbenzene	ND		0.00988	0.00530	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
sec-Butylbenzene	ND		0.00494	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
tert-Butylbenzene	ND		0.00494	0.00389	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Carbon disulfide	ND		0.00988	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Carbon tetrachloride	ND		0.00494	0.00311	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chlorobenzene	ND		0.00494	0.00362	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chloroethane	ND		0.00988	0.00363	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chloroform	ND		0.00494	0.00332	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Chloromethane	ND		0.00988	0.00379	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2-Chlorotoluene	ND		0.00494	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
4-Chlorotoluene	ND		0.00494	0.00429	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND		0.00988	0.00419	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Dibromochloromethane	ND		0.00494	0.00327	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dibromoethane (EDB)	ND		0.00494	0.00355	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Dibromomethane	ND		0.00494	0.00290	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dichlorobenzene	ND		0.00494	0.00458	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3-Dichlorobenzene	ND		0.00494	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,4-Dichlorobenzene	ND		0.00494	0.00468	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Dichlorodifluoromethane (Freon 12)	ND		0.00988	0.00265	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1-Dichloroethane	ND		0.00494	0.00335	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dichloroethane	ND		0.00494	0.00333	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1-Dichloroethene	ND		0.00494	0.00302	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
cis-1,2-Dichloroethene	ND		0.00494	0.00286	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
trans-1,2-Dichloroethene	ND		0.00494	0.00307	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2-Dichloropropane	ND		0.00494	0.00327	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3-Dichloropropane	ND		0.00494	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2,2-Dichloropropane	ND		0.00494	0.00341	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1-Dichloropropene	ND		0.00494	0.00336	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
cis-1,3-Dichloropropene	ND		0.00494	0.00322	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
trans-1,3-Dichloropropene	ND		0.00494	0.00375	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethylbenzene	ND		0.00494	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Hexachlorobutadiene	ND		0.00988	0.00497	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
2-Hexanone (MBK)	ND		0.00988	0.00290	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Isopropylbenzene	ND		0.00494	0.00373	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
4-Isopropyltoluene	ND		0.00494	0.00485	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Methyl tert-butyl ether	ND		0.00494	0.00285	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.00988	0.00319	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Methylene Chloride	ND		0.00988	0.00265	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Naphthalene	ND		0.00494	0.00447	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00494	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Styrene	ND		0.00494	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,1,2-Tetrachloroethane	ND		0.00494	0.00371	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.00494	0.00453	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Tetrachloroethene	ND		0.00494	0.00275	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Toluene	ND		0.00494	0.00313	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,3-Trichlorobenzene	ND		0.00494	0.00417	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,4-Trichlorobenzene	ND		0.00494	0.00456	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3,5-Trichlorobenzene	ND		0.00494	0.00469	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,1-Trichloroethane	ND		0.00494	0.00337	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,1,2-Trichloroethane	ND		0.00494	0.00373	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Trichloroethene	ND		0.00494	0.00332	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Trichlorofluoromethane (Freon 11)	ND		0.00494	0.00377	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,3-Trichloropropane	ND		0.00494	0.00439	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,2,4-Trimethylbenzene	ND		0.00494	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3,5-Trimethylbenzene	ND		0.00494	0.00420	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Vinyl chloride	ND		0.00494	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
m,p-Xylene	ND		0.00494	0.00675	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
o-Xylene	ND		0.00494	0.00361	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Tetrahydrofuran	ND		0.00988	0.00250	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethyl ether	ND		0.00494	0.00260	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Tert-amyl methyl ether	ND		0.00494	0.00390	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethyl tert-butyl ether	ND		0.00494	0.00325	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
di-Isopropyl ether	ND		0.00494	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
tert-Butanol	ND		0.0988	0.0265	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,4-Dioxane	ND		0.0988	0.0307	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00365	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Ethanol	ND		0.988	0.0613	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
1,3-Dichloropropene, Total	ND		0.00494	0.00375	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1
Xylenes, Total	ND		0.0148	0.00494	mg/Kg	☼	03/06/23 09:50	03/06/23 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:50*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.704	0.125	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,2,4-Trichlorobenzene	ND		0.704	0.161	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,2-Dichlorobenzene	ND		0.704	0.136	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,3-Dichlorobenzene	ND		0.704	0.171	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1,4-Dichlorobenzene	ND		0.704	0.166	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
1-Methylnaphthalene	ND		0.142	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4,5-Trichlorophenol	ND		0.704	0.0807	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4,6-Trichlorophenol	ND		0.356	0.0871	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4-Dichlorophenol	ND		0.356	0.142	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4-Dimethylphenol	ND		0.704	0.103	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,4-Dinitrophenol	**1.21**		0.704	0.185	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.356	0.0835	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2,6-Dinitrotoluene	ND		0.356	0.0835	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Chloronaphthalene	ND		0.704	0.163	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Chlorophenol	ND		0.356	0.146	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Methylnaphthalene	ND		0.142	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Methylphenol	ND		0.704	0.103	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Nitroaniline	ND		0.704	0.0670	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
2-Nitrophenol	ND		0.356	0.127	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
3 & 4 Methylphenol	ND		0.704	0.133	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
3,3'-Dichlorobenzidine	ND		0.704	0.116	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
3-Nitroaniline	ND		0.704	0.0630	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4,6-Dinitro-2-methylphenol	ND		0.704	0.127	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Bromophenyl phenyl ether	ND		0.704	0.0796	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Chloro-3-methylphenol	ND		0.704	0.138	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Chloroaniline	ND		0.356	0.0540	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Chlorophenyl phenyl ether	ND		0.704	0.0754	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Nitroaniline	ND		0.356	0.112	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
4-Nitrophenol	ND		0.704	0.245	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Acenaphthene	ND		0.142	0.114	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Acenaphthylene	ND		0.142	0.0935	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Acetophenone	ND		0.356	0.0869	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Aniline	ND		0.704	0.0540	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Anthracene	ND		0.142	0.0824	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Azobenzene/Diphenyldiazene	ND		0.704	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzidine	**1.62**	***1**	1.41	0.209	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[a]anthracene	**0.190**		0.142	0.0801	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[a]pyrene	**0.130**	**J**	0.142	0.102	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[b]fluoranthene	**0.211**		0.142	0.118	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[g,h,i]perylene	**0.114**	**J**	0.142	0.111	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzo[k]fluoranthene	**0.171**		0.142	0.111	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzoic acid	ND		0.704	0.485	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Benzyl alcohol	ND		0.704	0.128	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Bis(2-chloroethoxy)methane	ND		0.704	0.123	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Bis(2-chloroethyl)ether	ND		0.356	0.117	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
bis (2-chloroisopropyl) ether	ND		0.356	0.159	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Bis(2-ethylhexyl) phthalate	**8.64**		1.78	0.454	mg/Kg	☼	03/09/23 11:00	03/13/23 21:55	5
Butyl benzyl phthalate	**1.53**		0.704	0.0707	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Carbazole	ND		0.356	0.0933	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Chrysene	**0.296**		0.142	0.0805	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Dibenz(a,h)anthracene	ND		0.142	0.109	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Dibenzofuran	ND		0.356	0.123	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Diethyl phthalate	ND		0.704	0.0773	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Dimethyl phthalate	ND		0.704	0.0918	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Di-n-butyl phthalate	**1.71**		0.704	0.0754	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Di-n-octyl phthalate	ND		0.704	0.116	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Fluoranthene	**0.423**		0.142	0.0835	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Fluorene	ND		0.142	0.130	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Hexachlorobenzene	ND		0.356	0.0988	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Hexachlorobutadiene	ND		0.356	0.178	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.356	0.136	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Hexachloroethane	ND		0.356	0.140	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Indeno[1,2,3-cd]pyrene	ND		0.142	0.121	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Isophorone	ND		0.356	0.0976	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Naphthalene	ND		0.142	0.137	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Nitrobenzene	ND		0.356	0.165	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
N-Nitrosodimethylamine	ND		0.356	0.0935	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
N-Nitrosodi-n-propylamine	ND		0.356	0.142	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
N-Nitrosodiphenylamine	ND		0.704	0.0899	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pentachloronitrobenzene	ND		0.704	0.111	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pentachlorophenol	ND		0.704	0.288	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Phenanthrene	**0.160**		0.142	0.0807	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Phenol	ND		0.704	0.145	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pyrene	**0.379**		0.142	0.0786	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1
Pyridine	ND		0.704	0.167	mg/Kg	☼	03/09/23 11:00	03/13/23 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
2-Fluorophenol (Surr)	*84*		*15 - 110*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
Phenol-d5 (Surr)	*81*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:23*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/09/23 11:00*	*03/13/23 21:55*	*5*
Terphenyl-d14	*77*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:23*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.251	0.128	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.251	0.107	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Ethylbenzene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Methyl tert-butyl ether	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Naphthalene	ND		0.0501	0.0341	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
o-Xylene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
Toluene	ND		0.0501	0.0100	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
C5-C8 Aliphatics (unadjusted)	ND		0.251	0.128	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
C9-C10 Aromatics	ND		0.251	0.0351	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1
C9-C12 Aliphatics (unadjusted)	ND		0.251	0.107	mg/Kg	☼	03/03/23 07:25	03/04/23 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 12:37*	*1*

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/03/23 07:25*	*03/04/23 12:37*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.420	0.303	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1221	ND		0.420	0.124	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1232	ND		0.420	0.116	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1242	ND		0.420	0.0663	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1248	ND		0.420	0.131	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1254	**10.3**		0.420	0.327	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1262	ND		0.420	0.0978	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1260	ND		0.420	0.0903	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20
PCB-1268	ND		0.420	0.0894	mg/Kg	☼	03/02/23 13:19	03/08/23 16:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*03/02/23 13:19*	*03/08/23 16:34*	*20*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoroheptanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorononanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorodecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorotridecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorotetradecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorobutanesulfonic acid	ND		2.06	0.413	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorohexanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NEtFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NMeFOSAA	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
10:2 FTS	ND		2.06	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoropentanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoroheptanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorononanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorodecanesulfonic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctanesulfonamide	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorohexadecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorooctadecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorobutanoic acid	ND		2.06	0.825	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoropentanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NMeFOSE	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NMeFOSA	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NEtFOSE	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
NEtFOSA	ND		2.06	0.516	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1

Client Sample ID: 2023-SB-13-0002' **Lab Sample ID: 620-10051-32**
Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.06	1.03	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
DONA	ND		3.09	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
9Cl-PF3ONS	ND		2.06	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
11Cl-PF3OUdS	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluorododecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.06	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
Perfluoroundecanoic acid	ND		0.619	0.206	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
6:2 Fluorotelomer sulfonic acid	ND		2.06	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.09	0.619	ug/Kg	☼	03/03/23 07:13	03/16/23 02:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*20*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
M2-8:2 FTS	*23*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
M2-6:2 FTS	*24*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C5 PFHxA	*82*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C4 PFHpA	*84*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C8 PFOA	*82*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C9 PFNA	*81*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C6 PFDA	*80*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C7 PFUnA	*84*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C2-PFDoDA	*86*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C2 PFTeDA	*97*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C3 PFBS	*117*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C3 PFHxS	*129*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d3-NMeFOSAA	*0.6*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d5-NEtFOSAA	*1*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C4 PFBA	*71*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d7-N-MeFOSE-M	*105*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d3-NMePFOSA	*94*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d9-N-EtFOSE-M	*104*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
d5-NEtPFOSA	*99*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:19*	*1*
13C3 HFPO-DA	*102*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:19*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoroheptanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorononanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorodecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorotridecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorotetradecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorobutanesulfonic acid	ND		2.08	0.417	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorohexanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0002'
Date Collected: 03/01/23 12:50
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-32
Matrix: Solid
Percent Solids: 93.2

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.08	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoropentanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoroheptanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorononanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorodecanesulfonic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctanesulfonamide	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorohexadecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorooctadecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorobutanoic acid	ND		2.08	0.833	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoropentanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NMeFOSE	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NMeFOSA	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NEtFOSE	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
NEtFOSA	ND		2.08	0.521	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
DONA	ND		3.12	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
11Cl-PF3OUdS	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluorododecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
Perfluoroundecanoic acid	ND		0.625	0.208	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1
8:2 Fluorotelomer sulfonic acid	ND		3.12	0.625	ug/Kg	☼	03/20/23 00:33	03/21/23 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
M2-8:2 FTS	*122*		*15 - 200*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
M2-6:2 FTS	*113*		*10 - 200*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C5 PFHxA	*141*		*10 - 174*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C4 PFHpA	*143*		*10 - 178*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C8 PFOA	*143*		*26 - 159*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C9 PFNA	*115*		*26 - 165*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C6 PFDA	*131*		*26 - 161*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C7 PFUnA	*132*		*12 - 173*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C2-PFDoDA	*130*		*11 - 166*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C3 PFBS	*148*		*27 - 179*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C3 PFHxS	*168*		*24 - 171*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C8 PFOS	*137*		*41 - 154*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C8 FOSA	*124*		*14 - 163*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C4 PFBA	*132*		*28 - 153*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
13C5 PFPeA	*123*		*24 - 161*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d7-N-MeFOSE-M	*109*		*10 - 179*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d9-N-EtFOSE-M	*114*		*10 - 185*	*03/20/23 00:33*	*03/21/23 04:52*	*1*
d5-NEtPFOSA	*92*		*10 - 180*	*03/20/23 00:33*	*03/21/23 04:52*	*1*

Client Sample ID: 2023-SB-13-0002' Lab Sample ID: 620-10051-32

Date Collected: 03/01/23 12:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*142*		*10 - 169*	*03/20/23 00:33*	*03/21/23 04:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.16	1.41	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Arsenic	**12.8**		2.49	1.16	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Barium	**29.4**		0.416	0.125	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Beryllium	**0.201**	**J**	0.416	0.0832	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Cadmium	ND		0.416	0.0832	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Chromium	**4.55**		1.25	0.291	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Lead	**9.60**		1.25	0.499	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Nickel	**2.34**		0.832	0.216	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Selenium	ND		4.16	1.25	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Silver	ND	^3+	0.832	0.333	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Thallium	ND		2.49	1.08	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Vanadium	**7.12**		0.832	0.358	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1
Zinc	**14.3**		1.66	0.665	mg/Kg	☼	03/08/23 00:33	03/10/23 06:02	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0594	0.0198	mg/Kg	☼	03/08/23 00:46	03/09/23 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.8**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**93.2**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0204'
Date Collected: 03/01/23 12:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-33
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00553	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Acetone	ND		0.0553	0.0124	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Acrylonitrile	ND		0.00553	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Benzene	ND		0.00553	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromobenzene	ND		0.00553	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromochloromethane	ND		0.00553	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromodichloromethane	ND		0.00553	0.00406	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromoform	ND		0.00553	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Bromomethane	ND		0.0111	0.00689	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2-Butanone (MEK)	ND		0.0111	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
n-Butylbenzene	ND		0.0111	0.00593	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
sec-Butylbenzene	ND		0.00553	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
tert-Butylbenzene	ND		0.00553	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Carbon disulfide	ND		0.0111	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Carbon tetrachloride	ND		0.00553	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chlorobenzene	ND		0.00553	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chloroethane	ND		0.0111	0.00406	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chloroform	ND		0.00553	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Chloromethane	ND		0.0111	0.00425	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2-Chlorotoluene	ND		0.00553	0.00440	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
4-Chlorotoluene	ND		0.00553	0.00480	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0111	0.00469	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Dibromochloromethane	ND		0.00553	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dibromoethane (EDB)	ND		0.00553	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Dibromomethane	ND		0.00553	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dichlorobenzene	ND		0.00553	0.00513	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3-Dichlorobenzene	ND		0.00553	0.00444	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,4-Dichlorobenzene	ND		0.00553	0.00524	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.0111	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1-Dichloroethane	ND		0.00553	0.00375	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dichloroethane	ND		0.00553	0.00373	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1-Dichloroethene	ND		0.00553	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
cis-1,2-Dichloroethene	ND		0.00553	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
trans-1,2-Dichloroethene	ND		0.00553	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2-Dichloropropane	ND		0.00553	0.00366	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3-Dichloropropane	ND		0.00553	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2,2-Dichloropropane	ND		0.00553	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1-Dichloropropene	ND		0.00553	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
cis-1,3-Dichloropropene	ND		0.00553	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
trans-1,3-Dichloropropene	ND		0.00553	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethylbenzene	ND		0.00553	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Hexachlorobutadiene	ND		0.0111	0.00557	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
2-Hexanone (MBK)	ND		0.0111	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Isopropylbenzene	ND		0.00553	0.00418	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
4-Isopropyltoluene	ND		0.00553	0.00543	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Methyl tert-butyl ether	ND		0.00553	0.00319	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0111	0.00357	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Methylene Chloride	ND		0.0111	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Naphthalene	ND		0.00553	0.00500	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00553	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Styrene	ND		0.00553	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,1,2-Tetrachloroethane	ND		0.00553	0.00415	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,2,2-Tetrachloroethane	ND		0.00553	0.00507	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Tetrachloroethene	ND		0.00553	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Toluene	ND		0.00553	0.00351	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,3-Trichlorobenzene	ND		0.00553	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,4-Trichlorobenzene	ND		0.00553	0.00510	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3,5-Trichlorobenzene	ND		0.00553	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,1-Trichloroethane	ND		0.00553	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,1,2-Trichloroethane	ND		0.00553	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Trichloroethene	ND		0.00553	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00553	0.00423	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,3-Trichloropropane	ND		0.00553	0.00491	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,2,4-Trimethylbenzene	ND		0.00553	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3,5-Trimethylbenzene	ND		0.00553	0.00470	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Vinyl chloride	ND		0.00553	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
m,p-Xylene	ND		0.00553	0.00756	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
o-Xylene	ND		0.00553	0.00404	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Tetrahydrofuran	ND		0.0111	0.00280	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethyl ether	ND		0.00553	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Tert-amyl methyl ether	ND		0.00553	0.00437	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethyl tert-butyl ether	ND		0.00553	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
di-Isopropyl ether	ND		0.00553	0.00395	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
tert-Butanol	ND		0.111	0.0297	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,4-Dioxane	ND		0.111	0.0344	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
trans-1,4-Dichloro-2-butene	ND		0.0277	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Ethanol	ND		1.11	0.0686	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
1,3-Dichloropropene, Total	ND		0.00553	0.00420	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1
Xylenes, Total	ND		0.0166	0.00553	mg/Kg	☼	03/03/23 10:32	03/03/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 19:45*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.346	0.0616	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,2,4-Trichlorobenzene	ND		0.346	0.0793	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,2-Dichlorobenzene	ND		0.346	0.0667	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,3-Dichlorobenzene	ND		0.346	0.0838	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1,4-Dichlorobenzene	ND		0.346	0.0815	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
1-Methylnaphthalene	ND		0.0700	0.0587	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4,5-Trichlorophenol	ND		0.346	0.0396	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4,6-Trichlorophenol	ND		0.175	0.0428	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4-Dichlorophenol	ND		0.175	0.0697	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4-Dimethylphenol	ND		0.346	0.0508	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,4-Dinitrophenol	ND		0.346	0.0910	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0204'
Date Collected: 03/01/23 12:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-33
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2,6-Dinitrotoluene	ND		0.175	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Chloronaphthalene	ND		0.346	0.0800	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Chlorophenol	ND		0.175	0.0716	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Methylnaphthalene	ND		0.0700	0.0517	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Methylphenol	ND		0.346	0.0506	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Nitroaniline	ND		0.346	0.0329	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
2-Nitrophenol	ND		0.175	0.0622	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
3 & 4 Methylphenol	ND		0.346	0.0656	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
3,3'-Dichlorobenzidine	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
3-Nitroaniline	ND		0.346	0.0309	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4,6-Dinitro-2-methylphenol	ND		0.346	0.0622	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Bromophenyl phenyl ether	ND		0.346	0.0391	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Chloro-3-methylphenol	ND		0.346	0.0678	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Chlorophenyl phenyl ether	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Nitroaniline	ND		0.175	0.0553	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
4-Nitrophenol	ND		0.346	0.121	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Acenaphthene	ND		0.0700	0.0558	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Acenaphthylene	ND		0.0700	0.0459	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Acetophenone	ND		0.175	0.0427	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Aniline	ND		0.346	0.0265	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Anthracene	ND		0.0700	0.0405	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Azobenzene/Diphenyldiazene	ND		0.346	0.0590	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzidine	ND	*1	0.692	0.102	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[a]anthracene	ND		0.0700	0.0393	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[a]pyrene	ND		0.0700	0.0500	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[b]fluoranthene	ND		0.0700	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[g,h,i]perylene	ND		0.0700	0.0546	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzo[k]fluoranthene	ND		0.0700	0.0544	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzoic acid	ND		0.346	0.238	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Benzyl alcohol	ND		0.346	0.0627	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Bis(2-chloroethoxy)methane	ND		0.346	0.0602	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Bis(2-chloroethyl)ether	ND		0.175	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0779	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Bis(2-ethylhexyl) phthalate	ND		0.175	0.0446	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Butyl benzyl phthalate	ND		0.346	0.0347	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Carbazole	ND		0.175	0.0458	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Chrysene	ND		0.0700	0.0395	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Dibenz(a,h)anthracene	ND		0.0700	0.0534	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Dibenzofuran	ND		0.175	0.0606	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Diethyl phthalate	ND		0.346	0.0380	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Dimethyl phthalate	ND		0.346	0.0451	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Di-n-butyl phthalate	ND		0.346	0.0370	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Di-n-octyl phthalate	ND		0.346	0.0572	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Fluoranthene	ND		0.0700	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Fluorene	ND		0.0700	0.0639	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Hexachlorobenzene	ND		0.175	0.0486	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Hexachlorobutadiene	ND		0.175	0.0874	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0669	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Hexachloroethane	ND		0.175	0.0688	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0700	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Isophorone	ND		0.175	0.0479	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Naphthalene	ND		0.0700	0.0671	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Nitrobenzene	ND		0.175	0.0809	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
N-Nitrosodimethylamine	ND		0.175	0.0459	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0697	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
N-Nitrosodiphenylamine	ND		0.346	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pentachloronitrobenzene	ND		0.346	0.0546	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pentachlorophenol	ND		0.346	0.142	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Phenanthrene	ND		0.0700	0.0396	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Phenol	ND		0.346	0.0713	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pyrene	ND		0.0700	0.0386	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1
Pyridine	ND		0.346	0.0819	mg/Kg	☼	03/09/23 11:00	03/10/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
2-Fluorophenol (Surr)	*92*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*03/09/23 11:00*	*03/10/23 15:46*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/09/23 11:00*	*03/10/23 15:46*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.267	0.137	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.267	0.114	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Ethylbenzene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Methyl tert-butyl ether	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
m,p-Xylene	ND		0.107	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Naphthalene	ND		0.0533	0.0363	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
o-Xylene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
Toluene	ND		0.0533	0.0107	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
C5-C8 Aliphatics (unadjusted)	ND		0.267	0.137	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
C9-C10 Aromatics	ND		0.267	0.0373	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1
C9-C12 Aliphatics (unadjusted)	ND		0.267	0.114	mg/Kg	☼	03/03/23 07:25	03/04/23 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:16*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:16*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1221	ND		0.0208	0.00615	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1232	ND		0.0208	0.00576	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1254	**0.0181**	**J**	0.0208	0.0162	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1262	ND		0.0208	0.00485	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1260	ND		0.0208	0.00447	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/02/23 13:19	03/04/23 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*03/02/23 13:19*	*03/04/23 01:56*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoroheptanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorononanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorodecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorotridecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorotetradecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorobutanesulfonic acid	ND		2.08	0.416	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorohexanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
10:2 FTS	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoropentanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoroheptanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorononanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorodecanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctanesulfonamide	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorohexadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorooctadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorobutanoic acid	ND		2.08	0.831	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoropentanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NMeFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NMeFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NEtFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
NEtFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
DONA	ND		3.12	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
11Cl-PF3OUdS	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluorododecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
Perfluoroundecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.12	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 02:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*27*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
M2-8:2 FTS	*30*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
M2-6:2 FTS	*30*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C5 PFHxA	*40*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C4 PFHpA	*40*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C8 PFOA	*41*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C9 PFNA	*43*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C6 PFDA	*42*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C7 PFUnA	*43*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C2-PFDoDA	*47*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C2 PFTeDA	*51*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C3 PFBS	*64*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C3 PFHxS	*70*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C8 PFOS	*74*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C4 PFBA	*37*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C5 PFPeA	*35*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d7-N-MeFOSE-M	*105*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d9-N-EtFOSE-M	*104*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
d5-NEtPFOSA	*93*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:30*	*1*
13C3 HFPO-DA	*47*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoroheptanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorononanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorodecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorotridecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorotetradecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorobutanesulfonic acid	ND		1.94	0.389	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorohexanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NEtFOSAA	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NMeFOSAA	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
10:2 FTS	ND		1.94	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoropentanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoroheptanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorononanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorodecanesulfonic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctanesulfonamide	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1

Client Sample ID: 2023-SB-13-0204' **Lab Sample ID: 620-10051-33**
Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorooctadecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorobutanoic acid	ND		1.94	0.778	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoropentanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NMeFOSE	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NMeFOSA	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NEtFOSE	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
NEtFOSA	ND		1.94	0.486	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
HFPODA	ND		1.94	0.972	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
DONA	ND		2.92	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
9Cl-PF3ONS	ND		1.94	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
11Cl-PF3OUdS	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluorododecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
4:2 Fluorotelomer sulfonic acid	ND		1.94	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
Perfluoroundecanoic acid	ND		0.583	0.194	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
6:2 Fluorotelomer sulfonic acid	ND		1.94	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1
8:2 Fluorotelomer sulfonic acid	ND		2.92	0.583	ug/Kg	☼	03/20/23 00:33	03/21/23 05:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*100*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
M2-8:2 FTS	*104*		*15 - 200*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
M2-6:2 FTS	*110*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C5 PFHxA	*126*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C4 PFHpA	*127*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C8 PFOA	*124*		*26 - 159*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C6 PFDA	*116*		*26 - 161*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C7 PFUnA	*119*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C2-PFDoDA	*118*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C2 PFTeDA	*117*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C3 PFBS	*136*		*27 - 179*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C3 PFHxS	*158*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C8 FOSA	*132*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C4 PFBA	*112*		*28 - 153*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C5 PFPeA	*110*		*24 - 161*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d7-N-MeFOSE-M	*124*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d3-NMePFOSA	*123*		*10 - 175*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d9-N-EtFOSE-M	*133*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
d5-NEtPFOSA	*122*		*10 - 180*	*03/20/23 00:33*	*03/21/23 05:03*	*1*
13C3 HFPO-DA	*124*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.77	1.62	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Arsenic	**4.84**		2.86	1.34	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Barium	**11.9**		0.477	0.143	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Beryllium	**0.209**	**J**	0.477	0.0955	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0204'

Date Collected: 03/01/23 12:55
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-33

Matrix: Solid
Percent Solids: 94.4

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.477	0.0955	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Chromium	**4.88**		1.43	0.334	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Lead	**2.64**		1.43	0.573	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Nickel	**2.17**		0.955	0.248	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Selenium	ND		4.77	1.43	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Silver	ND	^3+	0.955	0.382	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Thallium	ND		2.86	1.24	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Vanadium	**7.54**		0.955	0.411	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1
Zinc	**9.04**		1.91	0.764	mg/Kg	☼	03/08/23 00:33	03/10/23 03:56	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0636	0.0212	mg/Kg	☼	03/07/23 20:58	03/08/23 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.6**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**94.4**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-04
Date Collected: 03/01/23 08:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-34
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00571	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Acetone	ND		0.0571	0.0128	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Acrylonitrile	ND		0.00571	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Benzene	ND		0.00571	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromobenzene	ND		0.00571	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromochloromethane	ND		0.00571	0.00324	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromodichloromethane	ND		0.00571	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromoform	ND		0.00571	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Bromomethane	ND		0.0114	0.00712	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2-Butanone (MEK)	ND		0.0114	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
n-Butylbenzene	ND		0.0114	0.00612	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
sec-Butylbenzene	ND		0.00571	0.00460	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
tert-Butylbenzene	ND		0.00571	0.00450	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Carbon disulfide	ND		0.0114	0.00401	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Carbon tetrachloride	ND		0.00571	0.00360	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chlorobenzene	ND		0.00571	0.00418	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chloroethane	ND		0.0114	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chloroform	ND		0.00571	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Chloromethane	ND		0.0114	0.00439	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2-Chlorotoluene	ND		0.00571	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
4-Chlorotoluene	ND		0.00571	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dibromo-3-Chloropropane	ND		0.0114	0.00484	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Dibromochloromethane	ND		0.00571	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dibromoethane (EDB)	ND		0.00571	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Dibromomethane	ND		0.00571	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dichlorobenzene	ND		0.00571	0.00530	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3-Dichlorobenzene	ND		0.00571	0.00458	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,4-Dichlorobenzene	ND		0.00571	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Dichlorodifluoromethane (Freon 12)	ND		0.0114	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1-Dichloroethane	ND		0.00571	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dichloroethane	ND		0.00571	0.00385	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1-Dichloroethene	ND		0.00571	0.00349	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
cis-1,2-Dichloroethene	ND		0.00571	0.00330	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
trans-1,2-Dichloroethene	ND		0.00571	0.00355	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2-Dichloropropane	ND		0.00571	0.00378	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3-Dichloropropane	ND		0.00571	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2,2-Dichloropropane	ND		0.00571	0.00394	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1-Dichloropropene	ND		0.00571	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
cis-1,3-Dichloropropene	ND		0.00571	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
trans-1,3-Dichloropropene	ND		0.00571	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethylbenzene	ND		0.00571	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Hexachlorobutadiene	ND		0.0114	0.00574	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
2-Hexanone (MBK)	ND		0.0114	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Isopropylbenzene	ND		0.00571	0.00432	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
4-Isopropyltoluene	ND		0.00571	0.00561	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Methyl tert-butyl ether	ND		0.00571	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.0114	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Methylene Chloride	ND		0.0114	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Naphthalene	ND		0.00571	0.00516	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00571	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Styrene	ND		0.00571	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,1,2-Tetrachloroethane	ND		0.00571	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,2,2-Tetrachloroethane	ND		0.00571	0.00523	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Tetrachloroethene	ND		0.00571	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Toluene	ND		0.00571	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,3-Trichlorobenzene	ND		0.00571	0.00482	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,4-Trichlorobenzene	ND		0.00571	0.00526	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3,5-Trichlorobenzene	ND		0.00571	0.00542	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,1-Trichloroethane	ND		0.00571	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,1,2-Trichloroethane	ND		0.00571	0.00431	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Trichloroethene	ND		0.00571	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Trichlorofluoromethane (Freon 11)	ND		0.00571	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,3-Trichloropropane	ND		0.00571	0.00507	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,2,4-Trimethylbenzene	ND		0.00571	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3,5-Trimethylbenzene	ND		0.00571	0.00485	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Vinyl chloride	ND		0.00571	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
m,p-Xylene	ND		0.00571	0.00780	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
o-Xylene	ND		0.00571	0.00417	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Tetrahydrofuran	ND		0.0114	0.00289	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethyl ether	ND		0.00571	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Tert-amyl methyl ether	ND		0.00571	0.00451	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethyl tert-butyl ether	ND		0.00571	0.00376	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
di-Isopropyl ether	ND		0.00571	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
tert-Butanol	ND		0.114	0.0306	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,4-Dioxane	ND		0.114	0.0355	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
trans-1,4-Dichloro-2-butene	ND		0.0286	0.00421	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Ethanol	ND		1.14	0.0708	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
1,3-Dichloropropene, Total	ND		0.00571	0.00434	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1
Xylenes, Total	ND		0.0171	0.00571	mg/Kg	☼	03/03/23 10:32	03/03/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:11*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.340	0.0605	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,2,4-Trichlorobenzene	ND		0.340	0.0780	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,2-Dichlorobenzene	ND		0.340	0.0656	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,3-Dichlorobenzene	ND		0.340	0.0824	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1,4-Dichlorobenzene	ND		0.340	0.0801	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
1-Methylnaphthalene	ND		0.0688	0.0578	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4,5-Trichlorophenol	ND		0.340	0.0390	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4,6-Trichlorophenol	ND		0.172	0.0421	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4-Dichlorophenol	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4-Dimethylphenol	ND		0.340	0.0499	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,4-Dinitrophenol	ND		0.340	0.0895	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-04
Date Collected: 03/01/23 08:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-34
Matrix: Solid
Percent Solids: 94.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2,6-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Chloronaphthalene	ND		0.340	0.0787	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Chlorophenol	ND		0.172	0.0705	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Methylnaphthalene	ND		0.0688	0.0509	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Methylphenol	ND		0.340	0.0497	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Nitroaniline	ND		0.340	0.0324	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
2-Nitrophenol	ND		0.172	0.0612	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
3 & 4 Methylphenol	ND		0.340	0.0645	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
3,3'-Dichlorobenzidine	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
3-Nitroaniline	ND		0.340	0.0304	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4,6-Dinitro-2-methylphenol	ND		0.340	0.0612	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Bromophenyl phenyl ether	ND		0.340	0.0385	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Chloro-3-methylphenol	ND		0.340	0.0666	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Chloroaniline	ND		0.172	0.0261	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Chlorophenyl phenyl ether	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Nitroaniline	ND		0.172	0.0544	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
4-Nitrophenol	ND		0.340	0.119	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Acenaphthene	ND		0.0688	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Acenaphthylene	ND		0.0688	0.0452	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Acetophenone	ND		0.172	0.0420	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Aniline	ND		0.340	0.0261	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Anthracene	ND		0.0688	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Azobenzene/Diphenyldiazene	ND		0.340	0.0581	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzidine	ND	*1	0.681	0.101	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[a]anthracene	ND		0.0688	0.0387	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[a]pyrene	ND		0.0688	0.0492	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[b]fluoranthene	ND		0.0688	0.0570	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[g,h,i]perylene	ND		0.0688	0.0537	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzo[k]fluoranthene	ND		0.0688	0.0535	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzoic acid	ND		0.340	0.234	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Benzyl alcohol	ND		0.340	0.0617	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Bis(2-chloroethoxy)methane	ND		0.340	0.0592	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Bis(2-chloroethyl)ether	ND		0.172	0.0563	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
bis (2-chloroisopropyl) ether	ND		0.172	0.0766	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Bis(2-ethylhexyl) phthalate	ND		0.172	0.0438	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Butyl benzyl phthalate	ND		0.340	0.0341	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Carbazole	ND		0.172	0.0451	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Chrysene	ND		0.0688	0.0389	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Dibenz(a,h)anthracene	ND		0.0688	0.0525	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Dibenzofuran	ND		0.172	0.0596	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Diethyl phthalate	ND		0.340	0.0373	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Dimethyl phthalate	ND		0.340	0.0444	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Di-n-butyl phthalate	ND		0.340	0.0364	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Di-n-octyl phthalate	ND		0.340	0.0562	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Fluoranthene	ND		0.0688	0.0403	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Fluorene	ND		0.0688	0.0628	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Hexachlorobenzene	ND		0.172	0.0478	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Hexachlorobutadiene	ND		0.172	0.0859	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.172	0.0658	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Hexachloroethane	ND		0.172	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0688	0.0584	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Isophorone	ND		0.172	0.0471	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Naphthalene	ND		0.0688	0.0660	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Nitrobenzene	ND		0.172	0.0795	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
N-Nitrosodimethylamine	ND		0.172	0.0452	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
N-Nitrosodi-n-propylamine	ND		0.172	0.0686	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
N-Nitrosodiphenylamine	ND		0.340	0.0434	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pentachloronitrobenzene	ND		0.340	0.0537	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pentachlorophenol	ND		0.340	0.139	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Phenanthrene	ND		0.0688	0.0390	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Phenol	ND		0.340	0.0701	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pyrene	ND		0.0688	0.0380	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1
Pyridine	ND		0.340	0.0806	mg/Kg	☼	03/09/23 11:00	03/10/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:15*	*1*
Terphenyl-d14	*83*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:15*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.278	0.143	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.278	0.119	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Ethylbenzene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Methyl tert-butyl ether	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
m,p-Xylene	ND		0.111	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Naphthalene	ND		0.0557	0.0379	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
o-Xylene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
Toluene	ND		0.0557	0.0111	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
C5-C8 Aliphatics (unadjusted)	ND		0.278	0.143	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
C9-C10 Aromatics	ND		0.278	0.0390	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1
C9-C12 Aliphatics (unadjusted)	ND		0.278	0.119	mg/Kg	☼	03/03/23 07:25	03/04/23 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:56*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 13:56*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0210	0.0151	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1221	ND		0.0210	0.00619	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1232	ND		0.0210	0.00580	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0210	0.00331	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1248	ND		0.0210	0.00655	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1254	**0.0217**		0.0210	0.0163	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1262	ND		0.0210	0.00488	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1260	ND		0.0210	0.00451	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1
PCB-1268	ND		0.0210	0.00446	mg/Kg	☼	03/02/23 13:19	03/04/23 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:15*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoroheptanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorononanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorodecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorotridecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorotetradecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorobutanesulfonic acid	ND		2.03	0.406	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorohexanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NEtFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NMeFOSAA	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
10:2 FTS	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoropentanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoroheptanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorononanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorodecanesulfonic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctanesulfonamide	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorohexadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorooctadecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorobutanoic acid	ND		2.03	0.813	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoropentanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NMeFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NMeFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NEtFOSE	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
NEtFOSA	ND		2.03	0.508	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
HFPODA	ND		2.03	1.02	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
DONA	ND		3.05	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
9Cl-PF3ONS	ND		2.03	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
11Cl-PF3OUdS	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluorododecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
Perfluoroundecanoic acid	ND		0.609	0.203	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.03	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.05	0.609	ug/Kg	☼	03/03/23 07:13	03/16/23 02:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*28*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
M2-8:2 FTS	*35*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
M2-6:2 FTS	*30*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C5 PFHxA	*44*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C4 PFHpA	*43*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C8 PFOA	*43*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C9 PFNA	*42*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C6 PFDA	*42*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C7 PFUnA	*46*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C2-PFDoDA	*41*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C2 PFTeDA	*47*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C3 PFBS	*71*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C3 PFHxS	*76*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C8 PFOS	*74*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d3-NMeFOSAA	*1*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d5-NEtFOSAA	*2*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C4 PFBA	*38*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C5 PFPeA	*37*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d3-NMePFOSA	*99*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d9-N-EtFOSE-M	*116*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
d5-NEtPFOSA	*102*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:41*	*1*
13C3 HFPO-DA	*53*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:41*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoroheptanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorononanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorodecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorotridecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorotetradecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorobutanesulfonic acid	ND		2.05	0.410	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorohexanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NEtFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NMeFOSAA	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
10:2 FTS	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoropentanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoroheptanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorononanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorodecanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctanesulfonamide	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1

Client Sample ID: 2023-FD-04 **Lab Sample ID: 620-10051-34**
Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorooctadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorobutanoic acid	ND		2.05	0.821	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoropentanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NMeFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NMeFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NEtFOSE	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
NEtFOSA	ND		2.05	0.513	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
HFPODA	ND		2.05	1.03	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
DONA	ND		3.08	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
9Cl-PF3ONS	ND		2.05	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
11Cl-PF3OUdS	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluorododecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
4:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
Perfluoroundecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
6:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.615	ug/Kg	☼	03/20/23 00:33	03/21/23 05:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*32*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
M2-8:2 FTS	*46*		*15 - 200*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
M2-6:2 FTS	*38*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C5 PFHxA	*53*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C4 PFHpA	*55*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C8 PFOA	*53*		*26 - 159*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C9 PFNA	*47*		*26 - 165*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C6 PFDA	*52*		*26 - 161*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C7 PFUnA	*52*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C2-PFDoDA	*53*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C2 PFTeDA	*57*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C3 PFBS	*88*		*27 - 179*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C8 PFOS	*89*		*41 - 154*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d5-NEtFOSAA	*3*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C8 FOSA	*109*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C4 PFBA	*46*		*28 - 153*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C5 PFPeA	*44*		*24 - 161*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d7-N-MeFOSE-M	*93*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d3-NMePFOSA	*56*		*10 - 175*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
d5-NEtPFOSA	*60*		*10 - 180*	*03/20/23 00:33*	*03/21/23 05:14*	*1*
13C3 HFPO-DA	*57*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.98	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Arsenic	**4.86**		2.99	1.40	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Barium	**10.9**		0.498	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Beryllium	**0.187**	**J**	0.498	0.0997	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-FD-04

Date Collected: 03/01/23 08:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-34

Matrix: Solid
Percent Solids: 94.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.498	0.0997	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Chromium	**4.44**		1.49	0.349	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Lead	**2.32**		1.49	0.598	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Nickel	**1.87**		0.997	0.259	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Selenium	ND		4.98	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Silver	ND	^3+	0.997	0.399	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Thallium	ND		2.99	1.30	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Vanadium	**6.79**		0.997	0.429	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1
Zinc	**8.56**		1.99	0.797	mg/Kg	☼	03/08/23 00:33	03/10/23 05:07	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0634	0.0211	mg/Kg	☼	03/07/23 20:58	03/08/23 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.3**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**94.7**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0406'
Date Collected: 03/01/23 13:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-35
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00503	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Acetone	ND		0.0503	0.0113	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Acrylonitrile	ND		0.00503	0.00302	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Benzene	ND		0.00503	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromobenzene	ND		0.00503	0.00335	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromochloromethane	ND		0.00503	0.00286	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromodichloromethane	ND		0.00503	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromoform	ND		0.00503	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Bromomethane	ND		0.0101	0.00626	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2-Butanone (MEK)	ND		0.0101	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
n-Butylbenzene	ND		0.0101	0.00539	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
sec-Butylbenzene	ND		0.00503	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
tert-Butylbenzene	ND		0.00503	0.00396	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Carbon disulfide	ND		0.0101	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Carbon tetrachloride	ND		0.00503	0.00317	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chlorobenzene	ND		0.00503	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chloroethane	ND		0.0101	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chloroform	ND		0.00503	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Chloromethane	ND		0.0101	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2-Chlorotoluene	ND		0.00503	0.00400	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
4-Chlorotoluene	ND		0.00503	0.00436	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Dibromochloromethane	ND		0.00503	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dibromoethane (EDB)	ND		0.00503	0.00361	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Dibromomethane	ND		0.00503	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dichlorobenzene	ND		0.00503	0.00467	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3-Dichlorobenzene	ND		0.00503	0.00403	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,4-Dichlorobenzene	ND		0.00503	0.00477	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Dichlorodifluoromethane (Freon 12)	ND		0.0101	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1-Dichloroethane	ND		0.00503	0.00341	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dichloroethane	ND		0.00503	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1-Dichloroethene	ND		0.00503	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
cis-1,2-Dichloroethene	ND		0.00503	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
trans-1,2-Dichloroethene	ND		0.00503	0.00313	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2-Dichloropropane	ND		0.00503	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3-Dichloropropane	ND		0.00503	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2,2-Dichloropropane	ND		0.00503	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1-Dichloropropene	ND		0.00503	0.00342	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
cis-1,3-Dichloropropene	ND		0.00503	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
trans-1,3-Dichloropropene	ND		0.00503	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethylbenzene	ND		0.00503	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Hexachlorobutadiene	ND		0.0101	0.00506	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
2-Hexanone (MBK)	ND		0.0101	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Isopropylbenzene	ND		0.00503	0.00380	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
4-Isopropyltoluene	ND		0.00503	0.00494	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Methyl tert-butyl ether	ND		0.00503	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Methylene Chloride	ND		0.0101	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Naphthalene	ND		0.00503	0.00455	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00503	0.00425	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Styrene	ND		0.00503	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,1,2-Tetrachloroethane	ND		0.00503	0.00377	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,2,2-Tetrachloroethane	ND		0.00503	0.00461	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Tetrachloroethene	ND		0.00503	0.00280	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Toluene	ND		0.00503	0.00319	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,3-Trichlorobenzene	ND		0.00503	0.00424	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,4-Trichlorobenzene	ND		0.00503	0.00464	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3,5-Trichlorobenzene	ND		0.00503	0.00478	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,1-Trichloroethane	ND		0.00503	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,1,2-Trichloroethane	ND		0.00503	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Trichloroethene	ND		0.00503	0.00338	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Trichlorofluoromethane (Freon 11)	ND		0.00503	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,3-Trichloropropane	ND		0.00503	0.00446	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,2,4-Trimethylbenzene	ND		0.00503	0.00425	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3,5-Trimethylbenzene	ND		0.00503	0.00427	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Vinyl chloride	ND		0.00503	0.00307	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
m,p-Xylene	ND		0.00503	0.00687	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
o-Xylene	ND		0.00503	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Tetrahydrofuran	ND		0.0101	0.00254	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethyl ether	ND		0.00503	0.00264	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Tert-amyl methyl ether	ND		0.00503	0.00397	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethyl tert-butyl ether	ND		0.00503	0.00331	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
di-Isopropyl ether	ND		0.00503	0.00359	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
tert-Butanol	ND		0.101	0.0269	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,4-Dioxane	ND		0.101	0.0313	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
trans-1,4-Dichloro-2-butene	ND		0.0251	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Ethanol	ND		1.01	0.0623	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
1,3-Dichloropropene, Total	ND		0.00503	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1
Xylenes, Total	ND		0.0151	0.00503	mg/Kg	☼	03/03/23 10:32	03/03/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 20:37*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.350	0.0623	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,2,4-Trichlorobenzene	ND		0.350	0.0803	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,2-Dichlorobenzene	ND		0.350	0.0675	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,3-Dichlorobenzene	ND		0.350	0.0848	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1,4-Dichlorobenzene	ND		0.350	0.0825	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
1-Methylnaphthalene	ND		0.0708	0.0594	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4,5-Trichlorophenol	ND		0.350	0.0401	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4,6-Trichlorophenol	ND		0.177	0.0433	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4-Dichlorophenol	ND		0.177	0.0706	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4-Dimethylphenol	ND		0.350	0.0514	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,4-Dinitrophenol	ND		0.350	0.0921	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0406'
Date Collected: 03/01/23 13:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-35
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2,6-Dinitrotoluene	ND		0.177	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Chloronaphthalene	ND		0.350	0.0810	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Chlorophenol	ND		0.177	0.0725	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Methylnaphthalene	ND		0.0708	0.0523	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Methylphenol	ND		0.350	0.0512	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Nitroaniline	ND		0.350	0.0333	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
2-Nitrophenol	ND		0.177	0.0629	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
3 & 4 Methylphenol	ND		0.350	0.0663	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
3,3'-Dichlorobenzidine	ND		0.350	0.0579	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
3-Nitroaniline	ND		0.350	0.0313	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4,6-Dinitro-2-methylphenol	ND		0.350	0.0629	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Bromophenyl phenyl ether	ND		0.350	0.0396	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Chloro-3-methylphenol	ND		0.350	0.0686	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Chloroaniline	ND		0.177	0.0269	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Chlorophenyl phenyl ether	ND		0.350	0.0375	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Nitroaniline	ND		0.177	0.0559	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
4-Nitrophenol	ND		0.350	0.122	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Acenaphthene	ND		0.0708	0.0565	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Acenaphthylene	ND		0.0708	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Acetophenone	ND		0.177	0.0432	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Aniline	ND		0.350	0.0269	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Anthracene	ND		0.0708	0.0410	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Azobenzene/Diphenyldiazene	ND		0.350	0.0598	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzidine	ND	*1	0.701	0.104	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[a]anthracene	ND		0.0708	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[a]pyrene	ND		0.0708	0.0506	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[b]fluoranthene	ND		0.0708	0.0587	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[g,h,i]perylene	ND		0.0708	0.0553	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzo[k]fluoranthene	ND		0.0708	0.0551	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzoic acid	ND		0.350	0.241	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Benzyl alcohol	ND		0.350	0.0635	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Bis(2-chloroethoxy)methane	ND		0.350	0.0609	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Bis(2-chloroethyl)ether	ND		0.177	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
bis (2-chloroisopropyl) ether	ND		0.177	0.0789	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Bis(2-ethylhexyl) phthalate	ND		0.177	0.0451	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Butyl benzyl phthalate	ND		0.350	0.0351	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Carbazole	ND		0.177	0.0464	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Chrysene	ND		0.0708	0.0400	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Dibenz(a,h)anthracene	ND		0.0708	0.0540	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Dibenzofuran	ND		0.177	0.0614	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Diethyl phthalate	ND		0.350	0.0384	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Dimethyl phthalate	ND		0.350	0.0456	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Di-n-butyl phthalate	ND		0.350	0.0375	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Di-n-octyl phthalate	ND		0.350	0.0579	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Fluoranthene	ND		0.0708	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Fluorene	ND		0.0708	0.0646	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Hexachlorobenzene	ND		0.177	0.0491	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Hexachlorobutadiene	ND		0.177	0.0884	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.177	0.0677	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Hexachloroethane	ND		0.177	0.0696	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0708	0.0601	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Isophorone	ND		0.177	0.0485	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Naphthalene	ND		0.0708	0.0679	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Nitrobenzene	ND		0.177	0.0818	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
N-Nitrosodimethylamine	ND		0.177	0.0465	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
N-Nitrosodi-n-propylamine	ND		0.177	0.0706	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
N-Nitrosodiphenylamine	ND		0.350	0.0447	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pentachloronitrobenzene	ND		0.350	0.0553	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pentachlorophenol	ND		0.350	0.143	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Phenanthrene	ND		0.0708	0.0401	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Phenol	ND		0.350	0.0722	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pyrene	ND		0.0708	0.0391	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1
Pyridine	ND		0.350	0.0829	mg/Kg	☼	03/09/23 11:00	03/10/23 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
2-Fluorophenol (Surr)	*97*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/09/23 11:00*	*03/10/23 16:44*	*1*
Terphenyl-d14	*84*		*30 - 130*	*03/09/23 11:00*	*03/10/23 16:44*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.262	0.134	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.262	0.112	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Ethylbenzene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Methyl tert-butyl ether	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
m,p-Xylene	ND		0.105	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Naphthalene	ND		0.0524	0.0356	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
o-Xylene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
Toluene	ND		0.0524	0.0105	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
C5-C8 Aliphatics (unadjusted)	ND		0.262	0.134	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
C9-C10 Aromatics	ND		0.262	0.0367	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1
C9-C12 Aliphatics (unadjusted)	ND		0.262	0.112	mg/Kg	☼	03/03/23 07:25	03/04/23 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 14:35*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 14:35*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0212	0.0153	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1221	ND		0.0212	0.00626	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1232	ND		0.0212	0.00587	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0212	0.00335	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1248	ND		0.0212	0.00662	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1254	**0.0182**	**J**	0.0212	0.0165	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1262	ND		0.0212	0.00494	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1260	ND		0.0212	0.00456	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1
PCB-1268	ND		0.0212	0.00451	mg/Kg	☼	03/02/23 13:19	03/04/23 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:34*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoroheptanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorononanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorodecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorotridecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorotetradecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorobutanesulfonic acid	ND		1.97	0.394	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorohexanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NEtFOSAA	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NMeFOSAA	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
10:2 FTS	ND		1.97	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoropentanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoroheptanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorononanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorodecanesulfonic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctanesulfonamide	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorohexadecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorooctadecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorobutanoic acid	ND		1.97	0.787	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoropentanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NMeFOSE	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NMeFOSA	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NEtFOSE	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
NEtFOSA	ND		1.97	0.492	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
HFPODA	ND		1.97	0.984	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
DONA	ND		2.95	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
9Cl-PF3ONS	ND		1.97	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
11Cl-PF3OUdS	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluorododecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
4:2 Fluorotelomer sulfonic acid	ND		1.97	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
Perfluoroundecanoic acid	ND		0.590	0.197	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.97	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1
8:2 Fluorotelomer sulfonic acid	ND		2.95	0.590	ug/Kg	☼	03/03/23 07:13	03/16/23 02:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*30*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
M2-6:2 FTS	*34*		*10 - 200*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C5 PFHxA	*35*		*10 - 174*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C4 PFHpA	*36*		*10 - 178*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C8 PFOA	*36*		*26 - 159*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C9 PFNA	*39*		*26 - 165*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C6 PFDA	*36*		*26 - 161*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C7 PFUnA	*35*		*12 - 173*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C2-PFDoDA	*34*		*11 - 166*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C2 PFTeDA	*40*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C3 PFBS	*51*		*27 - 179*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C3 PFHxS	*55*		*24 - 171*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C8 PFOS	*56*		*41 - 154*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 178*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 193*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C8 FOSA	*101*		*14 - 163*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C4 PFBA	*33*		*28 - 153*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C5 PFPeA	*32*		*24 - 161*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d9-N-EtFOSE-M	*96*		*10 - 185*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
d5-NEtPFOSA	*89*		*10 - 180*	*03/03/23 07:13*	*03/16/23 02:52*	*1*
13C3 HFPO-DA	*37*		*10 - 169*	*03/03/23 07:13*	*03/16/23 02:52*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoroheptanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorononanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorodecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorotridecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorotetradecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorobutanesulfonic acid	ND		1.95	0.390	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorohexanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NEtFOSAA	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NMeFOSAA	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
10:2 FTS	ND		1.95	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoropentanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoroheptanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorononanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorodecanesulfonic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctanesulfonamide	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1

Client Sample ID: 2023-SB-13-0406' **Lab Sample ID: 620-10051-35**
Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorooctadecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorobutanoic acid	ND		1.95	0.780	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoropentanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NMeFOSE	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NMeFOSA	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NEtFOSE	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
NEtFOSA	ND		1.95	0.488	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
HFPODA	ND		1.95	0.975	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
DONA	ND		2.93	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
9Cl-PF3ONS	ND		1.95	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
11Cl-PF3OUdS	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluorododecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
4:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
Perfluoroundecanoic acid	ND		0.585	0.195	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
6:2 Fluorotelomer sulfonic acid	ND		1.95	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1
8:2 Fluorotelomer sulfonic acid	ND		2.93	0.585	ug/Kg	☼	03/20/23 00:33	03/21/23 05:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*34*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
M2-8:2 FTS	*39*		*15 - 200*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
M2-6:2 FTS	*37*		*10 - 200*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C5 PFHxA	*37*		*10 - 174*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C4 PFHpA	*42*		*10 - 178*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C8 PFOA	*39*		*26 - 159*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C9 PFNA	*35*		*26 - 165*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C6 PFDA	*38*		*26 - 161*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C7 PFUnA	*39*		*12 - 173*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C2-PFDoDA	*38*		*11 - 166*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C2 PFTeDA	*37*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C3 PFBS	*60*		*27 - 179*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C3 PFHxS	*71*		*24 - 171*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C8 PFOS	*60*		*41 - 154*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d3-NMeFOSAA	*2*	**5-*	*10 - 178*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d5-NEtFOSAA	*4*	**5-*	*10 - 193*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C8 FOSA	*124*		*14 - 163*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C4 PFBA	*34*		*28 - 153*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C5 PFPeA	*32*		*24 - 161*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d7-N-MeFOSE-M	*108*		*10 - 179*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d9-N-EtFOSE-M	*111*		*10 - 185*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
d5-NEtPFOSA	*91*		*10 - 180*	*03/20/23 00:33*	*03/21/23 05:25*	*1*
13C3 HFPO-DA	*48*		*10 - 169*	*03/20/23 00:33*	*03/21/23 05:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.97	1.69	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Arsenic	**2.32**	**J**	2.98	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Barium	**16.8**		0.497	0.149	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Beryllium	**0.308**	**J**	0.497	0.0993	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0406'
Lab Sample ID: 620-10051-35
Date Collected: 03/01/23 13:00
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 93.2

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.497	0.0993	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Chromium	**7.20**		1.49	0.348	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Lead	**3.12**		1.49	0.596	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Nickel	**2.49**		0.993	0.258	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Selenium	ND		4.97	1.49	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Silver	ND	^3+	0.993	0.397	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Thallium	ND		2.98	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Vanadium	**8.57**		0.993	0.427	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1
Zinc	**10.1**		1.99	0.794	mg/Kg	☼	03/08/23 00:33	03/10/23 04:09	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0633	0.0211	mg/Kg	☼	03/07/23 20:58	03/08/23 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.8**		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	**93.2**		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0608'
Date Collected: 03/01/23 13:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-36
Matrix: Solid
Percent Solids: 96.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00483	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Acetone	ND		0.0483	0.0108	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Acrylonitrile	ND		0.00483	0.00290	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Benzene	ND		0.00483	0.00323	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromobenzene	ND		0.00483	0.00322	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromochloromethane	ND		0.00483	0.00274	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromodichloromethane	ND		0.00483	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromoform	ND		0.00483	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Bromomethane	ND		0.00966	0.00602	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2-Butanone (MEK)	ND		0.00966	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
n-Butylbenzene	ND		0.00966	0.00518	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
sec-Butylbenzene	ND		0.00483	0.00389	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
tert-Butylbenzene	ND		0.00483	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Carbon disulfide	ND		0.00966	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Carbon tetrachloride	ND		0.00483	0.00304	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chlorobenzene	ND		0.00483	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chloroethane	ND		0.00966	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chloroform	ND		0.00483	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Chloromethane	ND		0.00966	0.00371	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2-Chlorotoluene	ND		0.00483	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
4-Chlorotoluene	ND		0.00483	0.00419	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dibromo-3-Chloropropane	ND		0.00966	0.00410	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Dibromochloromethane	ND		0.00483	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dibromoethane (EDB)	ND		0.00483	0.00347	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Dibromomethane	ND		0.00483	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dichlorobenzene	ND		0.00483	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3-Dichlorobenzene	ND		0.00483	0.00387	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,4-Dichlorobenzene	ND		0.00483	0.00458	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Dichlorodifluoromethane (Freon 12)	ND		0.00966	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1-Dichloroethane	ND		0.00483	0.00327	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dichloroethane	ND		0.00483	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1-Dichloroethene	ND		0.00483	0.00296	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
cis-1,2-Dichloroethene	ND		0.00483	0.00279	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
trans-1,2-Dichloroethene	ND		0.00483	0.00300	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2-Dichloropropane	ND		0.00483	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3-Dichloropropane	ND		0.00483	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2,2-Dichloropropane	ND		0.00483	0.00333	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1-Dichloropropene	ND		0.00483	0.00328	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
cis-1,3-Dichloropropene	ND		0.00483	0.00315	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
trans-1,3-Dichloropropene	ND		0.00483	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethylbenzene	ND		0.00483	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Hexachlorobutadiene	ND		0.00966	0.00486	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
2-Hexanone (MBK)	ND		0.00966	0.00284	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Isopropylbenzene	ND		0.00483	0.00365	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
4-Isopropyltoluene	ND		0.00483	0.00474	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Methyl tert-butyl ether	ND		0.00483	0.00278	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.00966	0.00312	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Methylene Chloride	ND		0.00966	0.00259	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Naphthalene	ND		0.00483	0.00437	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Styrene	ND		0.00483	0.00374	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,1,2-Tetrachloroethane	ND		0.00483	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,2,2-Tetrachloroethane	ND		0.00483	0.00442	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Tetrachloroethene	ND		0.00483	0.00269	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Toluene	ND		0.00483	0.00306	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,3-Trichlorobenzene	ND		0.00483	0.00408	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,4-Trichlorobenzene	ND		0.00483	0.00445	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3,5-Trichlorobenzene	ND		0.00483	0.00459	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,1-Trichloroethane	ND		0.00483	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,1,2-Trichloroethane	ND		0.00483	0.00364	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Trichloroethene	ND		0.00483	0.00325	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Trichlorofluoromethane (Freon 11)	ND		0.00483	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,3-Trichloropropane	ND		0.00483	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,2,4-Trimethylbenzene	ND		0.00483	0.00409	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3,5-Trimethylbenzene	ND		0.00483	0.00411	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Vinyl chloride	ND		0.00483	0.00295	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
m,p-Xylene	ND		0.00483	0.00660	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
o-Xylene	ND		0.00483	0.00353	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Tetrahydrofuran	ND		0.00966	0.00244	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethyl ether	ND		0.00483	0.00254	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Tert-amyl methyl ether	ND		0.00483	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethyl tert-butyl ether	ND		0.00483	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
di-Isopropyl ether	ND		0.00483	0.00345	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
tert-Butanol	ND		0.0966	0.0259	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,4-Dioxane	ND		0.0966	0.0300	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
trans-1,4-Dichloro-2-butene	ND		0.0241	0.00356	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Ethanol	ND		0.966	0.0599	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
1,3-Dichloropropene, Total	ND		0.00483	0.00367	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1
Xylenes, Total	ND		0.0145	0.00483	mg/Kg	☼	03/03/23 10:32	03/03/23 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:03*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.667	0.119	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,2,4-Trichlorobenzene	ND		0.667	0.153	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,2-Dichlorobenzene	ND		0.667	0.129	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,3-Dichlorobenzene	ND		0.667	0.161	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1,4-Dichlorobenzene	ND		0.667	0.157	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
1-Methylnaphthalene	ND		0.135	0.113	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4,5-Trichlorophenol	ND		0.667	0.0764	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4,6-Trichlorophenol	ND		0.338	0.0825	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4-Dichlorophenol	ND		0.338	0.134	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4-Dimethylphenol	ND		0.667	0.0978	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,4-Dinitrophenol	ND		0.667	0.175	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0608'
Date Collected: 03/01/23 13:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-36
Matrix: Solid
Percent Solids: 96.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.338	0.0790	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2,6-Dinitrotoluene	ND		0.338	0.0790	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Chloronaphthalene	ND		0.667	0.154	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Chlorophenol	ND		0.338	0.138	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Methylnaphthalene	ND		0.135	0.0996	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Methylphenol	ND		0.667	0.0974	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Nitroaniline	ND		0.667	0.0635	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
2-Nitrophenol	ND		0.338	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
3 & 4 Methylphenol	ND		0.667	0.126	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
3,3'-Dichlorobenzidine	ND		0.667	0.110	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
3-Nitroaniline	ND		0.667	0.0596	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4,6-Dinitro-2-methylphenol	ND		0.667	0.120	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Bromophenyl phenyl ether	ND		0.667	0.0754	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Chloro-3-methylphenol	ND		0.667	0.131	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Chloroaniline	ND		0.338	0.0511	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Chlorophenyl phenyl ether	ND		0.667	0.0713	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Nitroaniline	ND		0.338	0.107	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
4-Nitrophenol	ND		0.667	0.232	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Acenaphthene	ND		0.135	0.108	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Acenaphthylene	ND		0.135	0.0885	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Acetophenone	ND		0.338	0.0823	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Aniline	ND		0.667	0.0511	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Anthracene	ND		0.135	0.0780	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Azobenzene/Diphenyldiazene	ND		0.667	0.114	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzidine	ND	*1	1.33	0.197	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[a]anthracene	ND		0.135	0.0758	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[a]pyrene	ND		0.135	0.0964	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[b]fluoranthene	ND		0.135	0.112	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[g,h,i]perylene	ND		0.135	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzo[k]fluoranthene	ND		0.135	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzoic acid	ND		0.667	0.459	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Benzyl alcohol	ND		0.667	0.121	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Bis(2-chloroethoxy)methane	ND		0.667	0.116	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Bis(2-chloroethyl)ether	ND		0.338	0.110	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
bis (2-chloroisopropyl) ether	ND		0.338	0.150	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Bis(2-ethylhexyl) phthalate	**0.315**	**J**	0.338	0.0859	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Butyl benzyl phthalate	ND		0.667	0.0669	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Carbazole	ND		0.338	0.0883	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Chrysene	ND		0.135	0.0762	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Dibenz(a,h)anthracene	ND		0.135	0.103	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Dibenzofuran	ND		0.338	0.117	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Diethyl phthalate	ND		0.667	0.0732	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Dimethyl phthalate	ND		0.667	0.0869	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Di-n-butyl phthalate	ND		0.667	0.0713	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Di-n-octyl phthalate	ND		0.667	0.110	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Fluoranthene	ND		0.135	0.0790	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Fluorene	ND		0.135	0.123	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Hexachlorobenzene	ND		0.338	0.0936	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Hexachlorobutadiene	ND		0.338	0.168	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.338	0.129	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Hexachloroethane	ND		0.338	0.133	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Indeno[1,2,3-cd]pyrene	ND		0.135	0.114	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Isophorone	ND		0.338	0.0924	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Naphthalene	ND		0.135	0.129	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Nitrobenzene	ND		0.338	0.156	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
N-Nitrosodimethylamine	ND		0.338	0.0885	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
N-Nitrosodi-n-propylamine	ND		0.338	0.134	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
N-Nitrosodiphenylamine	ND		0.667	0.0851	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pentachloronitrobenzene	ND		0.667	0.105	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pentachlorophenol	ND		0.667	0.273	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Phenanthrene	ND		0.135	0.0764	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Phenol	ND		0.667	0.137	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pyrene	ND		0.135	0.0744	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1
Pyridine	ND		0.667	0.158	mg/Kg	☼	03/09/23 11:00	03/13/23 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
Phenol-d5 (Surr)	*71*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/13/23 22:51*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/09/23 11:00*	*03/13/23 22:51*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.273	0.140	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.273	0.117	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Ethylbenzene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Methyl tert-butyl ether	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
m,p-Xylene	ND		0.109	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Naphthalene	ND		0.0545	0.0371	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
o-Xylene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
Toluene	ND		0.0545	0.0109	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
C5-C8 Aliphatics (unadjusted)	ND		0.273	0.140	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
C9-C10 Aromatics	ND		0.273	0.0382	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1
C9-C12 Aliphatics (unadjusted)	ND		0.273	0.117	mg/Kg	☼	03/03/23 07:25	03/04/23 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/03/23 07:25*	*03/04/23 15:54*	*1*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/03/23 07:25*	*03/04/23 15:54*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0203	0.0146	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1221	ND		0.0203	0.00598	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1232	ND		0.0203	0.00561	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0203	0.00320	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1248	ND		0.0203	0.00633	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1254	**0.141**		0.0203	0.0158	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1262	ND		0.0203	0.00472	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1260	ND		0.0203	0.00435	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1
PCB-1268	ND		0.0203	0.00431	mg/Kg	☼	03/02/23 13:19	03/04/23 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*
Tetrachloro-m-xylene	*77*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/02/23 13:19*	*03/04/23 02:53*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoroheptanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorononanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorodecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorotridecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorotetradecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorobutanesulfonic acid	ND		1.90	0.380	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorohexanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NEtFOSAA	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NMeFOSAA	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
10:2 FTS	ND		1.90	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoropentanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoroheptanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorononanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorodecanesulfonic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctanesulfonamide	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorohexadecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorooctadecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorobutanoic acid	ND		1.90	0.759	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoropentanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NMeFOSE	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NMeFOSA	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NEtFOSE	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
NEtFOSA	ND		1.90	0.474	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
HFPODA	ND		1.90	0.949	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
DONA	ND		2.85	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
9Cl-PF3ONS	ND		1.90	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
11Cl-PF3OUdS	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluorododecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
4:2 Fluorotelomer sulfonic acid	ND		1.90	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
Perfluoroundecanoic acid	ND		0.569	0.190	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1

Client Sample ID: 2023-SB-13-0608' **Lab Sample ID: 620-10051-36**
Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		1.90	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1
8:2 Fluorotelomer sulfonic acid	ND		2.85	0.569	ug/Kg	☼	03/03/23 07:13	03/16/23 03:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*79*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
M2-8:2 FTS	*93*		*15 - 200*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
M2-6:2 FTS	*86*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C5 PFHxA	*88*		*10 - 174*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C4 PFHpA	*89*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C8 PFOA	*86*		*26 - 159*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C9 PFNA	*79*		*26 - 165*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C6 PFDA	*86*		*26 - 161*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C7 PFUnA	*90*		*12 - 173*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C2 PFTeDA	*91*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C3 PFBS	*103*		*27 - 179*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C3 PFHxS	*108*		*24 - 171*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d3-NMeFOSAA	*11*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C8 FOSA	*106*		*14 - 163*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C4 PFBA	*81*		*28 - 153*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C5 PFPeA	*83*		*24 - 161*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d7-N-MeFOSE-M	*104*		*10 - 179*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d3-NMePFOSA	*89*		*10 - 175*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d9-N-EtFOSE-M	*101*		*10 - 185*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
d5-NEtPFOSA	*92*		*10 - 180*	*03/03/23 07:13*	*03/16/23 03:03*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.70	1.60	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Arsenic	**5.16**		2.82	1.32	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Barium	**22.5**		0.470	0.141	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Beryllium	**0.304**	**J**	0.470	0.0940	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Cadmium	ND		0.470	0.0940	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Chromium	**6.88**		1.41	0.329	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Lead	**4.23**		1.41	0.564	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Nickel	**4.08**		0.940	0.244	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Selenium	ND		4.70	1.41	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Silver	ND	^3+	0.940	0.376	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Thallium	ND		2.82	1.22	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Vanadium	**10.1**		0.940	0.404	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1
Zinc	**13.8**		1.88	0.752	mg/Kg	☼	03/05/23 19:48	03/09/23 18:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0601	0.0200	mg/Kg	☼	03/06/23 22:34	03/07/23 18:42	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0608'
Date Collected: 03/01/23 13:05
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-36
Matrix: Solid
Percent Solids: 96.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	3.3		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	96.7		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0810'
Date Collected: 03/01/23 13:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-37
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00505	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Acetone	ND		0.0505	0.0113	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Acrylonitrile	ND		0.00505	0.00303	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Benzene	ND		0.00505	0.00337	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromobenzene	ND		0.00505	0.00336	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromochloromethane	ND		0.00505	0.00287	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromodichloromethane	ND		0.00505	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromoform	ND		0.00505	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Bromomethane	ND		0.0101	0.00629	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2-Butanone (MEK)	ND		0.0101	0.00402	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
n-Butylbenzene	ND		0.0101	0.00541	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
sec-Butylbenzene	ND		0.00505	0.00407	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
tert-Butylbenzene	ND		0.00505	0.00398	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Carbon disulfide	ND		0.0101	0.00354	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Carbon tetrachloride	ND		0.00505	0.00318	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chlorobenzene	ND		0.00505	0.00369	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chloroethane	ND		0.0101	0.00370	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chloroform	ND		0.00505	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Chloromethane	ND		0.0101	0.00388	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2-Chlorotoluene	ND		0.00505	0.00402	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
4-Chlorotoluene	ND		0.00505	0.00438	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00428	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Dibromochloromethane	ND		0.00505	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dibromoethane (EDB)	ND		0.00505	0.00362	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Dibromomethane	ND		0.00505	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dichlorobenzene	ND		0.00505	0.00468	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3-Dichlorobenzene	ND		0.00505	0.00405	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,4-Dichlorobenzene	ND		0.00505	0.00478	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Dichlorodifluoromethane (Freon 12)	ND		0.0101	0.00271	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1-Dichloroethane	ND		0.00505	0.00342	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dichloroethane	ND		0.00505	0.00340	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1-Dichloroethene	ND		0.00505	0.00309	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
cis-1,2-Dichloroethene	ND		0.00505	0.00292	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
trans-1,2-Dichloroethene	ND		0.00505	0.00314	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2-Dichloropropane	ND		0.00505	0.00334	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3-Dichloropropane	ND		0.00505	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2,2-Dichloropropane	ND		0.00505	0.00348	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1-Dichloropropene	ND		0.00505	0.00343	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
cis-1,3-Dichloropropene	ND		0.00505	0.00329	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
trans-1,3-Dichloropropene	ND		0.00505	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethylbenzene	ND		0.00505	0.00360	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Hexachlorobutadiene	ND		0.0101	0.00508	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Isopropylbenzene	ND		0.00505	0.00382	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
4-Isopropyltoluene	ND		0.00505	0.00496	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Methyl tert-butyl ether	ND		0.00505	0.00291	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00326	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Naphthalene	ND		0.00505	0.00456	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1

Client Sample ID: 2023-SB-13-0810' **Lab Sample ID: 620-10051-37**
Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Styrene	ND		0.00505	0.00391	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,1,2-Tetrachloroethane	ND		0.00505	0.00379	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,2,2-Tetrachloroethane	ND		0.00505	0.00462	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Tetrachloroethene	ND		0.00505	0.00281	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Toluene	ND		0.00505	0.00320	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,3-Trichlorobenzene	ND		0.00505	0.00426	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,4-Trichlorobenzene	ND		0.00505	0.00465	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3,5-Trichlorobenzene	ND		0.00505	0.00479	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,1-Trichloroethane	ND		0.00505	0.00344	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,1,2-Trichloroethane	ND		0.00505	0.00381	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Trichloroethene	ND		0.00505	0.00339	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Trichlorofluoromethane (Freon 11)	ND		0.00505	0.00386	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,3-Trichloropropane	ND		0.00505	0.00448	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,2,4-Trimethylbenzene	ND		0.00505	0.00427	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3,5-Trimethylbenzene	ND		0.00505	0.00429	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Vinyl chloride	ND		0.00505	0.00308	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
m,p-Xylene	ND		0.00505	0.00689	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
o-Xylene	ND		0.00505	0.00368	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Tetrahydrofuran	ND		0.0101	0.00255	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethyl ether	ND		0.00505	0.00265	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Tert-amyl methyl ether	ND		0.00505	0.00399	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethyl tert-butyl ether	ND		0.00505	0.00332	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
di-Isopropyl ether	ND		0.00505	0.00360	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,4-Dioxane	ND		0.101	0.0314	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
trans-1,4-Dichloro-2-butene	ND		0.0252	0.00372	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Ethanol	ND		1.01	0.0626	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
1,3-Dichloropropene, Total	ND		0.00505	0.00384	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1
Xylenes, Total	ND		0.0151	0.00505	mg/Kg	☼	03/03/23 10:32	03/03/23 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 21:29*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.347	0.0618	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,2,4-Trichlorobenzene	ND		0.347	0.0795	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,2-Dichlorobenzene	ND		0.347	0.0669	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,3-Dichlorobenzene	ND		0.347	0.0841	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1,4-Dichlorobenzene	ND		0.347	0.0817	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
1-Methylnaphthalene	ND		0.0702	0.0589	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4,5-Trichlorophenol	ND		0.347	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4,6-Trichlorophenol	ND		0.176	0.0429	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4-Dichlorophenol	ND		0.176	0.0700	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4-Dimethylphenol	ND		0.347	0.0509	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,4-Dinitrophenol	ND		0.347	0.0913	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0810'
Date Collected: 03/01/23 13:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-37
Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.176	0.0411	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2,6-Dinitrotoluene	ND		0.176	0.0411	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Chloronaphthalene	ND		0.347	0.0803	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Chlorophenol	ND		0.176	0.0719	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Methylnaphthalene	ND		0.0702	0.0519	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Methylphenol	ND		0.347	0.0507	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Nitroaniline	ND		0.347	0.0330	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
2-Nitrophenol	ND		0.176	0.0624	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
3 & 4 Methylphenol	ND		0.347	0.0658	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
3,3'-Dichlorobenzidine	ND		0.347	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
3-Nitroaniline	ND		0.347	0.0310	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4,6-Dinitro-2-methylphenol	ND		0.347	0.0624	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Bromophenyl phenyl ether	ND		0.347	0.0392	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Chloro-3-methylphenol	ND		0.347	0.0680	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Chloroaniline	ND		0.176	0.0266	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Chlorophenyl phenyl ether	ND		0.347	0.0371	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Nitroaniline	ND		0.176	0.0554	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
4-Nitrophenol	ND		0.347	0.121	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Acenaphthene	ND		0.0702	0.0560	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Acenaphthylene	ND		0.0702	0.0461	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Acetophenone	ND		0.176	0.0428	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Aniline	ND		0.347	0.0266	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Anthracene	ND		0.0702	0.0406	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Azobenzene/Diphenyldiazene	ND		0.347	0.0592	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzidine	ND	*1	0.694	0.103	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[a]anthracene	ND		0.0702	0.0395	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[a]pyrene	ND		0.0702	0.0502	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[b]fluoranthene	ND		0.0702	0.0582	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[g,h,i]perylene	ND		0.0702	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzo[k]fluoranthene	ND		0.0702	0.0546	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzoic acid	ND		0.347	0.239	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Benzyl alcohol	ND		0.347	0.0629	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Bis(2-chloroethoxy)methane	ND		0.347	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Bis(2-chloroethyl)ether	ND		0.176	0.0574	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
bis (2-chloroisopropyl) ether	ND		0.176	0.0782	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Bis(2-ethylhexyl) phthalate	ND		0.176	0.0447	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Butyl benzyl phthalate	ND		0.347	0.0348	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Carbazole	ND		0.176	0.0460	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Chrysene	ND		0.0702	0.0397	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Dibenz(a,h)anthracene	ND		0.0702	0.0536	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Dibenzofuran	ND		0.176	0.0608	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Diethyl phthalate	ND		0.347	0.0381	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Dimethyl phthalate	ND		0.347	0.0452	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Di-n-butyl phthalate	ND		0.347	0.0371	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Di-n-octyl phthalate	ND		0.347	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Fluoranthene	ND		0.0702	0.0411	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Fluorene	ND		0.0702	0.0641	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Hexachlorobenzene	ND		0.176	0.0487	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Hexachlorobutadiene	ND		0.176	0.0876	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1

Client Sample ID: 2023-SB-13-0810' **Lab Sample ID: 620-10051-37**
Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.176	0.0671	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Hexachloroethane	ND		0.176	0.0690	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Indeno[1,2,3-cd]pyrene	ND		0.0702	0.0595	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Isophorone	ND		0.176	0.0481	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Naphthalene	ND		0.0702	0.0673	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Nitrobenzene	ND		0.176	0.0811	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
N-Nitrosodimethylamine	ND		0.176	0.0461	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
N-Nitrosodi-n-propylamine	ND		0.176	0.0700	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
N-Nitrosodiphenylamine	ND		0.347	0.0443	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pentachloronitrobenzene	ND		0.347	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pentachlorophenol	ND		0.347	0.142	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Phenanthrene	ND		0.0702	0.0398	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Phenol	ND		0.347	0.0715	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pyrene	ND		0.0702	0.0387	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1
Pyridine	ND		0.347	0.0822	mg/Kg	☼	03/09/23 11:00	03/10/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:13*	*1*
Terphenyl-d14	*82*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:13*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.240	0.123	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.240	0.103	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Ethylbenzene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Methyl tert-butyl ether	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
m,p-Xylene	ND		0.0961	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Naphthalene	ND		0.0481	0.0327	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
o-Xylene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
Toluene	ND		0.0481	0.00961	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
C5-C8 Aliphatics (unadjusted)	ND		0.240	0.123	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
C9-C10 Aromatics	ND		0.240	0.0337	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1
C9-C12 Aliphatics (unadjusted)	ND		0.240	0.103	mg/Kg	☼	03/03/23 07:25	03/04/23 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*91*		*70 - 130*	*03/03/23 07:25*	*03/04/23 16:33*	*1*
a,a,a-Trifluorotoluene (fid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 16:33*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0148	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1221	ND		0.0205	0.00606	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1232	ND		0.0205	0.00568	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1

Client Sample ID: 2023-SB-13-0810'
Lab Sample ID: 620-10051-37
Date Collected: 03/01/23 13:10
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 94.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0205	0.00324	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1248	ND		0.0205	0.00641	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1254	ND		0.0205	0.0160	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1262	ND		0.0205	0.00478	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1260	ND		0.0205	0.00441	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1
PCB-1268	ND		0.0205	0.00437	mg/Kg	☼	03/02/23 13:19	03/04/23 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*
Tetrachloro-m-xylene	*55*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:12*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoroheptanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorononanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorodecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorotridecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorotetradecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorobutanesulfonic acid	ND		2.08	0.415	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorohexanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NEtFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NMeFOSAA	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
10:2 FTS	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoropentanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoroheptanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorononanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorodecanesulfonic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctanesulfonamide	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorohexadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorooctadecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorobutanoic acid	ND		2.08	0.831	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoropentanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NMeFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NMeFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NEtFOSE	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
NEtFOSA	ND		2.08	0.519	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
HFPODA	ND		2.08	1.04	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
DONA	ND		3.11	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
9Cl-PF3ONS	ND		2.08	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
11Cl-PF3OUdS	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluorododecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
4:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
Perfluoroundecanoic acid	ND		0.623	0.208	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1

Client Sample ID: 2023-SB-13-0810' **Lab Sample ID: 620-10051-37**
Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.08	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1
8:2 Fluorotelomer sulfonic acid	ND		3.11	0.623	ug/Kg	☼	03/03/23 07:13	03/16/23 03:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*61*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
M2-6:2 FTS	*70*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C5 PFHxA	*70*		*10 - 174*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C4 PFHpA	*72*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C8 PFOA	*70*		*26 - 159*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C9 PFNA	*77*		*26 - 165*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C6 PFDA	*69*		*26 - 161*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C7 PFUnA	*72*		*12 - 173*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C2-PFDoDA	*75*		*11 - 166*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C2 PFTeDA	*80*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C3 PFBS	*91*		*27 - 179*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C3 PFHxS	*90*		*24 - 171*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C8 PFOS	*94*		*41 - 154*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d5-NEtFOSAA	*15*		*10 - 193*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d7-N-MeFOSE-M	*107*		*10 - 179*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d3-NMePFOSA	*97*		*10 - 175*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d9-N-EtFOSE-M	*104*		*10 - 185*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
d5-NEtPFOSA	*100*		*10 - 180*	*03/03/23 07:13*	*03/16/23 03:14*	*1*
13C3 HFPO-DA	*70*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:14*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.95	1.68	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Arsenic	**2.75**	**J**	2.97	1.39	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Barium	**14.9**		0.495	0.148	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Beryllium	**0.238**	**J**	0.495	0.0990	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Cadmium	ND		0.495	0.0990	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Chromium	**5.80**		1.48	0.346	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Lead	**2.88**		1.48	0.594	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Nickel	**2.68**		0.990	0.257	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Selenium	ND		4.95	1.48	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Silver	ND	^3+	0.990	0.396	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Thallium	ND		2.97	1.29	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Vanadium	**8.38**		0.990	0.426	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1
Zinc	**11.8**		1.98	0.792	mg/Kg	☼	03/08/23 00:33	03/10/23 05:13	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0615	0.0205	mg/Kg	☼	03/07/23 20:58	03/08/23 12:46	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-0810'
Date Collected: 03/01/23 13:10
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-37
Matrix: Solid
Percent Solids: 94.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.6		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	94.4		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-1012'
Date Collected: 03/01/23 13:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-38
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00521	0.00340	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Acetone	ND		0.0521	0.0117	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Acrylonitrile	ND		0.00521	0.00313	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Benzene	ND		0.00521	0.00348	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromobenzene	ND		0.00521	0.00347	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromochloromethane	ND		0.00521	0.00296	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromodichloromethane	ND		0.00521	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromoform	ND		0.00521	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Bromomethane	ND		0.0104	0.00649	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2-Butanone (MEK)	ND		0.0104	0.00415	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
n-Butylbenzene	ND		0.0104	0.00559	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
sec-Butylbenzene	ND		0.00521	0.00420	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
tert-Butylbenzene	ND		0.00521	0.00411	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Carbon disulfide	ND		0.0104	0.00366	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Carbon tetrachloride	ND		0.00521	0.00328	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chlorobenzene	ND		0.00521	0.00382	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chloroethane	ND		0.0104	0.00383	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chloroform	ND		0.00521	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Chloromethane	ND		0.0104	0.00400	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2-Chlorotoluene	ND		0.00521	0.00415	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
4-Chlorotoluene	ND		0.00521	0.00452	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dibromo-3-Chloropropane	ND		0.0104	0.00442	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Dibromochloromethane	ND		0.00521	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dibromoethane (EDB)	ND		0.00521	0.00374	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Dibromomethane	ND		0.00521	0.00306	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dichlorobenzene	ND		0.00521	0.00484	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3-Dichlorobenzene	ND		0.00521	0.00418	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,4-Dichlorobenzene	ND		0.00521	0.00494	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Dichlorodifluoromethane (Freon 12)	ND		0.0104	0.00279	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1-Dichloroethane	ND		0.00521	0.00353	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dichloroethane	ND		0.00521	0.00351	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1-Dichloroethene	ND		0.00521	0.00319	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
cis-1,2-Dichloroethene	ND		0.00521	0.00301	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
trans-1,2-Dichloroethene	ND		0.00521	0.00324	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2-Dichloropropane	ND		0.00521	0.00345	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3-Dichloropropane	ND		0.00521	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2,2-Dichloropropane	ND		0.00521	0.00360	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1-Dichloropropene	ND		0.00521	0.00354	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
cis-1,3-Dichloropropene	ND		0.00521	0.00340	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
trans-1,3-Dichloropropene	ND		0.00521	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethylbenzene	ND		0.00521	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Hexachlorobutadiene	ND		0.0104	0.00524	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
2-Hexanone (MBK)	ND		0.0104	0.00306	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Isopropylbenzene	ND		0.00521	0.00394	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
4-Isopropyltoluene	ND		0.00521	0.00512	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Methyl tert-butyl ether	ND		0.00521	0.00300	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		0.0104	0.00337	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Methylene Chloride	ND		0.0104	0.00279	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Naphthalene	ND		0.00521	0.00471	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00521	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Styrene	ND		0.00521	0.00403	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,1,2-Tetrachloroethane	ND		0.00521	0.00391	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,2,2-Tetrachloroethane	ND		0.00521	0.00477	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Tetrachloroethene	ND		0.00521	0.00290	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Toluene	ND		0.00521	0.00330	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,3-Trichlorobenzene	ND		0.00521	0.00440	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,4-Trichlorobenzene	ND		0.00521	0.00481	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3,5-Trichlorobenzene	ND		0.00521	0.00495	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,1-Trichloroethane	ND		0.00521	0.00355	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,1,2-Trichloroethane	ND		0.00521	0.00393	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Trichloroethene	ND		0.00521	0.00350	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Trichlorofluoromethane (Freon 11)	ND		0.00521	0.00398	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,3-Trichloropropane	ND		0.00521	0.00463	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,2,4-Trimethylbenzene	ND		0.00521	0.00441	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3,5-Trimethylbenzene	ND		0.00521	0.00443	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Vinyl chloride	ND		0.00521	0.00318	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
m,p-Xylene	ND		0.00521	0.00712	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
o-Xylene	ND		0.00521	0.00381	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Tetrahydrofuran	ND		0.0104	0.00264	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethyl ether	ND		0.00521	0.00274	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Tert-amyl methyl ether	ND		0.00521	0.00412	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethyl tert-butyl ether	ND		0.00521	0.00343	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
di-Isopropyl ether	ND		0.00521	0.00372	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
tert-Butanol	ND		0.104	0.0279	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,4-Dioxane	ND		0.104	0.0324	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
trans-1,4-Dichloro-2-butene	ND		0.0261	0.00385	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Ethanol	ND		1.04	0.0646	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
1,3-Dichloropropene, Total	ND		0.00521	0.00396	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1
Xylenes, Total	ND		0.0156	0.00521	mg/Kg	☼	03/06/23 09:50	03/06/23 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/06/23 09:50*	*03/06/23 14:16*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.413	0.0736	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,2,4-Trichlorobenzene	ND		0.413	0.0947	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,2-Dichlorobenzene	ND		0.413	0.0797	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,3-Dichlorobenzene	ND		0.413	0.100	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1,4-Dichlorobenzene	ND		0.413	0.0974	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
1-Methylnaphthalene	ND		0.0836	0.0702	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4,5-Trichlorophenol	ND		0.413	0.0474	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4,6-Trichlorophenol	ND		0.209	0.0511	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4-Dichlorophenol	ND		0.209	0.0833	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4-Dimethylphenol	ND		0.413	0.0606	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,4-Dinitrophenol	ND		0.413	0.109	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-1012'
Date Collected: 03/01/23 13:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-38
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2,6-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Chloronaphthalene	ND		0.413	0.0956	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Chlorophenol	ND		0.209	0.0856	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Methylnaphthalene	ND		0.0836	0.0618	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Methylphenol	ND		0.413	0.0604	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Nitroaniline	ND		0.413	0.0393	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
2-Nitrophenol	ND		0.209	0.0743	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
3 & 4 Methylphenol	ND		0.413	0.0783	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
3,3'-Dichlorobenzidine	ND		0.413	0.0683	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
3-Nitroaniline	ND		0.413	0.0370	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4,6-Dinitro-2-methylphenol	ND		0.413	0.0743	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Bromophenyl phenyl ether	ND		0.413	0.0467	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Chloro-3-methylphenol	ND		0.413	0.0809	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Chloroaniline	ND		0.209	0.0317	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Chlorophenyl phenyl ether	ND		0.413	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Nitroaniline	ND		0.209	0.0660	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
4-Nitrophenol	ND		0.413	0.144	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Acenaphthene	ND		0.0836	0.0667	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Acenaphthylene	ND		0.0836	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Acetophenone	ND		0.209	0.0510	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Aniline	ND		0.413	0.0317	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Anthracene	ND		0.0836	0.0484	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Azobenzene/Diphenyldiazene	ND		0.413	0.0705	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzidine	ND	*1	0.827	0.122	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[a]anthracene	ND		0.0836	0.0470	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[a]pyrene	ND		0.0836	0.0598	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[b]fluoranthene	ND		0.0836	0.0693	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[g,h,i]perylene	ND		0.0836	0.0653	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzo[k]fluoranthene	ND		0.0836	0.0650	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzoic acid	ND		0.413	0.284	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Benzyl alcohol	ND		0.413	0.0749	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Bis(2-chloroethoxy)methane	ND		0.413	0.0719	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Bis(2-chloroethyl)ether	ND		0.209	0.0684	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
bis (2-chloroisopropyl) ether	ND		0.209	0.0931	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Bis(2-ethylhexyl) phthalate	ND		0.209	0.0533	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Butyl benzyl phthalate	ND		0.413	0.0415	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Carbazole	ND		0.209	0.0548	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Chrysene	ND		0.0836	0.0472	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Dibenz(a,h)anthracene	ND		0.0836	0.0638	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Dibenzofuran	ND		0.209	0.0724	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Diethyl phthalate	ND		0.413	0.0454	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Dimethyl phthalate	ND		0.413	0.0539	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Di-n-butyl phthalate	ND		0.413	0.0442	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Di-n-octyl phthalate	ND		0.413	0.0683	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Fluoranthene	ND		0.0836	0.0490	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Fluorene	ND		0.0836	0.0763	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Hexachlorobenzene	ND		0.209	0.0580	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Hexachlorobutadiene	ND		0.209	0.104	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.209	0.0799	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Hexachloroethane	ND		0.209	0.0822	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0836	0.0709	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Isophorone	ND		0.209	0.0573	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Naphthalene	ND		0.0836	0.0802	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Nitrobenzene	ND		0.209	0.0966	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
N-Nitrosodimethylamine	ND		0.209	0.0549	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
N-Nitrosodi-n-propylamine	ND		0.209	0.0833	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
N-Nitrosodiphenylamine	ND		0.413	0.0528	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pentachloronitrobenzene	ND		0.413	0.0653	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pentachlorophenol	ND		0.413	0.169	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Phenanthrene	ND		0.0836	0.0474	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Phenol	ND		0.413	0.0852	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pyrene	ND		0.0836	0.0461	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1
Pyridine	ND		0.413	0.0979	mg/Kg	☼	03/09/23 11:00	03/10/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
Phenol-d5 (Surr)	*84*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/09/23 11:00*	*03/10/23 17:42*	*1*
Terphenyl-d14	*88*		*30 - 130*	*03/09/23 11:00*	*03/10/23 17:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.254	0.130	mg/Kg			03/06/23 12:31	1
C9-C12 Aliphatics (adjusted)	ND		0.254	0.109	mg/Kg			03/06/23 12:31	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Ethylbenzene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Methyl tert-butyl ether	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Naphthalene	ND		0.0507	0.0345	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
o-Xylene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
Toluene	ND		0.0507	0.0101	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
C5-C8 Aliphatics (unadjusted)	ND		0.254	0.130	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
C9-C10 Aromatics	ND		0.254	0.0355	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1
C9-C12 Aliphatics (unadjusted)	ND		0.254	0.109	mg/Kg	☼	03/03/23 07:25	03/04/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*90*		*70 - 130*	*03/03/23 07:25*	*03/04/23 17:13*	*1*
a,a,a-Trifluorotoluene (fid)	*93*		*70 - 130*	*03/03/23 07:25*	*03/04/23 17:13*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0244	0.0176	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1221	ND		0.0244	0.00720	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1232	ND		0.0244	0.00675	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0244	0.00385	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1248	ND		0.0244	0.00762	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1254	ND		0.0244	0.0190	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1262	ND		0.0244	0.00568	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1260	ND		0.0244	0.00524	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1
PCB-1268	ND		0.0244	0.00519	mg/Kg	☼	03/02/23 13:19	03/04/23 03:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*
Tetrachloro-m-xylene	*84*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/02/23 13:19*	*03/04/23 03:31*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoroheptanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorononanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorodecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorotridecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorotetradecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorobutanesulfonic acid	ND		2.37	0.475	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorohexanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NEtFOSAA	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NMeFOSAA	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
10:2 FTS	ND		2.37	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoropentanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoroheptanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorononanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorodecanesulfonic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctanesulfonamide	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorohexadecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorooctadecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorobutanoic acid	ND		2.37	0.949	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoropentanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NMeFOSE	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NMeFOSA	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NEtFOSE	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
NEtFOSA	ND		2.37	0.593	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
HFPODA	ND		2.37	1.19	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
DONA	ND		3.56	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
9Cl-PF3ONS	ND		2.37	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
11Cl-PF3OUdS	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluorododecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
4:2 Fluorotelomer sulfonic acid	ND		2.37	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
Perfluoroundecanoic acid	ND		0.712	0.237	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1

Client Sample ID: 2023-SB-13-1012' **Lab Sample ID: 620-10051-38**
Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.37	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1
8:2 Fluorotelomer sulfonic acid	ND		3.56	0.712	ug/Kg	☼	03/03/23 07:13	03/16/23 03:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
M2-6:2 FTS	*85*		*10 - 200*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C5 PFHxA	*110*		*10 - 174*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C4 PFHpA	*109*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C8 PFOA	*110*		*26 - 159*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C9 PFNA	*106*		*26 - 165*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C7 PFUnA	*116*		*12 - 173*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C2-PFDoDA	*103*		*11 - 166*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C3 PFBS	*115*		*27 - 179*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C3 PFHxS	*114*		*24 - 171*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C8 PFOS	*111*		*41 - 154*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d3-NMeFOSAA	*36*		*10 - 178*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d5-NEtFOSAA	*41*		*10 - 193*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C8 FOSA	*108*		*14 - 163*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C4 PFBA	*107*		*28 - 153*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C5 PFPeA	*105*		*24 - 161*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d7-N-MeFOSE-M	*109*		*10 - 179*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d9-N-EtFOSE-M	*108*		*10 - 185*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
d5-NEtPFOSA	*103*		*10 - 180*	*03/03/23 07:13*	*03/16/23 03:25*	*1*
13C3 HFPO-DA	*113*		*10 - 169*	*03/03/23 07:13*	*03/16/23 03:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.28	1.45	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Arsenic	**10.1**		2.57	1.20	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Barium	**103**		0.428	0.128	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Beryllium	**1.44**		0.428	0.0856	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Cadmium	ND		0.428	0.0856	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Chromium	**29.1**		1.28	0.300	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Lead	**12.6**		1.28	0.513	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Nickel	**15.0**		0.856	0.223	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Selenium	ND		4.28	1.28	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Silver	ND	^3+	0.856	0.342	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Thallium	ND		25.7	11.1	mg/Kg	☼	03/08/23 00:33	03/10/23 05:51	10
Vanadium	**47.9**		0.856	0.368	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1
Zinc	**60.6**		1.71	0.685	mg/Kg	☼	03/08/23 00:33	03/10/23 05:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0742	0.0247	mg/Kg	☼	03/07/23 20:58	03/08/23 12:44	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-13-1012'
Date Collected: 03/01/23 13:15
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-38
Matrix: Solid
Percent Solids: 79.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.5		0.1	0.1	%			03/02/23 09:46	1
Percent Solids (EPA Moisture)	79.5		0.1	0.1	%			03/02/23 09:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-03

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Methylene Chloride	**0.00771**	**J**	0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 15:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: Trip Blank-03

Date Collected: 03/01/23 00:00
Date Received: 03/01/23 16:29

Lab Sample ID: 620-10051-39

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 15:05	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/03/23 10:32*	*03/03/23 15:05*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10051-1	2023-MW-01-0406'	101	103	100	103
620-10051-1 MS	2023-MW-01-0406'	105	103	102	104
620-10051-1 MSD	2023-MW-01-0406'	105	102	99	103
620-10051-2	2023-MW-01-0608'	102	101	98	100
620-10051-3	2023-MW-01-0810'	102	102	99	101
620-10051-4	2023-MW-01-1012'	101	101	96	99
620-10051-5	2023-MW-02-0002'	100	101	96	99
620-10051-6	2023-MW-02-0204'	102	102	100	101
620-10051-7	2023-MW-02-0406'	100	102	97	100
620-10051-8	2023-MW-02-0608'	100	101	96	100
620-10051-9	2023-MW-02-0810'	100	103	100	101
620-10051-10	2023-MW-02-1012'	102	102	103	102
620-10051-11	2023-SB-16-0002'	100	100	103	99
620-10051-12	2023-SB-16-0204'	99	101	100	99
620-10051-13	2023-SB-16-0406'	100	101	100	99
620-10051-14	2023-SB-16-0608'	100	100	98	98
620-10051-15	2023-SB-16-0810'	102	102	112	104
620-10051-16	2023-SB-16-1012'	99	101	100	99
620-10051-17	2023-SB-15-0002'	96	100	96	100
620-10051-17 MS	2023-SB-15-0002'	98	102	97	102
620-10051-17 MSD	2023-SB-15-0002'	101	100	92	101
620-10051-18	2023-SB-15-0204'	101	101	101	98
620-10051-19	2023-SB-15-0406'	99	100	100	99
620-10051-20	2023-SB-15-0608'	99	102	99	99
620-10051-21	2023-SB-15-0810'	97	101	96	98
620-10051-22	2023-SB-15-1012'	97	100	100	98
620-10051-23	2023-FD-03	98	101	98	99
620-10051-24	Trip Blank-01	99	101	98	99
620-10051-25	2023-SB-14-0002'	99	100	95	99
620-10051-26	2023-SB-14-0204'	99	100	97	97
620-10051-27	2023-SB-14-0406'	98	101	99	99
620-10051-28	2023-SB-14-0608'	99	100	98	98
620-10051-29	2023-SB-14-0810'	98	101	99	100
620-10051-30	2023-SB-14-1012'	98	100	95	98
620-10051-31	Trip Blank-02	97	100	97	100
620-10051-32	2023-SB-13-0002'	95	100	96	103
620-10051-33	2023-SB-13-0204'	96	100	98	99
620-10051-34	2023-FD-04	97	102	98	100
620-10051-35	2023-SB-13-0406'	98	101	98	99
620-10051-36	2023-SB-13-0608'	96	101	97	100
620-10051-37	2023-SB-13-0810'	98	100	96	98
620-10051-38	2023-SB-13-1012'	98	101	98	102
620-10051-39	Trip Blank-03	99	100	98	99
LCS 620-20238/1-A	Lab Control Sample	103	102	100	100
LCS 620-20252/1-A	Lab Control Sample	102	101	94	99
LCS 620-20295/1-A	Lab Control Sample	100	101	93	99
LCS 620-20322/1-A	Lab Control Sample	104	103	99	104
LCS 620-20327/1-A	Lab Control Sample	102	102	94	100
LCSD 620-20238/2-A	Lab Control Sample Dup	102	101	100	99

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
LCSD 620-20252/2-A	Lab Control Sample Dup	101	102	97	99
LCSD 620-20295/2-A	Lab Control Sample Dup	100	101	93	100
LCSD 620-20322/2-A	Lab Control Sample Dup	105	103	101	105
LCSD 620-20327/2-A	Lab Control Sample Dup	101	101	94	99
MB 620-20238/3-A	Method Blank	103	100	99	99
MB 620-20252/3-A	Method Blank	100	101	101	100
MB 620-20295/3-A	Method Blank	99	100	94	101
MB 620-20322/3-A	Method Blank	100	102	100	104
MB 620-20327/3-A	Method Blank	100	101	94	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10051-1	2023-MW-01-0406'	86	97	53	74	110	70
620-10051-1 MS	2023-MW-01-0406'	98	106	67	86	126 S1+	81
620-10051-1 MSD	2023-MW-01-0406'	97	102	66	86	120 S1+	77
620-10051-2	2023-MW-01-0608'	82	103	67	87	94	86
620-10051-3	2023-MW-01-0810'	77	103	61	79	87	77
620-10051-4	2023-MW-01-1012'	76	87	49	66	97	63
620-10051-5	2023-MW-02-0002'	78	83	53	67	96	72
620-10051-6	2023-MW-02-0204'	59	78	46	60	71	56
620-10051-7	2023-MW-02-0406'	62	84	48	65	79	62
620-10051-8	2023-MW-02-0608'	68	91	54	72	81	70
620-10051-9	2023-MW-02-0810'	71	100	56	78	82	71
620-10051-10	2023-MW-02-1012'	73	102	55	78	90	62
620-10051-11	2023-SB-16-0002'	90	100	62	75	110	83
620-10051-12	2023-SB-16-0204'	73	88	57	67	84	75
620-10051-13	2023-SB-16-0406'	75	93	48	70	95	70
620-10051-14	2023-SB-16-0608'	67	85	50	66	86	77
620-10051-15	2023-SB-16-0810'	82	106	68	84	88	76
620-10051-16	2023-SB-16-1012'	85	111 S1+	70	84	99	93
620-10051-17	2023-SB-15-0002'	80	89	54	69	100	73
620-10051-17 MS	2023-SB-15-0002'	82	87	58	73	106	73
620-10051-17 MSD	2023-SB-15-0002'	92	101	64	82	112 S1+	81
620-10051-18	2023-SB-15-0204'	75	91	60	70	90	78
620-10051-19	2023-SB-15-0406'	72	93	56	69	86	85
620-10051-20	2023-SB-15-0608'	65	79	52	60	78	72
620-10051-21	2023-SB-15-0810'	85	106	58	87	107	98
620-10051-22	2023-SB-15-1012'	86	105	66	89	108	102
620-10051-23	2023-FD-03	78	97	62	74	93	87
620-10051-25	2023-SB-14-0002'	81	104	66	80	103	95
620-10051-26	2023-SB-14-0204'	72	89	58	69	86	81

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10051-27	2023-SB-14-0406'	80	109	64	80	95	93
620-10051-28	2023-SB-14-0608'	76	103	57	82	90	82
620-10051-29	2023-SB-14-0810'	78	109	61	83	92	87
620-10051-30	2023-SB-14-1012'	76	109	46	82	90	83
620-10051-32	2023-SB-13-0002'	74	84	76	67	89	72
620-10051-32	2023-SB-13-0002'	81	97	81	81	83	77
620-10051-33	2023-SB-13-0204'	71	92	59	73	81	76
620-10051-34	2023-FD-04	73	99	61	78	88	83
620-10051-35	2023-SB-13-0406'	74	97	59	77	89	84
620-10051-36	2023-SB-13-0608'	72	90	70	71	78	75
620-10051-37	2023-SB-13-0810'	73	99	60	77	88	82
620-10051-38	2023-SB-13-1012'	78	104	67	84	78	88
LCS 620-20241/2-A	Lab Control Sample	81	91	60	76	93	74
LCS 620-20399/2-A	Lab Control Sample	76	90	58	77	103	87
LCSD 620-20241/3-A	Lab Control Sample Dup	77	88	59	74	86	67
LCSD 620-20399/3-A	Lab Control Sample Dup	75	88	59	79	95	74
MB 620-20241/1-A	Method Blank	62	76	49	61	60	74
MB 620-20399/1-A	Method Blank	78	102	66	80	80	90

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT-P2	TFT-F1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10051-1	2023-MW-01-0406'	98	99
620-10051-1 MS	2023-MW-01-0406'	99	100
620-10051-1 MSD	2023-MW-01-0406'	99	100
620-10051-2	2023-MW-01-0608'	98	99
620-10051-3	2023-MW-01-0810'	95	97
620-10051-4	2023-MW-01-1012'	99	102
620-10051-5	2023-MW-02-0002'	98	101
620-10051-6	2023-MW-02-0204'	100	103
620-10051-7	2023-MW-02-0406'	101	103
620-10051-8	2023-MW-02-0608'	98	102
620-10051-9	2023-MW-02-0810'	99	102
620-10051-10	2023-MW-02-1012'	97	100
620-10051-11	2023-SB-16-0002'	96	101
620-10051-12	2023-SB-16-0204'	94	99
620-10051-13	2023-SB-16-0406'	93	98
620-10051-14	2023-SB-16-0608'	97	101
620-10051-15	2023-SB-16-0810'	96	100
620-10051-16	2023-SB-16-1012'	92	98

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TFT-P2 (70-130)	TFT-F1 (70-130)								
620-10051-17	2023-SB-15-0002'	95	100								
620-10051-17 MS	2023-SB-15-0002'	95	99								
620-10051-17 MSD	2023-SB-15-0002'	93	97								
620-10051-18	2023-SB-15-0204'	93	98								
620-10051-19	2023-SB-15-0406'	92	97								
620-10051-20	2023-SB-15-0608'	93	98								
620-10051-21	2023-SB-15-0810'	93	97								
620-10051-22	2023-SB-15-1012'	92	96								
620-10051-23	2023-FD-03	93	97								
620-10051-25	2023-SB-14-0002'	93	95								
620-10051-26	2023-SB-14-0204'	92	94								
620-10051-27	2023-SB-14-0406'	93	95								
620-10051-28	2023-SB-14-0608'	94	96								
620-10051-29	2023-SB-14-0810'	93	96								
620-10051-30	2023-SB-14-1012'	93	95								
620-10051-32	2023-SB-13-0002'	92	96								
620-10051-33	2023-SB-13-0204'	92	95								
620-10051-34	2023-FD-04	93	95								
620-10051-35	2023-SB-13-0406'	92	95								
620-10051-36	2023-SB-13-0608'	92	95								
620-10051-37	2023-SB-13-0810'	91	93								
620-10051-38	2023-SB-13-1012'	90	93								
LCS 480-660379/2-A	Lab Control Sample	100	100								
LCS 480-660381/2-A	Lab Control Sample	96	100								
LCSD 480-660379/3-A	Lab Control Sample Dup	97	98								
LCSD 480-660381/3-A	Lab Control Sample Dup	94	98								
MB 480-660379/1-A	Method Blank	103	105								
MB 480-660381/1-A	Method Blank	104	111								

Surrogate Legend

TFT-P = a,a,a-Trifluorotoluene (pid)

TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)						
620-10051-1	2023-MW-01-0406'	65	67	101	98						
620-10051-1 MS	2023-MW-01-0406'	71	75	77	81						
620-10051-1 MSD	2023-MW-01-0406'	78	82	91	99						
620-10051-2	2023-MW-01-0608'	68	69	75	83						
620-10051-3	2023-MW-01-0810'	71	72	79	86						
620-10051-4	2023-MW-01-1012'	65	64	72	78						
620-10051-5	2023-MW-02-0002'	67	69	90	94						
620-10051-6	2023-MW-02-0204'	71	68	75	78						
620-10051-7	2023-MW-02-0406'	62	62	77	82						
620-10051-8	2023-MW-02-0608'	67	68	76	81						
620-10051-9	2023-MW-02-0810'	74	76	78	86						
620-10051-10	2023-MW-02-1012'	68	70	86	91						

Surrogate Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10051-11	2023-SB-16-0002'	69	71	74	78
620-10051-12	2023-SB-16-0204'	71	73	79	87
620-10051-13	2023-SB-16-0406'	63	66	65	69
620-10051-14	2023-SB-16-0608'	70	72	83	84
620-10051-15	2023-SB-16-0810'	58	59	75	77
620-10051-16	2023-SB-16-1012'	48	50	64	67
620-10051-17	2023-SB-15-0002'	60	60	68	70
620-10051-17 MS	2023-SB-15-0002'	57	58	65	70
620-10051-17 MSD	2023-SB-15-0002'	63	66	68	71
620-10051-18	2023-SB-15-0204'	74	77	65	67
620-10051-19	2023-SB-15-0406'	81	82	87	85
620-10051-20	2023-SB-15-0608'	41	41	43	44
620-10051-21	2023-SB-15-0810'	80	78	89	87
620-10051-22	2023-SB-15-1012'	31	34	32	31
620-10051-23	2023-FD-03	57	58	72	76
620-10051-25	2023-SB-14-0002'	48	47	53	53
620-10051-26	2023-SB-14-0204'	65	66	57	60
620-10051-27	2023-SB-14-0406'	61	63	58	61
620-10051-28	2023-SB-14-0608'	66	68	66	71
620-10051-29	2023-SB-14-0810'	67	68	65	68
620-10051-30	2023-SB-14-1012'	75	76	68	72
620-10051-32	2023-SB-13-0002'	0 S1-	0 S1-	0 S1-	0 S1-
620-10051-33	2023-SB-13-0204'	80	81	62	66
620-10051-34	2023-FD-04	69	72	69	73
620-10051-35	2023-SB-13-0406'	67	69	69	74
620-10051-36	2023-SB-13-0608'	78	77	85	84
620-10051-37	2023-SB-13-0810'	53	55	61	62
620-10051-38	2023-SB-13-1012'	83	84	84	85
LCS 620-20226/2-A	Lab Control Sample	83	87	95	108
LCS 620-20230/2-A	Lab Control Sample	71	72	75	83
LCS 620-20339/2-A	Lab Control Sample	84	87	89	91
LCSD 620-20226/3-A	Lab Control Sample Dup	83	86	84	89
LCSD 620-20230/3-A	Lab Control Sample Dup	78	81	82	88
LCSD 620-20339/3-A	Lab Control Sample Dup	87	91	92	98
MB 620-20226/1-A	Method Blank	85	94	82	88
MB 620-20230/1-A	Method Blank	83	85	88	93
MB 620-20339/1-A	Method Blank	68	72	82	85

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10051-1	2023-MW-01-0406'	59	73	62	76	79	76	76	73
620-10051-1 MS	2023-MW-01-0406'	66	71	68	85	82	85	81	80
620-10051-1 MSD	2023-MW-01-0406'	72	74	73	87	87	82	83	85
620-10051-2	2023-MW-01-0608'	103	113	113	115	121	117	118	115
620-10051-3	2023-MW-01-0810'	96	115	99	109	115	106	106	106
620-10051-4	2023-MW-01-1012'	109	124	117	123	124	125	120	120
620-10051-5	2023-MW-02-0002'	83	91	88	85	85	87	98	91
620-10051-6	2023-MW-02-0204'	32	39	35	36	42	40	39	40
620-10051-7	2023-MW-02-0406'	104	129	119	105	116	117	109	124
620-10051-8 - RE	2023-MW-02-0608'	43	53	51	51	53	54	53	51
620-10051-8	2023-MW-02-0608'	77	84	86	82	86	85	76	85
620-10051-9	2023-MW-02-0810'	34	39	38	47	49	47	46	49
620-10051-9 - RE	2023-MW-02-0810'	50	56	55	66	67	67	62	66
620-10051-10	2023-MW-02-1012'	91	98	100	104	104	101	98	96
620-10051-11 - RE	2023-SB-16-0002'	32	44	35	37	39	38	40	41
620-10051-11	2023-SB-16-0002'	55	69	67	59	65	64	62	67
620-10051-12	2023-SB-16-0204'	67	73	74	77	82	78	84	75
620-10051-13	2023-SB-16-0406'	79	88	80	80	91	89	90	90
620-10051-14	2023-SB-16-0608'	98	95	97	110	115	110	104	102
620-10051-15	2023-SB-16-0810'	71	77	82	92	94	100	97	96
620-10051-16	2023-SB-16-1012'	79	93	89	101	111	103	101	99
620-10051-17	2023-SB-15-0002'	86	108	98	102	102	105	103	99
620-10051-17 MS	2023-SB-15-0002'	87	95	91	99	99	94	95	99
620-10051-17 MSD	2023-SB-15-0002'	84	98	87	95	95	95	90	91
620-10051-18	2023-SB-15-0204'	67	66	71	75	77	74	75	68
620-10051-19	2023-SB-15-0406'	88	99	99	102	104	105	103	98
620-10051-20	2023-SB-15-0608'	94	117	108	106	114	111	109	109
620-10051-21	2023-SB-15-0810'	87	102	99	100	105	102	108	106
620-10051-22	2023-SB-15-1012'	82	100	95	102	103	103	99	95
620-10051-23	2023-FD-03	61	73	75	79	83	80	80	76
620-10051-25	2023-SB-14-0002'	81	91	87	89	94	92	103	93
620-10051-26	2023-SB-14-0204'	81	95	91	92	98	93	95	94
620-10051-27	2023-SB-14-0406'	100	114	117	121	125	118	114	112
620-10051-28	2023-SB-14-0608'	86	109	94	96	97	105	110	105
620-10051-29	2023-SB-14-0810'	101	109	104	112	110	109	116	116
620-10051-30	2023-SB-14-1012'	83	99	96	101	99	105	100	104
620-10051-32	2023-SB-13-0002'	20	23	24	82	84	82	81	80
620-10051-32 - RE	2023-SB-13-0002'	106	122	113	141	143	143	115	131
620-10051-33	2023-SB-13-0204'	27	30	30	40	40	41	43	42
620-10051-33 - RE	2023-SB-13-0204'	100	104	110	126	127	124	109	116
620-10051-34	2023-FD-04	28	35	30	44	43	43	42	42
620-10051-34 - RE	2023-FD-04	32	46	38	53	55	53	47	52
620-10051-35	2023-SB-13-0406'	30	39	34	35	36	36	39	36
620-10051-35 - RE	2023-SB-13-0406'	34	39	37	37	42	39	35	38
620-10051-36	2023-SB-13-0608'	79	93	86	88	89	86	79	86
620-10051-37	2023-SB-13-0810'	61	74	70	70	72	70	77	69
620-10051-38	2023-SB-13-1012'	74	91	85	110	109	110	106	106
LCS 410-349822/3-B	Lab Control Sample	84	97	93	95	98	95	100	99
LCS 410-349825/3-B	Lab Control Sample	89	91	90	101	99	98	97	100

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
LCS 410-355125/2-B	Lab Control Sample	115	126	117	129	129	130	126	131
MB 410-349822/1-B	Method Blank	88	117	100	102	103	107	109	111
MB 410-349825/1-B	Method Blank	95	107	103	110	114	116	112	108
MB 410-355125/1-B	Method Blank	127	130	139	136	146	144	131	136

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10051-1	2023-MW-01-0406'	82	80	77	82	84	87	14	15
620-10051-1 MS	2023-MW-01-0406'	80	75	86	88	93	95	22	24
620-10051-1 MSD	2023-MW-01-0406'	79	76	92	86	93	88	26	31
620-10051-2	2023-MW-01-0608'	112	108	119	114	115	115	124	119
620-10051-3	2023-MW-01-0810'	124	110	107	103	107	111	117	118
620-10051-4	2023-MW-01-1012'	128	123	126	121	121	120	130	133
620-10051-5	2023-MW-02-0002'	90	90	106	92	95	102	14	20
620-10051-6	2023-MW-02-0204'	48	44	47	64	74	67	12	28
620-10051-7	2023-MW-02-0406'	135	131	130	133	149	131	11	14
620-10051-8 - RE	2023-MW-02-0608'	53	52	56	74	77	81	7 *5-	9 *5-
620-10051-8	2023-MW-02-0608'	88	89	87	121	132	118	9 *5-	13
620-10051-9	2023-MW-02-0810'	53	50	53	67	72	76	4 *5-	5 *5-
620-10051-9 - RE	2023-MW-02-0810'	67	63	68	102	115	102	4 *5-	6 *5-
620-10051-10	2023-MW-02-1012'	101	99	100	97	102	95	44	47
620-10051-11 - RE	2023-SB-16-0002'	45	43	47	69	72	72	5 *5-	8 *5-
620-10051-11	2023-SB-16-0002'	71	69	73	107	115	106	8 *5-	13
620-10051-12	2023-SB-16-0204'	82	78	84	93	102	100	13	16
620-10051-13	2023-SB-16-0406'	87	94	97	92	97	98	17	21
620-10051-14	2023-SB-16-0608'	107	102	106	105	111	107	75	84
620-10051-15	2023-SB-16-0810'	102	94	104	100	99	104	22	27
620-10051-16	2023-SB-16-1012'	105	99	100	101	103	108	41	49
620-10051-17	2023-SB-15-0002'	112	108	115	108	107	108	30	39
620-10051-17 MS	2023-SB-15-0002'	107	98	116	105	106	103	31	37
620-10051-17 MSD	2023-SB-15-0002'	94	97	98	98	105	95	22	27
620-10051-18	2023-SB-15-0204'	76	74	78	66	73	71	30	33
620-10051-19	2023-SB-15-0406'	106	98	113	106	107	104	27	32
620-10051-20	2023-SB-15-0608'	115	113	128	117	117	113	60	63
620-10051-21	2023-SB-15-0810'	108	105	113	101	101	105	104	104
620-10051-22	2023-SB-15-1012'	104	96	103	96	99	97	100	99
620-10051-23	2023-FD-03	82	83	84	96	104	105	10	13
620-10051-25	2023-SB-14-0002'	97	99	109	99	111	107	22	29
620-10051-26	2023-SB-14-0204'	99	96	106	95	103	101	25	30
620-10051-27	2023-SB-14-0406'	122	125	133	115	117	112	69	65
620-10051-28	2023-SB-14-0608'	112	104	123	107	110	117	37	40
620-10051-29	2023-SB-14-0810'	115	111	128	109	115	117	73	73
620-10051-30	2023-SB-14-1012'	94	97	103	97	95	102	72	73
620-10051-32	2023-SB-13-0002'	84	86	97	117	129	123	0.6 *5-	1 *5-
620-10051-32 - RE	2023-SB-13-0002'	132	130	125	148	168	137	5 *5-	6 *5-
620-10051-33	2023-SB-13-0204'	43	47	51	64	70	74	2 *5-	3 *5-
620-10051-33 - RE	2023-SB-13-0204'	119	118	117	136	158	136	4 *5-	6 *5-
620-10051-34	2023-FD-04	46	41	47	71	76	74	1 *5-	2 *5-
620-10051-34 - RE	2023-FD-04	52	53	57	88	96	89	2 *5-	3 *5-
620-10051-35	2023-SB-13-0406'	35	34	40	51	55	56	4 *5-	5 *5-

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10051-35 - RE	2023-SB-13-0406'	39	38	37	60	71	60	2 *5-	4 *5-
620-10051-36	2023-SB-13-0608'	90	85	91	103	108	102	11	15
620-10051-37	2023-SB-13-0810'	72	75	80	91	90	94	12	15
620-10051-38	2023-SB-13-1012'	116	103	115	115	114	111	36	41
LCS 410-349822/3-B	Lab Control Sample	95	98	125	99	96	100	108	98
LCS 410-349825/3-B	Lab Control Sample	99	99	106	96	99	104	94	101
LCS 410-355125/2-B	Lab Control Sample	138	130	139	136	139	133	123	126
MB 410-349822/1-B	Method Blank	113	109	125	103	105	104	113	109
MB 410-349825/1-B	Method Blank	121	110	124	117	100	110	103	109
MB 410-355125/1-B	Method Blank	139	138	139	134	150	136	114	114

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10051-1	2023-MW-01-0406'	101	72	71	93	84	94	84	66
620-10051-1 MS	2023-MW-01-0406'	105	78	80	102	95	101	94	97
620-10051-1 MSD	2023-MW-01-0406'	93	77	78	90	83	91	85	89
620-10051-2	2023-MW-01-0608'	114	120	119	103	101	105	102	103
620-10051-3	2023-MW-01-0810'	114	108	108	100	101	99	100	99
620-10051-4	2023-MW-01-1012'	125	123	126	114	111	111	113	123
620-10051-5	2023-MW-02-0002'	92	78	84	89	77	85	79	80
620-10051-6	2023-MW-02-0204'	122	33	34	114	80	124	84	44
620-10051-7	2023-MW-02-0406'	89	89	90	80	73	90	71	93
620-10051-8 - RE	2023-MW-02-0608'	100	48	50	94	84	90	85	59
620-10051-8	2023-MW-02-0608'	128	76	73	123	100	125	101	104
620-10051-9	2023-MW-02-0810'	104	42	42	92	81	94	85	56
620-10051-9 - RE	2023-MW-02-0810'	118	58	55	110	60	117	64	67
620-10051-10	2023-MW-02-1012'	89	96	95	83	68	79	68	90
620-10051-11 - RE	2023-SB-16-0002'	103	32	34	96	84	93	83	44
620-10051-11	2023-SB-16-0002'	114	53	53	103	30	108	32	69
620-10051-12	2023-SB-16-0204'	109	71	72	106	84	100	89	75
620-10051-13	2023-SB-16-0406'	96	77	77	89	82	88	87	83
620-10051-14	2023-SB-16-0608'	104	105	101	96	93	98	96	107
620-10051-15	2023-SB-16-0810'	107	94	90	96	93	97	96	84
620-10051-16	2023-SB-16-1012'	102	99	93	94	91	92	93	104
620-10051-17	2023-SB-15-0002'	102	99	99	97	82	97	84	92
620-10051-17 MS	2023-SB-15-0002'	96	90	93	90	79	92	79	88
620-10051-17 MSD	2023-SB-15-0002'	92	86	85	85	73	85	73	93
620-10051-18	2023-SB-15-0204'	71	69	70	66	62	67	64	73
620-10051-19	2023-SB-15-0406'	94	98	96	88	80	89	81	98
620-10051-20	2023-SB-15-0608'	116	108	106	110	101	107	104	107
620-10051-21	2023-SB-15-0810'	107	105	103	97	93	96	94	106
620-10051-22	2023-SB-15-1012'	99	102	97	93	83	93	85	92
620-10051-23	2023-FD-03	97	69	71	94	83	94	83	77
620-10051-25	2023-SB-14-0002'	97	79	77	90	83	93	85	79
620-10051-26	2023-SB-14-0204'	102	84	85	98	87	95	88	91
620-10051-27	2023-SB-14-0406'	112	111	110	105	96	105	99	111
620-10051-28	2023-SB-14-0608'	103	98	98	98	84	98	84	80
620-10051-29	2023-SB-14-0810'	110	106	102	103	94	103	97	100
620-10051-30	2023-SB-14-1012'	90	103	99	87	79	82	81	89
620-10051-32	2023-SB-13-0002'	111	71	69	105	94	104	99	102

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10051-32 - RE	2023-SB-13-0002'	124	132	123	109	89	114	92	142
620-10051-33	2023-SB-13-0204'	107	37	35	105	89	104	93	47
620-10051-33 - RE	2023-SB-13-0204'	132	112	110	124	123	133	122	124
620-10051-34	2023-FD-04	114	38	37	114	99	116	102	53
620-10051-34 - RE	2023-FD-04	109	46	44	93	56	96	60	57
620-10051-35	2023-SB-13-0406'	101	33	32	96	85	96	89	37
620-10051-35 - RE	2023-SB-13-0406'	124	34	32	108	89	111	91	48
620-10051-36	2023-SB-13-0608'	106	81	83	104	89	101	92	88
620-10051-37	2023-SB-13-0810'	114	69	69	107	97	104	100	70
620-10051-38	2023-SB-13-1012'	108	107	105	109	104	108	103	113
LCS 410-349822/3-B	Lab Control Sample	81	96	96	82	65	78	68	89
LCS 410-349825/3-B	Lab Control Sample	84	94	96	79	68	80	69	93
LCS 410-355125/2-B	Lab Control Sample	76	118	120	69	53	79	50	112
MB 410-349822/1-B	Method Blank	97	93	96	89	80	90	79	83
MB 410-349825/1-B	Method Blank	97	103	110	90	69	93	71	102
MB 410-355125/1-B	Method Blank	77	114	118	68	25	73	26	124

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01757		mg/Kg		88	70 - 130
Acetone	0.0200	0.01938	J	mg/Kg		97	70 - 130
Acrylonitrile	0.0200	0.02007		mg/Kg		100	70 - 130
Benzene	0.0200	0.02000		mg/Kg		100	70 - 130
Bromobenzene	0.0200	0.01839		mg/Kg		92	70 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.01978		mg/Kg		99	70 - 130
Bromodichloromethane	0.0200	0.02215		mg/Kg		111	70 - 130
Bromoform	0.0200	0.02074		mg/Kg		104	70 - 130
Bromomethane	0.0200	0.01718		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0200	0.01839		mg/Kg		92	70 - 130
n-Butylbenzene	0.0200	0.01927		mg/Kg		96	70 - 130
sec-Butylbenzene	0.0200	0.01901		mg/Kg		95	70 - 130
tert-Butylbenzene	0.0200	0.01893		mg/Kg		95	70 - 130
Carbon disulfide	0.0200	0.01728		mg/Kg		86	70 - 130
Carbon tetrachloride	0.0200	0.01901		mg/Kg		95	70 - 130
Chlorobenzene	0.0200	0.02132		mg/Kg		107	70 - 130
Chloroethane	0.0200	0.01847		mg/Kg		92	70 - 130
Chloroform	0.0200	0.01999		mg/Kg		100	70 - 130
Chloromethane	0.0200	0.02016		mg/Kg		101	70 - 130
2-Chlorotoluene	0.0200	0.01990		mg/Kg		100	70 - 130
4-Chlorotoluene	0.0200	0.01918		mg/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02172		mg/Kg		109	70 - 130
Dibromochloromethane	0.0200	0.02168		mg/Kg		108	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02034		mg/Kg		102	70 - 130
Dibromomethane	0.0200	0.02048		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.02037		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0200	0.01914		mg/Kg		96	70 - 130
1,4-Dichlorobenzene	0.0200	0.02002		mg/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01307	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0200	0.02090		mg/Kg		104	70 - 130
1,2-Dichloroethane	0.0200	0.01979		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0200	0.01927		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
1,2-Dichloropropane	0.0200	0.02203		mg/Kg		110	70 - 130
1,3-Dichloropropane	0.0200	0.01945		mg/Kg		97	70 - 130
2,2-Dichloropropane	0.0200	0.01877		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01782		mg/Kg		89	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01943		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02019		mg/Kg		101	70 - 130
Ethylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Hexachlorobutadiene	0.0200	0.01815		mg/Kg		91	70 - 130
2-Hexanone (MBK)	0.0200	0.01888		mg/Kg		94	70 - 130
Isopropylbenzene	0.0200	0.01909		mg/Kg		95	70 - 130
4-Isopropyltoluene	0.0200	0.01860		mg/Kg		93	70 - 130
Methyl tert-butyl ether	0.0200	0.01873		mg/Kg		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01908		mg/Kg		95	70 - 130
Methylene Chloride	0.0200	0.01901		mg/Kg		95	70 - 130
Naphthalene	0.0200	0.02120		mg/Kg		106	70 - 130
N-Propylbenzene	0.0200	0.01955		mg/Kg		98	70 - 130
Styrene	0.0200	0.01978		mg/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01996		mg/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02226		mg/Kg		111	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.01863		mg/Kg		93	70 - 130
Toluene	0.0200	0.01981		mg/Kg		99	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02055		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01920		mg/Kg		96	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01939		mg/Kg		97	70 - 130
1,1,1-Trichloroethane	0.0200	0.01987		mg/Kg		99	70 - 130
1,1,2-Trichloroethane	0.0200	0.02214		mg/Kg		111	70 - 130
Trichloroethene	0.0200	0.01959		mg/Kg		98	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01989		mg/Kg		99	70 - 130
1,2,3-Trichloropropane	0.0200	0.01879		mg/Kg		94	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01926		mg/Kg		96	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01910		mg/Kg		95	70 - 130
Vinyl chloride	0.0200	0.01813		mg/Kg		91	70 - 130
m,p-Xylene	0.0400	0.04135		mg/Kg		103	70 - 130
o-Xylene	0.0200	0.02024		mg/Kg		101	70 - 130
Tetrahydrofuran	0.0200	0.01827		mg/Kg		91	70 - 130
Ethyl ether	0.0200	0.01842		mg/Kg		92	70 - 130
Tert-amyl methyl ether	0.0200	0.01953		mg/Kg		98	70 - 130
Ethyl tert-butyl ether	0.0200	0.01904		mg/Kg		95	70 - 130
di-Isopropyl ether	0.0200	0.01879		mg/Kg		94	70 - 130
tert-Butanol	0.200	0.2141		mg/Kg		107	70 - 130
1,4-Dioxane	0.200	0.2059		mg/Kg		103	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02096	J	mg/Kg		105	70 - 130
Ethanol	0.400	0.4234	J	mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01827		mg/Kg		91	70 - 130	4	30
Acetone	0.0200	0.02043	J	mg/Kg		102	70 - 130	5	30
Acrylonitrile	0.0200	0.02072		mg/Kg		104	70 - 130	3	30
Benzene	0.0200	0.02069		mg/Kg		103	70 - 130	3	30
Bromobenzene	0.0200	0.01921		mg/Kg		96	70 - 130	4	30
Bromochloromethane	0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Bromodichloromethane	0.0200	0.02278		mg/Kg		114	70 - 130	3	30
Bromoform	0.0200	0.02118		mg/Kg		106	70 - 130	2	30
Bromomethane	0.0200	0.01756		mg/Kg		88	70 - 130	2	30
2-Butanone (MEK)	0.0200	0.01887		mg/Kg		94	70 - 130	3	30
n-Butylbenzene	0.0200	0.01994		mg/Kg		100	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	0.0200	0.01976		mg/Kg		99	70 - 130	4	30
tert-Butylbenzene	0.0200	0.01974		mg/Kg		99	70 - 130	4	30
Carbon disulfide	0.0200	0.01797		mg/Kg		90	70 - 130	4	30
Carbon tetrachloride	0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Chlorobenzene	0.0200	0.02203		mg/Kg		110	70 - 130	3	30
Chloroethane	0.0200	0.01874		mg/Kg		94	70 - 130	1	30
Chloroform	0.0200	0.02087		mg/Kg		104	70 - 130	4	30
Chloromethane	0.0200	0.02101		mg/Kg		105	70 - 130	4	30
2-Chlorotoluene	0.0200	0.02067		mg/Kg		103	70 - 130	4	30
4-Chlorotoluene	0.0200	0.01963		mg/Kg		98	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02174		mg/Kg		109	70 - 130	0	30
Dibromochloromethane	0.0200	0.02211		mg/Kg		111	70 - 130	2	30
1,2-Dibromoethane (EDB)	0.0200	0.02077		mg/Kg		104	70 - 130	2	30
Dibromomethane	0.0200	0.02065		mg/Kg		103	70 - 130	1	30
1,2-Dichlorobenzene	0.0200	0.02106		mg/Kg		105	70 - 130	3	30
1,3-Dichlorobenzene	0.0200	0.01946		mg/Kg		97	70 - 130	2	30
1,4-Dichlorobenzene	0.0200	0.02062		mg/Kg		103	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01382	*-	mg/Kg		69	70 - 130	6	30
1,1-Dichloroethane	0.0200	0.02173		mg/Kg		109	70 - 130	4	30
1,2-Dichloroethane	0.0200	0.02074		mg/Kg		104	70 - 130	5	30
1,1-Dichloroethene	0.0200	0.02053		mg/Kg		103	70 - 130	6	30
cis-1,2-Dichloroethene	0.0200	0.02106		mg/Kg		105	70 - 130	5	30
trans-1,2-Dichloroethene	0.0200	0.02060		mg/Kg		103	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02255		mg/Kg		113	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02012		mg/Kg		101	70 - 130	3	30
2,2-Dichloropropane	0.0200	0.01909		mg/Kg		95	70 - 130	2	30
1,1-Dichloropropene	0.0200	0.01866		mg/Kg		93	70 - 130	5	30
cis-1,3-Dichloropropene	0.0200	0.01967		mg/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02040		mg/Kg		102	70 - 130	1	30
Ethylbenzene	0.0200	0.02106		mg/Kg		105	70 - 130	4	30
Hexachlorobutadiene	0.0200	0.01894		mg/Kg		95	70 - 130	4	30
2-Hexanone (MBK)	0.0200	0.01921		mg/Kg		96	70 - 130	2	30
Isopropylbenzene	0.0200	0.01965		mg/Kg		98	70 - 130	3	30
4-Isopropyltoluene	0.0200	0.01955		mg/Kg		98	70 - 130	5	30
Methyl tert-butyl ether	0.0200	0.01926		mg/Kg		96	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01913		mg/Kg		96	70 - 130	0	30
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130	4	30
Naphthalene	0.0200	0.02180		mg/Kg		109	70 - 130	3	30
N-Propylbenzene	0.0200	0.02003		mg/Kg		100	70 - 130	2	30
Styrene	0.0200	0.02037		mg/Kg		102	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0200	0.02039		mg/Kg		102	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02245		mg/Kg		112	70 - 130	1	30
Tetrachloroethene	0.0200	0.01893		mg/Kg		95	70 - 130	2	30
Toluene	0.0200	0.02031		mg/Kg		102	70 - 130	3	30
1,2,3-Trichlorobenzene	0.0200	0.02115		mg/Kg		106	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0200	0.01988		mg/Kg		99	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.01945		mg/Kg		97	70 - 130	0	30
1,1,1-Trichloroethane	0.0200	0.02055		mg/Kg		103	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02258		mg/Kg		113	70 - 130	2	30
Trichloroethene			0.0200	0.01991		mg/Kg		100	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02080		mg/Kg		104	70 - 130	4	30
1,2,3-Trichloropropane			0.0200	0.02070		mg/Kg		103	70 - 130	10	30
1,2,4-Trimethylbenzene			0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3,5-Trimethylbenzene			0.0200	0.01990		mg/Kg		99	70 - 130	4	30
Vinyl chloride			0.0200	0.01867		mg/Kg		93	70 - 130	3	30
m,p-Xylene			0.0400	0.04282		mg/Kg		107	70 - 130	3	30
o-Xylene			0.0200	0.02086		mg/Kg		104	70 - 130	3	30
Tetrahydrofuran			0.0200	0.01952		mg/Kg		98	70 - 130	7	30
Ethyl ether			0.0200	0.01800		mg/Kg		90	70 - 130	2	30
Tert-amyl methyl ether			0.0200	0.01941		mg/Kg		97	70 - 130	1	30
Ethyl tert-butyl ether			0.0200	0.01894		mg/Kg		95	70 - 130	1	30
di-Isopropyl ether			0.0200	0.01936		mg/Kg		97	70 - 130	3	30
tert-Butanol			0.200	0.2113		mg/Kg		106	70 - 130	1	30
1,4-Dioxane			0.200	0.1895		mg/Kg		95	70 - 130	8	30
trans-1,4-Dichloro-2-butene			0.0200	0.02160	J	mg/Kg		108	70 - 130	3	30
Ethanol			0.400	0.4066	J	mg/Kg		102	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20252/3-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20252

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/03/23 10:32	03/03/23 13:50	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/03/23 10:32	03/03/23 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/03/23 10:32*	*03/03/23 13:50*	*1*

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02096		mg/Kg		105	70 - 130
Acetone	0.0200	0.01748	J	mg/Kg		87	70 - 130
Acrylonitrile	0.0200	0.01945		mg/Kg		97	70 - 130
Benzene	0.0200	0.02067		mg/Kg		103	70 - 130
Bromobenzene	0.0200	0.01988		mg/Kg		99	70 - 130
Bromochloromethane	0.0200	0.02025		mg/Kg		101	70 - 130
Bromodichloromethane	0.0200	0.02042		mg/Kg		102	70 - 130
Bromoform	0.0200	0.02011		mg/Kg		101	70 - 130
Bromomethane	0.0200	0.02293		mg/Kg		115	70 - 130
2-Butanone (MEK)	0.0200	0.01932		mg/Kg		97	70 - 130
n-Butylbenzene	0.0200	0.02077		mg/Kg		104	70 - 130
sec-Butylbenzene	0.0200	0.02139		mg/Kg		107	70 - 130
tert-Butylbenzene	0.0200	0.02043		mg/Kg		102	70 - 130
Carbon disulfide	0.0200	0.02131		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0200	0.02046		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02083		mg/Kg		104	70 - 130
Chloroethane	0.0200	0.02435		mg/Kg		122	70 - 130
Chloroform	0.0200	0.02055		mg/Kg		103	70 - 130
Chloromethane	0.0200	0.02048		mg/Kg		102	70 - 130
2-Chlorotoluene	0.0200	0.02147		mg/Kg		107	70 - 130
4-Chlorotoluene	0.0200	0.02089		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01950		mg/Kg		98	70 - 130
Dibromochloromethane	0.0200	0.01977		mg/Kg		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0200	0.02009		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.02040		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.02033		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0200	0.02106		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.02063		mg/Kg		103	70 - 130
1,1-Dichloroethane	0.0200	0.01982		mg/Kg		99	70 - 130
1,2-Dichloroethane	0.0200	0.01963		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01956		mg/Kg		98	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01971		mg/Kg		99	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02011		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0200	0.02010		mg/Kg		101	70 - 130
1,3-Dichloropropane	0.0200	0.02008		mg/Kg		100	70 - 130
2,2-Dichloropropane	0.0200	0.01921		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0200	0.01973		mg/Kg		99	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01942		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02028		mg/Kg		101	70 - 130
Ethylbenzene	0.0200	0.02106		mg/Kg		105	70 - 130
Hexachlorobutadiene	0.0200	0.01937		mg/Kg		97	70 - 130
2-Hexanone (MBK)	0.0200	0.01706		mg/Kg		85	70 - 130
Isopropylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130
4-Isopropyltoluene	0.0200	0.02046		mg/Kg		102	70 - 130
Methyl tert-butyl ether	0.0200	0.01835		mg/Kg		92	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01801		mg/Kg		90	70 - 130
Methylene Chloride	0.0200	0.01923		mg/Kg		96	70 - 130
Naphthalene	0.0200	0.01982		mg/Kg		99	70 - 130
N-Propylbenzene	0.0200	0.02133		mg/Kg		107	70 - 130
Styrene	0.0200	0.02090		mg/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02057		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02149		mg/Kg		107	70 - 130
Tetrachloroethene	0.0200	0.01948		mg/Kg		97	70 - 130
Toluene	0.0200	0.02071		mg/Kg		104	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01977		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01996		mg/Kg		100	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02024		mg/Kg		101	70 - 130
1,1,1-Trichloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02094		mg/Kg		105	70 - 130
Trichloroethene	0.0200	0.02045		mg/Kg		102	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01966		mg/Kg		98	70 - 130
1,2,3-Trichloropropane	0.0200	0.02100		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02101		mg/Kg		105	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02122		mg/Kg		106	70 - 130
Vinyl chloride	0.0200	0.02156		mg/Kg		108	70 - 130
m,p-Xylene	0.0200	0.02023		mg/Kg		101	70 - 130
o-Xylene	0.0200	0.02000		mg/Kg		100	70 - 130
Tetrahydrofuran	0.0200	0.01770		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.01933		mg/Kg		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20252/1-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0200	0.01885		mg/Kg		94	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01830		mg/Kg		92	70 - 130		
di-Isopropyl ether			0.0200	0.01818		mg/Kg		91	70 - 130		
tert-Butanol			0.200	0.1695		mg/Kg		85	70 - 130		
1,4-Dioxane			0.200	0.1818		mg/Kg		91	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.01981	J	mg/Kg		99	70 - 130		
Ethanol			0.400	0.3363	J	mg/Kg		84	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.01969		mg/Kg		98	70 - 130	6	30
Acetone			0.0200	0.01853	J	mg/Kg		93	70 - 130	6	30
Acrylonitrile			0.0200	0.01950		mg/Kg		97	70 - 130	0	30
Benzene			0.0200	0.02062		mg/Kg		103	70 - 130	0	30
Bromobenzene			0.0200	0.01973		mg/Kg		99	70 - 130	1	30
Bromochloromethane			0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Bromodichloromethane			0.0200	0.02010		mg/Kg		100	70 - 130	2	30
Bromoform			0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Bromomethane			0.0200	0.02172		mg/Kg		109	70 - 130	5	30
2-Butanone (MEK)			0.0200	0.01913		mg/Kg		96	70 - 130	1	30
n-Butylbenzene			0.0200	0.02045		mg/Kg		102	70 - 130	2	30
sec-Butylbenzene			0.0200	0.02078		mg/Kg		104	70 - 130	3	30
tert-Butylbenzene			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Carbon disulfide			0.0200	0.02026		mg/Kg		101	70 - 130	5	30
Carbon tetrachloride			0.0200	0.01986		mg/Kg		99	70 - 130	3	30
Chlorobenzene			0.0200	0.02018		mg/Kg		101	70 - 130	3	30
Chloroethane			0.0200	0.02343		mg/Kg		117	70 - 130	4	30
Chloroform			0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Chloromethane			0.0200	0.02018		mg/Kg		101	70 - 130	1	30
2-Chlorotoluene			0.0200	0.02119		mg/Kg		106	70 - 130	1	30
4-Chlorotoluene			0.0200	0.02057		mg/Kg		103	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02022		mg/Kg		101	70 - 130	4	30
Dibromochloromethane			0.0200	0.01999		mg/Kg		100	70 - 130	1	30
1,2-Dibromoethane (EDB)			0.0200	0.01981		mg/Kg		99	70 - 130	1	30
Dibromomethane			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02035		mg/Kg		102	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.02060		mg/Kg		103	70 - 130	2	30
1,4-Dichlorobenzene			0.0200	0.02055		mg/Kg		103	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0200	0.01996		mg/Kg		100	70 - 130	3	30
1,1-Dichloroethane	0.0200	0.02026		mg/Kg		101	70 - 130	2	30
1,2-Dichloroethane	0.0200	0.01996		mg/Kg		100	70 - 130	2	30
1,1-Dichloroethene	0.0200	0.01930		mg/Kg		96	70 - 130	1	30
cis-1,2-Dichloroethene	0.0200	0.01928		mg/Kg		96	70 - 130	2	30
trans-1,2-Dichloroethene	0.0200	0.01953		mg/Kg		98	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02020		mg/Kg		101	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.02039		mg/Kg		102	70 - 130	2	30
2,2-Dichloropropane	0.0200	0.01931		mg/Kg		97	70 - 130	1	30
1,1-Dichloropropene	0.0200	0.01930		mg/Kg		96	70 - 130	2	30
cis-1,3-Dichloropropene	0.0200	0.01923		mg/Kg		96	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02008		mg/Kg		100	70 - 130	1	30
Ethylbenzene	0.0200	0.02082		mg/Kg		104	70 - 130	1	30
Hexachlorobutadiene	0.0200	0.01970		mg/Kg		98	70 - 130	2	30
2-Hexanone (MBK)	0.0200	0.01794		mg/Kg		90	70 - 130	5	30
Isopropylbenzene	0.0200	0.02027		mg/Kg		101	70 - 130	2	30
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130	2	30
Methyl tert-butyl ether	0.0200	0.01876		mg/Kg		94	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01850		mg/Kg		92	70 - 130	3	30
Methylene Chloride	0.0200	0.01923		mg/Kg		96	70 - 130	0	30
Naphthalene	0.0200	0.02154		mg/Kg		108	70 - 130	8	30
N-Propylbenzene	0.0200	0.02078		mg/Kg		104	70 - 130	3	30
Styrene	0.0200	0.02010		mg/Kg		101	70 - 130	4	30
1,1,1,2-Tetrachloroethane	0.0200	0.02000		mg/Kg		100	70 - 130	3	30
1,1,2,2-Tetrachloroethane	0.0200	0.02199		mg/Kg		110	70 - 130	2	30
Tetrachloroethene	0.0200	0.01857		mg/Kg		93	70 - 130	5	30
Toluene	0.0200	0.02034		mg/Kg		102	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0200	0.02093		mg/Kg		105	70 - 130	6	30
1,2,4-Trichlorobenzene	0.0200	0.02061		mg/Kg		103	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.02032		mg/Kg		102	70 - 130	0	30
1,1,1-Trichloroethane	0.0200	0.01941		mg/Kg		97	70 - 130	5	30
1,1,2-Trichloroethane	0.0200	0.02077		mg/Kg		104	70 - 130	1	30
Trichloroethene	0.0200	0.02030		mg/Kg		102	70 - 130	1	30
Trichlorofluoromethane (Freon 11)	0.0200	0.01940		mg/Kg		97	70 - 130	1	30
1,2,3-Trichloropropane	0.0200	0.02111		mg/Kg		106	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02073		mg/Kg		104	70 - 130	1	30
1,3,5-Trimethylbenzene	0.0200	0.02053		mg/Kg		103	70 - 130	3	30
Vinyl chloride	0.0200	0.02060		mg/Kg		103	70 - 130	5	30
m,p-Xylene	0.0200	0.02004		mg/Kg		100	70 - 130	1	30
o-Xylene	0.0200	0.01964		mg/Kg		98	70 - 130	2	30
Tetrahydrofuran	0.0200	0.01787		mg/Kg		89	70 - 130	1	30
Ethyl ether	0.0200	0.01916		mg/Kg		96	70 - 130	1	30
Tert-amyl methyl ether	0.0200	0.01857		mg/Kg		93	70 - 130	1	30
Ethyl tert-butyl ether	0.0200	0.01822		mg/Kg		91	70 - 130	0	30
di-Isopropyl ether	0.0200	0.01887		mg/Kg		94	70 - 130	4	30
tert-Butanol	0.200	0.1846		mg/Kg		92	70 - 130	9	30
1,4-Dioxane	0.200	0.1951		mg/Kg		98	70 - 130	7	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20252/2-A
Matrix: Solid
Analysis Batch: 20253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20252

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0200	0.02027	J	mg/Kg		101	70 - 130	2	30
Ethanol			0.400	0.4041	J	mg/Kg		101	70 - 130	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/06/23 09:50	03/06/23 13:14	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/06/23 09:50	03/06/23 13:14	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/06/23 09:50	03/06/23 13:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20295/3-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20295

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/06/23 09:50*	*03/06/23 13:14*	*1*

Lab Sample ID: LCS 620-20295/1-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02105		mg/Kg		105	70 - 130
Acetone	0.0200	0.01858	J	mg/Kg		93	70 - 130
Acrylonitrile	0.0200	0.01925		mg/Kg		96	70 - 130
Benzene	0.0200	0.02129		mg/Kg		106	70 - 130
Bromobenzene	0.0200	0.02084		mg/Kg		104	70 - 130
Bromochloromethane	0.0200	0.02048		mg/Kg		102	70 - 130
Bromodichloromethane	0.0200	0.02083		mg/Kg		104	70 - 130
Bromoform	0.0200	0.02048		mg/Kg		102	70 - 130
Bromomethane	0.0200	0.02105		mg/Kg		105	70 - 130
2-Butanone (MEK)	0.0200	0.02054		mg/Kg		103	70 - 130
n-Butylbenzene	0.0200	0.02130		mg/Kg		107	70 - 130
sec-Butylbenzene	0.0200	0.02167		mg/Kg		108	70 - 130
tert-Butylbenzene	0.0200	0.02099		mg/Kg		105	70 - 130
Carbon disulfide	0.0200	0.02158		mg/Kg		108	70 - 130
Carbon tetrachloride	0.0200	0.02079		mg/Kg		104	70 - 130
Chlorobenzene	0.0200	0.02128		mg/Kg		106	70 - 130
Chloroethane	0.0200	0.02335		mg/Kg		117	70 - 130
Chloroform	0.0200	0.02101		mg/Kg		105	70 - 130
Chloromethane	0.0200	0.02179		mg/Kg		109	70 - 130
2-Chlorotoluene	0.0200	0.02152		mg/Kg		108	70 - 130
4-Chlorotoluene	0.0200	0.02143		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02064		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02026		mg/Kg		101	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02051		mg/Kg		103	70 - 130
Dibromomethane	0.0200	0.02068		mg/Kg		103	70 - 130
1,2-Dichlorobenzene	0.0200	0.02123		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02157		mg/Kg		108	70 - 130
1,4-Dichlorobenzene	0.0200	0.02118		mg/Kg		106	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01915		mg/Kg		96	70 - 130
1,1-Dichloroethane	0.0200	0.02063		mg/Kg		103	70 - 130
1,2-Dichloroethane	0.0200	0.01976		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0200	0.02090		mg/Kg		105	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01999		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02027		mg/Kg		101	70 - 130
1,2-Dichloropropane	0.0200	0.02004		mg/Kg		100	70 - 130
1,3-Dichloropropane	0.0200	0.02061		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01966		mg/Kg		98	70 - 130
1,1-Dichloropropene	0.0200	0.01999		mg/Kg		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20295/1-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0200	0.01921		mg/Kg		96	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02008		mg/Kg		100	70 - 130
Ethylbenzene	0.0200	0.02142		mg/Kg		107	70 - 130
Hexachlorobutadiene	0.0200	0.02025		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01770		mg/Kg		88	70 - 130
Isopropylbenzene	0.0200	0.02108		mg/Kg		105	70 - 130
4-Isopropyltoluene	0.0200	0.02089		mg/Kg		104	70 - 130
Methyl tert-butyl ether	0.0200	0.01869		mg/Kg		93	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01805		mg/Kg		90	70 - 130
Methylene Chloride	0.0200	0.02069		mg/Kg		103	70 - 130
Naphthalene	0.0200	0.02055		mg/Kg		103	70 - 130
N-Propylbenzene	0.0200	0.02172		mg/Kg		109	70 - 130
Styrene	0.0200	0.02145		mg/Kg		107	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02082		mg/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02171		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01976		mg/Kg		99	70 - 130
Toluene	0.0200	0.02129		mg/Kg		106	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02067		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02063		mg/Kg		103	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02114		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02031		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0200	0.02147		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02056		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02029		mg/Kg		101	70 - 130
1,2,3-Trichloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02186		mg/Kg		109	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Vinyl chloride	0.0200	0.02059		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02052		mg/Kg		103	70 - 130
o-Xylene	0.0200	0.02028		mg/Kg		101	70 - 130
Tetrahydrofuran	0.0200	0.01779		mg/Kg		89	70 - 130
Ethyl ether	0.0200	0.01992		mg/Kg		100	70 - 130
Tert-amyl methyl ether	0.0200	0.01848		mg/Kg		92	70 - 130
Ethyl tert-butyl ether	0.0200	0.01805		mg/Kg		90	70 - 130
di-Isopropyl ether	0.0200	0.01874		mg/Kg		94	70 - 130
tert-Butanol	0.200	0.1710		mg/Kg		86	70 - 130
1,4-Dioxane	0.200	0.1766		mg/Kg		88	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.01971	J	mg/Kg		99	70 - 130
Ethanol	0.400	0.3660	J	mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20295/2-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02085		mg/Kg		104	70 - 130	1	30
Acetone	0.0200	0.01856	J	mg/Kg		93	70 - 130	0	30
Acrylonitrile	0.0200	0.01985		mg/Kg		99	70 - 130	3	30
Benzene	0.0200	0.02138		mg/Kg		107	70 - 130	0	30
Bromobenzene	0.0200	0.02056		mg/Kg		103	70 - 130	1	30
Bromochloromethane	0.0200	0.02068		mg/Kg		103	70 - 130	1	30
Bromodichloromethane	0.0200	0.02054		mg/Kg		103	70 - 130	1	30
Bromoform	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Bromomethane	0.0200	0.02162		mg/Kg		108	70 - 130	3	30
2-Butanone (MEK)	0.0200	0.01767		mg/Kg		88	70 - 130	15	30
n-Butylbenzene	0.0200	0.02093		mg/Kg		105	70 - 130	2	30
sec-Butylbenzene	0.0200	0.02131		mg/Kg		107	70 - 130	2	30
tert-Butylbenzene	0.0200	0.02072		mg/Kg		104	70 - 130	1	30
Carbon disulfide	0.0200	0.02150		mg/Kg		107	70 - 130	0	30
Carbon tetrachloride	0.0200	0.02066		mg/Kg		103	70 - 130	1	30
Chlorobenzene	0.0200	0.02122		mg/Kg		106	70 - 130	0	30
Chloroethane	0.0200	0.02299		mg/Kg		115	70 - 130	2	30
Chloroform	0.0200	0.02096		mg/Kg		105	70 - 130	0	30
Chloromethane	0.0200	0.02130		mg/Kg		107	70 - 130	2	30
2-Chlorotoluene	0.0200	0.02018		mg/Kg		101	70 - 130	6	30
4-Chlorotoluene	0.0200	0.02115		mg/Kg		106	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02062		mg/Kg		103	70 - 130	0	30
Dibromochloromethane	0.0200	0.02042		mg/Kg		102	70 - 130	1	30
1,2-Dibromoethane (EDB)	0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Dibromomethane	0.0200	0.02069		mg/Kg		103	70 - 130	0	30
1,2-Dichlorobenzene	0.0200	0.02119		mg/Kg		106	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.02145		mg/Kg		107	70 - 130	1	30
1,4-Dichlorobenzene	0.0200	0.02097		mg/Kg		105	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01844		mg/Kg		92	70 - 130	4	30
1,1-Dichloroethane	0.0200	0.02050		mg/Kg		103	70 - 130	1	30
1,2-Dichloroethane	0.0200	0.01989		mg/Kg		99	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.02052		mg/Kg		103	70 - 130	2	30
cis-1,2-Dichloroethene	0.0200	0.02006		mg/Kg		100	70 - 130	0	30
trans-1,2-Dichloroethene	0.0200	0.02036		mg/Kg		102	70 - 130	0	30
1,2-Dichloropropane	0.0200	0.02010		mg/Kg		100	70 - 130	0	30
1,3-Dichloropropane	0.0200	0.02041		mg/Kg		102	70 - 130	1	30
2,2-Dichloropropane	0.0200	0.01969		mg/Kg		98	70 - 130	0	30
1,1-Dichloropropene	0.0200	0.02030		mg/Kg		101	70 - 130	2	30
cis-1,3-Dichloropropene	0.0200	0.01953		mg/Kg		98	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02033		mg/Kg		102	70 - 130	1	30
Ethylbenzene	0.0200	0.02140		mg/Kg		107	70 - 130	0	30
Hexachlorobutadiene	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
2-Hexanone (MBK)	0.0200	0.01737		mg/Kg		87	70 - 130	2	30
Isopropylbenzene	0.0200	0.02103		mg/Kg		105	70 - 130	0	30
4-Isopropyltoluene	0.0200	0.02080		mg/Kg		104	70 - 130	0	30
Methyl tert-butyl ether	0.0200	0.01895		mg/Kg		95	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01804		mg/Kg		90	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20295/2-A
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride	0.0200	0.02066		mg/Kg		103	70 - 130	0	30
Naphthalene	0.0200	0.02133		mg/Kg		107	70 - 130	4	30
N-Propylbenzene	0.0200	0.02157		mg/Kg		108	70 - 130	1	30
Styrene	0.0200	0.02114		mg/Kg		106	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02094		mg/Kg		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02174		mg/Kg		109	70 - 130	0	30
Tetrachloroethene	0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Toluene	0.0200	0.02111		mg/Kg		106	70 - 130	1	30
1,2,3-Trichlorobenzene	0.0200	0.02132		mg/Kg		107	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,3,5-Trichlorobenzene	0.0200	0.02047		mg/Kg		102	70 - 130	3	30
1,1,1-Trichloroethane	0.0200	0.02073		mg/Kg		104	70 - 130	2	30
1,1,2-Trichloroethane	0.0200	0.02063		mg/Kg		103	70 - 130	4	30
Trichloroethene	0.0200	0.02052		mg/Kg		103	70 - 130	0	30
Trichlorofluoromethane (Freon 11)	0.0200	0.02006		mg/Kg		100	70 - 130	1	30
1,2,3-Trichloropropane	0.0200	0.02060		mg/Kg		103	70 - 130	0	30
1,2,4-Trimethylbenzene	0.0200	0.02124		mg/Kg		106	70 - 130	3	30
1,3,5-Trimethylbenzene	0.0200	0.02105		mg/Kg		105	70 - 130	2	30
Vinyl chloride	0.0200	0.02080		mg/Kg		104	70 - 130	1	30
m,p-Xylene	0.0200	0.02049		mg/Kg		102	70 - 130	0	30
o-Xylene	0.0200	0.02034		mg/Kg		102	70 - 130	0	30
Tetrahydrofuran	0.0200	0.01702		mg/Kg		85	70 - 130	4	30
Ethyl ether	0.0200	0.01983		mg/Kg		99	70 - 130	0	30
Tert-amyl methyl ether	0.0200	0.01838		mg/Kg		92	70 - 130	1	30
Ethyl tert-butyl ether	0.0200	0.01860		mg/Kg		93	70 - 130	3	30
di-Isopropyl ether	0.0200	0.01917		mg/Kg		96	70 - 130	2	30
tert-Butanol	0.200	0.1740		mg/Kg		87	70 - 130	2	30
1,4-Dioxane	0.200	0.1814		mg/Kg		91	70 - 130	3	30
trans-1,4-Dichloro-2-butene	0.0200	0.01989	J	mg/Kg		99	70 - 130	1	30
Ethanol	0.400	0.3912	J	mg/Kg		98	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0291	0.03127		mg/Kg	☼	107	70 - 130
Acetone	ND		0.0291	0.02831	J	mg/Kg	☼	97	70 - 130
Acrylonitrile	ND		0.0291	0.02899		mg/Kg	☼	99	70 - 130
Benzene	ND		0.0291	0.03208		mg/Kg	☼	110	70 - 130
Bromobenzene	ND		0.0291	0.02761		mg/Kg	☼	95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	ND		0.0291	0.03047		mg/Kg	☼	105	70 - 130
Bromodichloromethane	ND		0.0291	0.03367		mg/Kg	☼	116	70 - 130
Bromoform	ND		0.0291	0.03122		mg/Kg	☼	107	70 - 130
Bromomethane	ND		0.0291	0.02809		mg/Kg	☼	96	70 - 130
2-Butanone (MEK)	ND		0.0291	0.03104		mg/Kg	☼	107	70 - 130
n-Butylbenzene	ND		0.0291	0.02745		mg/Kg	☼	94	70 - 130
sec-Butylbenzene	ND		0.0291	0.02789		mg/Kg	☼	96	70 - 130
tert-Butylbenzene	ND		0.0291	0.02750		mg/Kg	☼	94	70 - 130
Carbon disulfide	ND		0.0291	0.03115		mg/Kg	☼	107	70 - 130
Carbon tetrachloride	ND		0.0291	0.03063		mg/Kg	☼	105	70 - 130
Chlorobenzene	ND		0.0291	0.03373		mg/Kg	☼	116	70 - 130
Chloroethane	ND		0.0291	0.03245		mg/Kg	☼	111	70 - 130
Chloroform	ND		0.0291	0.03072		mg/Kg	☼	105	70 - 130
Chloromethane	ND		0.0291	0.03160		mg/Kg	☼	108	70 - 130
2-Chlorotoluene	ND		0.0291	0.02809		mg/Kg	☼	96	70 - 130
4-Chlorotoluene	ND		0.0291	0.02917		mg/Kg	☼	100	70 - 130
1,2-Dibromo-3-Chloropropane	ND		0.0291	0.02647		mg/Kg	☼	91	70 - 130
Dibromochloromethane	ND		0.0291	0.03228		mg/Kg	☼	111	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0291	0.03063		mg/Kg	☼	105	70 - 130
Dibromomethane	ND		0.0291	0.03112		mg/Kg	☼	107	70 - 130
1,2-Dichlorobenzene	ND		0.0291	0.02871		mg/Kg	☼	99	70 - 130
1,3-Dichlorobenzene	ND		0.0291	0.02798		mg/Kg	☼	96	70 - 130
1,4-Dichlorobenzene	ND		0.0291	0.03019		mg/Kg	☼	104	70 - 130
Dichlorodifluoromethane (Freon 12)	ND		0.0291	0.02286		mg/Kg	☼	78	70 - 130
1,1-Dichloroethane	ND		0.0291	0.03308		mg/Kg	☼	114	70 - 130
1,2-Dichloroethane	ND		0.0291	0.02916		mg/Kg	☼	100	70 - 130
1,1-Dichloroethene	ND		0.0291	0.03171		mg/Kg	☼	109	70 - 130
cis-1,2-Dichloroethene	ND		0.0291	0.03114		mg/Kg	☼	107	70 - 130
trans-1,2-Dichloroethene	ND		0.0291	0.03276		mg/Kg	☼	112	70 - 130
1,2-Dichloropropane	ND		0.0291	0.03354		mg/Kg	☼	115	70 - 130
1,3-Dichloropropane	ND		0.0291	0.02904		mg/Kg	☼	100	70 - 130
2,2-Dichloropropane	ND		0.0291	0.02923		mg/Kg	☼	100	70 - 130
1,1-Dichloropropene	ND		0.0291	0.02730		mg/Kg	☼	94	70 - 130
cis-1,3-Dichloropropene	ND		0.0291	0.02752		mg/Kg	☼	94	70 - 130
trans-1,3-Dichloropropene	ND		0.0291	0.02991		mg/Kg	☼	103	70 - 130
Ethylbenzene	ND		0.0291	0.03202		mg/Kg	☼	110	70 - 130
Hexachlorobutadiene	ND	F1	0.0291	0.01568	F1	mg/Kg	☼	54	70 - 130
2-Hexanone (MBK)	ND		0.0291	0.02389		mg/Kg	☼	82	70 - 130
Isopropylbenzene	ND		0.0291	0.02859		mg/Kg	☼	98	70 - 130
4-Isopropyltoluene	ND		0.0291	0.02631		mg/Kg	☼	90	70 - 130
Methyl tert-butyl ether	ND		0.0291	0.02515		mg/Kg	☼	86	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		0.0291	0.02525		mg/Kg	☼	87	70 - 130
Methylene Chloride	ND		0.0291	0.03174		mg/Kg	☼	109	70 - 130
Naphthalene	ND	F1	0.0291	0.01804	F1	mg/Kg	☼	62	70 - 130
N-Propylbenzene	ND		0.0291	0.03055		mg/Kg	☼	105	70 - 130
Styrene	ND		0.0291	0.03053		mg/Kg	☼	105	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0291	0.03001		mg/Kg	☼	103	70 - 130
1,1,2,2-Tetrachloroethane	ND		0.0291	0.03481		mg/Kg	☼	119	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20296

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	ND		0.0291	0.02898		mg/Kg	☼	99	70 - 130
Toluene	ND		0.0291	0.03254		mg/Kg	☼	112	70 - 130
1,2,3-Trichlorobenzene	ND	F1	0.0291	0.01720	F1	mg/Kg	☼	59	70 - 130
1,2,4-Trichlorobenzene	ND	F1	0.0291	0.01737	F1	mg/Kg	☼	60	70 - 130
1,3,5-Trichlorobenzene	ND		0.0291	0.02075		mg/Kg	☼	71	70 - 130
1,1,1-Trichloroethane	ND		0.0291	0.03065		mg/Kg	☼	105	70 - 130
1,1,2-Trichloroethane	ND		0.0291	0.03554		mg/Kg	☼	122	70 - 130
Trichloroethene	ND		0.0291	0.02990		mg/Kg	☼	103	70 - 130
Trichlorofluoromethane (Freon 11)	ND		0.0291	0.03162		mg/Kg	☼	109	70 - 130
1,2,3-Trichloropropane	ND		0.0291	0.03047		mg/Kg	☼	105	70 - 130
1,2,4-Trimethylbenzene	ND		0.0291	0.02837		mg/Kg	☼	97	70 - 130
1,3,5-Trimethylbenzene	ND		0.0291	0.02883		mg/Kg	☼	99	70 - 130
Vinyl chloride	ND		0.0291	0.03041		mg/Kg	☼	104	70 - 130
m,p-Xylene	ND		0.0583	0.06447		mg/Kg	☼	111	70 - 130
o-Xylene	ND		0.0291	0.02944		mg/Kg	☼	101	70 - 130
Tetrahydrofuran	ND		0.0291	0.02582		mg/Kg	☼	89	70 - 130
Ethyl ether	ND		0.0291	0.02588		mg/Kg	☼	89	70 - 130
Tert-amyl methyl ether	ND		0.0291	0.02577		mg/Kg	☼	88	70 - 130
Ethyl tert-butyl ether	ND		0.0291	0.02426		mg/Kg	☼	83	70 - 130
di-Isopropyl ether	ND		0.0291	0.02432		mg/Kg	☼	83	70 - 130
tert-Butanol	ND		0.291	0.2901		mg/Kg	☼	100	70 - 130
1,4-Dioxane	ND		0.291	0.2697		mg/Kg	☼	93	70 - 130
trans-1,4-Dichloro-2-butene	ND		0.0291	0.03266	J	mg/Kg	☼	112	70 - 130
Ethanol	ND		0.583	0.6277	J	mg/Kg	☼	108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0500	0.0274	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Acetone	ND		0.500	0.0630	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Acrylonitrile	ND		0.0500	0.0181	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Benzene	ND		0.0500	0.00800	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromobenzene	ND		0.0500	0.0113	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromochloromethane	ND		0.0500	0.00715	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromodichloromethane	ND		0.0500	0.0129	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromoform	ND		0.0500	0.0107	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Bromomethane	ND		0.100	0.0247	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Butanone (MEK)	ND		0.100	0.0229	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
n-Butylbenzene	ND		0.0500	0.0200	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0500	0.0154	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
tert-Butylbenzene	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Carbon disulfide	ND		0.100	0.0185	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Carbon tetrachloride	ND		0.0500	0.0150	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chlorobenzene	ND		0.0500	0.00605	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloroethane	ND		0.100	0.0223	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloroform	ND		0.0500	0.00590	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Chloromethane	ND		0.100	0.0595	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Chlorotoluene	ND		0.0500	0.0124	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Chlorotoluene	ND		0.0500	0.00905	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dibromo-3-Chloropropane	ND		0.100	0.0198	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dibromochloromethane	ND		0.0500	0.00790	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dibromoethane (EDB)	ND		0.0500	0.0136	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dibromomethane	ND		0.0500	0.00940	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichlorobenzene	ND		0.0500	0.00900	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichlorobenzene	ND		0.0500	0.0125	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,4-Dichlorobenzene	ND		0.0500	0.00895	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Dichlorodifluoromethane (Freon 12)	ND		0.100	0.0655	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloroethane	ND		0.0500	0.0116	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichloroethane	ND		0.0500	0.0131	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloroethene	ND		0.0500	0.0128	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
cis-1,2-Dichloroethene	ND		0.0500	0.0167	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,2-Dichloroethene	ND		0.0500	0.0114	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2-Dichloropropane	ND		0.0500	0.0174	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichloropropane	ND		0.0500	0.0158	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2,2-Dichloropropane	ND		0.0500	0.0132	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1-Dichloropropene	ND		0.0500	0.0153	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
cis-1,3-Dichloropropene	ND		0.0500	0.0118	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,3-Dichloropropene	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethylbenzene	ND		0.0500	0.0105	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Hexachlorobutadiene	ND		0.0500	0.0160	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
2-Hexanone (MBK)	ND		0.100	0.0333	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Isopropylbenzene	ND		0.0500	0.0182	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Isopropyltoluene	ND		0.0500	0.0139	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Methyl tert-butyl ether	ND		0.0500	0.0151	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.100	0.0358	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Methylene Chloride	ND		0.100	0.0427	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Naphthalene	ND		0.0500	0.0145	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
N-Propylbenzene	ND		0.0500	0.0125	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Styrene	ND		0.0500	0.00660	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,1,2-Tetrachloroethane	ND		0.0500	0.0121	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,2,2-Tetrachloroethane	ND		0.0500	0.0159	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tetrachloroethene	ND		0.0500	0.0158	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Toluene	ND		0.0500	0.00805	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,3-Trichlorobenzene	ND		0.0500	0.0117	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,4-Trichlorobenzene	ND		0.0500	0.00825	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3,5-Trichlorobenzene	ND		0.0500	0.00790	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,1-Trichloroethane	ND		0.0500	0.0121	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,1,2-Trichloroethane	ND		0.0500	0.0155	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20322/3-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0500	0.00855	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Trichlorofluoromethane (Freon 11)	ND		0.0500	0.0226	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,3-Trichloropropane	ND		0.0500	0.0231	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,2,4-Trimethylbenzene	ND		0.0500	0.0127	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3,5-Trimethylbenzene	ND		0.0500	0.0105	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Vinyl chloride	ND		0.0500	0.0246	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
m,p-Xylene	ND		0.0500	0.0294	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
o-Xylene	ND		0.0500	0.0154	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tetrahydrofuran	ND		0.100	0.0366	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethyl ether	ND		0.0500	0.0136	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Tert-amyl methyl ether	ND		0.0500	0.0277	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethyl tert-butyl ether	ND		0.0500	0.0139	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
di-Isopropyl ether	ND		0.0500	0.0162	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
tert-Butanol	ND		1.00	0.710	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,4-Dioxane	ND		1.00	0.295	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
trans-1,4-Dichloro-2-butene	ND		0.250	0.0330	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Ethanol	ND		10.0	0.860	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
1,3-Dichloropropene, Total	ND		0.0500	0.0204	mg/Kg		03/07/23 09:49	03/07/23 13:22	1
Xylenes, Total	ND		0.150	0.150	mg/Kg		03/07/23 09:49	03/07/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/07/23 09:49*	*03/07/23 13:22*	*1*

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.00	1.106		mg/Kg		111	70 - 130
Acetone	1.00	1.153		mg/Kg		115	70 - 130
Acrylonitrile	1.00	1.064		mg/Kg		106	70 - 130
Benzene	1.00	1.109		mg/Kg		111	70 - 130
Bromobenzene	1.00	1.042		mg/Kg		104	70 - 130
Bromochloromethane	1.00	1.120		mg/Kg		112	70 - 130
Bromodichloromethane	1.00	1.066		mg/Kg		107	70 - 130
Bromoform	1.00	1.084		mg/Kg		108	70 - 130
Bromomethane	1.00	0.9995		mg/Kg		100	70 - 130
2-Butanone (MEK)	1.00	1.154		mg/Kg		115	70 - 130
n-Butylbenzene	1.00	1.009		mg/Kg		101	70 - 130
sec-Butylbenzene	1.00	1.145		mg/Kg		115	70 - 130
tert-Butylbenzene	1.00	1.114		mg/Kg		111	70 - 130
Carbon disulfide	1.00	1.085		mg/Kg		108	70 - 130
Carbon tetrachloride	1.00	1.114		mg/Kg		111	70 - 130
Chlorobenzene	1.00	0.9928		mg/Kg		99	70 - 130
Chloroethane	1.00	1.056		mg/Kg		106	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	1.00	1.037		mg/Kg		104	70 - 130
Chloromethane	1.00	1.015		mg/Kg		102	70 - 130
2-Chlorotoluene	1.00	1.081		mg/Kg		108	70 - 130
4-Chlorotoluene	1.00	1.127		mg/Kg		113	70 - 130
1,2-Dibromo-3-Chloropropane	1.00	0.9423		mg/Kg		94	70 - 130
Dibromochloromethane	1.00	1.076		mg/Kg		108	70 - 130
1,2-Dibromoethane (EDB)	1.00	1.121		mg/Kg		112	70 - 130
Dibromomethane	1.00	1.077		mg/Kg		108	70 - 130
1,2-Dichlorobenzene	1.00	1.065		mg/Kg		107	70 - 130
1,3-Dichlorobenzene	1.00	1.100		mg/Kg		110	70 - 130
1,4-Dichlorobenzene	1.00	0.9312		mg/Kg		93	70 - 130
Dichlorodifluoromethane (Freon 12)	1.00	0.9875		mg/Kg		99	70 - 130
1,1-Dichloroethane	1.00	1.094		mg/Kg		109	70 - 130
1,2-Dichloroethane	1.00	1.066		mg/Kg		107	70 - 130
1,1-Dichloroethene	1.00	1.092		mg/Kg		109	70 - 130
cis-1,2-Dichloroethene	1.00	1.075		mg/Kg		108	70 - 130
trans-1,2-Dichloroethene	1.00	1.091		mg/Kg		109	70 - 130
1,2-Dichloropropane	1.00	1.070		mg/Kg		107	70 - 130
1,3-Dichloropropane	1.00	1.104		mg/Kg		110	70 - 130
2,2-Dichloropropane	1.00	1.099		mg/Kg		110	70 - 130
1,1-Dichloropropene	1.00	1.153		mg/Kg		115	70 - 130
cis-1,3-Dichloropropene	1.00	1.126		mg/Kg		113	70 - 130
trans-1,3-Dichloropropene	1.00	1.190		mg/Kg		119	70 - 130
Ethylbenzene	1.00	1.063		mg/Kg		106	70 - 130
Hexachlorobutadiene	1.00	1.005		mg/Kg		101	70 - 130
2-Hexanone (MBK)	1.00	1.097		mg/Kg		110	70 - 130
Isopropylbenzene	1.00	1.124		mg/Kg		112	70 - 130
4-Isopropyltoluene	1.00	0.9770		mg/Kg		98	70 - 130
Methyl tert-butyl ether	1.00	1.144		mg/Kg		114	70 - 130
4-Methyl-2-pentanone (MIBK)	1.00	1.125		mg/Kg		112	70 - 130
Methylene Chloride	1.00	1.055		mg/Kg		106	70 - 130
Naphthalene	1.00	0.9102		mg/Kg		91	70 - 130
N-Propylbenzene	1.00	1.120		mg/Kg		112	70 - 130
Styrene	1.00	0.9700		mg/Kg		97	70 - 130
1,1,1,2-Tetrachloroethane	1.00	1.032		mg/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	1.00	1.013		mg/Kg		101	70 - 130
Tetrachloroethene	1.00	1.133		mg/Kg		113	70 - 130
Toluene	1.00	1.088		mg/Kg		109	70 - 130
1,2,3-Trichlorobenzene	1.00	1.092		mg/Kg		109	70 - 130
1,2,4-Trichlorobenzene	1.00	1.121		mg/Kg		112	70 - 130
1,3,5-Trichlorobenzene	1.00	1.123		mg/Kg		112	70 - 130
1,1,1-Trichloroethane	1.00	1.076		mg/Kg		108	70 - 130
1,1,2-Trichloroethane	1.00	1.073		mg/Kg		107	70 - 130
Trichloroethene	1.00	1.064		mg/Kg		106	70 - 130
Trichlorofluoromethane (Freon 11)	1.00	1.016		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	1.00	1.011		mg/Kg		101	70 - 130
1,2,4-Trimethylbenzene	1.00	1.013		mg/Kg		101	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20322/1-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,3,5-Trimethylbenzene			1.00	1.015		mg/Kg		101	70 - 130		
Vinyl chloride			1.00	0.8972		mg/Kg		90	70 - 130		
m,p-Xylene			1.00	1.135		mg/Kg		113	70 - 130		
o-Xylene			1.00	1.143		mg/Kg		114	70 - 130		
Tetrahydrofuran			1.00	0.9394		mg/Kg		94	70 - 130		
Ethyl ether			1.00	1.106		mg/Kg		111	70 - 130		
Tert-amyl methyl ether			1.00	1.121		mg/Kg		112	70 - 130		
Ethyl tert-butyl ether			1.00	1.144		mg/Kg		114	70 - 130		
di-Isopropyl ether			1.00	1.118		mg/Kg		112	70 - 130		
tert-Butanol			10.0	12.32		mg/Kg		123	70 - 130		
1,4-Dioxane			10.0	12.80		mg/Kg		128	70 - 130		
trans-1,4-Dichloro-2-butene			1.00	1.146		mg/Kg		115	70 - 130		
Ethanol			20.0	21.35		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			1.00	1.091		mg/Kg		109	70 - 130	1	30
Acetone			1.00	1.124		mg/Kg		112	70 - 130	2	30
Acrylonitrile			1.00	1.047		mg/Kg		105	70 - 130	2	30
Benzene			1.00	1.102		mg/Kg		110	70 - 130	1	30
Bromobenzene			1.00	1.044		mg/Kg		104	70 - 130	0	30
Bromochloromethane			1.00	1.139		mg/Kg		114	70 - 130	2	30
Bromodichloromethane			1.00	1.065		mg/Kg		107	70 - 130	0	30
Bromoform			1.00	1.073		mg/Kg		107	70 - 130	1	30
Bromomethane			1.00	1.013		mg/Kg		101	70 - 130	1	30
2-Butanone (MEK)			1.00	1.183		mg/Kg		118	70 - 130	2	30
n-Butylbenzene			1.00	0.9879		mg/Kg		99	70 - 130	2	30
sec-Butylbenzene			1.00	1.120		mg/Kg		112	70 - 130	2	30
tert-Butylbenzene			1.00	1.116		mg/Kg		112	70 - 130	0	30
Carbon disulfide			1.00	1.082		mg/Kg		108	70 - 130	0	30
Carbon tetrachloride			1.00	1.109		mg/Kg		111	70 - 130	0	30
Chlorobenzene			1.00	0.9760		mg/Kg		98	70 - 130	2	30
Chloroethane			1.00	1.061		mg/Kg		106	70 - 130	0	30
Chloroform			1.00	1.036		mg/Kg		104	70 - 130	0	30
Chloromethane			1.00	1.009		mg/Kg		101	70 - 130	1	30
2-Chlorotoluene			1.00	1.082		mg/Kg		108	70 - 130	0	30
4-Chlorotoluene			1.00	1.106		mg/Kg		111	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			1.00	0.9246		mg/Kg		92	70 - 130	2	30
Dibromochloromethane			1.00	1.085		mg/Kg		109	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			1.00	1.140		mg/Kg		114	70 - 130	2	30
Dibromomethane			1.00	1.087		mg/Kg		109	70 - 130	1	30
1,2-Dichlorobenzene			1.00	1.043		mg/Kg		104	70 - 130	2	30
1,3-Dichlorobenzene			1.00	1.088		mg/Kg		109	70 - 130	1	30
1,4-Dichlorobenzene			1.00	0.9230		mg/Kg		92	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)			1.00	0.9821		mg/Kg		98	70 - 130	1	30
1,1-Dichloroethane			1.00	1.092		mg/Kg		109	70 - 130	0	30
1,2-Dichloroethane			1.00	1.077		mg/Kg		108	70 - 130	1	30
1,1-Dichloroethene			1.00	1.090		mg/Kg		109	70 - 130	0	30
cis-1,2-Dichloroethene			1.00	1.102		mg/Kg		110	70 - 130	2	30
trans-1,2-Dichloroethene			1.00	1.112		mg/Kg		111	70 - 130	2	30
1,2-Dichloropropane			1.00	1.089		mg/Kg		109	70 - 130	2	30
1,3-Dichloropropane			1.00	1.118		mg/Kg		112	70 - 130	1	30
2,2-Dichloropropane			1.00	1.094		mg/Kg		109	70 - 130	0	30
1,1-Dichloropropene			1.00	1.148		mg/Kg		115	70 - 130	0	30
cis-1,3-Dichloropropene			1.00	1.154		mg/Kg		115	70 - 130	2	30
trans-1,3-Dichloropropene			1.00	1.211		mg/Kg		121	70 - 130	2	30
Ethylbenzene			1.00	1.036		mg/Kg		104	70 - 130	3	30
Hexachlorobutadiene			1.00	0.9825		mg/Kg		98	70 - 130	2	30
2-Hexanone (MBK)			1.00	1.089		mg/Kg		109	70 - 130	1	30
Isopropylbenzene			1.00	1.114		mg/Kg		111	70 - 130	1	30
4-Isopropyltoluene			1.00	0.9505		mg/Kg		95	70 - 130	3	30
Methyl tert-butyl ether			1.00	1.174		mg/Kg		117	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)			1.00	1.132		mg/Kg		113	70 - 130	1	30
Methylene Chloride			1.00	1.061		mg/Kg		106	70 - 130	1	30
Naphthalene			1.00	0.8998		mg/Kg		90	70 - 130	1	30
N-Propylbenzene			1.00	1.099		mg/Kg		110	70 - 130	2	30
Styrene			1.00	0.9803		mg/Kg		98	70 - 130	1	30
1,1,1,2-Tetrachloroethane			1.00	1.019		mg/Kg		102	70 - 130	1	30
1,1,2,2-Tetrachloroethane			1.00	0.9997		mg/Kg		100	70 - 130	1	30
Tetrachloroethene			1.00	1.123		mg/Kg		112	70 - 130	1	30
Toluene			1.00	1.072		mg/Kg		107	70 - 130	2	30
1,2,3-Trichlorobenzene			1.00	1.075		mg/Kg		107	70 - 130	2	30
1,2,4-Trichlorobenzene			1.00	1.143		mg/Kg		114	70 - 130	2	30
1,3,5-Trichlorobenzene			1.00	1.124		mg/Kg		112	70 - 130	0	30
1,1,1-Trichloroethane			1.00	1.068		mg/Kg		107	70 - 130	1	30
1,1,2-Trichloroethane			1.00	1.086		mg/Kg		109	70 - 130	1	30
Trichloroethene			1.00	1.071		mg/Kg		107	70 - 130	1	30
Trichlorofluoromethane (Freon 11)			1.00	1.018		mg/Kg		102	70 - 130	0	30
1,2,3-Trichloropropane			1.00	0.9837		mg/Kg		98	70 - 130	3	30
1,2,4-Trimethylbenzene			1.00	0.9967		mg/Kg		100	70 - 130	2	30
1,3,5-Trimethylbenzene			1.00	0.9903		mg/Kg		99	70 - 130	2	30
Vinyl chloride			1.00	0.8813		mg/Kg		88	70 - 130	2	30
m,p-Xylene			1.00	1.109		mg/Kg		111	70 - 130	2	30
o-Xylene			1.00	1.127		mg/Kg		113	70 - 130	1	30
Tetrahydrofuran			1.00	0.9482		mg/Kg		95	70 - 130	1	30
Ethyl ether			1.00	1.112		mg/Kg		111	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20322/2-A
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tert-amyl methyl ether			1.00	1.145		mg/Kg		114	70 - 130	2	30
Ethyl tert-butyl ether			1.00	1.173		mg/Kg		117	70 - 130	3	30
di-Isopropyl ether			1.00	1.156		mg/Kg		116	70 - 130	3	30
tert-Butanol			10.0	12.41		mg/Kg		124	70 - 130	1	30
1,4-Dioxane			10.0	12.68		mg/Kg		127	70 - 130	1	30
trans-1,4-Dichloro-2-butene			1.00	1.136		mg/Kg		114	70 - 130	1	30
Ethanol			20.0	19.71		mg/Kg		99	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.12	1.207		mg/Kg	☼	108	70 - 130
Acetone	ND	F1 F2	1.12	1.483	F1	mg/Kg	☼	132	70 - 130
Acrylonitrile	ND		1.12	1.106		mg/Kg	☼	98	70 - 130
Benzene	ND		1.12	1.254		mg/Kg	☼	112	70 - 130
Bromobenzene	ND		1.12	1.096		mg/Kg	☼	98	70 - 130
Bromochloromethane	ND		1.12	1.253		mg/Kg	☼	112	70 - 130
Bromodichloromethane	ND		1.12	1.264		mg/Kg	☼	113	70 - 130
Bromoform	ND		1.12	1.120		mg/Kg	☼	100	70 - 130
Bromomethane	ND	F1	1.12	0.6812	F1	mg/Kg	☼	61	70 - 130
2-Butanone (MEK)	ND		1.12	1.212		mg/Kg	☼	108	70 - 130
n-Butylbenzene	ND		1.12	1.206		mg/Kg	☼	107	70 - 130
sec-Butylbenzene	ND		1.12	1.234		mg/Kg	☼	110	70 - 130
tert-Butylbenzene	ND		1.12	1.216		mg/Kg	☼	108	70 - 130
Carbon disulfide	ND		1.12	1.112		mg/Kg	☼	99	70 - 130
Carbon tetrachloride	ND		1.12	1.186		mg/Kg	☼	106	70 - 130
Chlorobenzene	ND		1.12	1.172		mg/Kg	☼	104	70 - 130
Chloroethane	ND	F1	1.12	0.2654	F1	mg/Kg	☼	24	70 - 130
Chloroform	ND		1.12	1.156		mg/Kg	☼	103	70 - 130
Chloromethane	ND		1.12	1.210		mg/Kg	☼	108	70 - 130
2-Chlorotoluene	ND		1.12	1.178		mg/Kg	☼	105	70 - 130
4-Chlorotoluene	ND		1.12	1.201		mg/Kg	☼	107	70 - 130
1,2-Dibromo-3-Chloropropane	ND		1.12	0.7903		mg/Kg	☼	70	70 - 130
Dibromochloromethane	ND		1.12	1.244		mg/Kg	☼	111	70 - 130
1,2-Dibromoethane (EDB)	ND		1.12	1.233		mg/Kg	☼	110	70 - 130
Dibromomethane	ND		1.12	1.212		mg/Kg	☼	108	70 - 130
1,2-Dichlorobenzene	ND		1.12	1.170		mg/Kg	☼	104	70 - 130
1,3-Dichlorobenzene	ND		1.12	1.200		mg/Kg	☼	107	70 - 130
1,4-Dichlorobenzene	ND		1.12	1.054		mg/Kg	☼	94	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MS **Client Sample ID: 2023-MW-01-0406'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20323 **Prep Batch: 20322**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane (Freon 12)	ND		1.12	0.8894		mg/Kg	☼	79	70 - 130
1,1-Dichloroethane	ND		1.12	1.291		mg/Kg	☼	115	70 - 130
1,2-Dichloroethane	ND		1.12	1.157		mg/Kg	☼	103	70 - 130
1,1-Dichloroethene	ND		1.12	1.283		mg/Kg	☼	114	70 - 130
cis-1,2-Dichloroethene	ND		1.12	1.277		mg/Kg	☼	114	70 - 130
trans-1,2-Dichloroethene	ND		1.12	1.335		mg/Kg	☼	119	70 - 130
1,2-Dichloropropane	ND		1.12	1.324		mg/Kg	☼	118	70 - 130
1,3-Dichloropropane	ND		1.12	1.166		mg/Kg	☼	104	70 - 130
2,2-Dichloropropane	ND		1.12	1.206		mg/Kg	☼	107	70 - 130
1,1-Dichloropropene	ND		1.12	1.178		mg/Kg	☼	105	70 - 130
cis-1,3-Dichloropropene	ND		1.12	1.242		mg/Kg	☼	111	70 - 130
trans-1,3-Dichloropropene	ND		1.12	1.285		mg/Kg	☼	114	70 - 130
Ethylbenzene	ND		1.12	1.179		mg/Kg	☼	105	70 - 130
Hexachlorobutadiene	ND		1.12	1.130		mg/Kg	☼	101	70 - 130
2-Hexanone (MBK)	ND		1.12	0.9625		mg/Kg	☼	86	70 - 130
Isopropylbenzene	ND		1.12	1.183		mg/Kg	☼	105	70 - 130
4-Isopropyltoluene	ND		1.12	1.027		mg/Kg	☼	91	70 - 130
Methyl tert-butyl ether	ND		1.12	1.164		mg/Kg	☼	104	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		1.12	1.008		mg/Kg	☼	90	70 - 130
Methylene Chloride	ND		1.12	1.195		mg/Kg	☼	106	70 - 130
Naphthalene	ND		1.12	0.8519		mg/Kg	☼	76	70 - 130
N-Propylbenzene	ND		1.12	1.226		mg/Kg	☼	109	70 - 130
Styrene	ND		1.12	1.074		mg/Kg	☼	96	70 - 130
1,1,1,2-Tetrachloroethane	ND		1.12	1.105		mg/Kg	☼	98	70 - 130
1,1,2,2-Tetrachloroethane	ND		1.12	1.063		mg/Kg	☼	95	70 - 130
Tetrachloroethene	ND		1.12	1.255		mg/Kg	☼	112	70 - 130
Toluene	ND		1.12	1.219		mg/Kg	☼	109	70 - 130
1,2,3-Trichlorobenzene	ND		1.12	1.037		mg/Kg	☼	92	70 - 130
1,2,4-Trichlorobenzene	ND		1.12	1.241		mg/Kg	☼	111	70 - 130
1,3,5-Trichlorobenzene	ND		1.12	1.289		mg/Kg	☼	115	70 - 130
1,1,1-Trichloroethane	ND		1.12	1.193		mg/Kg	☼	106	70 - 130
1,1,2-Trichloroethane	ND		1.12	1.270		mg/Kg	☼	113	70 - 130
Trichloroethene	ND		1.12	1.110		mg/Kg	☼	99	70 - 130
Trichlorofluoromethane (Freon 11)	ND	F1 F2	1.12	0.3689	F1	mg/Kg	☼	33	70 - 130
1,2,3-Trichloropropane	ND		1.12	0.9521		mg/Kg	☼	85	70 - 130
1,2,4-Trimethylbenzene	ND		1.12	1.097		mg/Kg	☼	98	70 - 130
1,3,5-Trimethylbenzene	ND		1.12	1.089		mg/Kg	☼	97	70 - 130
Vinyl chloride	ND		1.12	0.9156		mg/Kg	☼	82	70 - 130
m,p-Xylene	ND		2.25	2.669		mg/Kg	☼	119	70 - 130
o-Xylene	ND		1.12	1.279		mg/Kg	☼	114	70 - 130
Tetrahydrofuran	ND		1.12	0.9108		mg/Kg	☼	81	70 - 130
Ethyl ether	ND		1.12	1.129		mg/Kg	☼	101	70 - 130
Tert-amyl methyl ether	ND		1.12	1.184		mg/Kg	☼	105	70 - 130
Ethyl tert-butyl ether	ND		1.12	1.206		mg/Kg	☼	107	70 - 130
di-Isopropyl ether	ND		1.12	1.200		mg/Kg	☼	107	70 - 130
tert-Butanol	ND	F1	11.2	7.662	F1	mg/Kg	☼	68	70 - 130
1,4-Dioxane	ND		11.2	9.516		mg/Kg	☼	85	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,4-Dichloro-2-butene	ND		1.12	1.207		mg/Kg	☼	107	70 - 130
Ethanol	ND	F1	22.5	14.25	F1	mg/Kg	☼	63	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.07	1.078		mg/Kg	☼	101	70 - 130	11	30
Acetone	ND	F1 F2	1.07	1.044	F2	mg/Kg	☼	98	70 - 130	35	30
Acrylonitrile	ND		1.07	1.096		mg/Kg	☼	102	70 - 130	1	30
Benzene	ND		1.07	1.152		mg/Kg	☼	108	70 - 130	8	30
Bromobenzene	ND		1.07	1.032		mg/Kg	☼	96	70 - 130	6	30
Bromochloromethane	ND		1.07	1.146		mg/Kg	☼	107	70 - 130	9	30
Bromodichloromethane	ND		1.07	1.168		mg/Kg	☼	109	70 - 130	8	30
Bromoform	ND		1.07	1.053		mg/Kg	☼	98	70 - 130	6	30
Bromomethane	ND	F1	1.07	0.6560	F1	mg/Kg	☼	61	70 - 130	4	30
2-Butanone (MEK)	ND		1.07	1.207		mg/Kg	☼	113	70 - 130	0	30
n-Butylbenzene	ND		1.07	1.153		mg/Kg	☼	108	70 - 130	5	30
sec-Butylbenzene	ND		1.07	1.158		mg/Kg	☼	108	70 - 130	6	30
tert-Butylbenzene	ND		1.07	1.150		mg/Kg	☼	107	70 - 130	6	30
Carbon disulfide	ND		1.07	1.014		mg/Kg	☼	95	70 - 130	9	30
Carbon tetrachloride	ND		1.07	1.084		mg/Kg	☼	101	70 - 130	9	30
Chlorobenzene	ND		1.07	1.102		mg/Kg	☼	103	70 - 130	6	30
Chloroethane	ND	F1	1.07	0.2146	F1	mg/Kg	☼	20	70 - 130	21	30
Chloroform	ND		1.07	1.063		mg/Kg	☼	99	70 - 130	8	30
Chloromethane	ND		1.07	1.136		mg/Kg	☼	106	70 - 130	6	30
2-Chlorotoluene	ND		1.07	1.113		mg/Kg	☼	104	70 - 130	6	30
4-Chlorotoluene	ND		1.07	1.129		mg/Kg	☼	106	70 - 130	6	30
1,2-Dibromo-3-Chloropropane	ND		1.07	0.7989		mg/Kg	☼	75	70 - 130	1	30
Dibromochloromethane	ND		1.07	1.145		mg/Kg	☼	107	70 - 130	8	30
1,2-Dibromoethane (EDB)	ND		1.07	1.160		mg/Kg	☼	108	70 - 130	6	30
Dibromomethane	ND		1.07	1.110		mg/Kg	☼	104	70 - 130	9	30
1,2-Dichlorobenzene	ND		1.07	1.123		mg/Kg	☼	105	70 - 130	4	30
1,3-Dichlorobenzene	ND		1.07	1.120		mg/Kg	☼	105	70 - 130	7	30
1,4-Dichlorobenzene	ND		1.07	1.007		mg/Kg	☼	94	70 - 130	5	30
Dichlorodifluoromethane (Freon 12)	ND		1.07	0.8034		mg/Kg	☼	75	70 - 130	10	30
1,1-Dichloroethane	ND		1.07	1.164		mg/Kg	☼	109	70 - 130	10	30
1,2-Dichloroethane	ND		1.07	1.048		mg/Kg	☼	98	70 - 130	10	30
1,1-Dichloroethene	ND		1.07	1.184		mg/Kg	☼	111	70 - 130	8	30
cis-1,2-Dichloroethene	ND		1.07	1.202		mg/Kg	☼	112	70 - 130	6	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	ND		1.07	1.252		mg/Kg	☼	117	70 - 130	6	30
1,2-Dichloropropane	ND		1.07	1.226		mg/Kg	☼	115	70 - 130	8	30
1,3-Dichloropropane	ND		1.07	1.083		mg/Kg	☼	101	70 - 130	7	30
2,2-Dichloropropane	ND		1.07	1.110		mg/Kg	☼	104	70 - 130	8	30
1,1-Dichloropropene	ND		1.07	1.085		mg/Kg	☼	101	70 - 130	8	30
cis-1,3-Dichloropropene	ND		1.07	1.166		mg/Kg	☼	109	70 - 130	6	30
trans-1,3-Dichloropropene	ND		1.07	1.199		mg/Kg	☼	112	70 - 130	7	30
Ethylbenzene	ND		1.07	1.103		mg/Kg	☼	103	70 - 130	7	30
Hexachlorobutadiene	ND		1.07	1.082		mg/Kg	☼	101	70 - 130	4	30
2-Hexanone (MBK)	ND		1.07	0.9488		mg/Kg	☼	89	70 - 130	1	30
Isopropylbenzene	ND		1.07	1.134		mg/Kg	☼	106	70 - 130	4	30
4-Isopropyltoluene	ND		1.07	1.008		mg/Kg	☼	94	70 - 130	2	30
Methyl tert-butyl ether	ND		1.07	1.108		mg/Kg	☼	104	70 - 130	5	30
4-Methyl-2-pentanone (MIBK)	ND		1.07	1.005		mg/Kg	☼	94	70 - 130	0	30
Methylene Chloride	ND		1.07	1.094		mg/Kg	☼	102	70 - 130	9	30
Naphthalene	ND		1.07	0.8892		mg/Kg	☼	83	70 - 130	4	30
N-Propylbenzene	ND		1.07	1.149		mg/Kg	☼	107	70 - 130	7	30
Styrene	ND		1.07	1.021		mg/Kg	☼	95	70 - 130	5	30
1,1,1,2-Tetrachloroethane	ND		1.07	1.024		mg/Kg	☼	96	70 - 130	8	30
1,1,2,2-Tetrachloroethane	ND		1.07	1.009		mg/Kg	☼	94	70 - 130	5	30
Tetrachloroethene	ND		1.07	1.173		mg/Kg	☼	110	70 - 130	7	30
Toluene	ND		1.07	1.118		mg/Kg	☼	104	70 - 130	9	30
1,2,3-Trichlorobenzene	ND		1.07	1.049		mg/Kg	☼	98	70 - 130	1	30
1,2,4-Trichlorobenzene	ND		1.07	1.219		mg/Kg	☼	114	70 - 130	2	30
1,3,5-Trichlorobenzene	ND		1.07	1.229		mg/Kg	☼	115	70 - 130	5	30
1,1,1-Trichloroethane	ND		1.07	1.098		mg/Kg	☼	103	70 - 130	8	30
1,1,2-Trichloroethane	ND		1.07	1.169		mg/Kg	☼	109	70 - 130	8	30
Trichloroethene	ND		1.07	1.010		mg/Kg	☼	94	70 - 130	9	30
Trichlorofluoromethane (Freon 11)	ND	F1 F2	1.07	0.2701	F1 F2	mg/Kg	☼	25	70 - 130	31	30
1,2,3-Trichloropropane	ND		1.07	0.9037		mg/Kg	☼	84	70 - 130	5	30
1,2,4-Trimethylbenzene	ND		1.07	1.041		mg/Kg	☼	97	70 - 130	5	30
1,3,5-Trimethylbenzene	ND		1.07	1.030		mg/Kg	☼	96	70 - 130	6	30
Vinyl chloride	ND		1.07	0.8772		mg/Kg	☼	82	70 - 130	4	30
m,p-Xylene	ND		2.14	2.502		mg/Kg	☼	117	70 - 130	6	30
o-Xylene	ND		1.07	1.217		mg/Kg	☼	114	70 - 130	5	30
Tetrahydrofuran	ND		1.07	0.9101		mg/Kg	☼	85	70 - 130	0	30
Ethyl ether	ND		1.07	1.045		mg/Kg	☼	98	70 - 130	8	30
Tert-amyl methyl ether	ND		1.07	1.119		mg/Kg	☼	105	70 - 130	6	30
Ethyl tert-butyl ether	ND		1.07	1.154		mg/Kg	☼	108	70 - 130	4	30
di-Isopropyl ether	ND		1.07	1.127		mg/Kg	☼	105	70 - 130	6	30
tert-Butanol	ND	F1	10.7	7.498		mg/Kg	☼	70	70 - 130	2	30
1,4-Dioxane	ND		10.7	10.59		mg/Kg	☼	99	70 - 130	11	30
trans-1,4-Dichloro-2-butene	ND		1.07	1.114		mg/Kg	☼	104	70 - 130	8	30
Ethanol	ND	F1	21.4	13.37	F1	mg/Kg	☼	62	70 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20323

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20322

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acetone	0.02699	J	0.0500	0.0112	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20327/3-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/07/23 09:52	03/07/23 13:27	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/07/23 09:52	03/07/23 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/07/23 09:52*	*03/07/23 13:27*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01999		mg/Kg		100	70 - 130
Acetone	0.0200	0.01764	J	mg/Kg		88	70 - 130
Acrylonitrile	0.0200	0.01974		mg/Kg		99	70 - 130
Benzene	0.0200	0.02049		mg/Kg		102	70 - 130
Bromobenzene	0.0200	0.01990		mg/Kg		100	70 - 130
Bromochloromethane	0.0200	0.02008		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.01974		mg/Kg		99	70 - 130
Bromoform	0.0200	0.02004		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02232		mg/Kg		112	70 - 130
2-Butanone (MEK)	0.0200	0.01883		mg/Kg		94	70 - 130
n-Butylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
sec-Butylbenzene	0.0200	0.02100		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0200	0.01988		mg/Kg		99	70 - 130
Carbon disulfide	0.0200	0.02084		mg/Kg		104	70 - 130
Carbon tetrachloride	0.0200	0.01948		mg/Kg		97	70 - 130
Chlorobenzene	0.0200	0.02049		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.02218		mg/Kg		111	70 - 130
Chloroform	0.0200	0.02035		mg/Kg		102	70 - 130
Chloromethane	0.0200	0.01937		mg/Kg		97	70 - 130
2-Chlorotoluene	0.0200	0.02091		mg/Kg		105	70 - 130
4-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02062		mg/Kg		103	70 - 130
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02002		mg/Kg		100	70 - 130
Dibromomethane	0.0200	0.01989		mg/Kg		99	70 - 130
1,2-Dichlorobenzene	0.0200	0.02019		mg/Kg		101	70 - 130
1,3-Dichlorobenzene	0.0200	0.02098		mg/Kg		105	70 - 130
1,4-Dichlorobenzene	0.0200	0.02058		mg/Kg		103	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01662		mg/Kg		83	70 - 130
1,1-Dichloroethane	0.0200	0.01992		mg/Kg		100	70 - 130
1,2-Dichloroethane	0.0200	0.01955		mg/Kg		98	70 - 130
1,1-Dichloroethene	0.0200	0.01916		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01938		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.01916		mg/Kg		96	70 - 130
1,3-Dichloropropane	0.0200	0.02057		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01874		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01903		mg/Kg		95	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01846		mg/Kg		92	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01971		mg/Kg		99	70 - 130
Ethylbenzene	0.0200	0.02071		mg/Kg		104	70 - 130
Hexachlorobutadiene	0.0200	0.01850		mg/Kg		93	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01982		mg/Kg		99	70 - 130
4-Isopropyltoluene	0.0200	0.01938		mg/Kg		97	70 - 130
Methyl tert-butyl ether	0.0200	0.01825		mg/Kg		91	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01719		mg/Kg		86	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20327/1-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130
Naphthalene	0.0200	0.02003		mg/Kg		100	70 - 130
N-Propylbenzene	0.0200	0.02091		mg/Kg		105	70 - 130
Styrene	0.0200	0.02054		mg/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02172		mg/Kg		109	70 - 130
Tetrachloroethene	0.0200	0.01869		mg/Kg		93	70 - 130
Toluene	0.0200	0.02058		mg/Kg		103	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01954		mg/Kg		98	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01966		mg/Kg		98	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01991		mg/Kg		100	70 - 130
1,1,1-Trichloroethane	0.0200	0.01933		mg/Kg		97	70 - 130
1,1,2-Trichloroethane	0.0200	0.02138		mg/Kg		107	70 - 130
Trichloroethene	0.0200	0.02068		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01910		mg/Kg		95	70 - 130
1,2,3-Trichloropropane	0.0200	0.02101		mg/Kg		105	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02072		mg/Kg		104	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02044		mg/Kg		102	70 - 130
Vinyl chloride	0.0200	0.01947		mg/Kg		97	70 - 130
m,p-Xylene	0.0200	0.01982		mg/Kg		99	70 - 130
o-Xylene	0.0200	0.01928		mg/Kg		96	70 - 130
Tetrahydrofuran	0.0200	0.01673		mg/Kg		84	70 - 130
Ethyl ether	0.0200	0.01904		mg/Kg		95	70 - 130
Tert-amyl methyl ether	0.0200	0.01763		mg/Kg		88	70 - 130
Ethyl tert-butyl ether	0.0200	0.01748		mg/Kg		87	70 - 130
di-Isopropyl ether	0.0200	0.01755		mg/Kg		88	70 - 130
tert-Butanol	0.200	0.1754		mg/Kg		88	70 - 130
1,4-Dioxane	0.200	0.1699		mg/Kg		85	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02037	J	mg/Kg		102	70 - 130
Ethanol	0.400	0.4083	J	mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02004		mg/Kg		100	70 - 130	0	30
Acetone	0.0200	0.02125	J	mg/Kg		106	70 - 130	19	30
Acrylonitrile	0.0200	0.02073		mg/Kg		104	70 - 130	5	30
Benzene	0.0200	0.02034		mg/Kg		102	70 - 130	1	30
Bromobenzene	0.0200	0.01934		mg/Kg		97	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane			0.0200	0.02001		mg/Kg		100	70 - 130	0	30
Bromodichloromethane			0.0200	0.02007		mg/Kg		100	70 - 130	2	30
Bromoform			0.0200	0.01998		mg/Kg		100	70 - 130	0	30
Bromomethane			0.0200	0.02216		mg/Kg		111	70 - 130	1	30
2-Butanone (MEK)			0.0200	0.02057		mg/Kg		103	70 - 130	9	30
n-Butylbenzene			0.0200	0.01974		mg/Kg		99	70 - 130	0	30
sec-Butylbenzene			0.0200	0.02023		mg/Kg		101	70 - 130	4	30
tert-Butylbenzene			0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Carbon disulfide			0.0200	0.02062		mg/Kg		103	70 - 130	1	30
Carbon tetrachloride			0.0200	0.01930		mg/Kg		96	70 - 130	1	30
Chlorobenzene			0.0200	0.02045		mg/Kg		102	70 - 130	0	30
Chloroethane			0.0200	0.02316		mg/Kg		116	70 - 130	4	30
Chloroform			0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloromethane			0.0200	0.01938		mg/Kg		97	70 - 130	0	30
2-Chlorotoluene			0.0200	0.01922		mg/Kg		96	70 - 130	8	30
4-Chlorotoluene			0.0200	0.02018		mg/Kg		101	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02157		mg/Kg		108	70 - 130	4	30
Dibromochloromethane			0.0200	0.02003		mg/Kg		100	70 - 130	0	30
1,2-Dibromoethane (EDB)			0.0200	0.02050		mg/Kg		103	70 - 130	2	30
Dibromomethane			0.0200	0.02024		mg/Kg		101	70 - 130	2	30
1,2-Dichlorobenzene			0.0200	0.02011		mg/Kg		101	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.02043		mg/Kg		102	70 - 130	3	30
1,4-Dichlorobenzene			0.0200	0.01993		mg/Kg		100	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01643		mg/Kg		82	70 - 130	1	30
1,1-Dichloroethane			0.0200	0.01996		mg/Kg		100	70 - 130	0	30
1,2-Dichloroethane			0.0200	0.01943		mg/Kg		97	70 - 130	1	30
1,1-Dichloroethene			0.0200	0.01925		mg/Kg		96	70 - 130	0	30
cis-1,2-Dichloroethene			0.0200	0.01915		mg/Kg		96	70 - 130	1	30
trans-1,2-Dichloroethene			0.0200	0.01933		mg/Kg		97	70 - 130	0	30
1,2-Dichloropropane			0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3-Dichloropropane			0.0200	0.02026		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane			0.0200	0.01859		mg/Kg		93	70 - 130	1	30
1,1-Dichloropropene			0.0200	0.01904		mg/Kg		95	70 - 130	0	30
cis-1,3-Dichloropropene			0.0200	0.01863		mg/Kg		93	70 - 130	1	30
trans-1,3-Dichloropropene			0.0200	0.02004		mg/Kg		100	70 - 130	2	30
Ethylbenzene			0.0200	0.01993		mg/Kg		100	70 - 130	4	30
Hexachlorobutadiene			0.0200	0.01892		mg/Kg		95	70 - 130	2	30
2-Hexanone (MBK)			0.0200	0.01777		mg/Kg		89	70 - 130	8	30
Isopropylbenzene			0.0200	0.01954		mg/Kg		98	70 - 130	1	30
4-Isopropyltoluene			0.0200	0.01909		mg/Kg		95	70 - 130	2	30
Methyl tert-butyl ether			0.0200	0.01870		mg/Kg		93	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.01816		mg/Kg		91	70 - 130	6	30
Methylene Chloride			0.0200	0.01969		mg/Kg		98	70 - 130	1	30
Naphthalene			0.0200	0.02173		mg/Kg		109	70 - 130	8	30
N-Propylbenzene			0.0200	0.02026		mg/Kg		101	70 - 130	3	30
Styrene			0.0200	0.02016		mg/Kg		101	70 - 130	2	30
1,1,1,2-Tetrachloroethane			0.0200	0.01989		mg/Kg		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane			0.0200	0.02216		mg/Kg		111	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20327/2-A
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20327

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene			0.0200	0.01808		mg/Kg		90	70 - 130	3	30
Toluene			0.0200	0.02056		mg/Kg		103	70 - 130	0	30
1,2,3-Trichlorobenzene			0.0200	0.02039		mg/Kg		102	70 - 130	4	30
1,2,4-Trichlorobenzene			0.0200	0.02030		mg/Kg		101	70 - 130	3	30
1,3,5-Trichlorobenzene			0.0200	0.02008		mg/Kg		100	70 - 130	1	30
1,1,1-Trichloroethane			0.0200	0.01923		mg/Kg		96	70 - 130	1	30
1,1,2-Trichloroethane			0.0200	0.02106		mg/Kg		105	70 - 130	1	30
Trichloroethene			0.0200	0.01959		mg/Kg		98	70 - 130	5	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01868		mg/Kg		93	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02133		mg/Kg		107	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02025		mg/Kg		101	70 - 130	2	30
1,3,5-Trimethylbenzene			0.0200	0.01990		mg/Kg		99	70 - 130	3	30
Vinyl chloride			0.0200	0.01934		mg/Kg		97	70 - 130	1	30
m,p-Xylene			0.0200	0.01933		mg/Kg		97	70 - 130	2	30
o-Xylene			0.0200	0.01913		mg/Kg		96	70 - 130	1	30
Tetrahydrofuran			0.0200	0.01835		mg/Kg		92	70 - 130	9	30
Ethyl ether			0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Tert-amyl methyl ether			0.0200	0.01803		mg/Kg		90	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01797		mg/Kg		90	70 - 130	3	30
di-Isopropyl ether			0.0200	0.01826		mg/Kg		91	70 - 130	4	30
tert-Butanol			0.200	0.1724		mg/Kg		86	70 - 130	2	30
1,4-Dioxane			0.200	0.1765		mg/Kg		88	70 - 130	4	30
trans-1,4-Dichloro-2-butene			0.0200	0.02041	J	mg/Kg		102	70 - 130	0	30
Ethanol			0.400	0.3934	J	mg/Kg		98	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0221	0.02824		mg/Kg	☼	128	70 - 130	10	30
Acetone	ND		0.0221	0.02196	J	mg/Kg	☼	99	70 - 130	25	30
Acrylonitrile	ND		0.0221	0.02668		mg/Kg	☼	121	70 - 130	8	30
Benzene	ND		0.0221	0.02742		mg/Kg	☼	124	70 - 130	16	30
Bromobenzene	ND		0.0221	0.02466		mg/Kg	☼	112	70 - 130	11	30
Bromochloromethane	ND		0.0221	0.02733		mg/Kg	☼	124	70 - 130	11	30
Bromodichloromethane	ND		0.0221	0.02854		mg/Kg	☼	129	70 - 130	16	30
Bromoform	ND		0.0221	0.02756		mg/Kg	☼	125	70 - 130	12	30
Bromomethane	ND		0.0221	0.02499		mg/Kg	☼	113	70 - 130	12	30
2-Butanone (MEK)	ND		0.0221	0.02183	F2	mg/Kg	☼	99	70 - 130	35	30
n-Butylbenzene	ND		0.0221	0.02614		mg/Kg	☼	118	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20328

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	ND		0.0221	0.02616		mg/Kg	☼	118	70 - 130	6	30
tert-Butylbenzene	ND		0.0221	0.02472		mg/Kg	☼	112	70 - 130	11	30
Carbon disulfide	ND		0.0221	0.02703		mg/Kg	☼	122	70 - 130	14	30
Carbon tetrachloride	ND		0.0221	0.02644		mg/Kg	☼	120	70 - 130	15	30
Chlorobenzene	ND		0.0221	0.02974	F1	mg/Kg	☼	135	70 - 130	13	30
Chloroethane	ND		0.0221	0.02940	F1	mg/Kg	☼	133	70 - 130	10	30
Chloroform	ND		0.0221	0.02581		mg/Kg	☼	117	70 - 130	17	30
Chloromethane	ND		0.0221	0.02595		mg/Kg	☼	117	70 - 130	20	30
2-Chlorotoluene	ND		0.0221	0.02577		mg/Kg	☼	117	70 - 130	9	30
4-Chlorotoluene	ND		0.0221	0.02651		mg/Kg	☼	120	70 - 130	10	30
1,2-Dibromo-3-Chloropropane	ND		0.0221	0.02436		mg/Kg	☼	110	70 - 130	8	30
Dibromochloromethane	ND		0.0221	0.02808		mg/Kg	☼	127	70 - 130	14	30
1,2-Dibromoethane (EDB)	ND		0.0221	0.02636		mg/Kg	☼	119	70 - 130	15	30
Dibromomethane	ND		0.0221	0.02772		mg/Kg	☼	125	70 - 130	12	30
1,2-Dichlorobenzene	ND		0.0221	0.02596		mg/Kg	☼	117	70 - 130	10	30
1,3-Dichlorobenzene	ND		0.0221	0.02610		mg/Kg	☼	118	70 - 130	7	30
1,4-Dichlorobenzene	ND		0.0221	0.02635		mg/Kg	☼	119	70 - 130	14	30
Dichlorodifluoromethane (Freon 12)	ND		0.0221	0.01945		mg/Kg	☼	88	70 - 130	16	30
1,1-Dichloroethane	ND		0.0221	0.02675		mg/Kg	☼	121	70 - 130	21	30
1,2-Dichloroethane	ND		0.0221	0.02400		mg/Kg	☼	109	70 - 130	19	30
1,1-Dichloroethene	ND		0.0221	0.02893	F1	mg/Kg	☼	131	70 - 130	9	30
cis-1,2-Dichloroethene	ND		0.0221	0.02683		mg/Kg	☼	121	70 - 130	15	30
trans-1,2-Dichloroethene	ND		0.0221	0.02822		mg/Kg	☼	128	70 - 130	15	30
1,2-Dichloropropane	ND		0.0221	0.02818		mg/Kg	☼	127	70 - 130	17	30
1,3-Dichloropropane	ND		0.0221	0.02508		mg/Kg	☼	113	70 - 130	15	30
2,2-Dichloropropane	ND		0.0221	0.02475		mg/Kg	☼	112	70 - 130	17	30
1,1-Dichloropropene	ND		0.0221	0.02368		mg/Kg	☼	107	70 - 130	14	30
cis-1,3-Dichloropropene	ND		0.0221	0.02313		mg/Kg	☼	105	70 - 130	17	30
trans-1,3-Dichloropropene	ND		0.0221	0.02527		mg/Kg	☼	114	70 - 130	17	30
Ethylbenzene	ND		0.0221	0.02864		mg/Kg	☼	130	70 - 130	11	30
Hexachlorobutadiene	ND	F1	0.0221	0.01798		mg/Kg	☼	81	70 - 130	14	30
2-Hexanone (MBK)	ND		0.0221	0.02041		mg/Kg	☼	92	70 - 130	16	30
Isopropylbenzene	ND		0.0221	0.02584		mg/Kg	☼	117	70 - 130	10	30
4-Isopropyltoluene	ND		0.0221	0.02419		mg/Kg	☼	109	70 - 130	8	30
Methyl tert-butyl ether	ND		0.0221	0.02146		mg/Kg	☼	97	70 - 130	16	30
4-Methyl-2-pentanone (MIBK)	ND		0.0221	0.02238		mg/Kg	☼	101	70 - 130	12	30
Methylene Chloride	ND		0.0221	0.02585		mg/Kg	☼	117	70 - 130	20	30
Naphthalene	ND	F1	0.0221	0.01837		mg/Kg	☼	83	70 - 130	2	30
N-Propylbenzene	ND		0.0221	0.02788		mg/Kg	☼	126	70 - 130	9	30
Styrene	ND		0.0221	0.02704		mg/Kg	☼	122	70 - 130	12	30
1,1,1,2-Tetrachloroethane	ND		0.0221	0.02681		mg/Kg	☼	121	70 - 130	11	30
1,1,2,2-Tetrachloroethane	ND		0.0221	0.03162	F1	mg/Kg	☼	143	70 - 130	10	30
Tetrachloroethene	ND		0.0221	0.02563		mg/Kg	☼	116	70 - 130	12	30
Toluene	ND		0.0221	0.02782		mg/Kg	☼	126	70 - 130	16	30
1,2,3-Trichlorobenzene	ND	F1	0.0221	0.01835		mg/Kg	☼	83	70 - 130	7	30
1,2,4-Trichlorobenzene	ND	F1	0.0221	0.01955		mg/Kg	☼	88	70 - 130	12	30
1,3,5-Trichlorobenzene	ND		0.0221	0.02122		mg/Kg	☼	96	70 - 130	2	30
1,1,1-Trichloroethane	ND		0.0221	0.02618		mg/Kg	☼	118	70 - 130	16	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD **Client Sample ID: 2023-SB-15-0002'**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20328 **Prep Batch: 20327**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		0.0221	0.02952	F1	mg/Kg	☼	134	70 - 130	19	30
Trichloroethene	ND		0.0221	0.02589		mg/Kg	☼	117	70 - 130	14	30
Trichlorofluoromethane (Freon 11)	ND		0.0221	0.02839		mg/Kg	☼	128	70 - 130	11	30
1,2,3-Trichloropropane	ND		0.0221	0.02771		mg/Kg	☼	125	70 - 130	9	30
1,2,4-Trimethylbenzene	ND		0.0221	0.02635		mg/Kg	☼	119	70 - 130	7	30
1,3,5-Trimethylbenzene	ND		0.0221	0.02654		mg/Kg	☼	120	70 - 130	8	30
Vinyl chloride	ND		0.0221	0.02658		mg/Kg	☼	120	70 - 130	13	30
m,p-Xylene	ND		0.0442	0.05799	F1	mg/Kg	☼	131	70 - 130	11	30
o-Xylene	ND		0.0221	0.02611		mg/Kg	☼	118	70 - 130	12	30
Tetrahydrofuran	ND		0.0221	0.02149		mg/Kg	☼	97	70 - 130	18	30
Ethyl ether	ND		0.0221	0.02198		mg/Kg	☼	99	70 - 130	16	30
Tert-amyl methyl ether	ND		0.0221	0.02191		mg/Kg	☼	99	70 - 130	16	30
Ethyl tert-butyl ether	ND		0.0221	0.02030		mg/Kg	☼	92	70 - 130	18	30
di-Isopropyl ether	ND		0.0221	0.01989		mg/Kg	☼	90	70 - 130	20	30
tert-Butanol	ND		0.221	0.2583		mg/Kg	☼	117	70 - 130	12	30
1,4-Dioxane	ND		0.221	0.2774		mg/Kg	☼	126	70 - 130	3	30
trans-1,4-Dichloro-2-butene	ND		0.0221	0.02751	J	mg/Kg	☼	124	70 - 130	17	30
Ethanol	ND		0.442	0.5588	J	mg/Kg	☼	126	70 - 130	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20241/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 20349 **Prep Batch: 20241**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/03/23 08:01	03/08/23 12:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20241/1-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Aniline	ND		0.330	0.0253	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/03/23 08:01	03/08/23 12:05	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20241/1-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pentachlorophenol	0.2140	J	0.330	0.135	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Phenol	ND		0.330	0.0680	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/03/23 08:01	03/08/23 12:05	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/03/23 08:01	03/08/23 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
Nitrobenzene-d5 (Surr)	*49*		*30 - 130*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
Phenol-d5 (Surr)	*61*		*15 - 110*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*15 - 110*	*03/03/23 08:01*	*03/08/23 12:05*	*1*
Terphenyl-d14	*74*		*30 - 130*	*03/03/23 08:01*	*03/08/23 12:05*	*1*

Lab Sample ID: LCS 620-20241/2-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9144		mg/Kg		55	40 - 140
1,2,4-Trichlorobenzene	1.67	1.108		mg/Kg		67	40 - 140
1,2-Dichlorobenzene	1.67	1.299		mg/Kg		78	40 - 140
1,3-Dichlorobenzene	1.67	1.332		mg/Kg		80	40 - 140
1,4-Dichlorobenzene	1.67	1.319		mg/Kg		79	40 - 140
1-Methylnaphthalene	1.67	1.522		mg/Kg		91	40 - 140
2,4,5-Trichlorophenol	1.67	1.375		mg/Kg		82	30 - 130
2,4,6-Trichlorophenol	1.67	1.383		mg/Kg		83	30 - 130
2,4-Dichlorophenol	1.67	1.210		mg/Kg		73	30 - 130
2,4-Dimethylphenol	1.67	1.125		mg/Kg		68	30 - 130
2,4-Dinitrophenol	1.67	1.532		mg/Kg		92	30 - 130
2,4-Dinitrotoluene	1.67	1.467		mg/Kg		88	40 - 140
2,6-Dinitrotoluene	1.67	1.473		mg/Kg		88	40 - 140
2-Chloronaphthalene	1.67	1.396		mg/Kg		84	40 - 140
2-Chlorophenol	1.67	1.396		mg/Kg		84	30 - 130
2-Methylnaphthalene	1.67	1.338		mg/Kg		80	40 - 140
2-Methylphenol	1.67	1.363		mg/Kg		82	30 - 130
2-Nitroaniline	1.67	1.547		mg/Kg		93	40 - 140
2-Nitrophenol	1.67	1.320		mg/Kg		79	30 - 130
3 & 4 Methylphenol	1.67	1.307		mg/Kg		78	30 - 130
3,3'-Dichlorobenzidine	1.67	1.724		mg/Kg		103	40 - 140
3-Nitroaniline	1.67	1.127		mg/Kg		68	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.217		mg/Kg		73	30 - 130
4-Bromophenyl phenyl ether	1.67	1.300		mg/Kg		78	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20241/2-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	1.67	1.122		mg/Kg		67	30 - 130
4-Chloroaniline	1.67	0.7149		mg/Kg		43	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.198		mg/Kg		72	40 - 140
4-Nitroaniline	1.67	1.491		mg/Kg		89	40 - 140
4-Nitrophenol	1.67	1.451		mg/Kg		87	30 - 130
Acenaphthene	1.67	1.384		mg/Kg		83	40 - 140
Acenaphthylene	1.67	1.389		mg/Kg		83	40 - 140
Acetophenone	1.67	1.356		mg/Kg		81	40 - 140
Aniline	1.67	0.8637		mg/Kg		52	40 - 140
Anthracene	1.67	1.733		mg/Kg		104	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.344		mg/Kg		81	40 - 140
Benzidine	1.67	0.3701	J *-	mg/Kg		22	40 - 140
Benzo[a]anthracene	1.67	1.623		mg/Kg		97	40 - 140
Benzo[a]pyrene	1.67	1.477		mg/Kg		89	40 - 140
Benzo[b]fluoranthene	1.67	1.710		mg/Kg		103	40 - 140
Benzo[g,h,i]perylene	1.67	1.431		mg/Kg		86	40 - 140
Benzo[k]fluoranthene	1.67	1.286		mg/Kg		77	40 - 140
Benzoic acid	1.67	0.8251		mg/Kg		50	30 - 130
Benzyl alcohol	1.67	0.9626		mg/Kg		58	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.072		mg/Kg		64	40 - 140
Bis(2-chloroethyl)ether	1.67	1.077		mg/Kg		65	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.296		mg/Kg		78	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.996		mg/Kg		120	40 - 140
Butyl benzyl phthalate	1.67	1.808		mg/Kg		108	40 - 140
Carbazole	1.67	1.629		mg/Kg		98	40 - 140
Chrysene	1.67	1.581		mg/Kg		95	40 - 140
Dibenz(a,h)anthracene	1.67	1.398		mg/Kg		84	40 - 140
Dibenzofuran	1.67	1.391		mg/Kg		83	40 - 140
Diethyl phthalate	1.67	1.446		mg/Kg		87	40 - 140
Dimethyl phthalate	1.67	1.556		mg/Kg		93	40 - 140
Di-n-butyl phthalate	1.67	1.899		mg/Kg		114	40 - 140
Di-n-octyl phthalate	1.67	1.988		mg/Kg		119	40 - 140
Fluoranthene	1.67	1.557		mg/Kg		93	40 - 140
Fluorene	1.67	1.297		mg/Kg		78	40 - 140
Hexachlorobenzene	1.67	1.370		mg/Kg		82	40 - 140
Hexachlorobutadiene	1.67	0.8794		mg/Kg		53	40 - 140
Hexachlorocyclopentadiene	1.67	1.228		mg/Kg		74	40 - 140
Hexachloroethane	1.67	1.136		mg/Kg		68	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.320		mg/Kg		79	40 - 140
Isophorone	1.67	0.8208		mg/Kg		49	40 - 140
Naphthalene	1.67	1.214		mg/Kg		73	40 - 140
Nitrobenzene	1.67	1.036		mg/Kg		62	40 - 140
N-Nitrosodimethylamine	1.67	0.8806		mg/Kg		53	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.073		mg/Kg		64	40 - 140
N-Nitrosodiphenylamine	1.67	1.572		mg/Kg		94	40 - 140
Pentachloronitrobenzene	1.67	1.031		mg/Kg		62	40 - 140
Pentachlorophenol	1.67	1.134		mg/Kg		68	30 - 130
Phenanthrene	1.67	1.537		mg/Kg		92	40 - 140
Phenol	1.67	1.163		mg/Kg		70	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20241/2-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20241

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pyrene			1.67	1.622		mg/Kg		97	40 - 140		
Pyridine			1.67	0.7357		mg/Kg		44	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*
Phenol-d5 (Surr)	*76*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*93*		*15 - 110*
Terphenyl-d14	*74*		*30 - 130*

Lab Sample ID: LCSD 620-20241/3-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	0.8776		mg/Kg		53	40 - 140	4	30
1,2,4-Trichlorobenzene			1.67	1.062		mg/Kg		64	40 - 140	4	30
1,2-Dichlorobenzene			1.67	1.244		mg/Kg		75	40 - 140	4	30
1,3-Dichlorobenzene			1.67	1.283		mg/Kg		77	40 - 140	4	30
1,4-Dichlorobenzene			1.67	1.261		mg/Kg		76	40 - 140	5	30
1-Methylnaphthalene			1.67	1.485		mg/Kg		89	40 - 140	2	30
2,4,5-Trichlorophenol			1.67	1.322		mg/Kg		79	30 - 130	4	30
2,4,6-Trichlorophenol			1.67	1.327		mg/Kg		80	30 - 130	4	30
2,4-Dichlorophenol			1.67	1.170		mg/Kg		70	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.081		mg/Kg		65	30 - 130	4	30
2,4-Dinitrophenol			1.67	1.490		mg/Kg		89	30 - 130	3	30
2,4-Dinitrotoluene			1.67	1.407		mg/Kg		84	40 - 140	4	30
2,6-Dinitrotoluene			1.67	1.396		mg/Kg		84	40 - 140	5	30
2-Chloronaphthalene			1.67	1.354		mg/Kg		81	40 - 140	3	30
2-Chlorophenol			1.67	1.361		mg/Kg		82	30 - 130	3	30
2-Methylnaphthalene			1.67	1.268		mg/Kg		76	40 - 140	5	30
2-Methylphenol			1.67	1.303		mg/Kg		78	30 - 130	5	30
2-Nitroaniline			1.67	1.504		mg/Kg		90	40 - 140	3	30
2-Nitrophenol			1.67	1.287		mg/Kg		77	30 - 130	2	30
3 & 4 Methylphenol			1.67	1.258		mg/Kg		76	30 - 130	4	30
3,3'-Dichlorobenzidine			1.67	1.525		mg/Kg		91	40 - 140	12	30
3-Nitroaniline			1.67	1.072		mg/Kg		64	40 - 140	5	30
4,6-Dinitro-2-methylphenol			1.67	1.213		mg/Kg		73	30 - 130	0	30
4-Bromophenyl phenyl ether			1.67	1.221		mg/Kg		73	40 - 140	6	30
4-Chloro-3-methylphenol			1.67	1.054		mg/Kg		63	30 - 130	6	30
4-Chloroaniline			1.67	0.6832		mg/Kg		41	40 - 140	5	30
4-Chlorophenyl phenyl ether			1.67	1.125		mg/Kg		68	40 - 140	6	30
4-Nitroaniline			1.67	1.438		mg/Kg		86	40 - 140	4	30
4-Nitrophenol			1.67	1.382		mg/Kg		83	30 - 130	5	30
Acenaphthene			1.67	1.313		mg/Kg		79	40 - 140	5	30
Acenaphthylene			1.67	1.330		mg/Kg		80	40 - 140	4	30
Acetophenone			1.67	1.291		mg/Kg		77	40 - 140	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20241/3-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline			1.67	0.7961		mg/Kg		48	40 - 140	8	30
Anthracene			1.67	1.582		mg/Kg		95	40 - 140	9	30
Azobenzene/Diphenyldiazene			1.67	1.286		mg/Kg		77	40 - 140	4	30
Benzidine			1.67	0.3581	J *-	mg/Kg		21	40 - 140	3	30
Benzo[a]anthracene			1.67	1.480		mg/Kg		89	40 - 140	9	30
Benzo[a]pyrene			1.67	1.344		mg/Kg		81	40 - 140	9	30
Benzo[b]fluoranthene			1.67	1.432		mg/Kg		86	40 - 140	18	30
Benzo[g,h,i]perylene			1.67	1.330		mg/Kg		80	40 - 140	7	30
Benzo[k]fluoranthene			1.67	1.275		mg/Kg		76	40 - 140	1	30
Benzoic acid			1.67	0.7655		mg/Kg		46	30 - 130	7	30
Benzyl alcohol			1.67	0.9341		mg/Kg		56	40 - 140	3	30
Bis(2-chloroethoxy)methane			1.67	1.021		mg/Kg		61	40 - 140	5	30
Bis(2-chloroethyl)ether			1.67	1.040		mg/Kg		62	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.260		mg/Kg		76	40 - 140	3	30
Bis(2-ethylhexyl) phthalate			1.67	1.779		mg/Kg		107	40 - 140	12	30
Butyl benzyl phthalate			1.67	1.646		mg/Kg		99	40 - 140	9	30
Carbazole			1.67	1.485		mg/Kg		89	40 - 140	9	30
Chrysene			1.67	1.441		mg/Kg		86	40 - 140	9	30
Dibenz(a,h)anthracene			1.67	1.289		mg/Kg		77	40 - 140	8	30
Dibenzofuran			1.67	1.346		mg/Kg		81	40 - 140	3	30
Diethyl phthalate			1.67	1.398		mg/Kg		84	40 - 140	3	30
Dimethyl phthalate			1.67	1.498		mg/Kg		90	40 - 140	4	30
Di-n-butyl phthalate			1.67	1.712		mg/Kg		103	40 - 140	10	30
Di-n-octyl phthalate			1.67	1.802		mg/Kg		108	40 - 140	10	30
Fluoranthene			1.67	1.414		mg/Kg		85	40 - 140	10	30
Fluorene			1.67	1.230		mg/Kg		74	40 - 140	5	30
Hexachlorobenzene			1.67	1.277		mg/Kg		77	40 - 140	7	30
Hexachlorobutadiene			1.67	0.8371		mg/Kg		50	40 - 140	5	30
Hexachlorocyclopentadiene			1.67	1.169		mg/Kg		70	40 - 140	5	30
Hexachloroethane			1.67	1.100		mg/Kg		66	40 - 140	3	30
Indeno[1,2,3-cd]pyrene			1.67	1.225		mg/Kg		74	40 - 140	7	30
Isophorone			1.67	0.7860		mg/Kg		47	40 - 140	4	30
Naphthalene			1.67	1.175		mg/Kg		71	40 - 140	3	30
Nitrobenzene			1.67	1.010		mg/Kg		61	40 - 140	3	30
N-Nitrosodimethylamine			1.67	0.8239		mg/Kg		49	40 - 140	7	30
N-Nitrosodi-n-propylamine			1.67	1.026		mg/Kg		62	40 - 140	4	30
N-Nitrosodiphenylamine			1.67	1.487		mg/Kg		89	40 - 140	6	30
Pentachloronitrobenzene			1.67	0.9488		mg/Kg		57	40 - 140	8	30
Pentachlorophenol			1.67	1.142		mg/Kg		69	30 - 130	1	30
Phenanthrene			1.67	1.411		mg/Kg		85	40 - 140	9	30
Phenol			1.67	1.113		mg/Kg		67	40 - 140	4	30
Pyrene			1.67	1.484		mg/Kg		89	40 - 140	9	30
Pyridine			1.67	0.7359		mg/Kg		44	40 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*88*		*15 - 110*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20241/3-A
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20241

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Phenol-d5 (Surr)	74		15 - 110
2,4,6-Tribromophenol (Surr)	86		15 - 110
Terphenyl-d14	67		30 - 130

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.90	1.262		mg/Kg	☼	66	40 - 140
1,2,4-Trichlorobenzene	ND		1.90	1.394		mg/Kg	☼	73	40 - 140
1,2-Dichlorobenzene	ND		1.90	1.608		mg/Kg	☼	85	40 - 140
1,3-Dichlorobenzene	ND		1.90	1.695		mg/Kg	☼	89	40 - 140
1,4-Dichlorobenzene	ND		1.90	1.671		mg/Kg	☼	88	40 - 140
1-Methylnaphthalene	ND		1.90	2.318		mg/Kg	☼	122	40 - 140
2,4,5-Trichlorophenol	ND		1.90	2.063		mg/Kg	☼	109	30 - 130
2,4,6-Trichlorophenol	ND		1.90	2.088		mg/Kg	☼	110	30 - 130
2,4-Dichlorophenol	ND		1.90	1.735		mg/Kg	☼	91	30 - 130
2,4-Dimethylphenol	ND		1.90	1.602		mg/Kg	☼	84	30 - 130
2,4-Dinitrophenol	ND	F1	1.90	3.637	F1	mg/Kg	☼	191	30 - 130
2,4-Dinitrotoluene	ND		1.90	1.965		mg/Kg	☼	103	40 - 140
2,6-Dinitrotoluene	ND		1.90	1.916		mg/Kg	☼	101	40 - 140
2-Chloronaphthalene	ND		1.90	1.983		mg/Kg	☼	104	40 - 140
2-Chlorophenol	ND		1.90	1.877		mg/Kg	☼	99	30 - 130
2-Methylnaphthalene	ND		1.90	1.789		mg/Kg	☼	94	40 - 140
2-Methylphenol	ND		1.90	1.821		mg/Kg	☼	96	30 - 130
2-Nitroaniline	ND		1.90	2.430		mg/Kg	☼	128	40 - 140
2-Nitrophenol	ND		1.90	1.706		mg/Kg	☼	90	30 - 130
3 & 4 Methylphenol	ND		1.90	1.684		mg/Kg	☼	89	30 - 130
3,3'-Dichlorobenzidine	ND		1.90	2.224		mg/Kg	☼	117	40 - 140
3-Nitroaniline	ND		1.90	1.627		mg/Kg	☼	86	40 - 140
4,6-Dinitro-2-methylphenol	0.341	J F1	1.90	0.9364		mg/Kg	☼	31	30 - 130
4-Bromophenyl phenyl ether	ND		1.90	1.776		mg/Kg	☼	93	40 - 140
4-Chloro-3-methylphenol	ND		1.90	1.533		mg/Kg	☼	81	30 - 130
4-Chloroaniline	ND		1.90	0.8818		mg/Kg	☼	46	40 - 140
4-Chlorophenyl phenyl ether	ND		1.90	1.642		mg/Kg	☼	86	40 - 140
4-Nitroaniline	ND		1.90	2.026		mg/Kg	☼	107	40 - 140
4-Nitrophenol	ND		1.90	2.048		mg/Kg	☼	108	30 - 130
Acenaphthene	ND		1.90	2.005		mg/Kg	☼	105	40 - 140
Acenaphthylene	ND		1.90	1.964		mg/Kg	☼	103	40 - 140
Acetophenone	ND		1.90	1.778		mg/Kg	☼	94	40 - 140
Aniline	ND		1.90	1.019		mg/Kg	☼	54	40 - 140
Anthracene	ND		1.90	2.243		mg/Kg	☼	118	40 - 140
Azobenzene/Diphenyldiazene	ND		1.90	1.849		mg/Kg	☼	97	40 - 140
Benzidine	ND	*- F1	1.90	ND	F1	mg/Kg	☼	0	40 - 140
Benzo[a]anthracene	0.0915	J	1.90	2.032		mg/Kg	☼	102	40 - 140
Benzo[a]pyrene	0.123	J	1.90	1.855		mg/Kg	☼	91	40 - 140
Benzo[b]fluoranthene	ND		1.90	1.811		mg/Kg	☼	95	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	ND		1.90	1.856		mg/Kg	☼	98	40 - 140
Benzo[k]fluoranthene	ND		1.90	1.789		mg/Kg	☼	94	40 - 140
Benzoic acid	ND	F1	1.90	2.922	F1	mg/Kg	☼	154	30 - 130
Benzyl alcohol	ND		1.90	1.248		mg/Kg	☼	66	40 - 140
Bis(2-chloroethoxy)methane	ND		1.90	1.449		mg/Kg	☼	76	40 - 140
Bis(2-chloroethyl)ether	ND		1.90	1.435		mg/Kg	☼	76	40 - 140
bis (2-chloroisopropyl) ether	ND		1.90	1.776		mg/Kg	☼	93	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.90	2.133		mg/Kg	☼	112	40 - 140
Butyl benzyl phthalate	ND		1.90	2.236		mg/Kg	☼	118	40 - 140
Carbazole	ND		1.90	2.120		mg/Kg	☼	112	40 - 140
Chrysene	0.106	J	1.90	2.042		mg/Kg	☼	102	40 - 140
Dibenz(a,h)anthracene	ND		1.90	1.709		mg/Kg	☼	90	40 - 140
Dibenzofuran	ND		1.90	1.942		mg/Kg	☼	102	40 - 140
Diethyl phthalate	ND		1.90	2.099		mg/Kg	☼	110	40 - 140
Dimethyl phthalate	ND		1.90	2.110		mg/Kg	☼	111	40 - 140
Di-n-butyl phthalate	ND		1.90	2.217		mg/Kg	☼	117	40 - 140
Di-n-octyl phthalate	ND		1.90	1.926		mg/Kg	☼	101	40 - 140
Fluoranthene	0.0928	J	1.90	1.957		mg/Kg	☼	98	40 - 140
Fluorene	ND		1.90	1.797		mg/Kg	☼	95	40 - 140
Hexachlorobenzene	ND		1.90	1.818		mg/Kg	☼	96	40 - 140
Hexachlorobutadiene	ND		1.90	1.081		mg/Kg	☼	57	40 - 140
Hexachlorocyclopentadiene	ND	F2 F1	1.90	0.2533	J F1	mg/Kg	☼	13	40 - 140
Hexachloroethane	ND		1.90	0.9769		mg/Kg	☼	51	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.90	1.688		mg/Kg	☼	89	40 - 140
Isophorone	ND		1.90	1.060		mg/Kg	☼	56	40 - 140
Naphthalene	ND		1.90	1.647		mg/Kg	☼	87	40 - 140
Nitrobenzene	ND		1.90	1.320		mg/Kg	☼	69	40 - 140
N-Nitrosodimethylamine	ND		1.90	1.006		mg/Kg	☼	53	40 - 140
N-Nitrosodi-n-propylamine	ND		1.90	1.405		mg/Kg	☼	74	40 - 140
N-Nitrosodiphenylamine	ND		1.90	2.388		mg/Kg	☼	126	40 - 140
Pentachloronitrobenzene	ND		1.90	1.198		mg/Kg	☼	63	40 - 140
Pentachlorophenol	ND		1.90	2.178		mg/Kg	☼	115	30 - 130
Phenanthrene	0.0968	J	1.90	2.131		mg/Kg	☼	107	40 - 140
Phenol	ND		1.90	1.543		mg/Kg	☼	81	40 - 140
Pyrene	0.213		1.90	2.428		mg/Kg	☼	117	40 - 140
Pyridine	ND		1.90	1.073		mg/Kg	☼	56	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*98*		*30 - 130*
2-Fluorophenol (Surr)	*106*		*15 - 110*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*
Phenol-d5 (Surr)	*86*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*126*	*S1+*	*15 - 110*
Terphenyl-d14	*81*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.92	1.280		mg/Kg	☼	67	40 - 140	1	30
1,2,4-Trichlorobenzene	ND		1.92	1.388		mg/Kg	☼	72	40 - 140	0	30
1,2-Dichlorobenzene	ND		1.92	1.593		mg/Kg	☼	83	40 - 140	1	30
1,3-Dichlorobenzene	ND		1.92	1.704		mg/Kg	☼	89	40 - 140	1	30
1,4-Dichlorobenzene	ND		1.92	1.666		mg/Kg	☼	87	40 - 140	0	30
1-Methylnaphthalene	ND		1.92	2.276		mg/Kg	☼	119	40 - 140	2	30
2,4,5-Trichlorophenol	ND		1.92	2.024		mg/Kg	☼	106	30 - 130	2	30
2,4,6-Trichlorophenol	ND		1.92	2.038		mg/Kg	☼	106	30 - 130	2	30
2,4-Dichlorophenol	ND		1.92	1.707		mg/Kg	☼	89	30 - 130	2	30
2,4-Dimethylphenol	ND		1.92	1.618		mg/Kg	☼	84	30 - 130	1	30
2,4-Dinitrophenol	ND	F1	1.92	4.870	F1	mg/Kg	☼	254	30 - 130	29	30
2,4-Dinitrotoluene	ND		1.92	1.862		mg/Kg	☼	97	40 - 140	5	30
2,6-Dinitrotoluene	ND		1.92	1.834		mg/Kg	☼	96	40 - 140	4	30
2-Chloronaphthalene	ND		1.92	1.943		mg/Kg	☼	101	40 - 140	2	30
2-Chlorophenol	ND		1.92	1.840		mg/Kg	☼	96	30 - 130	2	30
2-Methylnaphthalene	ND		1.92	1.783		mg/Kg	☼	93	40 - 140	0	30
2-Methylphenol	ND		1.92	1.782		mg/Kg	☼	93	30 - 130	2	30
2-Nitroaniline	ND		1.92	2.338		mg/Kg	☼	122	40 - 140	4	30
2-Nitrophenol	ND		1.92	1.702		mg/Kg	☼	89	30 - 130	0	30
3 & 4 Methylphenol	ND		1.92	1.665		mg/Kg	☼	87	30 - 130	1	30
3,3'-Dichlorobenzidine	ND		1.92	1.895		mg/Kg	☼	99	40 - 140	16	30
3-Nitroaniline	ND		1.92	1.509		mg/Kg	☼	79	40 - 140	8	30
4,6-Dinitro-2-methylphenol	0.341	J F1	1.92	0.8263	F1	mg/Kg	☼	25	30 - 130	12	30
4-Bromophenyl phenyl ether	ND		1.92	1.804		mg/Kg	☼	94	40 - 140	2	30
4-Chloro-3-methylphenol	ND		1.92	1.465		mg/Kg	☼	76	30 - 130	5	30
4-Chloroaniline	ND		1.92	0.7710		mg/Kg	☼	40	40 - 140	13	30
4-Chlorophenyl phenyl ether	ND		1.92	1.665		mg/Kg	☼	87	40 - 140	1	30
4-Nitroaniline	ND		1.92	2.006		mg/Kg	☼	105	40 - 140	1	30
4-Nitrophenol	ND		1.92	1.982		mg/Kg	☼	103	30 - 130	3	30
Acenaphthene	ND		1.92	1.957		mg/Kg	☼	102	40 - 140	2	30
Acenaphthylene	ND		1.92	1.911		mg/Kg	☼	100	40 - 140	3	30
Acetophenone	ND		1.92	1.778		mg/Kg	☼	93	40 - 140	0	30
Aniline	ND		1.92	0.8565		mg/Kg	☼	45	40 - 140	17	30
Anthracene	ND		1.92	2.307		mg/Kg	☼	120	40 - 140	3	30
Azobenzene/Diphenyldiazene	ND		1.92	1.835		mg/Kg	☼	96	40 - 140	1	30
Benzidine	ND	*- F1	1.92	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Benzo[a]anthracene	0.0915	J	1.92	2.072		mg/Kg	☼	103	40 - 140	2	30
Benzo[a]pyrene	0.123	J	1.92	1.899		mg/Kg	☼	93	40 - 140	2	30
Benzo[b]fluoranthene	ND		1.92	1.882		mg/Kg	☼	98	40 - 140	4	30
Benzo[g,h,i]perylene	ND		1.92	1.908		mg/Kg	☼	100	40 - 140	3	30
Benzo[k]fluoranthene	ND		1.92	1.852		mg/Kg	☼	97	40 - 140	3	30
Benzoic acid	ND	F1	1.92	2.737	F1	mg/Kg	☼	143	30 - 130	7	30
Benzyl alcohol	ND		1.92	1.198		mg/Kg	☼	63	40 - 140	4	30
Bis(2-chloroethoxy)methane	ND		1.92	1.435		mg/Kg	☼	75	40 - 140	1	30
Bis(2-chloroethyl)ether	ND		1.92	1.386		mg/Kg	☼	72	40 - 140	3	30
bis (2-chloroisopropyl) ether	ND		1.92	1.750		mg/Kg	☼	91	40 - 140	1	30
Bis(2-ethylhexyl) phthalate	ND		1.92	2.367		mg/Kg	☼	124	40 - 140	10	30
Butyl benzyl phthalate	ND		1.92	2.293		mg/Kg	☼	120	40 - 140	3	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbazole	ND		1.92	2.069		mg/Kg	☼	108	40 - 140	2	30
Chrysene	0.106	J	1.92	2.138		mg/Kg	☼	106	40 - 140	5	30
Dibenz(a,h)anthracene	ND		1.92	1.788		mg/Kg	☼	93	40 - 140	5	30
Dibenzofuran	ND		1.92	1.912		mg/Kg	☼	100	40 - 140	2	30
Diethyl phthalate	ND		1.92	2.043		mg/Kg	☼	107	40 - 140	3	30
Dimethyl phthalate	ND		1.92	2.040		mg/Kg	☼	106	40 - 140	3	30
Di-n-butyl phthalate	ND		1.92	2.257		mg/Kg	☼	118	40 - 140	2	30
Di-n-octyl phthalate	ND		1.92	2.063		mg/Kg	☼	108	40 - 140	7	30
Fluoranthene	0.0928	J	1.92	2.029		mg/Kg	☼	101	40 - 140	4	30
Fluorene	ND		1.92	1.780		mg/Kg	☼	93	40 - 140	1	30
Hexachlorobenzene	ND		1.92	1.850		mg/Kg	☼	97	40 - 140	2	30
Hexachlorobutadiene	ND		1.92	1.107		mg/Kg	☼	58	40 - 140	2	30
Hexachlorocyclopentadiene	ND	F2 F1	1.92	0.1582	J F2 F1	mg/Kg	☼	8	40 - 140	46	30
Hexachloroethane	ND		1.92	0.9417		mg/Kg	☼	49	40 - 140	4	30
Indeno[1,2,3-cd]pyrene	ND		1.92	1.754		mg/Kg	☼	92	40 - 140	4	30
Isophorone	ND		1.92	1.032		mg/Kg	☼	54	40 - 140	3	30
Naphthalene	ND		1.92	1.649		mg/Kg	☼	86	40 - 140	0	30
Nitrobenzene	ND		1.92	1.323		mg/Kg	☼	69	40 - 140	0	30
N-Nitrosodimethylamine	ND		1.92	0.9837		mg/Kg	☼	51	40 - 140	2	30
N-Nitrosodi-n-propylamine	ND		1.92	1.389		mg/Kg	☼	72	40 - 140	1	30
N-Nitrosodiphenylamine	ND		1.92	2.327		mg/Kg	☼	121	40 - 140	3	30
Pentachloronitrobenzene	ND		1.92	1.199		mg/Kg	☼	63	40 - 140	0	30
Pentachlorophenol	ND		1.92	2.136		mg/Kg	☼	111	30 - 130	2	30
Phenanthrene	0.0968	J	1.92	2.217		mg/Kg	☼	111	40 - 140	4	30
Phenol	ND		1.92	1.508		mg/Kg	☼	79	40 - 140	2	30
Pyrene	0.213		1.92	2.438		mg/Kg	☼	116	40 - 140	0	30
Pyridine	ND		1.92	1.164		mg/Kg	☼	61	40 - 140	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*97*		*30 - 130*
2-Fluorophenol (Surr)	*102*		*15 - 110*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*
Phenol-d5 (Surr)	*86*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*120*	*S1+*	*15 - 110*
Terphenyl-d14	*77*		*30 - 130*

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.73	0.9692		mg/Kg	☼	56	40 - 140
1,2,4-Trichlorobenzene	ND		1.73	1.065		mg/Kg	☼	62	40 - 140
1,2-Dichlorobenzene	ND		1.73	1.254		mg/Kg	☼	73	40 - 140
1,3-Dichlorobenzene	ND		1.73	1.328		mg/Kg	☼	77	40 - 140
1,4-Dichlorobenzene	ND		1.73	1.335		mg/Kg	☼	77	40 - 140
1-Methylnaphthalene	ND		1.73	1.701		mg/Kg	☼	98	40 - 140
2,4,5-Trichlorophenol	ND		1.73	1.574		mg/Kg	☼	91	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	ND		1.73	1.547		mg/Kg	☼	90	30 - 130
2,4-Dichlorophenol	ND		1.73	1.284		mg/Kg	☼	74	30 - 130
2,4-Dimethylphenol	ND		1.73	1.199		mg/Kg	☼	69	30 - 130
2,4-Dinitrophenol	ND		1.73	1.678		mg/Kg	☼	97	30 - 130
2,4-Dinitrotoluene	ND		1.73	1.558		mg/Kg	☼	90	40 - 140
2,6-Dinitrotoluene	ND		1.73	1.404		mg/Kg	☼	81	40 - 140
2-Chloronaphthalene	ND		1.73	1.476		mg/Kg	☼	85	40 - 140
2-Chlorophenol	ND		1.73	1.409		mg/Kg	☼	82	30 - 130
2-Methylnaphthalene	ND		1.73	1.385		mg/Kg	☼	80	40 - 140
2-Methylphenol	ND		1.73	1.355		mg/Kg	☼	78	30 - 130
2-Nitroaniline	ND		1.73	1.796		mg/Kg	☼	104	40 - 140
2-Nitrophenol	ND		1.73	1.421		mg/Kg	☼	82	30 - 130
3 & 4 Methylphenol	ND		1.73	1.241		mg/Kg	☼	72	30 - 130
3,3'-Dichlorobenzidine	ND		1.73	1.585		mg/Kg	☼	92	40 - 140
3-Nitroaniline	ND		1.73	1.202		mg/Kg	☼	70	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.73	1.525		mg/Kg	☼	88	30 - 130
4-Bromophenyl phenyl ether	ND		1.73	1.433		mg/Kg	☼	83	40 - 140
4-Chloro-3-methylphenol	ND		1.73	1.140		mg/Kg	☼	66	30 - 130
4-Chloroaniline	ND	F1	1.73	0.4139	F1	mg/Kg	☼	24	40 - 140
4-Chlorophenyl phenyl ether	ND		1.73	1.294		mg/Kg	☼	75	40 - 140
4-Nitroaniline	ND		1.73	1.451		mg/Kg	☼	84	40 - 140
4-Nitrophenol	ND		1.73	1.615		mg/Kg	☼	93	30 - 130
Acenaphthene	ND		1.73	1.472		mg/Kg	☼	85	40 - 140
Acenaphthylene	ND		1.73	1.344		mg/Kg	☼	78	40 - 140
Acetophenone	ND		1.73	1.359		mg/Kg	☼	79	40 - 140
Aniline	ND	F1	1.73	0.5859	J F1	mg/Kg	☼	34	40 - 140
Anthracene	ND		1.73	1.628		mg/Kg	☼	94	40 - 140
Azobenzene/Diphenyldiazene	ND		1.73	1.416		mg/Kg	☼	82	40 - 140
Benzidine	ND	*- F1	1.73	ND	F1	mg/Kg	☼	0	40 - 140
Benzo[a]anthracene	ND		1.73	1.518		mg/Kg	☼	88	40 - 140
Benzo[a]pyrene	ND		1.73	1.434		mg/Kg	☼	83	40 - 140
Benzo[b]fluoranthene	ND		1.73	1.498		mg/Kg	☼	87	40 - 140
Benzo[g,h,i]perylene	ND		1.73	1.557		mg/Kg	☼	90	40 - 140
Benzo[k]fluoranthene	ND		1.73	1.414		mg/Kg	☼	82	40 - 140
Benzoic acid	ND	F1	1.73	2.795	F1	mg/Kg	☼	162	30 - 130
Benzyl alcohol	ND		1.73	0.9344		mg/Kg	☼	54	40 - 140
Bis(2-chloroethoxy)methane	ND		1.73	1.101		mg/Kg	☼	64	40 - 140
Bis(2-chloroethyl)ether	ND		1.73	1.082		mg/Kg	☼	63	40 - 140
bis (2-chloroisopropyl) ether	ND		1.73	1.415		mg/Kg	☼	82	40 - 140
Bis(2-ethylhexyl) phthalate	0.0999	J	1.73	2.072		mg/Kg	☼	114	40 - 140
Butyl benzyl phthalate	ND		1.73	1.920		mg/Kg	☼	111	40 - 140
Carbazole	ND		1.73	1.564		mg/Kg	☼	91	40 - 140
Chrysene	ND		1.73	1.544		mg/Kg	☼	89	40 - 140
Dibenz(a,h)anthracene	ND		1.73	1.458		mg/Kg	☼	84	40 - 140
Dibenzofuran	ND		1.73	1.455		mg/Kg	☼	84	40 - 140
Diethyl phthalate	ND		1.73	1.596		mg/Kg	☼	92	40 - 140
Dimethyl phthalate	ND		1.73	1.592		mg/Kg	☼	92	40 - 140
Di-n-butyl phthalate	ND		1.73	1.761		mg/Kg	☼	102	40 - 140
Di-n-octyl phthalate	ND		1.73	1.839		mg/Kg	☼	106	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoranthene	ND		1.73	1.388		mg/Kg	☼	80	40 - 140
Fluorene	ND		1.73	1.371		mg/Kg	☼	79	40 - 140
Hexachlorobenzene	ND		1.73	1.505		mg/Kg	☼	87	40 - 140
Hexachlorobutadiene	ND		1.73	0.8801		mg/Kg	☼	51	40 - 140
Hexachlorocyclopentadiene	ND	F1	1.73	0.3846	F1	mg/Kg	☼	22	40 - 140
Hexachloroethane	ND		1.73	0.8805		mg/Kg	☼	51	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.73	1.423		mg/Kg	☼	82	40 - 140
Isophorone	ND		1.73	0.7832		mg/Kg	☼	45	40 - 140
Naphthalene	ND		1.73	1.257		mg/Kg	☼	73	40 - 140
Nitrobenzene	ND		1.73	1.036		mg/Kg	☼	60	40 - 140
N-Nitrosodimethylamine	ND		1.73	0.8474		mg/Kg	☼	49	40 - 140
N-Nitrosodi-n-propylamine	ND		1.73	1.084		mg/Kg	☼	63	40 - 140
N-Nitrosodiphenylamine	ND		1.73	1.802		mg/Kg	☼	104	40 - 140
Pentachloronitrobenzene	ND		1.73	0.9746		mg/Kg	☼	56	40 - 140
Pentachlorophenol	ND		1.73	1.731		mg/Kg	☼	100	30 - 130
Phenanthrene	ND		1.73	1.501		mg/Kg	☼	87	40 - 140
Phenol	ND		1.73	1.162		mg/Kg	☼	67	40 - 140
Pyrene	ND		1.73	1.624		mg/Kg	☼	94	40 - 140
Pyridine	ND		1.73	0.9655		mg/Kg	☼	56	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*
2-Fluorophenol (Surr)	*87*		*15 - 110*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*
Phenol-d5 (Surr)	*73*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*106*		*15 - 110*
Terphenyl-d14	*73*		*30 - 130*

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.69	1.067		mg/Kg	☼	63	40 - 140	10	30
1,2,4-Trichlorobenzene	ND		1.69	1.169		mg/Kg	☼	69	40 - 140	9	30
1,2-Dichlorobenzene	ND		1.69	1.363		mg/Kg	☼	80	40 - 140	8	30
1,3-Dichlorobenzene	ND		1.69	1.478		mg/Kg	☼	87	40 - 140	11	30
1,4-Dichlorobenzene	ND		1.69	1.426		mg/Kg	☼	84	40 - 140	7	30
1-Methylnaphthalene	ND		1.69	1.897		mg/Kg	☼	112	40 - 140	11	30
2,4,5-Trichlorophenol	ND		1.69	1.741		mg/Kg	☼	103	30 - 130	10	30
2,4,6-Trichlorophenol	ND		1.69	1.705		mg/Kg	☼	101	30 - 130	10	30
2,4-Dichlorophenol	ND		1.69	1.418		mg/Kg	☼	84	30 - 130	10	30
2,4-Dimethylphenol	ND		1.69	1.322		mg/Kg	☼	78	30 - 130	10	30
2,4-Dinitrophenol	ND		1.69	1.771		mg/Kg	☼	105	30 - 130	5	30
2,4-Dinitrotoluene	ND		1.69	1.677		mg/Kg	☼	99	40 - 140	7	30
2,6-Dinitrotoluene	ND		1.69	1.595		mg/Kg	☼	94	40 - 140	13	30
2-Chloronaphthalene	ND		1.69	1.645		mg/Kg	☼	97	40 - 140	11	30
2-Chlorophenol	ND		1.69	1.576		mg/Kg	☼	93	30 - 130	11	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene	ND		1.69	1.496		mg/Kg	☼	88	40 - 140	8	30
2-Methylphenol	ND		1.69	1.520		mg/Kg	☼	90	30 - 130	12	30
2-Nitroaniline	ND		1.69	1.987		mg/Kg	☼	117	40 - 140	10	30
2-Nitrophenol	ND		1.69	1.544		mg/Kg	☼	91	30 - 130	8	30
3 & 4 Methylphenol	ND		1.69	1.418		mg/Kg	☼	84	30 - 130	13	30
3,3'-Dichlorobenzidine	ND		1.69	1.662		mg/Kg	☼	98	40 - 140	5	30
3-Nitroaniline	ND		1.69	1.251		mg/Kg	☼	74	40 - 140	4	30
4,6-Dinitro-2-methylphenol	ND		1.69	1.539		mg/Kg	☼	91	30 - 130	1	30
4-Bromophenyl phenyl ether	ND		1.69	1.534		mg/Kg	☼	91	40 - 140	7	30
4-Chloro-3-methylphenol	ND		1.69	1.260		mg/Kg	☼	74	30 - 130	10	30
4-Chloroaniline	ND	F1	1.69	0.5164	F1	mg/Kg	☼	31	40 - 140	22	30
4-Chlorophenyl phenyl ether	ND		1.69	1.424		mg/Kg	☼	84	40 - 140	10	30
4-Nitroaniline	ND		1.69	1.505		mg/Kg	☼	89	40 - 140	4	30
4-Nitrophenol	ND		1.69	1.739		mg/Kg	☼	103	30 - 130	7	30
Acenaphthene	ND		1.69	1.639		mg/Kg	☼	97	40 - 140	11	30
Acenaphthylene	ND		1.69	1.535		mg/Kg	☼	91	40 - 140	13	30
Acetophenone	ND		1.69	1.500		mg/Kg	☼	89	40 - 140	10	30
Aniline	ND	F1	1.69	0.6495	J F1	mg/Kg	☼	38	40 - 140	10	30
Anthracene	ND		1.69	1.785		mg/Kg	☼	105	40 - 140	9	30
Azobenzene/Diphenyldiazene	ND		1.69	1.557		mg/Kg	☼	92	40 - 140	10	30
Benzidine	ND	*- F1	1.69	ND	F1	mg/Kg	☼	0	40 - 140	NC	30
Benzo[a]anthracene	ND		1.69	1.660		mg/Kg	☼	98	40 - 140	9	30
Benzo[a]pyrene	ND		1.69	1.540		mg/Kg	☼	91	40 - 140	7	30
Benzo[b]fluoranthene	ND		1.69	1.643		mg/Kg	☼	97	40 - 140	9	30
Benzo[g,h,i]perylene	ND		1.69	1.616		mg/Kg	☼	95	40 - 140	4	30
Benzo[k]fluoranthene	ND		1.69	1.447		mg/Kg	☼	85	40 - 140	2	30
Benzoic acid	ND	F1	1.69	3.071	F1	mg/Kg	☼	181	30 - 130	9	30
Benzyl alcohol	ND		1.69	1.041		mg/Kg	☼	62	40 - 140	11	30
Bis(2-chloroethoxy)methane	ND		1.69	1.176		mg/Kg	☼	69	40 - 140	7	30
Bis(2-chloroethyl)ether	ND		1.69	1.195		mg/Kg	☼	71	40 - 140	10	30
bis (2-chloroisopropyl) ether	ND		1.69	1.529		mg/Kg	☼	90	40 - 140	8	30
Bis(2-ethylhexyl) phthalate	0.0999	J	1.69	2.223		mg/Kg	☼	125	40 - 140	7	30
Butyl benzyl phthalate	ND		1.69	2.069		mg/Kg	☼	122	40 - 140	7	30
Carbazole	ND		1.69	1.699		mg/Kg	☼	100	40 - 140	8	30
Chrysene	ND		1.69	1.662		mg/Kg	☼	98	40 - 140	7	30
Dibenz(a,h)anthracene	ND		1.69	1.558		mg/Kg	☼	92	40 - 140	7	30
Dibenzofuran	ND		1.69	1.619		mg/Kg	☼	96	40 - 140	11	30
Diethyl phthalate	ND		1.69	1.747		mg/Kg	☼	103	40 - 140	9	30
Dimethyl phthalate	ND		1.69	1.753		mg/Kg	☼	104	40 - 140	10	30
Di-n-butyl phthalate	ND		1.69	1.903		mg/Kg	☼	112	40 - 140	8	30
Di-n-octyl phthalate	ND		1.69	1.974		mg/Kg	☼	117	40 - 140	7	30
Fluoranthene	ND		1.69	1.516		mg/Kg	☼	90	40 - 140	9	30
Fluorene	ND		1.69	1.518		mg/Kg	☼	90	40 - 140	10	30
Hexachlorobenzene	ND		1.69	1.605		mg/Kg	☼	95	40 - 140	6	30
Hexachlorobutadiene	ND		1.69	0.9461		mg/Kg	☼	56	40 - 140	7	30
Hexachlorocyclopentadiene	ND	F1	1.69	0.3729	F1	mg/Kg	☼	22	40 - 140	3	30
Hexachloroethane	ND		1.69	0.9541		mg/Kg	☼	56	40 - 140	8	30
Indeno[1,2,3-cd]pyrene	ND		1.69	1.526		mg/Kg	☼	90	40 - 140	7	30
Isophorone	ND		1.69	0.8771		mg/Kg	☼	52	40 - 140	11	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20349

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	ND		1.69	1.374		mg/Kg	☼	81	40 - 140	9	30
Nitrobenzene	ND		1.69	1.136		mg/Kg	☼	67	40 - 140	9	30
N-Nitrosodimethylamine	ND		1.69	0.9095		mg/Kg	☼	54	40 - 140	7	30
N-Nitrosodi-n-propylamine	ND		1.69	1.204		mg/Kg	☼	71	40 - 140	11	30
N-Nitrosodiphenylamine	ND		1.69	1.923		mg/Kg	☼	114	40 - 140	6	30
Pentachloronitrobenzene	ND		1.69	1.075		mg/Kg	☼	63	40 - 140	10	30
Pentachlorophenol	ND		1.69	1.761		mg/Kg	☼	104	30 - 130	2	30
Phenanthrene	ND		1.69	1.615		mg/Kg	☼	95	40 - 140	7	30
Phenol	ND		1.69	1.263		mg/Kg	☼	75	40 - 140	8	30
Pyrene	ND		1.69	1.804		mg/Kg	☼	107	40 - 140	11	30
Pyridine	ND		1.69	1.002		mg/Kg	☼	59	40 - 140	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*92*		*30 - 130*
2-Fluorophenol (Surr)	*101*		*15 - 110*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*
Phenol-d5 (Surr)	*82*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*112*	*S1+*	*15 - 110*
Terphenyl-d14	*81*		*30 - 130*

Lab Sample ID: MB 620-20399/1-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/09/23 11:00	03/10/23 13:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20399/1-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Aniline	ND		0.330	0.0253	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/09/23 11:00	03/10/23 13:23	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20399/1-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.330	0.0680	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/09/23 11:00	03/10/23 13:23	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/09/23 11:00	03/10/23 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/09/23 11:00*	*03/10/23 13:23*	*1*
Terphenyl-d14	*90*		*30 - 130*	*03/09/23 11:00*	*03/10/23 13:23*	*1*

Lab Sample ID: LCS 620-20399/2-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.8756		mg/Kg		53	40 - 140
1,2,4-Trichlorobenzene	1.67	0.9895		mg/Kg		59	40 - 140
1,2-Dichlorobenzene	1.67	1.175		mg/Kg		71	40 - 140
1,3-Dichlorobenzene	1.67	1.238		mg/Kg		74	40 - 140
1,4-Dichlorobenzene	1.67	1.204		mg/Kg		72	40 - 140
1-Methylnaphthalene	1.67	1.496		mg/Kg		90	40 - 140
2,4,5-Trichlorophenol	1.67	1.315		mg/Kg		79	30 - 130
2,4,6-Trichlorophenol	1.67	1.387		mg/Kg		83	30 - 130
2,4-Dichlorophenol	1.67	1.120		mg/Kg		67	30 - 130
2,4-Dimethylphenol	1.67	1.067		mg/Kg		64	30 - 130
2,4-Dinitrophenol	1.67	1.661		mg/Kg		100	30 - 130
2,4-Dinitrotoluene	1.67	1.556		mg/Kg		93	40 - 140
2,6-Dinitrotoluene	1.67	1.604		mg/Kg		96	40 - 140
2-Chloronaphthalene	1.67	1.324		mg/Kg		79	40 - 140
2-Chlorophenol	1.67	1.322		mg/Kg		79	30 - 130
2-Methylnaphthalene	1.67	1.200		mg/Kg		72	40 - 140
2-Methylphenol	1.67	1.294		mg/Kg		78	30 - 130
2-Nitroaniline	1.67	1.735		mg/Kg		104	40 - 140
2-Nitrophenol	1.67	1.269		mg/Kg		76	30 - 130
3 & 4 Methylphenol	1.67	1.240		mg/Kg		74	30 - 130
3,3'-Dichlorobenzidine	1.67	2.200		mg/Kg		132	40 - 140
3-Nitroaniline	1.67	1.331		mg/Kg		80	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.807		mg/Kg		108	30 - 130
4-Bromophenyl phenyl ether	1.67	1.390		mg/Kg		83	40 - 140
4-Chloro-3-methylphenol	1.67	1.113		mg/Kg		67	30 - 130
4-Chloroaniline	1.67	0.9574		mg/Kg		57	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.186		mg/Kg		71	40 - 140
4-Nitroaniline	1.67	1.739		mg/Kg		104	40 - 140
4-Nitrophenol	1.67	1.433		mg/Kg		86	30 - 130
Acenaphthene	1.67	1.379		mg/Kg		83	40 - 140
Acenaphthylene	1.67	1.424		mg/Kg		85	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20399/2-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	1.67	1.234		mg/Kg		74	40 - 140
Aniline	1.67	1.020		mg/Kg		61	40 - 140
Anthracene	1.67	1.826		mg/Kg		110	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.514		mg/Kg		91	40 - 140
Benzidine	1.67	1.212		mg/Kg		73	40 - 140
Benzo[a]anthracene	1.67	1.773		mg/Kg		106	40 - 140
Benzo[a]pyrene	1.67	1.597		mg/Kg		96	40 - 140
Benzo[b]fluoranthene	1.67	1.963		mg/Kg		118	40 - 140
Benzo[g,h,i]perylene	1.67	1.541		mg/Kg		92	40 - 140
Benzo[k]fluoranthene	1.67	1.370		mg/Kg		82	40 - 140
Benzoic acid	1.67	1.224		mg/Kg		73	30 - 130
Benzyl alcohol	1.67	0.9318		mg/Kg		56	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.055		mg/Kg		63	40 - 140
Bis(2-chloroethyl)ether	1.67	1.131		mg/Kg		68	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.342		mg/Kg		81	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	2.119		mg/Kg		127	40 - 140
Butyl benzyl phthalate	1.67	1.990		mg/Kg		119	40 - 140
Carbazole	1.67	1.788		mg/Kg		107	40 - 140
Chrysene	1.67	1.707		mg/Kg		102	40 - 140
Dibenz(a,h)anthracene	1.67	1.494		mg/Kg		90	40 - 140
Dibenzofuran	1.67	1.387		mg/Kg		83	40 - 140
Diethyl phthalate	1.67	1.505		mg/Kg		90	40 - 140
Dimethyl phthalate	1.67	1.550		mg/Kg		93	40 - 140
Di-n-butyl phthalate	1.67	1.977		mg/Kg		119	40 - 140
Di-n-octyl phthalate	1.67	2.124		mg/Kg		127	40 - 140
Fluoranthene	1.67	1.606		mg/Kg		96	40 - 140
Fluorene	1.67	1.307		mg/Kg		78	40 - 140
Hexachlorobenzene	1.67	1.477		mg/Kg		89	40 - 140
Hexachlorobutadiene	1.67	0.7419		mg/Kg		45	40 - 140
Hexachlorocyclopentadiene	1.67	1.203		mg/Kg		72	40 - 140
Hexachloroethane	1.67	1.039		mg/Kg		62	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.416		mg/Kg		85	40 - 140
Isophorone	1.67	0.7932		mg/Kg		48	40 - 140
Naphthalene	1.67	1.138		mg/Kg		68	40 - 140
Nitrobenzene	1.67	1.014		mg/Kg		61	40 - 140
N-Nitrosodimethylamine	1.67	0.6779		mg/Kg		41	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.030		mg/Kg		62	40 - 140
N-Nitrosodiphenylamine	1.67	1.724		mg/Kg		103	40 - 140
Pentachloronitrobenzene	1.67	1.010		mg/Kg		61	40 - 140
Pentachlorophenol	1.67	1.429		mg/Kg		86	30 - 130
Phenanthrene	1.67	1.648		mg/Kg		99	40 - 140
Phenol	1.67	1.191		mg/Kg		71	40 - 140
Pyrene	1.67	1.889		mg/Kg		113	40 - 140
Pyridine	1.67	0.7988		mg/Kg		48	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*90*		*15 - 110*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20399/2-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20399

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	58		30 - 130
Phenol-d5 (Surr)	77		15 - 110
2,4,6-Tribromophenol (Surr)	103		15 - 110
Terphenyl-d14	87		30 - 130

Lab Sample ID: LCSD 620-20399/3-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20399

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	0.8779		mg/Kg		53	40 - 140	0	30
1,2,4-Trichlorobenzene			1.67	1.023		mg/Kg		61	40 - 140	3	30
1,2-Dichlorobenzene			1.67	1.217		mg/Kg		73	40 - 140	3	30
1,3-Dichlorobenzene			1.67	1.290		mg/Kg		77	40 - 140	4	30
1,4-Dichlorobenzene			1.67	1.257		mg/Kg		75	40 - 140	4	30
1-Methylnaphthalene			1.67	1.527		mg/Kg		92	40 - 140	2	30
2,4,5-Trichlorophenol			1.67	1.258		mg/Kg		75	30 - 130	4	30
2,4,6-Trichlorophenol			1.67	1.337		mg/Kg		80	30 - 130	4	30
2,4-Dichlorophenol			1.67	1.151		mg/Kg		69	30 - 130	3	30
2,4-Dimethylphenol			1.67	1.090		mg/Kg		65	30 - 130	2	30
2,4-Dinitrophenol			1.67	1.435		mg/Kg		86	30 - 130	15	30
2,4-Dinitrotoluene			1.67	1.409		mg/Kg		85	40 - 140	10	30
2,6-Dinitrotoluene			1.67	1.441		mg/Kg		86	40 - 140	11	30
2-Chloronaphthalene			1.67	1.316		mg/Kg		79	40 - 140	1	30
2-Chlorophenol			1.67	1.376		mg/Kg		83	30 - 130	4	30
2-Methylnaphthalene			1.67	1.233		mg/Kg		74	40 - 140	3	30
2-Methylphenol			1.67	1.376		mg/Kg		83	30 - 130	6	30
2-Nitroaniline			1.67	1.607		mg/Kg		96	40 - 140	8	30
2-Nitrophenol			1.67	1.324		mg/Kg		79	30 - 130	4	30
3 & 4 Methylphenol			1.67	1.293		mg/Kg		78	30 - 130	4	30
3,3'-Dichlorobenzidine			1.67	1.879		mg/Kg		113	40 - 140	16	30
3-Nitroaniline			1.67	1.220		mg/Kg		73	40 - 140	9	30
4,6-Dinitro-2-methylphenol			1.67	1.698		mg/Kg		102	30 - 130	6	30
4-Bromophenyl phenyl ether			1.67	1.284		mg/Kg		77	40 - 140	8	30
4-Chloro-3-methylphenol			1.67	1.109		mg/Kg		67	30 - 130	0	30
4-Chloroaniline			1.67	0.9721		mg/Kg		58	40 - 140	2	30
4-Chlorophenyl phenyl ether			1.67	1.105		mg/Kg		66	40 - 140	7	30
4-Nitroaniline			1.67	1.461		mg/Kg		88	40 - 140	17	30
4-Nitrophenol			1.67	1.278		mg/Kg		77	30 - 130	11	30
Acenaphthene			1.67	1.340		mg/Kg		80	40 - 140	3	30
Acenaphthylene			1.67	1.371		mg/Kg		82	40 - 140	4	30
Acetophenone			1.67	1.304		mg/Kg		78	40 - 140	6	30
Aniline			1.67	1.049		mg/Kg		63	40 - 140	3	30
Anthracene			1.67	1.632		mg/Kg		98	40 - 140	11	30
Azobenzene/Diphenyldiazene			1.67	1.285		mg/Kg		77	40 - 140	16	30
Benzidine			1.67	0.8101	*1	mg/Kg		49	40 - 140	40	30
Benzo[a]anthracene			1.67	1.526		mg/Kg		92	40 - 140	15	30
Benzo[a]pyrene			1.67	1.374		mg/Kg		82	40 - 140	15	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20399/3-A
Matrix: Solid
Analysis Batch: 20442

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20399

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[b]fluoranthene			1.67	1.605		mg/Kg		96	40 - 140	20	30
Benzo[g,h,i]perylene			1.67	1.334		mg/Kg		80	40 - 140	14	30
Benzo[k]fluoranthene			1.67	1.240		mg/Kg		74	40 - 140	10	30
Benzoic acid			1.67	1.161		mg/Kg		70	30 - 130	5	30
Benzyl alcohol			1.67	0.9419		mg/Kg		57	40 - 140	1	30
Bis(2-chloroethoxy)methane			1.67	1.094		mg/Kg		66	40 - 140	4	30
Bis(2-chloroethyl)ether			1.67	1.163		mg/Kg		70	40 - 140	3	30
bis (2-chloroisopropyl) ether			1.67	1.406		mg/Kg		84	40 - 140	5	30
Bis(2-ethylhexyl) phthalate			1.67	1.866		mg/Kg		112	40 - 140	13	30
Butyl benzyl phthalate			1.67	1.809		mg/Kg		109	40 - 140	10	30
Carbazole			1.67	1.583		mg/Kg		95	40 - 140	12	30
Chrysene			1.67	1.477		mg/Kg		89	40 - 140	14	30
Dibenz(a,h)anthracene			1.67	1.294		mg/Kg		78	40 - 140	14	30
Dibenzofuran			1.67	1.338		mg/Kg		80	40 - 140	4	30
Diethyl phthalate			1.67	1.377		mg/Kg		83	40 - 140	9	30
Dimethyl phthalate			1.67	1.416		mg/Kg		85	40 - 140	9	30
Di-n-butyl phthalate			1.67	1.766		mg/Kg		106	40 - 140	11	30
Di-n-octyl phthalate			1.67	1.852		mg/Kg		111	40 - 140	14	30
Fluoranthene			1.67	1.452		mg/Kg		87	40 - 140	10	30
Fluorene			1.67	1.226		mg/Kg		74	40 - 140	6	30
Hexachlorobenzene			1.67	1.347		mg/Kg		81	40 - 140	9	30
Hexachlorobutadiene			1.67	0.7820		mg/Kg		47	40 - 140	5	30
Hexachlorocyclopentadiene			1.67	1.194		mg/Kg		72	40 - 140	1	30
Hexachloroethane			1.67	1.083		mg/Kg		65	40 - 140	4	30
Indeno[1,2,3-cd]pyrene			1.67	1.230		mg/Kg		74	40 - 140	14	30
Isophorone			1.67	0.8162		mg/Kg		49	40 - 140	3	30
Naphthalene			1.67	1.193		mg/Kg		72	40 - 140	5	30
Nitrobenzene			1.67	1.046		mg/Kg		63	40 - 140	3	30
N-Nitrosodimethylamine			1.67	0.7245		mg/Kg		43	40 - 140	7	30
N-Nitrosodi-n-propylamine			1.67	1.074		mg/Kg		64	40 - 140	4	30
N-Nitrosodiphenylamine			1.67	1.604		mg/Kg		96	40 - 140	7	30
Pentachloronitrobenzene			1.67	0.9272		mg/Kg		56	40 - 140	9	30
Pentachlorophenol			1.67	1.309		mg/Kg		79	30 - 130	9	30
Phenanthrene			1.67	1.471		mg/Kg		88	40 - 140	11	30
Phenol			1.67	1.251		mg/Kg		75	40 - 140	5	30
Pyrene			1.67	1.676		mg/Kg		101	40 - 140	12	30
Pyridine			1.67	0.7723		mg/Kg		46	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
2-Fluorophenol (Surr)	*88*		*15 - 110*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*
Phenol-d5 (Surr)	*79*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*
Terphenyl-d14	*74*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660379/1-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Naphthalene	0.03935	J	0.0500	0.0340	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/03/23 07:17	03/03/23 08:24	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/03/23 07:17	03/03/23 08:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*103*		*70 - 130*	*03/03/23 07:17*	*03/03/23 08:24*	*1*
a,a,a-Trifluorotoluene (fid)	*105*		*70 - 130*	*03/03/23 07:17*	*03/03/23 08:24*	*1*

Lab Sample ID: LCS 480-660379/2-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.487		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.511		mg/Kg		100	70 - 130
Methyl tert-butyl ether	2.50	2.301		mg/Kg		92	70 - 130
m,p-Xylene	5.00	5.014		mg/Kg		100	70 - 130
Naphthalene	2.50	2.342		mg/Kg		94	70 - 130
o-Xylene	2.50	2.493		mg/Kg		100	70 - 130
Toluene	2.50	2.500		mg/Kg		100	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.595		mg/Kg		101	70 - 130
C9-C10 Aromatics	2.50	2.507		mg/Kg		100	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.565		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-660379/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene	2.50	2.433		mg/Kg		97	70 - 130	3	25
Methyl tert-butyl ether	2.50	2.287		mg/Kg		91	70 - 130	1	25
m,p-Xylene	5.00	4.991		mg/Kg		100	70 - 130	0	25
Naphthalene	2.50	2.314		mg/Kg		93	70 - 130	1	25
o-Xylene	2.50	2.492		mg/Kg		100	70 - 130	0	25
Toluene	2.50	2.479		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)	7.50	7.444		mg/Kg		99	70 - 130	2	25

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660379/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660379

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			2.50	2.449		mg/Kg		98	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.382		mg/Kg		98	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		2.51	2.492		mg/Kg	☼	99	70 - 130
Ethylbenzene	ND		2.51	2.499		mg/Kg	☼	100	70 - 130
Methyl tert-butyl ether	ND		2.51	2.534		mg/Kg	☼	101	70 - 130
m,p-Xylene	ND		5.01	5.054		mg/Kg	☼	101	70 - 130
Naphthalene	0.101	B	2.51	2.298		mg/Kg	☼	88	70 - 130
o-Xylene	ND		2.51	2.501		mg/Kg	☼	100	70 - 130
Toluene	ND		2.51	2.512		mg/Kg	☼	100	70 - 130
C5-C8 Aliphatics (unadjusted)	ND		7.52	7.528		mg/Kg	☼	100	70 - 130
C9-C10 Aromatics	ND		2.51	2.601		mg/Kg	☼	104	70 - 130
C9-C12 Aliphatics (unadjusted)	ND		7.52	8.296		mg/Kg	☼	110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 660379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.60	2.581		mg/Kg	☼	99	70 - 130	4	50
Ethylbenzene	ND		2.60	2.605		mg/Kg	☼	100	70 - 130	4	50
Methyl tert-butyl ether	ND		2.60	2.503		mg/Kg	☼	96	70 - 130	1	50
m,p-Xylene	ND		5.20	5.221		mg/Kg	☼	100	70 - 130	3	50
Naphthalene	0.101	B	2.60	2.607		mg/Kg	☼	96	70 - 130	13	50
o-Xylene	ND		2.60	2.592		mg/Kg	☼	100	70 - 130	4	50
Toluene	ND		2.60	2.612		mg/Kg	☼	100	70 - 130	4	50
C5-C8 Aliphatics (unadjusted)	ND		7.81	7.836		mg/Kg	☼	100	70 - 130	4	50
C9-C10 Aromatics	ND		2.60	2.759		mg/Kg	☼	106	70 - 130	6	50
C9-C12 Aliphatics (unadjusted)	ND		7.81	8.758		mg/Kg	☼	112	70 - 130	5	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 480-660381/1-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660381

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Naphthalene	ND		0.0500	0.0340	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/03/23 07:25	03/04/23 01:28	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/03/23 07:25	03/04/23 01:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*104*		*70 - 130*	*03/03/23 07:25*	*03/04/23 01:28*	*1*
a,a,a-Trifluorotoluene (fid)	*111*		*70 - 130*	*03/03/23 07:25*	*03/04/23 01:28*	*1*

Lab Sample ID: LCS 480-660381/2-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 660381

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.50	2.458		mg/Kg		98	70 - 130		
Ethylbenzene			2.50	2.486		mg/Kg		99	70 - 130		
Methyl tert-butyl ether			2.50	2.225		mg/Kg		89	70 - 130		
m,p-Xylene			5.00	4.947		mg/Kg		99	70 - 130		
Naphthalene			2.50	2.375		mg/Kg		95	70 - 130		
o-Xylene			2.50	2.471		mg/Kg		99	70 - 130		
Toluene			2.50	2.478		mg/Kg		99	70 - 130		
C5-C8 Aliphatics (unadjusted)			7.50	6.951		mg/Kg		93	70 - 130		
C9-C10 Aromatics			2.50	2.343		mg/Kg		94	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	6.930		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-660381/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660381

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.429		mg/Kg		97	70 - 130	1	25
Ethylbenzene			2.50	2.451		mg/Kg		98	70 - 130	1	25
Methyl tert-butyl ether			2.50	2.240		mg/Kg		90	70 - 130	1	25
m,p-Xylene			5.00	4.885		mg/Kg		98	70 - 130	1	25
Naphthalene			2.50	2.401		mg/Kg		96	70 - 130	1	25
o-Xylene			2.50	2.431		mg/Kg		97	70 - 130	2	25
Toluene			2.50	2.448		mg/Kg		98	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	6.794		mg/Kg		91	70 - 130	2	25

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 480-660381/3-A
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 660381

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			2.50	2.270		mg/Kg		91	70 - 130	3	25
C9-C12 Aliphatics (unadjusted)			7.50	6.740		mg/Kg		90	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 660381

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		2.65	2.569		mg/Kg	☼	97	70 - 130
Ethylbenzene	ND		2.65	2.545		mg/Kg	☼	96	70 - 130
Methyl tert-butyl ether	ND		2.65	2.579		mg/Kg	☼	97	70 - 130
m,p-Xylene	ND		5.30	5.187		mg/Kg	☼	98	70 - 130
Naphthalene	0.0376	J	2.65	2.322		mg/Kg	☼	86	70 - 130
o-Xylene	ND		2.65	2.566		mg/Kg	☼	97	70 - 130
Toluene	ND		2.65	2.579		mg/Kg	☼	97	70 - 130
C5-C8 Aliphatics (unadjusted)	ND		7.95	7.406		mg/Kg	☼	93	70 - 130
C9-C10 Aromatics	ND		2.65	2.545		mg/Kg	☼	96	70 - 130
C9-C12 Aliphatics (unadjusted)	ND		7.95	8.025		mg/Kg	☼	101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 660382

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 660381

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		3.89	3.845		mg/Kg	☼	99	70 - 130	40	50
Ethylbenzene	ND		3.89	3.802		mg/Kg	☼	98	70 - 130	40	50
Methyl tert-butyl ether	ND		3.89	3.905		mg/Kg	☼	101	70 - 130	41	50
m,p-Xylene	ND		7.77	7.761		mg/Kg	☼	100	70 - 130	40	50
Naphthalene	0.0376	J	3.89	3.535		mg/Kg	☼	90	70 - 130	41	50
o-Xylene	ND		3.89	3.841		mg/Kg	☼	99	70 - 130	40	50
Toluene	ND		3.89	3.869		mg/Kg	☼	100	70 - 130	40	50
C5-C8 Aliphatics (unadjusted)	ND		11.7	10.97		mg/Kg	☼	94	70 - 130	39	50
C9-C10 Aromatics	ND		3.89	3.791		mg/Kg	☼	98	70 - 130	39	50
C9-C12 Aliphatics (unadjusted)	ND		11.7	11.77		mg/Kg	☼	101	70 - 130	38	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20226/1-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/02/23 12:19	03/06/23 12:11	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/02/23 12:19	03/06/23 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/02/23 12:19*	*03/06/23 12:11*	*1*

Lab Sample ID: LCS 620-20226/2-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20226

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1466		mg/Kg		88	40 - 140		
PCB-1016			0.167	0.1456		mg/Kg		87	40 - 140		
PCB-1260			0.167	0.1873		mg/Kg		112	40 - 140		
PCB-1260			0.167	0.1763		mg/Kg		106	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*30 - 150*
Tetrachloro-m-xylene	*87*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*108*		*30 - 150*

Lab Sample ID: LCSD 620-20226/3-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20226

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1533		mg/Kg		92	40 - 140	4	30
PCB-1016			0.167	0.1530		mg/Kg		92	40 - 140	5	30
PCB-1260			0.167	0.1998		mg/Kg		120	40 - 140	6	30
PCB-1260			0.167	0.1995		mg/Kg		120	40 - 140	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*30 - 150*
Tetrachloro-m-xylene	*86*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10051-1 MS — **Client Sample ID: 2023-MW-01-0406'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20249 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.190	0.2448		mg/Kg	☼	129	40 - 140
PCB-1260	ND	F1	0.190	0.3066	F1	mg/Kg	☼	162	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*30 - 150*
Tetrachloro-m-xylene	*75*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*

Lab Sample ID: 620-10051-1 MSD — **Client Sample ID: 2023-MW-01-0406'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20249 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.191	0.2643		mg/Kg	☼	138	40 - 140	8	30
PCB-1260	ND	F1	0.191	0.3473	F1	mg/Kg	☼	182	40 - 140	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*30 - 150*
Tetrachloro-m-xylene	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*

Lab Sample ID: 620-10051-17 MS — **Client Sample ID: 2023-SB-15-0002'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20363 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.172	0.09290		mg/Kg	☼	54	40 - 140
PCB-1260	ND		0.172	0.1417		mg/Kg	☼	82	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*57*		*30 - 150*
Tetrachloro-m-xylene	*58*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*

Lab Sample ID: 620-10051-17 MSD — **Client Sample ID: 2023-SB-15-0002'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20363 — **Prep Batch: 20226**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.167	0.1193		mg/Kg	☼	71	40 - 140	25	30
PCB-1260	ND		0.167	0.1638		mg/Kg	☼	98	40 - 140	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*63*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 20363

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 20226

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	66		30 - 150
DCB Decachlorobiphenyl (Surr)	68		30 - 150
DCB Decachlorobiphenyl (Surr)	71		30 - 150

Lab Sample ID: MB 620-20230/1-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/02/23 13:19	03/03/23 23:44	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/02/23 13:19	03/03/23 23:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		30 - 150	03/02/23 13:19	03/03/23 23:44	1
Tetrachloro-m-xylene	85		30 - 150	03/02/23 13:19	03/03/23 23:44	1
DCB Decachlorobiphenyl (Surr)	88		30 - 150	03/02/23 13:19	03/03/23 23:44	1
DCB Decachlorobiphenyl (Surr)	93		30 - 150	03/02/23 13:19	03/03/23 23:44	1

Lab Sample ID: LCS 620-20230/2-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20230

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1155		mg/Kg		69	40 - 140		
PCB-1016			0.167	0.1197		mg/Kg		72	40 - 140		
PCB-1260			0.167	0.1439		mg/Kg		86	40 - 140		
PCB-1260			0.167	0.1283		mg/Kg		77	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	71		30 - 150
Tetrachloro-m-xylene	72		30 - 150
DCB Decachlorobiphenyl (Surr)	75		30 - 150
DCB Decachlorobiphenyl (Surr)	83		30 - 150

Lab Sample ID: LCSD 620-20230/3-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20230

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1206		mg/Kg		72	40 - 140	4	30
PCB-1016			0.167	0.1188		mg/Kg		71	40 - 140	1	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20230/3-A
Matrix: Solid
Analysis Batch: 20249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20230

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260			0.167	0.1513		mg/Kg		91	40 - 140	5	30
PCB-1260			0.167	0.1427		mg/Kg		86	40 - 140	11	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*30 - 150*
Tetrachloro-m-xylene	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*

Lab Sample ID: MB 620-20339/1-A
Matrix: Solid
Analysis Batch: 20401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/07/23 15:15	03/09/23 13:32	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/07/23 15:15	03/09/23 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/07/23 15:15*	*03/09/23 13:32*	*1*

Lab Sample ID: LCS 620-20339/2-A
Matrix: Solid
Analysis Batch: 20363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20339

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016			0.167	0.1531		mg/Kg		92	40 - 140
PCB-1016			0.167	0.1518		mg/Kg		91	40 - 140
PCB-1260			0.167	0.1764		mg/Kg		106	40 - 140
PCB-1260			0.167	0.1587		mg/Kg		95	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*30 - 150*
Tetrachloro-m-xylene	*87*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20339/3-A
Matrix: Solid
Analysis Batch: 20363

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20339

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1618		mg/Kg		97	40 - 140	6	30
PCB-1016			0.167	0.1588		mg/Kg		95	40 - 140	5	30
PCB-1260			0.167	0.1959		mg/Kg		118	40 - 140	10	30
PCB-1260			0.167	0.1702		mg/Kg		102	40 - 140	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*30 - 150*
Tetrachloro-m-xylene	*91*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-349822/1-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
HFPODA	ND		2.00	1.00	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
DONA	ND		3.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349822/1-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/03/23 07:13	03/15/23 22:59	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
M2-8:2 FTS	*117*		*15 - 200*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
M2-6:2 FTS	*100*		*10 - 200*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C5 PFHxA	*102*		*10 - 174*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C4 PFHpA	*103*		*10 - 178*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C8 PFOA	*107*		*26 - 159*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C6 PFDA	*111*		*26 - 161*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C7 PFUnA	*113*		*12 - 173*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C2-PFDoDA	*109*		*11 - 166*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C2 PFTeDA	*125*		*10 - 169*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C3 PFBS	*103*		*27 - 179*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C3 PFHxS	*105*		*24 - 171*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C8 PFOS	*104*		*41 - 154*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d3-NMeFOSAA	*113*		*10 - 178*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d5-NEtFOSAA	*109*		*10 - 193*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C8 FOSA	*97*		*14 - 163*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C4 PFBA	*93*		*28 - 153*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C5 PFPeA	*96*		*24 - 161*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d7-N-MeFOSE-M	*89*		*10 - 179*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d3-NMePFOSA	*80*		*10 - 175*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
d5-NEtPFOSA	*79*		*10 - 180*	*03/03/23 07:13*	*03/15/23 22:59*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/03/23 07:13*	*03/15/23 22:59*	*1*

Lab Sample ID: LCS 410-349822/3-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	20.48		ug/Kg		82	59 - 132
Perfluoroheptanoic acid	25.0	20.91		ug/Kg		84	59 - 137
Perfluorooctanoic acid	25.0	21.12		ug/Kg		84	59 - 131
Perfluorononanoic acid	25.0	19.96		ug/Kg		80	61 - 134
Perfluorodecanoic acid	25.0	19.41		ug/Kg		78	56 - 133
Perfluorotridecanoic acid	25.0	21.67		ug/Kg		87	53 - 143
Perfluorotetradecanoic acid	25.0	20.35		ug/Kg		81	62 - 134
Perfluorobutanesulfonic acid	22.1	18.23		ug/Kg		82	54 - 130
Perfluorohexanesulfonic acid	22.8	18.08		ug/Kg		79	59 - 129
Perfluorooctanesulfonic acid	23.1	17.21		ug/Kg		74	61 - 126
NEtFOSAA	25.0	21.60		ug/Kg		86	57 - 127

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349822/3-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	25.0	20.28		ug/Kg		81	60 - 134
10:2 FTS	24.1	19.76		ug/Kg		82	46 - 143
Perfluoropentanesulfonic acid	23.5	20.49		ug/Kg		87	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.71		ug/Kg		83	59 - 132
Perfluorononanesulfonic acid	24.0	18.49		ug/Kg		77	60 - 132
Perfluorodecanesulfonic acid	24.1	17.68		ug/Kg		73	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	16.44		ug/Kg		68	38 - 145
Perfluorooctanesulfonamide	25.0	23.17		ug/Kg		93	47 - 149
Perfluorohexadecanoic acid	25.0	16.79		ug/Kg		67	38 - 147
Perfluorooctadecanoic acid	25.0	19.72		ug/Kg		79	16 - 160
Perfluorobutanoic acid	25.0	19.58		ug/Kg		78	60 - 128
Perfluoropentanoic acid	25.0	20.01		ug/Kg		80	58 - 134
NMeFOSE	25.0	22.19		ug/Kg		89	60 - 130
NMeFOSA	25.0	22.98		ug/Kg		92	60 - 129
NEtFOSE	25.0	22.57		ug/Kg		90	60 - 126
NEtFOSA	25.0	21.64		ug/Kg		87	60 - 123
HFPODA	25.0	19.23		ug/Kg		77	49 - 135
DONA	23.6	19.31		ug/Kg		82	57 - 137
9Cl-PF3ONS	23.3	17.61		ug/Kg		76	62 - 130
11Cl-PF3OUdS	23.3	17.54		ug/Kg		75	55 - 135
Perfluorododecanoic acid	25.0	20.63		ug/Kg		83	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.56		ug/Kg		84	58 - 131
Perfluoroundecanoic acid	25.0	22.05		ug/Kg		88	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.69		ug/Kg		87	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	20.84		ug/Kg		87	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*84*		*10 - 200*
M2-8:2 FTS	*97*		*15 - 200*
M2-6:2 FTS	*93*		*10 - 200*
13C5 PFHxA	*95*		*10 - 174*
13C4 PFHpA	*98*		*10 - 178*
13C8 PFOA	*95*		*26 - 159*
13C9 PFNA	*100*		*26 - 165*
13C6 PFDA	*99*		*26 - 161*
13C7 PFUnA	*95*		*12 - 173*
13C2-PFDoDA	*98*		*11 - 166*
13C2 PFTeDA	*125*		*10 - 169*
13C3 PFBS	*99*		*27 - 179*
13C3 PFHxS	*96*		*24 - 171*
13C8 PFOS	*100*		*41 - 154*
d3-NMeFOSAA	*108*		*10 - 178*
d5-NEtFOSAA	*98*		*10 - 193*
13C8 FOSA	*81*		*14 - 163*
13C4 PFBA	*96*		*28 - 153*
13C5 PFPeA	*96*		*24 - 161*
d7-N-MeFOSE-M	*82*		*10 - 179*
d3-NMePFOSA	*65*		*10 - 175*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349822/3-B
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349822

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d9-N-EtFOSE-M	78		10 - 185
d5-NEtPFOSA	68		10 - 180
13C3 HFPO-DA	89		10 - 169

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		24.5	18.58		ug/Kg	☼	76	59 - 132
Perfluoroheptanoic acid	ND		24.5	20.43		ug/Kg	☼	83	59 - 137
Perfluorooctanoic acid	ND		24.5	21.79		ug/Kg	☼	89	59 - 131
Perfluorononanoic acid	ND		24.5	21.01		ug/Kg	☼	86	61 - 134
Perfluorodecanoic acid	ND		24.5	19.39		ug/Kg	☼	79	56 - 133
Perfluorotridecanoic acid	ND		24.5	22.77		ug/Kg	☼	93	53 - 143
Perfluorotetradecanoic acid	ND		24.5	20.45		ug/Kg	☼	84	62 - 134
Perfluorobutanesulfonic acid	ND		21.7	17.81		ug/Kg	☼	82	54 - 130
Perfluorohexanesulfonic acid	ND		22.3	17.78		ug/Kg	☼	80	59 - 129
Perfluorooctanesulfonic acid	ND		22.6	19.10		ug/Kg	☼	84	61 - 126
NEtFOSAA	ND		24.5	20.38		ug/Kg	☼	83	57 - 127
NMeFOSAA	ND		24.5	23.31		ug/Kg	☼	95	60 - 134
10:2 FTS	ND		23.6	22.12		ug/Kg	☼	94	46 - 143
Perfluoropentanesulfonic acid	ND		23.0	19.42		ug/Kg	☼	85	57 - 133
Perfluoroheptanesulfonic acid	ND		23.3	19.12		ug/Kg	☼	82	59 - 132
Perfluorononanesulfonic acid	ND		23.5	19.64		ug/Kg	☼	84	60 - 132
Perfluorodecanesulfonic acid	ND		23.6	18.83		ug/Kg	☼	80	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		23.7	19.80		ug/Kg	☼	84	38 - 145
Perfluorooctanesulfonamide	ND		24.5	22.20		ug/Kg	☼	91	47 - 149
Perfluorohexadecanoic acid	ND		24.5	21.03		ug/Kg	☼	86	38 - 147
Perfluorooctadecanoic acid	ND		24.5	22.30		ug/Kg	☼	91	16 - 160
Perfluorobutanoic acid	ND		24.5	19.41		ug/Kg	☼	79	60 - 128
Perfluoropentanoic acid	ND		24.5	19.98		ug/Kg	☼	82	58 - 134
NMeFOSE	ND		24.5	22.55		ug/Kg	☼	92	60 - 130
NMeFOSA	ND		24.5	21.62		ug/Kg	☼	88	60 - 129
NEtFOSE	ND		24.5	21.97		ug/Kg	☼	90	60 - 126
NEtFOSA	ND		24.5	21.83		ug/Kg	☼	89	60 - 123
HFPODA	ND		24.5	21.07		ug/Kg	☼	86	49 - 135
DONA	ND		23.1	18.73		ug/Kg	☼	81	57 - 137
9Cl-PF3ONS	ND		22.8	18.71		ug/Kg	☼	82	62 - 130
11Cl-PF3OUdS	ND		22.8	19.18		ug/Kg	☼	84	55 - 135
Perfluorododecanoic acid	ND		24.5	20.32		ug/Kg	☼	83	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		22.9	17.94		ug/Kg	☼	79	58 - 131
Perfluoroundecanoic acid	ND		24.5	19.71		ug/Kg	☼	81	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		23.2	19.09		ug/Kg	☼	82	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		23.4	21.54		ug/Kg	☼	92	55 - 133

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-4:2 FTS	87		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
M2-8:2 FTS	95		15 - 200
M2-6:2 FTS	91		10 - 200
13C5 PFHxA	99		10 - 174
13C4 PFHpA	99		10 - 178
13C8 PFOA	94		26 - 159
13C9 PFNA	95		26 - 165
13C6 PFDA	99		26 - 161
13C7 PFUnA	107		12 - 173
13C2-PFDoDA	98		11 - 166
13C2 PFTeDA	116		10 - 169
13C3 PFBS	105		27 - 179
13C3 PFHxS	106		24 - 171
13C8 PFOS	103		41 - 154
d3-NMeFOSAA	31		10 - 178
d5-NEtFOSAA	37		10 - 193
13C8 FOSA	96		14 - 163
13C4 PFBA	90		28 - 153
13C5 PFPeA	93		24 - 161
d7-N-MeFOSE-M	90		10 - 179
d3-NMePFOSA	79		10 - 175
d9-N-EtFOSE-M	92		10 - 185
d5-NEtPFOSA	79		10 - 180
13C3 HFPO-DA	88		10 - 169

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		24.0	18.46		ug/Kg	☼	77	59 - 132	1	30
Perfluoroheptanoic acid	ND		24.0	20.28		ug/Kg	☼	84	59 - 137	1	30
Perfluorooctanoic acid	ND		24.0	20.81		ug/Kg	☼	87	59 - 131	5	30
Perfluorononanoic acid	ND		24.0	20.39		ug/Kg	☼	85	61 - 134	3	30
Perfluorodecanoic acid	ND		24.0	19.61		ug/Kg	☼	82	56 - 133	1	30
Perfluorotridecanoic acid	ND		24.0	20.50		ug/Kg	☼	85	53 - 143	10	30
Perfluorotetradecanoic acid	ND		24.0	20.48		ug/Kg	☼	85	62 - 134	0	30
Perfluorobutanesulfonic acid	ND		21.3	18.03		ug/Kg	☼	85	54 - 130	1	30
Perfluorohexanesulfonic acid	ND		21.9	17.45		ug/Kg	☼	80	59 - 129	2	30
Perfluorooctanesulfonic acid	ND		22.2	18.64		ug/Kg	☼	84	61 - 126	2	30
NEtFOSAA	ND		24.0	21.33		ug/Kg	☼	89	57 - 127	5	30
NMeFOSAA	ND		24.0	23.69		ug/Kg	☼	99	60 - 134	2	30
10:2 FTS	ND		23.2	19.36		ug/Kg	☼	84	46 - 143	13	30
Perfluoropentanesulfonic acid	ND		22.5	19.95		ug/Kg	☼	89	57 - 133	3	30
Perfluoroheptanesulfonic acid	ND		22.9	18.98		ug/Kg	☼	83	59 - 132	1	30
Perfluorononanesulfonic acid	ND		23.1	18.69		ug/Kg	☼	81	60 - 132	5	30
Perfluorodecanesulfonic acid	ND		23.2	18.27		ug/Kg	☼	79	57 - 132	3	30
Perfluorododecanesulfonic acid (PFDoS)	ND		23.3	18.87		ug/Kg	☼	81	38 - 145	5	30
Perfluorooctanesulfonamide	ND		24.0	21.99		ug/Kg	☼	92	47 - 149	1	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 353950

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 349822

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexadecanoic acid	ND		24.0	22.06		ug/Kg	☼	92	38 - 147	5	30
Perfluorooctadecanoic acid	ND		24.0	23.19		ug/Kg	☼	97	16 - 160	4	30
Perfluorobutanoic acid	ND		24.0	19.32		ug/Kg	☼	80	60 - 128	0	30
Perfluoropentanoic acid	ND		24.0	20.55		ug/Kg	☼	86	58 - 134	3	30
NMeFOSE	ND		24.0	21.51		ug/Kg	☼	90	60 - 130	5	30
NMeFOSA	ND		24.0	21.59		ug/Kg	☼	90	60 - 129	0	30
NEtFOSE	ND		24.0	22.20		ug/Kg	☼	92	60 - 126	1	30
NEtFOSA	ND		24.0	21.80		ug/Kg	☼	91	60 - 123	0	30
HFPODA	ND		24.0	18.62		ug/Kg	☼	78	49 - 135	12	30
DONA	ND		22.7	19.04		ug/Kg	☼	84	57 - 137	2	30
9Cl-PF3ONS	ND		22.3	18.53		ug/Kg	☼	83	62 - 130	1	30
11Cl-PF3OUdS	ND		22.3	19.03		ug/Kg	☼	85	55 - 135	1	30
Perfluorododecanoic acid	ND		24.0	20.03		ug/Kg	☼	83	60 - 135	1	30
4:2 Fluorotelomer sulfonic acid	ND		22.4	18.22		ug/Kg	☼	81	58 - 131	2	30
Perfluoroundecanoic acid	ND		24.0	22.12		ug/Kg	☼	92	60 - 134	12	30
6:2 Fluorotelomer sulfonic acid	ND		22.8	20.54		ug/Kg	☼	90	59 - 135	7	30
8:2 Fluorotelomer sulfonic acid	ND		23.0	19.39		ug/Kg	☼	84	55 - 133	11	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*84*		*10 - 200*
M2-8:2 FTS	*98*		*15 - 200*
M2-6:2 FTS	*87*		*10 - 200*
13C5 PFHxA	*95*		*10 - 174*
13C4 PFHpA	*95*		*10 - 178*
13C8 PFOA	*95*		*26 - 159*
13C9 PFNA	*90*		*26 - 165*
13C6 PFDA	*91*		*26 - 161*
13C7 PFUnA	*94*		*12 - 173*
13C2-PFDoDA	*97*		*11 - 166*
13C2 PFTeDA	*98*		*10 - 169*
13C3 PFBS	*98*		*27 - 179*
13C3 PFHxS	*105*		*24 - 171*
13C8 PFOS	*95*		*41 - 154*
d3-NMeFOSAA	*22*		*10 - 178*
d5-NEtFOSAA	*27*		*10 - 193*
13C8 FOSA	*92*		*14 - 163*
13C4 PFBA	*86*		*28 - 153*
13C5 PFPeA	*85*		*24 - 161*
d7-N-MeFOSE-M	*85*		*10 - 179*
d3-NMePFOSA	*73*		*10 - 175*
d9-N-EtFOSE-M	*85*		*10 - 185*
d5-NEtPFOSA	*73*		*10 - 180*
13C3 HFPO-DA	*93*		*10 - 169*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349825/1-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
HFPODA	ND		2.00	1.00	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
DONA	ND		3.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/03/23 07:14	03/14/23 22:33	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*95*		*10 - 200*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
M2-8:2 FTS	*107*		*15 - 200*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
M2-6:2 FTS	*103*		*10 - 200*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C5 PFHxA	*110*		*10 - 174*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C4 PFHpA	*114*		*10 - 178*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C8 PFOA	*116*		*26 - 159*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C9 PFNA	*112*		*26 - 165*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C6 PFDA	*108*		*26 - 161*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C7 PFUnA	*121*		*12 - 173*	*03/03/23 07:14*	*03/14/23 22:33*	*1*
13C2-PFDoDA	*110*		*11 - 166*	*03/03/23 07:14*	*03/14/23 22:33*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349825/1-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349825

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	124		10 - 169	03/03/23 07:14	03/14/23 22:33	1
13C3 PFBS	117		27 - 179	03/03/23 07:14	03/14/23 22:33	1
13C3 PFHxS	100		24 - 171	03/03/23 07:14	03/14/23 22:33	1
13C8 PFOS	110		41 - 154	03/03/23 07:14	03/14/23 22:33	1
d3-NMeFOSAA	103		10 - 178	03/03/23 07:14	03/14/23 22:33	1
d5-NEtFOSAA	109		10 - 193	03/03/23 07:14	03/14/23 22:33	1
13C8 FOSA	97		14 - 163	03/03/23 07:14	03/14/23 22:33	1
13C4 PFBA	103		28 - 153	03/03/23 07:14	03/14/23 22:33	1
13C5 PFPeA	110		24 - 161	03/03/23 07:14	03/14/23 22:33	1
d7-N-MeFOSE-M	90		10 - 179	03/03/23 07:14	03/14/23 22:33	1
d3-NMePFOSA	69		10 - 175	03/03/23 07:14	03/14/23 22:33	1
d9-N-EtFOSE-M	93		10 - 185	03/03/23 07:14	03/14/23 22:33	1
d5-NEtPFOSA	71		10 - 180	03/03/23 07:14	03/14/23 22:33	1
13C3 HFPO-DA	102		10 - 169	03/03/23 07:14	03/14/23 22:33	1

Lab Sample ID: LCS 410-349825/3-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	18.70		ug/Kg		75	59 - 132
Perfluoroheptanoic acid	25.0	21.31		ug/Kg		85	59 - 137
Perfluorooctanoic acid	25.0	21.00		ug/Kg		84	59 - 131
Perfluorononanoic acid	25.0	21.61		ug/Kg		86	61 - 134
Perfluorodecanoic acid	25.0	18.94		ug/Kg		76	56 - 133
Perfluorotridecanoic acid	25.0	22.04		ug/Kg		88	53 - 143
Perfluorotetradecanoic acid	25.0	19.92		ug/Kg		80	62 - 134
Perfluorobutanesulfonic acid	22.1	18.47		ug/Kg		83	54 - 130
Perfluorohexanesulfonic acid	22.8	18.37		ug/Kg		81	59 - 129
Perfluorooctanesulfonic acid	23.1	17.82		ug/Kg		77	61 - 126
NEtFOSAA	25.0	20.03		ug/Kg		80	57 - 127
NMeFOSAA	25.0	22.82		ug/Kg		91	60 - 134
10:2 FTS	24.1	21.76		ug/Kg		90	46 - 143
Perfluoropentanesulfonic acid	23.5	20.48		ug/Kg		87	57 - 133
Perfluoroheptanesulfonic acid	23.8	19.36		ug/Kg		81	59 - 132
Perfluorononanesulfonic acid	24.0	18.66		ug/Kg		78	60 - 132
Perfluorodecanesulfonic acid	24.1	17.26		ug/Kg		72	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	18.64		ug/Kg		77	38 - 145
Perfluorooctanesulfonamide	25.0	23.93		ug/Kg		96	47 - 149
Perfluorohexadecanoic acid	25.0	21.14		ug/Kg		85	38 - 147
Perfluorooctadecanoic acid	25.0	24.49		ug/Kg		98	16 - 160
Perfluorobutanoic acid	25.0	19.84		ug/Kg		79	60 - 128
Perfluoropentanoic acid	25.0	20.03		ug/Kg		80	58 - 134
NMeFOSE	25.0	22.56		ug/Kg		90	60 - 130
NMeFOSA	25.0	22.06		ug/Kg		88	60 - 129
NEtFOSE	25.0	23.22		ug/Kg		93	60 - 126
NEtFOSA	25.0	22.36		ug/Kg		89	60 - 123
HFPODA	25.0	19.44		ug/Kg		78	49 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349825/3-B
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	23.6	19.52		ug/Kg		83	57 - 137
9Cl-PF3ONS	23.3	18.29		ug/Kg		79	62 - 130
11Cl-PF3OUdS	23.3	17.82		ug/Kg		77	55 - 135
Perfluorododecanoic acid	25.0	20.92		ug/Kg		84	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	20.16		ug/Kg		86	58 - 131
Perfluoroundecanoic acid	25.0	21.95		ug/Kg		88	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.30		ug/Kg		94	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	22.41		ug/Kg		94	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*89*		*10 - 200*
M2-8:2 FTS	*91*		*15 - 200*
M2-6:2 FTS	*90*		*10 - 200*
13C5 PFHxA	*101*		*10 - 174*
13C4 PFHpA	*99*		*10 - 178*
13C8 PFOA	*98*		*26 - 159*
13C9 PFNA	*97*		*26 - 165*
13C6 PFDA	*100*		*26 - 161*
13C7 PFUnA	*99*		*12 - 173*
13C2-PFDoDA	*99*		*11 - 166*
13C2 PFTeDA	*106*		*10 - 169*
13C3 PFBS	*96*		*27 - 179*
13C3 PFHxS	*99*		*24 - 171*
13C8 PFOS	*104*		*41 - 154*
d3-NMeFOSAA	*94*		*10 - 178*
d5-NEtFOSAA	*101*		*10 - 193*
13C8 FOSA	*84*		*14 - 163*
13C4 PFBA	*94*		*28 - 153*
13C5 PFPeA	*96*		*24 - 161*
d7-N-MeFOSE-M	*79*		*10 - 179*
d3-NMePFOSA	*68*		*10 - 175*
d9-N-EtFOSE-M	*80*		*10 - 185*
d5-NEtPFOSA	*69*		*10 - 180*
13C3 HFPO-DA	*93*		*10 - 169*

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		26.8	20.39		ug/Kg	☼	76	59 - 132
Perfluoroheptanoic acid	ND		26.8	22.65		ug/Kg	☼	85	59 - 137
Perfluorooctanoic acid	ND		26.8	22.51		ug/Kg	☼	84	59 - 131
Perfluorononanoic acid	ND		26.8	22.21		ug/Kg	☼	83	61 - 134
Perfluorodecanoic acid	ND		26.8	20.21		ug/Kg	☼	76	56 - 133
Perfluorotridecanoic acid	ND		26.8	24.32		ug/Kg	☼	91	53 - 143
Perfluorotetradecanoic acid	ND		26.8	22.51		ug/Kg	☼	84	62 - 134
Perfluorobutanesulfonic acid	ND		23.7	19.41		ug/Kg	☼	82	54 - 130
Perfluorohexanesulfonic acid	ND		24.4	19.37		ug/Kg	☼	79	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	ND		24.8	19.13		ug/Kg	☼	77	61 - 126
NEtFOSAA	ND		26.8	24.95		ug/Kg	☼	93	57 - 127
NMeFOSAA	ND		26.8	21.08		ug/Kg	☼	79	60 - 134
10:2 FTS	ND		25.8	24.85		ug/Kg	☼	96	46 - 143
Perfluoropentanesulfonic acid	ND		25.1	21.65		ug/Kg	☼	86	57 - 133
Perfluoroheptanesulfonic acid	ND		25.5	20.87		ug/Kg	☼	82	59 - 132
Perfluorononanesulfonic acid	ND		25.7	19.74		ug/Kg	☼	77	60 - 132
Perfluorodecanesulfonic acid	ND		25.8	18.82		ug/Kg	☼	73	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		25.9	20.61		ug/Kg	☼	80	38 - 145
Perfluorooctanesulfonamide	ND		26.8	23.16		ug/Kg	☼	87	47 - 149
Perfluorohexadecanoic acid	ND		26.8	22.61		ug/Kg	☼	85	38 - 147
Perfluorooctadecanoic acid	ND		26.8	23.81		ug/Kg	☼	89	16 - 160
Perfluorobutanoic acid	ND		26.8	21.45		ug/Kg	☼	80	60 - 128
Perfluoropentanoic acid	ND		26.8	21.49		ug/Kg	☼	80	58 - 134
NMeFOSE	ND		26.8	23.76		ug/Kg	☼	89	60 - 130
NMeFOSA	ND		26.8	23.53		ug/Kg	☼	88	60 - 129
NEtFOSE	ND		26.8	23.72		ug/Kg	☼	89	60 - 126
NEtFOSA	ND		26.8	24.64		ug/Kg	☼	92	60 - 123
HFPODA	ND		26.8	18.02		ug/Kg	☼	67	49 - 135
DONA	ND		25.3	21.18		ug/Kg	☼	84	57 - 137
9Cl-PF3ONS	ND		24.9	19.61		ug/Kg	☼	79	62 - 130
11Cl-PF3OUdS	ND		24.9	19.77		ug/Kg	☼	79	55 - 135
Perfluorododecanoic acid	ND		26.8	22.66		ug/Kg	☼	85	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		25.0	21.81		ug/Kg	☼	87	58 - 131
Perfluoroundecanoic acid	ND		26.8	22.55		ug/Kg	☼	84	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		25.4	24.00		ug/Kg	☼	95	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		25.6	23.34		ug/Kg	☼	91	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*66*		*10 - 200*
M2-8:2 FTS	*71*		*15 - 200*
M2-6:2 FTS	*68*		*10 - 200*
13C5 PFHxA	*85*		*10 - 174*
13C4 PFHpA	*82*		*10 - 178*
13C8 PFOA	*85*		*26 - 159*
13C9 PFNA	*81*		*26 - 165*
13C6 PFDA	*80*		*26 - 161*
13C7 PFUnA	*80*		*12 - 173*
13C2-PFDoDA	*75*		*11 - 166*
13C2 PFTeDA	*86*		*10 - 169*
13C3 PFBS	*88*		*27 - 179*
13C3 PFHxS	*93*		*24 - 171*
13C8 PFOS	*95*		*41 - 154*
d3-NMeFOSAA	*22*		*10 - 178*
d5-NEtFOSAA	*24*		*10 - 193*
13C8 FOSA	*105*		*14 - 163*
13C4 PFBA	*78*		*28 - 153*
13C5 PFPeA	*80*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d7-N-MeFOSE-M	102		10 - 179
d3-NMePFOSA	95		10 - 175
d9-N-EtFOSE-M	101		10 - 185
d5-NEtPFOSA	94		10 - 180
13C3 HFPO-DA	97		10 - 169

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 353187

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 349825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		29.1	21.34		ug/Kg	☼	73	59 - 132	5	30
Perfluoroheptanoic acid	ND		29.1	23.47		ug/Kg	☼	81	59 - 137	4	30
Perfluorooctanoic acid	ND		29.1	25.49		ug/Kg	☼	87	59 - 131	12	30
Perfluorononanoic acid	ND		29.1	23.92		ug/Kg	☼	82	61 - 134	7	30
Perfluorodecanoic acid	ND		29.1	19.95		ug/Kg	☼	68	56 - 133	1	30
Perfluorotridecanoic acid	ND		29.1	25.48		ug/Kg	☼	87	53 - 143	5	30
Perfluorotetradecanoic acid	ND		29.1	25.15		ug/Kg	☼	86	62 - 134	11	30
Perfluorobutanesulfonic acid	ND		25.8	21.60		ug/Kg	☼	84	54 - 130	11	30
Perfluorohexanesulfonic acid	ND		26.6	20.97		ug/Kg	☼	79	59 - 129	8	30
Perfluorooctanesulfonic acid	ND		27.0	21.48		ug/Kg	☼	80	61 - 126	12	30
NEtFOSAA	ND		29.1	23.84		ug/Kg	☼	82	57 - 127	5	30
NMeFOSAA	ND		29.1	23.71		ug/Kg	☼	81	60 - 134	12	30
10:2 FTS	ND		28.1	26.45		ug/Kg	☼	94	46 - 143	6	30
Perfluoropentanesulfonic acid	ND		27.3	23.38		ug/Kg	☼	86	57 - 133	8	30
Perfluoroheptanesulfonic acid	ND		27.7	22.43		ug/Kg	☼	81	59 - 132	7	30
Perfluorononanesulfonic acid	ND		28.0	22.05		ug/Kg	☼	79	60 - 132	11	30
Perfluorodecanesulfonic acid	ND		28.1	21.28		ug/Kg	☼	76	57 - 132	12	30
Perfluorododecanesulfonic acid (PFDoS)	ND		28.2	22.47		ug/Kg	☼	80	38 - 145	9	30
Perfluorooctanesulfonamide	ND		29.1	25.56		ug/Kg	☼	88	47 - 149	10	30
Perfluorohexadecanoic acid	ND		29.1	21.56		ug/Kg	☼	74	38 - 147	5	30
Perfluorooctadecanoic acid	ND		29.1	26.23		ug/Kg	☼	90	16 - 160	10	30
Perfluorobutanoic acid	ND		29.1	22.76		ug/Kg	☼	78	60 - 128	6	30
Perfluoropentanoic acid	ND		29.1	24.25		ug/Kg	☼	83	58 - 134	12	30
NMeFOSE	ND		29.1	25.53		ug/Kg	☼	88	60 - 130	7	30
NMeFOSA	ND		29.1	25.34		ug/Kg	☼	87	60 - 129	7	30
NEtFOSE	ND		29.1	25.82		ug/Kg	☼	89	60 - 126	8	30
NEtFOSA	ND		29.1	24.62		ug/Kg	☼	84	60 - 123	0	30
HFPODA	ND		29.1	20.77		ug/Kg	☼	71	49 - 135	14	30
DONA	ND		27.5	21.96		ug/Kg	☼	80	57 - 137	4	30
9Cl-PF3ONS	ND		27.1	21.38		ug/Kg	☼	79	62 - 130	9	30
11Cl-PF3OUdS	ND		27.1	21.50		ug/Kg	☼	79	55 - 135	8	30
Perfluorododecanoic acid	ND		29.1	25.41		ug/Kg	☼	87	60 - 135	11	30
4:2 Fluorotelomer sulfonic acid	ND		27.2	21.60		ug/Kg	☼	79	58 - 131	1	30
Perfluoroundecanoic acid	ND		29.1	25.54		ug/Kg	☼	88	60 - 134	12	30
6:2 Fluorotelomer sulfonic acid	ND		27.6	24.66		ug/Kg	☼	89	59 - 135	3	30
8:2 Fluorotelomer sulfonic acid	ND		27.9	25.38		ug/Kg	☼	91	55 - 133	8	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	72		10 - 200
M2-8:2 FTS	74		15 - 200
M2-6:2 FTS	73		10 - 200
13C5 PFHxA	87		10 - 174
13C4 PFHpA	87		10 - 178
13C8 PFOA	82		26 - 159
13C9 PFNA	83		26 - 165
13C6 PFDA	85		26 - 161
13C7 PFUnA	79		12 - 173
13C2-PFDoDA	76		11 - 166
13C2 PFTeDA	92		10 - 169
13C3 PFBS	86		27 - 179
13C3 PFHxS	93		24 - 171
13C8 PFOS	88		41 - 154
d3-NMeFOSAA	26		10 - 178
d5-NEtFOSAA	31		10 - 193
13C8 FOSA	93		14 - 163
13C4 PFBA	77		28 - 153
13C5 PFPeA	78		24 - 161
d7-N-MeFOSE-M	90		10 - 179
d3-NMePFOSA	83		10 - 175
d9-N-EtFOSE-M	91		10 - 185
d5-NEtPFOSA	85		10 - 180
13C3 HFPO-DA	89		10 - 169

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-355125/1-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
HFPODA	ND		2.00	1.00	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
DONA	ND		3.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/20/23 00:33	03/21/23 03:34	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*127*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-8:2 FTS	*130*		*15 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
M2-6:2 FTS	*139*		*10 - 200*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFHxA	*136*		*10 - 174*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFHpA	*146*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOA	*144*		*26 - 159*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C9 PFNA	*131*		*26 - 165*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C6 PFDA	*136*		*26 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C7 PFUnA	*139*		*12 - 173*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2-PFDoDA	*138*		*11 - 166*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C2 PFTeDA	*139*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFBS	*134*		*27 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 PFHxS	*150*		*24 - 171*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 PFOS	*136*		*41 - 154*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMeFOSAA	*114*		*10 - 178*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtFOSAA	*114*		*10 - 193*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C8 FOSA	*77*		*14 - 163*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C4 PFBA	*114*		*28 - 153*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C5 PFPeA	*118*		*24 - 161*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d7-N-MeFOSE-M	*68*		*10 - 179*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d3-NMePFOSA	*25*		*10 - 175*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d9-N-EtFOSE-M	*73*		*10 - 185*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
d5-NEtPFOSA	*26*		*10 - 180*	*03/20/23 00:33*	*03/21/23 03:34*	*1*
13C3 HFPO-DA	*124*		*10 - 169*	*03/20/23 00:33*	*03/21/23 03:34*	*1*

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	18.06		ug/Kg		72	59 - 132
Perfluoroheptanoic acid	25.0	19.47		ug/Kg		78	59 - 137

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid	25.0	18.41		ug/Kg		74	59 - 131
Perfluorononanoic acid	25.0	20.12		ug/Kg		80	61 - 134
Perfluorodecanoic acid	25.0	18.34		ug/Kg		73	56 - 133
Perfluorotridecanoic acid	25.0	19.39		ug/Kg		78	53 - 143
Perfluorotetradecanoic acid	25.0	18.76		ug/Kg		75	62 - 134
Perfluorobutanesulfonic acid	22.1	17.21		ug/Kg		78	54 - 130
Perfluorohexanesulfonic acid	22.8	16.76		ug/Kg		74	59 - 129
Perfluorooctanesulfonic acid	23.1	17.28		ug/Kg		75	61 - 126
NEtFOSAA	25.0	20.51		ug/Kg		82	57 - 127
NMeFOSAA	25.0	21.10		ug/Kg		84	60 - 134
10:2 FTS	24.1	16.95		ug/Kg		70	46 - 143
Perfluoropentanesulfonic acid	23.5	17.61		ug/Kg		75	57 - 133
Perfluoroheptanesulfonic acid	23.8	18.09		ug/Kg		76	59 - 132
Perfluorononanesulfonic acid	24.0	18.24		ug/Kg		76	60 - 132
Perfluorodecanesulfonic acid	24.1	19.20		ug/Kg		80	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	18.47		ug/Kg		76	38 - 145
Perfluorooctanesulfonamide	25.0	19.43		ug/Kg		78	47 - 149
Perfluorohexadecanoic acid	25.0	16.54		ug/Kg		66	38 - 147
Perfluorooctadecanoic acid	25.0	17.26		ug/Kg		69	16 - 160
Perfluorobutanoic acid	25.0	17.18		ug/Kg		69	60 - 128
Perfluoropentanoic acid	25.0	17.58		ug/Kg		70	58 - 134
NMeFOSE	25.0	20.91		ug/Kg		84	60 - 130
NMeFOSA	25.0	20.01		ug/Kg		80	60 - 129
NEtFOSE	25.0	18.38		ug/Kg		74	60 - 126
NEtFOSA	25.0	20.72		ug/Kg		83	60 - 123
HFPODA	25.0	19.86		ug/Kg		79	49 - 135
DONA	23.6	17.05		ug/Kg		72	57 - 137
9Cl-PF3ONS	23.3	17.98		ug/Kg		77	62 - 130
11Cl-PF3OUdS	23.3	17.23		ug/Kg		74	55 - 135
Perfluorododecanoic acid	25.0	18.00		ug/Kg		72	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	19.57		ug/Kg		84	58 - 131
Perfluoroundecanoic acid	25.0	18.88		ug/Kg		76	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	17.47		ug/Kg		74	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	18.38		ug/Kg		77	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*115*		*10 - 200*
M2-8:2 FTS	*126*		*15 - 200*
M2-6:2 FTS	*117*		*10 - 200*
13C5 PFHxA	*129*		*10 - 174*
13C4 PFHpA	*129*		*10 - 178*
13C8 PFOA	*130*		*26 - 159*
13C9 PFNA	*126*		*26 - 165*
13C6 PFDA	*131*		*26 - 161*
13C7 PFUnA	*138*		*12 - 173*
13C2-PFDoDA	*130*		*11 - 166*
13C2 PFTeDA	*139*		*10 - 169*
13C3 PFBS	*136*		*27 - 179*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-355125/2-B
Matrix: Solid
Analysis Batch: 355432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355125

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C3 PFHxS	139		24 - 171
13C8 PFOS	133		41 - 154
d3-NMeFOSAA	123		10 - 178
d5-NEtFOSAA	126		10 - 193
13C8 FOSA	76		14 - 163
13C4 PFBA	118		28 - 153
13C5 PFPeA	120		24 - 161
d7-N-MeFOSE-M	69		10 - 179
d3-NMePFOSA	53		10 - 175
d9-N-EtFOSE-M	79		10 - 185
d5-NEtPFOSA	50		10 - 180
13C3 HFPO-DA	112		10 - 169

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-350292/1-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Arsenic	ND		3.00	1.40	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Barium	ND		0.500	0.150	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Beryllium	ND		0.500	0.100	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Cadmium	ND		0.500	0.100	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Chromium	ND		1.50	0.350	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Lead	ND		1.50	0.600	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Nickel	ND		1.00	0.260	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Selenium	ND		5.00	1.50	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Thallium	ND		3.00	1.30	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Vanadium	ND		1.00	0.430	mg/Kg		03/05/23 19:48	03/09/23 18:10	1
Zinc	ND		2.00	0.800	mg/Kg		03/05/23 19:48	03/09/23 18:10	1

Lab Sample ID: LCS 410-350292/2-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.11		mg/Kg		101	80 - 120
Arsenic	50.0	51.25		mg/Kg		102	80 - 120
Barium	50.0	52.04		mg/Kg		104	80 - 120
Beryllium	5.00	5.137		mg/Kg		103	80 - 120
Cadmium	5.00	5.129		mg/Kg		103	80 - 120
Chromium	50.0	52.60		mg/Kg		105	80 - 120
Lead	5.00	5.534		mg/Kg		111	80 - 120
Nickel	50.0	52.43		mg/Kg		105	80 - 120
Selenium	10.0	9.797		mg/Kg		98	80 - 120
Silver	5.00	5.350	^3+	mg/Kg		107	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-350292/2-A
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	10.0	10.27		mg/Kg		103	80 - 120
Vanadium	50.0	50.53		mg/Kg		101	80 - 120
Zinc	50.0	50.23		mg/Kg		100	80 - 120

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		7.11	6.511		mg/Kg	☼	92	75 - 125
Arsenic	1.98	J	35.5	38.33		mg/Kg	☼	102	75 - 125
Barium	12.5		35.5	53.75		mg/Kg	☼	116	75 - 125
Beryllium	0.191	J	3.55	3.900		mg/Kg	☼	104	75 - 125
Cadmium	ND		3.55	3.537		mg/Kg	☼	100	75 - 125
Chromium	3.82		35.5	41.12		mg/Kg	☼	105	75 - 125
Lead	2.29		3.55	6.198		mg/Kg	☼	110	75 - 125
Nickel	1.80		35.5	37.88		mg/Kg	☼	102	75 - 125
Selenium	ND	F2	7.11	6.767		mg/Kg	☼	95	75 - 125
Silver	ND	^3+	3.55	3.797	^3+	mg/Kg	☼	107	75 - 125
Thallium	ND	F2	7.11	5.585		mg/Kg	☼	79	75 - 125
Vanadium	5.44		35.5	42.60		mg/Kg	☼	105	75 - 125
Zinc	7.46		35.5	46.26		mg/Kg	☼	109	75 - 125

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		9.18	8.536		mg/Kg	☼	93	75 - 125	27	30
Arsenic	1.98	J	45.9	48.85		mg/Kg	☼	102	75 - 125	24	30
Barium	12.5		45.9	64.53		mg/Kg	☼	113	75 - 125	18	30
Beryllium	0.191	J	4.59	4.931		mg/Kg	☼	103	75 - 125	23	30
Cadmium	ND		4.59	4.571		mg/Kg	☼	100	75 - 125	26	30
Chromium	3.82		45.9	52.87		mg/Kg	☼	107	75 - 125	25	30
Lead	2.29		4.59	7.641		mg/Kg	☼	116	75 - 125	21	30
Nickel	1.80		45.9	48.74		mg/Kg	☼	102	75 - 125	25	30
Selenium	ND	F2	9.18	9.358	F2	mg/Kg	☼	102	75 - 125	32	30
Silver	ND	^3+	4.59	4.893	^3+	mg/Kg	☼	107	75 - 125	25	30
Thallium	ND	F2	9.18	7.844	F2	mg/Kg	☼	85	75 - 125	34	30
Vanadium	5.44		45.9	53.36		mg/Kg	☼	104	75 - 125	22	30
Zinc	7.46		45.9	54.84		mg/Kg	☼	103	75 - 125	17	30

Lab Sample ID: 620-10051-17 DU
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	1.98	J	1.999	J	mg/Kg	☼	1	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10051-17 DU
Matrix: Solid
Analysis Batch: 352132

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350292

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	12.5		14.74		mg/Kg	☼	17	30
Beryllium	0.191	J	0.2248	J	mg/Kg	☼	16	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	3.82		4.767		mg/Kg	☼	22	30
Lead	2.29		2.199		mg/Kg	☼	4	30
Nickel	1.80		1.909		mg/Kg	☼	6	30
Selenium	ND	F2	ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Thallium	ND	F2	ND		mg/Kg	☼	NC	30
Vanadium	5.44		7.142		mg/Kg	☼	27	30
Zinc	7.46		9.040		mg/Kg	☼	19	30

Lab Sample ID: MB 410-350293/1-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Barium	ND		0.500	0.150	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Beryllium	ND		0.500	0.100	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Lead	ND		1.50	0.600	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/05/23 19:57	03/08/23 18:42	1
Zinc	ND	^5-	2.00	0.800	mg/Kg		03/05/23 19:57	03/08/23 18:42	1

Lab Sample ID: LCS 410-350293/2-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.01		mg/Kg		100	80 - 120
Arsenic	50.0	49.42		mg/Kg		99	80 - 120
Barium	50.0	50.66		mg/Kg		101	80 - 120
Beryllium	5.00	5.107		mg/Kg		102	80 - 120
Cadmium	5.00	5.021		mg/Kg		100	80 - 120
Chromium	50.0	50.93		mg/Kg		102	80 - 120
Lead	5.00	5.480		mg/Kg		110	80 - 120
Nickel	50.0	51.24		mg/Kg		102	80 - 120
Selenium	10.0	10.31		mg/Kg		103	80 - 120
Silver	5.00	5.400	^3+	mg/Kg		108	80 - 120
Thallium	10.0	10.64		mg/Kg		106	80 - 120
Vanadium	50.0	49.64		mg/Kg		99	80 - 120
Zinc	50.0	49.10	^5-	mg/Kg		98	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		8.29	7.890		mg/Kg	☼	95	75 - 125
Arsenic	2.29	J	41.4	43.35		mg/Kg	☼	99	75 - 125
Barium	17.5		41.4	61.12		mg/Kg	☼	105	75 - 125
Beryllium	0.349	J	4.14	4.595		mg/Kg	☼	102	75 - 125
Cadmium	ND		4.14	4.111		mg/Kg	☼	99	75 - 125
Chromium	7.44		41.4	49.00		mg/Kg	☼	100	75 - 125
Lead	3.58		4.14	8.627		mg/Kg	☼	122	75 - 125
Nickel	2.97		41.4	44.16		mg/Kg	☼	99	75 - 125
Selenium	ND		8.29	8.243		mg/Kg	☼	99	75 - 125
Silver	ND	^3+	4.14	4.417	^3+	mg/Kg	☼	107	75 - 125
Thallium	ND		8.29	7.247		mg/Kg	☼	87	75 - 125
Vanadium	9.35		41.4	49.73		mg/Kg	☼	97	75 - 125
Zinc	29.9	^5-	41.4	70.45	^5-	mg/Kg	☼	98	75 - 125

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		9.20	8.480		mg/Kg	☼	92	75 - 125	7	30
Arsenic	2.29	J	46.0	46.59		mg/Kg	☼	96	75 - 125	7	30
Barium	17.5		46.0	63.89		mg/Kg	☼	101	75 - 125	4	30
Beryllium	0.349	J	4.60	5.040		mg/Kg	☼	102	75 - 125	9	30
Cadmium	ND		4.60	4.457		mg/Kg	☼	97	75 - 125	8	30
Chromium	7.44		46.0	53.35		mg/Kg	☼	100	75 - 125	8	30
Lead	3.58		4.60	9.211		mg/Kg	☼	122	75 - 125	7	30
Nickel	2.97		46.0	47.62		mg/Kg	☼	97	75 - 125	8	30
Selenium	ND		9.20	9.043		mg/Kg	☼	98	75 - 125	9	30
Silver	ND	^3+	4.60	4.813	^3+	mg/Kg	☼	105	75 - 125	9	30
Thallium	ND		9.20	7.574		mg/Kg	☼	82	75 - 125	4	30
Vanadium	9.35		46.0	55.17		mg/Kg	☼	100	75 - 125	10	30
Zinc	29.9	^5-	46.0	70.02	^5-	mg/Kg	☼	87	75 - 125	1	30

Lab Sample ID: 620-10051-1 DU
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	2.29	J	2.560	J	mg/Kg	☼	11	30
Barium	17.5		14.83		mg/Kg	☼	16	30
Beryllium	0.349	J	0.3358	J	mg/Kg	☼	4	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	7.44		5.735		mg/Kg	☼	26	30
Lead	3.58		3.398		mg/Kg	☼	5	30
Nickel	2.97		2.418		mg/Kg	☼	21	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10051-1 DU
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350293

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Vanadium	9.35		7.466		mg/Kg	☼	22	30
Zinc	29.9	^5-	25.92		mg/Kg	☼	14	30

Lab Sample ID: MB 410-350840/1-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Arsenic	ND		3.00	1.40	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Barium	ND		0.500	0.150	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Beryllium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Cadmium	ND		0.500	0.100	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Chromium	ND		1.50	0.350	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Lead	ND		1.50	0.600	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Nickel	ND		1.00	0.260	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Selenium	ND		5.00	1.50	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Thallium	ND		3.00	1.30	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Vanadium	ND		1.00	0.430	mg/Kg		03/07/23 07:56	03/08/23 20:24	1
Zinc	ND	^5-	2.00	0.800	mg/Kg		03/07/23 07:56	03/08/23 20:24	1

Lab Sample ID: LCS 410-350840/2-A
Matrix: Solid
Analysis Batch: 351666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.625		mg/Kg		96	80 - 120
Arsenic	50.0	47.71		mg/Kg		95	80 - 120
Barium	50.0	49.21		mg/Kg		98	80 - 120
Beryllium	5.00	5.004		mg/Kg		100	80 - 120
Cadmium	5.00	4.922		mg/Kg		98	80 - 120
Chromium	50.0	49.83		mg/Kg		100	80 - 120
Lead	5.00	5.383		mg/Kg		108	80 - 120
Nickel	50.0	50.00		mg/Kg		100	80 - 120
Selenium	10.0	9.752		mg/Kg		98	80 - 120
Silver	5.00	5.211	^3+	mg/Kg		104	80 - 120
Thallium	10.0	10.16		mg/Kg		102	80 - 120
Vanadium	50.0	48.63		mg/Kg		97	80 - 120
Zinc	50.0	47.36	^5-	mg/Kg		95	80 - 120

Lab Sample ID: MB 410-351221/1-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Barium	ND		0.500	0.150	mg/Kg		03/08/23 00:33	03/10/23 02:42	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-351221/1-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Lead	ND		1.50	0.600	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/08/23 00:33	03/10/23 02:42	1
Zinc	ND		2.00	0.800	mg/Kg		03/08/23 00:33	03/10/23 02:42	1

Lab Sample ID: LCS 410-351221/2-A
Matrix: Solid
Analysis Batch: 352284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.640		mg/Kg		96	80 - 120
Arsenic	50.0	50.46		mg/Kg		101	80 - 120
Barium	50.0	50.72		mg/Kg		101	80 - 120
Beryllium	5.00	4.958		mg/Kg		99	80 - 120
Cadmium	5.00	4.901		mg/Kg		98	80 - 120
Chromium	50.0	51.79		mg/Kg		104	80 - 120
Lead	5.00	5.429		mg/Kg		109	80 - 120
Nickel	50.0	50.07		mg/Kg		100	80 - 120
Selenium	10.0	9.637		mg/Kg		96	80 - 120
Silver	5.00	5.267	^3+	mg/Kg		105	80 - 120
Thallium	10.0	10.00		mg/Kg		100	80 - 120
Vanadium	50.0	49.21		mg/Kg		98	80 - 120
Zinc	50.0	48.91		mg/Kg		98	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-350294/1-A
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350294

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/05/23 20:11	03/06/23 11:55	1

Lab Sample ID: LCS 410-350294/2-A
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.09537		mg/Kg		95	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 620-10051-17 MS
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.162	0.1585		mg/Kg	☼	98	75 - 125

Lab Sample ID: 620-10051-17 MSD
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.160	0.1605		mg/Kg	☼	101	75 - 125	1	35

Lab Sample ID: 620-10051-17 DU
Matrix: Solid
Analysis Batch: 350681

Client Sample ID: 2023-SB-15-0002'
Prep Type: Total/NA
Prep Batch: 350294

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-350297/1-A
Matrix: Solid
Analysis Batch: 350702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/05/23 20:31	03/06/23 17:23	1

Lab Sample ID: LCS 410-350297/2-A
Matrix: Solid
Analysis Batch: 350702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1014		mg/Kg		101	80 - 120

Lab Sample ID: MB 410-350764/1-A
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 350764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/06/23 22:34	03/07/23 18:25	1

Lab Sample ID: LCS 410-350764/2-A
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1023		mg/Kg		102	80 - 120

Lab Sample ID: 620-10051-1 MS
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.181	0.1864		mg/Kg	☼	103	75 - 125

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 620-10051-1 MSD
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.190	0.2045		mg/Kg	☼	108	75 - 125	9	35

Lab Sample ID: 620-10051-1 DU
Matrix: Solid
Analysis Batch: 351145

Client Sample ID: 2023-MW-01-0406'
Prep Type: Total/NA
Prep Batch: 350764

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-351182/1-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/07/23 20:58	03/08/23 11:59	1

Lab Sample ID: LCS 410-351182/2-A
Matrix: Solid
Analysis Batch: 351485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1124		mg/Kg		112	80 - 120

Lab Sample ID: MB 410-351222/1-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/08/23 00:46	03/09/23 07:20	1

Lab Sample ID: LCS 410-351222/2-A
Matrix: Solid
Analysis Batch: 351811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1139		mg/Kg		114	80 - 120

Lab Sample ID: MB 410-353327/1-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/14/23 11:01	03/14/23 13:54	1

Lab Sample ID: LCS 410-353327/2-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1053		mg/Kg		105	80 - 120

Client: Nobis Engineering, Inc.
Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10051-21 DU
Client Sample ID: 2023-SB-15-0810'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 20201

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.1			14.2	F3	%				16	5
Percent Solids	87.9			85.8		%				2	5

Lab Sample ID: 620-10051-22 DU
Client Sample ID: 2023-SB-15-1012'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 20206

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.5			16.2		%				2	5
Percent Solids	83.5			83.8		%				0.4	5

Lab Sample ID: 620-10051-38 DU
Client Sample ID: 2023-SB-13-1012'
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 20206

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	20.5			20.0		%				2	5
Percent Solids	79.5			80.0		%				0.6	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS VOA

Pre Prep Batch: 20198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-23	2023-FD-03	Total/NA	Solid	Frozen Preserve	
620-10051-24	Trip Blank-01	Total/NA	Solid	Frozen Preserve	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-31	Trip Blank-02	Total/NA	Solid	Frozen Preserve	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	Frozen Preserve	
620-10051-34	2023-FD-04	Total/NA	Solid	Frozen Preserve	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	Frozen Preserve	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	Frozen Preserve	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	Frozen Preserve	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	Frozen Preserve	
620-10051-39	Trip Blank-03	Total/NA	Solid	Frozen Preserve	

GC/MS VOA (Continued)

Pre Prep Batch: 20198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	Frozen Preserve	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	5035	20198
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	5035	20198
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	5035	20198
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	5035	20198
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	5035	20198
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	5035	20198
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	5035	20198
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	5035	20198
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	5035	20198
MB 620-20238/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	8260C	20238
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	8260C	20238
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	8260C	20238
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	8260C	20238
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	8260C	20238
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	8260C	20238
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	8260C	20238
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	8260C	20238
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	8260C	20238
MB 620-20238/3-A	Method Blank	Total/NA	Solid	8260C	20238
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	8260C	20238
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20238

Prep Batch: 20252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	5035	20198
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	5035	20198
620-10051-23	2023-FD-03	Total/NA	Solid	5035	20198
620-10051-24	Trip Blank-01	Total/NA	Solid	5035	20198
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	5035	20198
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	5035	20198
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	5035	20198
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	5035	20198
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	5035	20198
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	5035	20198
620-10051-31	Trip Blank-02	Total/NA	Solid	5035	20198
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	5035	20198
620-10051-34	2023-FD-04	Total/NA	Solid	5035	20198
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	5035	20198
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	5035	20198

GC/MS VOA (Continued)

Prep Batch: 20252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	5035	20198
620-10051-39	Trip Blank-03	Total/NA	Solid	5035	20198
MB 620-20252/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20252/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20252/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	8260C	20252
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	8260C	20252
620-10051-23	2023-FD-03	Total/NA	Solid	8260C	20252
620-10051-24	Trip Blank-01	Total/NA	Solid	8260C	20252
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	8260C	20252
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	8260C	20252
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	8260C	20252
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	8260C	20252
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	8260C	20252
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	8260C	20252
620-10051-31	Trip Blank-02	Total/NA	Solid	8260C	20252
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	8260C	20252
620-10051-34	2023-FD-04	Total/NA	Solid	8260C	20252
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	8260C	20252
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	8260C	20252
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	8260C	20252
620-10051-39	Trip Blank-03	Total/NA	Solid	8260C	20252
MB 620-20252/3-A	Method Blank	Total/NA	Solid	8260C	20252
LCS 620-20252/1-A	Lab Control Sample	Total/NA	Solid	8260C	20252
LCSD 620-20252/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20252

Prep Batch: 20295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	5035	20198
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	5035	20198
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	5035	20198
MB 620-20295/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20295/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20295/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	5035	20198

Analysis Batch: 20296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	8260C	20295
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8260C	20295
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	8260C	20295
MB 620-20295/3-A	Method Blank	Total/NA	Solid	8260C	20295
LCS 620-20295/1-A	Lab Control Sample	Total/NA	Solid	8260C	20295
LCSD 620-20295/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20295
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	8260C	20295

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS VOA

Prep Batch: 20322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	5035	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	5035	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	5035	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	5035	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	5035	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	5035	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	5035	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	5035	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	5035	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	5035	
MB 620-20322/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20322/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20322/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	5035	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	5035	

Analysis Batch: 20323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	8260C	20322
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	8260C	20322
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	8260C	20322
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	8260C	20322
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	8260C	20322
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	8260C	20322
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	8260C	20322
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	8260C	20322
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	8260C	20322
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	8260C	20322
MB 620-20322/3-A	Method Blank	Total/NA	Solid	8260C	20322
LCS 620-20322/1-A	Lab Control Sample	Total/NA	Solid	8260C	20322
LCSD 620-20322/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20322
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	8260C	20322
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	8260C	20322

Prep Batch: 20327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20327/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	5035	20198

Analysis Batch: 20328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20327/3-A	Method Blank	Total/NA	Solid	8260C	20327
LCS 620-20327/1-A	Lab Control Sample	Total/NA	Solid	8260C	20327
LCSD 620-20327/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20327
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	8260C	20327

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS Semi VOA

Prep Batch: 20241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	3546	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	3546	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	3546	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	3546	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	3546	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	3546	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	3546	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	3546	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	3546	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	3546	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	3546	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	3546	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	3546	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	3546	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	3546	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	3546	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	3546	
MB 620-20241/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20241/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20241/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	3546	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	3546	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	3546	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	3546	

Analysis Batch: 20349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	8270D	20241
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	8270D	20241
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	8270D	20241
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	8270D	20241
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	8270D	20241
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	8270D	20241
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	8270D	20241
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	8270D	20241
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	8270D	20241
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	8270D	20241
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	8270D	20241
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	8270D	20241
MB 620-20241/1-A	Method Blank	Total/NA	Solid	8270D	20241
LCS 620-20241/2-A	Lab Control Sample	Total/NA	Solid	8270D	20241
LCSD 620-20241/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20241
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	8270D	20241
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	8270D	20241
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	8270D	20241
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	8270D	20241

Analysis Batch: 20386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	8270D	20241
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	8270D	20241

GC/MS Semi VOA (Continued)

Analysis Batch: 20386 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	8270D	20241
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	8270D	20241
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	8270D	20241
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	8270D	20399
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	8270D	20399
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	8270D	20399
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	8270D	20399
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	8270D	20399
620-10051-23	2023-FD-03	Total/NA	Solid	8270D	20399
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	8270D	20399
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	8270D	20399
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	8270D	20399

Prep Batch: 20399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	3546	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	3546	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	3546	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	3546	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	3546	
620-10051-23	2023-FD-03	Total/NA	Solid	3546	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	3546	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	3546	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	3546	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	3546	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	3546	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	3546	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	3546	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	3546	
620-10051-34	2023-FD-04	Total/NA	Solid	3546	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	3546	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	3546	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	3546	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	3546	
MB 620-20399/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20399/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20399/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	8270D	20399
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	8270D	20399
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	8270D	20399
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	8270D	20399
620-10051-34	2023-FD-04	Total/NA	Solid	8270D	20399
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	8270D	20399
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	8270D	20399
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	8270D	20399
MB 620-20399/1-A	Method Blank	Total/NA	Solid	8270D	20399
LCS 620-20399/2-A	Lab Control Sample	Total/NA	Solid	8270D	20399
LCSD 620-20399/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20399

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC/MS Semi VOA

Analysis Batch: 20495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8270D	20399
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8270D	20399
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	8270D	20399

GC VOA

Prep Batch: 660379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	5035A_H	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	5035A_H	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	5035A_H	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	5035A_H	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	5035A_H	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	5035A_H	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	5035A_H	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	5035A_H	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	5035A_H	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	5035A_H	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	5035A_H	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	5035A_H	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	5035A_H	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	5035A_H	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	5035A_H	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	5035A_H	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	5035A_H	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	5035A_H	
MB 480-660379/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660379/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660379/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	5035A_H	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	5035A_H	

Prep Batch: 660381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	5035A_H	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	5035A_H	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	5035A_H	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	5035A_H	
620-10051-23	2023-FD-03	Total/NA	Solid	5035A_H	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	5035A_H	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	5035A_H	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	5035A_H	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	5035A_H	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	5035A_H	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	5035A_H	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	5035A_H	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	5035A_H	
620-10051-34	2023-FD-04	Total/NA	Solid	5035A_H	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	5035A_H	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	5035A_H	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 660381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	5035A_H	
MB 480-660381/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660381/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660381/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	5035A_H	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	5035A_H	

Analysis Batch: 660382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	MAVPH	660379
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	MAVPH	660379
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	MAVPH	660379
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	MAVPH	660379
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	MAVPH	660379
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	MAVPH	660379
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	MAVPH	660379
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	MAVPH	660379
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	MAVPH	660379
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	MAVPH	660379
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	MAVPH	660379
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	MAVPH	660379
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	MAVPH	660379
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	MAVPH	660379
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	MAVPH	660379
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	MAVPH	660379
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	MAVPH	660381
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	MAVPH	660379
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	MAVPH	660379
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	MAVPH	660381
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	MAVPH	660381
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	MAVPH	660381
620-10051-23	2023-FD-03	Total/NA	Solid	MAVPH	660381
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	MAVPH	660381
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	MAVPH	660381
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	MAVPH	660381
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	MAVPH	660381
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	MAVPH	660381
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	MAVPH	660381
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	MAVPH	660381
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	MAVPH	660381
620-10051-34	2023-FD-04	Total/NA	Solid	MAVPH	660381
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	MAVPH	660381
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	MAVPH	660381
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	MAVPH	660381
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	MAVPH	660381
MB 480-660379/1-A	Method Blank	Total/NA	Solid	MAVPH	660379
MB 480-660381/1-A	Method Blank	Total/NA	Solid	MAVPH	660381
LCS 480-660379/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660379
LCS 480-660381/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660381
LCSD 480-660379/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660379
LCSD 480-660381/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660381

GC VOA (Continued)

Analysis Batch: 660382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	MAVPH	660379
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	MAVPH	660379
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	MAVPH	660381
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	MAVPH	660381

Analysis Batch: 660586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	MA VPH SUM	

Analysis Batch: 660588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-23	2023-FD-03	Total/NA	Solid	MA VPH SUM	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	MA VPH SUM	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	MA VPH SUM	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	MA VPH SUM	
620-10051-34	2023-FD-04	Total/NA	Solid	MA VPH SUM	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	MA VPH SUM	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	MA VPH SUM	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	MA VPH SUM	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	MA VPH SUM	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

GC Semi VOA

Prep Batch: 20226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	3540C	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	3540C	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	3540C	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	3540C	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	3540C	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	3540C	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	3540C	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	3540C	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	3540C	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	3540C	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	3540C	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	3540C	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	3540C	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	3540C	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	3540C	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	3540C	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	3540C	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	3540C	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	3540C	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	3540C	
MB 620-20226/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20226/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20226/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	3540C	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	3540C	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	3540C	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	3540C	

Prep Batch: 20230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	3540C	
620-10051-23	2023-FD-03	Total/NA	Solid	3540C	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	3540C	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	3540C	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	3540C	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	3540C	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	3540C	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	3540C	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	3540C	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	3540C	
620-10051-34	2023-FD-04	Total/NA	Solid	3540C	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	3540C	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	3540C	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	3540C	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	3540C	
MB 620-20230/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20230/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20230/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

GC Semi VOA

Analysis Batch: 20249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	8082	20226
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	8082	20226
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	8082	20226
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	8082	20226
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	8082	20226
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	8082	20226
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	8082	20226
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	8082	20226
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	8082	20226
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	8082	20226
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	8082	20226
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	8082	20226
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	8082	20226
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	8082	20226
620-10051-23	2023-FD-03	Total/NA	Solid	8082	20230
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	8082	20230
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	8082	20230
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	8082	20230
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	8082	20230
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	8082	20230
620-10051-34	2023-FD-04	Total/NA	Solid	8082	20230
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	8082	20230
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	8082	20230
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	8082	20230
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	8082	20230
MB 620-20230/1-A	Method Blank	Total/NA	Solid	8082	20230
LCS 620-20226/2-A	Lab Control Sample	Total/NA	Solid	8082	20226
LCS 620-20230/2-A	Lab Control Sample	Total/NA	Solid	8082	20230
LCSD 620-20226/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20226
LCSD 620-20230/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20230
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	8082	20226
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	8082	20226

Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20226/1-A	Method Blank	Total/NA	Solid	8082	20226

Analysis Batch: 20318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	8082	20226

Prep Batch: 20339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	3540C	
MB 620-20339/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20339/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20339/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	8082	20226

GC Semi VOA (Continued)

Analysis Batch: 20363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	8082	20226
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	8082	20226
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	8082	20226
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	8082	20226
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	8082	20339
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	8082	20230
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	8082	20230
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	8082	20230
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	8082	20230
LCS 620-20339/2-A	Lab Control Sample	Total/NA	Solid	8082	20339
LCSD 620-20339/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20339
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	8082	20226
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	8082	20226

Analysis Batch: 20401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20339/1-A	Method Blank	Total/NA	Solid	8082	20339

LCMS

Prep Batch: 349822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	537 (mod)	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	537 (mod)	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	537 (mod)	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	537 (mod)	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	537 (mod)	
620-10051-23	2023-FD-03	Total/NA	Solid	537 (mod)	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	537 (mod)	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	537 (mod)	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	537 (mod)	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	537 (mod)	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	537 (mod)	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	537 (mod)	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	537 (mod)	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	537 (mod)	
620-10051-34	2023-FD-04	Total/NA	Solid	537 (mod)	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	537 (mod)	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	537 (mod)	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	537 (mod)	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	537 (mod)	
MB 410-349822/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-349822/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	537 (mod)	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	537 (mod)	

Prep Batch: 349825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	537 (mod)	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	537 (mod)	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	537 (mod)	

LCMS (Continued)

Prep Batch: 349825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	537 (mod)	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	537 (mod)	
620-10051-8 - RE	2023-MW-02-0608'	Total/NA	Solid	537 (mod)	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	537 (mod)	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	537 (mod)	
620-10051-11 - RE	2023-SB-16-0002'	Total/NA	Solid	537 (mod)	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	537 (mod)	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	537 (mod)	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	537 (mod)	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	537 (mod)	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	537 (mod)	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	537 (mod)	
MB 410-349825/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-349825/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	537 (mod)	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 349993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	Extract Aliquot	349822
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	Extract Aliquot	349822
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	Extract Aliquot	349822
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	Extract Aliquot	349822
620-10051-23	2023-FD-03	Total/NA	Solid	Extract Aliquot	349822
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	Extract Aliquot	349822
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	Extract Aliquot	349822
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	Extract Aliquot	349822
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	Extract Aliquot	349822
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	Extract Aliquot	349822
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	Extract Aliquot	349822
620-10051-34	2023-FD-04	Total/NA	Solid	Extract Aliquot	349822
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	Extract Aliquot	349822
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	Extract Aliquot	349822
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	Extract Aliquot	349822
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	Extract Aliquot	349822
MB 410-349822/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	349822
LCS 410-349822/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	349822
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	Extract Aliquot	349822
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	Extract Aliquot	349822

Cleanup Batch: 349994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	Extract Aliquot	349825
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	Extract Aliquot	349825
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	Extract Aliquot	349825
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	Extract Aliquot	349825
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	Extract Aliquot	349825
620-10051-8 - RE	2023-MW-02-0608'	Total/NA	Solid	Extract Aliquot	349825

LCMS (Continued)

Cleanup Batch: 349994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	Extract Aliquot	349825
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	Extract Aliquot	349825
620-10051-11 - RE	2023-SB-16-0002'	Total/NA	Solid	Extract Aliquot	349825
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	Extract Aliquot	349825
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	Extract Aliquot	349825
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	Extract Aliquot	349825
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	Extract Aliquot	349825
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	Extract Aliquot	349825
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	Extract Aliquot	349825
MB 410-349825/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	349825
LCS 410-349825/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	349825
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	Extract Aliquot	349825
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	Extract Aliquot	349825

Analysis Batch: 353187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-8 - RE	2023-MW-02-0608'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-11 - RE	2023-SB-16-0002'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	EPA 537 (Mod)	349994
MB 410-349825/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	349994
LCS 410-349825/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349994
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349994

Analysis Batch: 353950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-23	2023-FD-03	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	EPA 537 (Mod)	349993

LCMS (Continued)

Analysis Batch: 353950 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-34	2023-FD-04	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	EPA 537 (Mod)	349993
MB 410-349822/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	349993
LCS 410-349822/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	EPA 537 (Mod)	349993
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	EPA 537 (Mod)	349993

Prep Batch: 355125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	537 (mod)	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	537 (mod)	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	537 (mod)	
620-10051-9 - RE	2023-MW-02-0810'	Total/NA	Solid	537 (mod)	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	537 (mod)	
620-10051-32 - RE	2023-SB-13-0002'	Total/NA	Solid	537 (mod)	
620-10051-33 - RE	2023-SB-13-0204'	Total/NA	Solid	537 (mod)	
620-10051-34 - RE	2023-FD-04	Total/NA	Solid	537 (mod)	
620-10051-35 - RE	2023-SB-13-0406'	Total/NA	Solid	537 (mod)	
MB 410-355125/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 355128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	Extract Aliquot	355125
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	Extract Aliquot	355125
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	Extract Aliquot	355125
620-10051-9 - RE	2023-MW-02-0810'	Total/NA	Solid	Extract Aliquot	355125
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10051-32 - RE	2023-SB-13-0002'	Total/NA	Solid	Extract Aliquot	355125
620-10051-33 - RE	2023-SB-13-0204'	Total/NA	Solid	Extract Aliquot	355125
620-10051-34 - RE	2023-FD-04	Total/NA	Solid	Extract Aliquot	355125
620-10051-35 - RE	2023-SB-13-0406'	Total/NA	Solid	Extract Aliquot	355125
MB 410-355125/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	355125
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	355125

Analysis Batch: 355432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-9 - RE	2023-MW-02-0810'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-32 - RE	2023-SB-13-0002'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-33 - RE	2023-SB-13-0204'	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-34 - RE	2023-FD-04	Total/NA	Solid	EPA 537 (Mod)	355128
620-10051-35 - RE	2023-SB-13-0406'	Total/NA	Solid	EPA 537 (Mod)	355128
MB 410-355125/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	355128

LCMS (Continued)

Analysis Batch: 355432 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-355125/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	355128

Metals

Prep Batch: 350292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	3050B	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	3050B	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	3050B	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	3050B	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	3050B	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	3050B	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	3050B	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	3050B	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	3050B	
MB 410-350292/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350292/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	3050B	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	3050B	
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	3050B	

Prep Batch: 350293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	3050B	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	3050B	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	3050B	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	3050B	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	3050B	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	3050B	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	3050B	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	3050B	
MB 410-350293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350293/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	3050B	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	3050B	
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	3050B	

Prep Batch: 350294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	7471A	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	7471A	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	7471A	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	7471A	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	7471A	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	7471A	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	7471A	
MB 410-350294/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-350294/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	7471A	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	7471A	
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	7471A	

Metals

Prep Batch: 350297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	7471A	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	7471A	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	7471A	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	7471A	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	7471A	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	7471A	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	7471A	
MB 410-350297/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-350297/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 350681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	7471B	350294
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	7471B	350294
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	7471B	350294
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	7471B	350294
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	7471B	350294
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	7471B	350294
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	7471B	350294
MB 410-350294/1-A	Method Blank	Total/NA	Solid	7471B	350294
LCS 410-350294/2-A	Lab Control Sample	Total/NA	Solid	7471B	350294
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	7471B	350294
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	7471B	350294
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	7471B	350294

Analysis Batch: 350702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	7471B	350297
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	7471B	350297
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	7471B	350297
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	7471B	350297
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	7471B	350297
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	7471B	350297
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	7471B	350297
MB 410-350297/1-A	Method Blank	Total/NA	Solid	7471B	350297
LCS 410-350297/2-A	Lab Control Sample	Total/NA	Solid	7471B	350297

Prep Batch: 350764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	7471A	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	7471A	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	7471A	
MB 410-350764/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-350764/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	7471A	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	7471A	
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	7471A	

Prep Batch: 350840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 350840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	3050B	
MB 410-350840/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 351145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	7471B	350764
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	7471B	350764
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	7471B	350764
MB 410-350764/1-A	Method Blank	Total/NA	Solid	7471B	350764
LCS 410-350764/2-A	Lab Control Sample	Total/NA	Solid	7471B	350764
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	7471B	350764
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	7471B	350764
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	7471B	350764

Prep Batch: 351182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	7471A	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	7471A	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	7471A	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	7471A	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	7471A	
620-10051-23	2023-FD-03	Total/NA	Solid	7471A	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	7471A	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	7471A	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	7471A	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	7471A	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	7471A	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	7471A	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	7471A	
620-10051-34	2023-FD-04	Total/NA	Solid	7471A	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	7471A	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	7471A	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	7471A	
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 351221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	3050B	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	3050B	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	3050B	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	3050B	
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	3050B	
620-10051-23	2023-FD-03	Total/NA	Solid	3050B	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	3050B	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	3050B	
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	3050B	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	3050B	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	3050B	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 351221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	3050B	
620-10051-34	2023-FD-04	Total/NA	Solid	3050B	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	3050B	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	3050B	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	3050B	
MB 410-351221/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 351222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	7471A	
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 351485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	7471B	351182
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	7471B	351182
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	7471B	351182
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	7471B	351182
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	7471B	351182
620-10051-23	2023-FD-03	Total/NA	Solid	7471B	351182
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	7471B	351182
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	7471B	351182
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	7471B	351182
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	7471B	351182
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	7471B	351182
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	7471B	351182
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	7471B	351182
620-10051-34	2023-FD-04	Total/NA	Solid	7471B	351182
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	7471B	351182
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	7471B	351182
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	7471B	351182
MB 410-351182/1-A	Method Blank	Total/NA	Solid	7471B	351182
LCS 410-351182/2-A	Lab Control Sample	Total/NA	Solid	7471B	351182

Analysis Batch: 351666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	6010D	350293
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	6010D	350293
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	6010D	350293
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	6010D	350293
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	6010D	350293
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	6010D	350293
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	6010D	350293
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	6010D	350293
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	6010D	350840
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	6010D	350840
MB 410-350293/1-A	Method Blank	Total/NA	Solid	6010D	350293
MB 410-350840/1-A	Method Blank	Total/NA	Solid	6010D	350840
LCS 410-350293/2-A	Lab Control Sample	Total/NA	Solid	6010D	350293

Metals (Continued)

Analysis Batch: 351666 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-350840/2-A	Lab Control Sample	Total/NA	Solid	6010D	350840
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	6010D	350293
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	6010D	350293
620-10051-1 DU	2023-MW-01-0406'	Total/NA	Solid	6010D	350293

Analysis Batch: 351811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	7471B	351222
MB 410-351222/1-A	Method Blank	Total/NA	Solid	7471B	351222
LCS 410-351222/2-A	Lab Control Sample	Total/NA	Solid	7471B	351222

Analysis Batch: 352132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	6010D	350292
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	6010D	350292
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	6010D	350292
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	6010D	350292
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	6010D	350292
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	6010D	350292
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	6010D	350292
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	6010D	350292
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	6010D	350292
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	6010D	350292
MB 410-350292/1-A	Method Blank	Total/NA	Solid	6010D	350292
LCS 410-350292/2-A	Lab Control Sample	Total/NA	Solid	6010D	350292
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	6010D	350292
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	6010D	350292
620-10051-17 DU	2023-SB-15-0002'	Total/NA	Solid	6010D	350292

Analysis Batch: 352284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	6010D	351221
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	6010D	351221
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	6010D	351221
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	6010D	351221
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	6010D	351221
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	6010D	351221
620-10051-23	2023-FD-03	Total/NA	Solid	6010D	351221
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	6010D	351221
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	6010D	351221
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	6010D	351221
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	6010D	351221
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	6010D	351221
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	6010D	351221
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	6010D	351221
620-10051-34	2023-FD-04	Total/NA	Solid	6010D	351221
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	6010D	351221
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	6010D	351221
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	6010D	351221
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	6010D	351221
MB 410-351221/1-A	Method Blank	Total/NA	Solid	6010D	351221

Metals (Continued)

Analysis Batch: 352284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-351221/2-A	Lab Control Sample	Total/NA	Solid	6010D	351221

Prep Batch: 353327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	7471A	
MB 410-353327/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-353327/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 353417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	7471B	353327
MB 410-353327/1-A	Method Blank	Total/NA	Solid	7471B	353327
LCS 410-353327/2-A	Lab Control Sample	Total/NA	Solid	7471B	353327

General Chemistry

Analysis Batch: 20201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-1	2023-MW-01-0406'	Total/NA	Solid	Moisture	
620-10051-2	2023-MW-01-0608'	Total/NA	Solid	Moisture	
620-10051-3	2023-MW-01-0810'	Total/NA	Solid	Moisture	
620-10051-4	2023-MW-01-1012'	Total/NA	Solid	Moisture	
620-10051-5	2023-MW-02-0002'	Total/NA	Solid	Moisture	
620-10051-6	2023-MW-02-0204'	Total/NA	Solid	Moisture	
620-10051-7	2023-MW-02-0406'	Total/NA	Solid	Moisture	
620-10051-8	2023-MW-02-0608'	Total/NA	Solid	Moisture	
620-10051-9	2023-MW-02-0810'	Total/NA	Solid	Moisture	
620-10051-10	2023-MW-02-1012'	Total/NA	Solid	Moisture	
620-10051-11	2023-SB-16-0002'	Total/NA	Solid	Moisture	
620-10051-12	2023-SB-16-0204'	Total/NA	Solid	Moisture	
620-10051-13	2023-SB-16-0406'	Total/NA	Solid	Moisture	
620-10051-14	2023-SB-16-0608'	Total/NA	Solid	Moisture	
620-10051-15	2023-SB-16-0810'	Total/NA	Solid	Moisture	
620-10051-16	2023-SB-16-1012'	Total/NA	Solid	Moisture	
620-10051-17	2023-SB-15-0002'	Total/NA	Solid	Moisture	
620-10051-18	2023-SB-15-0204'	Total/NA	Solid	Moisture	
620-10051-19	2023-SB-15-0406'	Total/NA	Solid	Moisture	
620-10051-20	2023-SB-15-0608'	Total/NA	Solid	Moisture	
620-10051-21	2023-SB-15-0810'	Total/NA	Solid	Moisture	
620-10051-1 MS	2023-MW-01-0406'	Total/NA	Solid	Moisture	
620-10051-1 MSD	2023-MW-01-0406'	Total/NA	Solid	Moisture	
620-10051-17 MS	2023-SB-15-0002'	Total/NA	Solid	Moisture	
620-10051-17 MSD	2023-SB-15-0002'	Total/NA	Solid	Moisture	
620-10051-21 DU	2023-SB-15-0810'	Total/NA	Solid	Moisture	

Analysis Batch: 20206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-22	2023-SB-15-1012'	Total/NA	Solid	Moisture	
620-10051-23	2023-FD-03	Total/NA	Solid	Moisture	
620-10051-25	2023-SB-14-0002'	Total/NA	Solid	Moisture	
620-10051-26	2023-SB-14-0204'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10051-27	2023-SB-14-0406'	Total/NA	Solid	Moisture	
620-10051-28	2023-SB-14-0608'	Total/NA	Solid	Moisture	
620-10051-29	2023-SB-14-0810'	Total/NA	Solid	Moisture	
620-10051-30	2023-SB-14-1012'	Total/NA	Solid	Moisture	
620-10051-32	2023-SB-13-0002'	Total/NA	Solid	Moisture	
620-10051-33	2023-SB-13-0204'	Total/NA	Solid	Moisture	
620-10051-34	2023-FD-04	Total/NA	Solid	Moisture	
620-10051-35	2023-SB-13-0406'	Total/NA	Solid	Moisture	
620-10051-36	2023-SB-13-0608'	Total/NA	Solid	Moisture	
620-10051-37	2023-SB-13-0810'	Total/NA	Solid	Moisture	
620-10051-38	2023-SB-13-1012'	Total/NA	Solid	Moisture	
620-10051-22 DU	2023-SB-15-1012'	Total/NA	Solid	Moisture	
620-10051-38 DU	2023-SB-13-1012'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0406' Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-01-0406' Lab Sample ID: 620-10051-1
Date Collected: 02/27/23 13:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 14:48
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 22:03
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 10:22
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 18:12
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/14/23 23:40
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 18:48
Total/NA	Prep	7471A			350764	UAMX	ELLE	03/06/23 22:34
Total/NA	Analysis	7471B		1	351145	UEFS	ELLE	03/07/23 18:29

Client Sample ID: 2023-MW-01-0608' Lab Sample ID: 620-10051-2
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-01-0608' Lab Sample ID: 620-10051-2
Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 17:18
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 13:32
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 12:20
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 19:08

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0608' Lab Sample ID: 620-10051-2

Date Collected: 02/27/23 13:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:13
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:21
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:42

Client Sample ID: 2023-MW-01-0810' Lab Sample ID: 620-10051-3

Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-01-0810' Lab Sample ID: 620-10051-3

Date Collected: 02/27/23 13:50 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 17:43
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 14:00
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 13:00
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 19:27
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:35
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:24
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:03

Client Sample ID: 2023-MW-01-1012' Lab Sample ID: 620-10051-4

Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-1012' Lab Sample ID: 620-10051-4

Date Collected: 02/27/23 13:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 85.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 18:08
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 15:46
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 13:39
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 19:46
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:46
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:32
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:05

Client Sample ID: 2023-MW-02-0002' Lab Sample ID: 620-10051-5

Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0002' Lab Sample ID: 620-10051-5

Date Collected: 02/27/23 15:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 18:33
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 16:42
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 14:19
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 13:27
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 00:57
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:27
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:07

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02-0204' Lab Sample ID: 620-10051-6

Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0204' Lab Sample ID: 620-10051-6

Date Collected: 02/27/23 15:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 18:59
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 14:29
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 15:37
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 13:46
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 03:57
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 18:55
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:09

Client Sample ID: 2023-MW-02-0406' Lab Sample ID: 620-10051-7

Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0406' Lab Sample ID: 620-10051-7

Date Collected: 02/27/23 15:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 84.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 19:25
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 14:58
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 16:17
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 14:04

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-MW-02-0406'

Lab Sample ID: 620-10051-7
Date Collected: 02/27/23 15:10
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 04:08
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:14
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:37

Client Sample ID: 2023-MW-02-0608'

Lab Sample ID: 620-10051-8
Date Collected: 02/27/23 15:15
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0608'

Lab Sample ID: 620-10051-8
Date Collected: 02/27/23 15:15
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 19:51
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 15:27
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 16:56
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 14:23
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 04:19
Total/NA	Prep	537 (mod)	RE		349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot	RE		349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)	RE	1	353187	VK3G	ELLE	03/15/23 01:30
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:11
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:39

Client Sample ID: 2023-MW-02-0810' Lab Sample ID: 620-10051-9

Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-0810' Lab Sample ID: 620-10051-9

Date Collected: 02/27/23 15:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 20:17
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 15:56
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 17:36
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 20:05
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 04:30
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 01:42
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:08
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:01

Client Sample ID: 2023-MW-02-1012' Lab Sample ID: 620-10051-10

Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-MW-02-1012' Lab Sample ID: 620-10051-10

Date Collected: 02/27/23 15:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			20322	CLR	EET NE	03/07/23 12:57
Total/NA	Analysis	8260C		1	20323	CLR	EET NE	03/07/23 20:42
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 16:24

Client Sample ID: 2023-MW-02-1012'

Lab Sample ID: 620-10051-10
Date Collected: 02/27/23 15:25
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 18:15
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 20:24
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 01:53
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 19:46
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 13:12

Client Sample ID: 2023-SB-16-0002'

Lab Sample ID: 620-10051-11
Date Collected: 03/01/23 08:55
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0002'

Lab Sample ID: 620-10051-11
Date Collected: 03/01/23 08:55
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 00:10
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 16:14
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 18:54
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 20:43
Total/NA	Prep	537 (mod)			355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot			355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)		1	355432	PY4D	ELLE	03/21/23 04:41
Total/NA	Prep	537 (mod)	RE		349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot	RE		349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)	RE	1	353187	VK3G	ELLE	03/15/23 02:04
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 19:49
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:48

Client Sample ID: 2023-SB-16-0204'

Lab Sample ID: 620-10051-12

Date Collected: 03/01/23 09:00

Matrix: Solid

Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0204'

Lab Sample ID: 620-10051-12

Date Collected: 03/01/23 09:00

Matrix: Solid

Date Received: 03/01/23 16:29

Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 00:35
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 15:17
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 19:34
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:02
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:15
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:01
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:50

Client Sample ID: 2023-SB-16-0406'

Lab Sample ID: 620-10051-13

Date Collected: 03/01/23 09:05

Matrix: Solid

Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0406'

Lab Sample ID: 620-10051-13

Date Collected: 03/01/23 09:05

Matrix: Solid

Date Received: 03/01/23 16:29

Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 00:59
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 16:53
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 20:13

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0406' Lab Sample ID: 620-10051-13

Date Collected: 03/01/23 09:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 89.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:20
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:37
Total/NA	Prep	3050B			350293	UAMX	ELLE	03/05/23 19:57
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 20:05
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:52

Client Sample ID: 2023-SB-16-0608' Lab Sample ID: 620-10051-14

Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0608' Lab Sample ID: 620-10051-14

Date Collected: 03/01/23 09:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 01:24
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 17:21
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 20:52
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:39
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:48
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:14
Total/NA	Prep	7471A			350297	UAMX	ELLE	03/05/23 20:31
Total/NA	Analysis	7471B		1	350702	UEFS	ELLE	03/06/23 17:54

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-0810' Lab Sample ID: 620-10051-15
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-0810' Lab Sample ID: 620-10051-15
Date Collected: 03/01/23 09:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 81.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 01:49
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 14:49
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 21:32
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 21:58
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 02:59
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 19:17
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		10	352132	T8CQ	ELLE	03/09/23 20:13
Total/NA	Prep	7471A			350764	UAMX	ELLE	03/06/23 22:34
Total/NA	Analysis	7471B		1	351145	UEFS	ELLE	03/07/23 18:40

Client Sample ID: 2023-SB-16-1012' Lab Sample ID: 620-10051-16
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-16-1012' Lab Sample ID: 620-10051-16
Date Collected: 03/01/23 09:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 75.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 02:14
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 20:11

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-16-1012' — Lab Sample ID: 620-10051-16

Date Collected: 03/01/23 09:20 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 75.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 22:50
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/03/23 22:17
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 03:10
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:31
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 04:35
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:48

Client Sample ID: 2023-SB-15-0002' — Lab Sample ID: 620-10051-17

Date Collected: 03/01/23 10:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0002' — Lab Sample ID: 620-10051-17

Date Collected: 03/01/23 10:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 96.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 14:43
Total/NA	Prep	3546			20241	BMS	EET NE	03/03/23 08:01
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 20:39
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 03:26
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 14:42
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/15/23 23:32
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 18:17
Total/NA	Prep	7471A			350294	UAMX	ELLE	03/05/23 20:11
Total/NA	Analysis	7471B		1	350681	UEFS	ELLE	03/06/23 11:59

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0204' Lab Sample ID: 620-10051-18
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0204' Lab Sample ID: 620-10051-18
Date Collected: 03/01/23 10:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 02:38
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 18:08
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/03/23 23:30
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 12:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 03:50
Total/NA	Prep	537 (mod)			349825	RC3V	ELLE	03/03/23 07:14
Total/NA	Cleanup	Extract Aliquot			349994	RC3V	ELLE	03/03/23 12:21
Total/NA	Analysis	EPA 537 (Mod)		1	353187	VK3G	ELLE	03/15/23 03:21
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:41
Total/NA	Prep	7471A			353327	HUH3	ELLE	03/14/23 11:01
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 14:21

Client Sample ID: 2023-SB-15-0406' Lab Sample ID: 620-10051-19
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660586	JLS	EET BUF	03/06/23 12:30
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0406' Lab Sample ID: 620-10051-19
Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 03:03
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 18:36
Total/NA	Prep	5035A_H			660379	JLS	EET BUF	03/03/23 07:17
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 00:09

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0406' Lab Sample ID: 620-10051-19

Date Collected: 03/01/23 10:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 13:08
Total/NA	Analysis	8082		10	20318	SFL	EET NE	03/08/23 00:49
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:06
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:55
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:15

Client Sample ID: 2023-SB-15-0608' Lab Sample ID: 620-10051-20

Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0608' Lab Sample ID: 620-10051-20

Date Collected: 03/01/23 10:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 15:30
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 19:04
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 05:24
Total/NA	Prep	3540C			20226	PRB	EET NE	03/02/23 13:08
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 04:09
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:17
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:19
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:17

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-0810' Lab Sample ID: 620-10051-21
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20201	DWC	EET NE	03/02/23 09:00

Client Sample ID: 2023-SB-15-0810' Lab Sample ID: 620-10051-21
Date Collected: 03/01/23 10:20 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 15:55
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 19:33
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 06:03
Total/NA	Prep	3540C			20339	PRB	EET NE	03/07/23 15:15
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 23:01
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:28
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:27
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:23

Client Sample ID: 2023-SB-15-1012' Lab Sample ID: 620-10051-22
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-15-1012' Lab Sample ID: 620-10051-22
Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/03/23 04:18
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 20:01
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 06:43

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-15-1012' Lab Sample ID: 620-10051-22

Date Collected: 03/01/23 10:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 15:38
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:39
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:51
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:41

Client Sample ID: 2023-FD-03 Lab Sample ID: 620-10051-23

Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-FD-03 Lab Sample ID: 620-10051-23

Date Collected: 03/01/23 08:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 90.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 16:20
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 20:29
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 07:22
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 00:22
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 00:50
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:26
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:50

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: Trip Blank-01 — Lab Sample ID: 620-10051-24

Date Collected: 03/01/23 00:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 14:15

Client Sample ID: 2023-SB-14-0002' — Lab Sample ID: 620-10051-25

Date Collected: 03/01/23 11:20 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-0002' — Lab Sample ID: 620-10051-25

Date Collected: 03/01/23 11:20 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 94.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 16:45
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 20:57
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 08:41
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 15:57
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:01
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:15
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:54

Client Sample ID: 2023-SB-14-0204' — Lab Sample ID: 620-10051-26

Date Collected: 03/01/23 11:25 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0204' Lab Sample ID: 620-10051-26

Date Collected: 03/01/23 11:25 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 17:10
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 21:25
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 09:20
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 00:41
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:12
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:03
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:37

Client Sample ID: 2023-SB-14-0406' Lab Sample ID: 620-10051-27

Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-0406' Lab Sample ID: 620-10051-27

Date Collected: 03/01/23 11:30 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 97.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 17:36
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20386	JS	EET NE	03/09/23 21:53
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 09:59
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20363	SFL	EET NE	03/08/23 16:15
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:23
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:44

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Client Sample ID: 2023-SB-14-0406'

Lab Sample ID: 620-10051-27
Date Collected: 03/01/23 11:30
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:52

Client Sample ID: 2023-SB-14-0608'

Lab Sample ID: 620-10051-28
Date Collected: 03/01/23 11:35
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-0608'

Lab Sample ID: 620-10051-28
Date Collected: 03/01/23 11:35
Matrix: Solid
Date Received: 03/01/23 16:29
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 18:02
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 18:11
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 10:39
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:00
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:34
Total/NA	Prep	3050B			350840	UAMX	ELLE	03/07/23 20:22
Total/NA	Analysis	6010D		1	351666	T8CQ	ELLE	03/08/23 22:23
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:25

Client Sample ID: 2023-SB-14-0810'

Lab Sample ID: 620-10051-29
Date Collected: 03/01/23 11:40
Matrix: Solid
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-0810' Lab Sample ID: 620-10051-29

Date Collected: 03/01/23 11:40 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 86.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 18:28
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 14:48
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 11:18
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:18
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 01:56
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 03:40
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:29

Client Sample ID: 2023-SB-14-1012' Lab Sample ID: 620-10051-30

Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-14-1012' Lab Sample ID: 620-10051-30

Date Collected: 03/01/23 11:45 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 18:54
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 15:17
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 11:57
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:37
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:08
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:38

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-14-1012' — Lab Sample ID: 620-10051-30

Date Collected: 03/01/23 11:45 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 83.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:27

Client Sample ID: Trip Blank-02 — Lab Sample ID: 620-10051-31

Date Collected: 03/01/23 00:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 14:40

Client Sample ID: 2023-SB-13-0002' — Lab Sample ID: 620-10051-32

Date Collected: 03/01/23 12:50 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0002' — Lab Sample ID: 620-10051-32

Date Collected: 03/01/23 12:50 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 13:50
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		5	20495	JS	EET NE	03/13/23 21:55
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/13/23 22:23
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 12:37
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		20	20363	SFL	EET NE	03/08/23 16:34
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 04:52
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:19
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 06:02
Total/NA	Prep	7471A			351222	UAMX	ELLE	03/08/23 00:46
Total/NA	Analysis	7471B		1	351811	S4PD	ELLE	03/09/23 08:10

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0204' Lab Sample ID: 620-10051-33

Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0204' Lab Sample ID: 620-10051-33

Date Collected: 03/01/23 12:55 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 19:45
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 15:46
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 13:16
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 01:56
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:03
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:30
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 03:56
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:35

Client Sample ID: 2023-FD-04 Lab Sample ID: 620-10051-34

Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-FD-04 Lab Sample ID: 620-10051-34

Date Collected: 03/01/23 08:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 20:11

Client Sample ID: 2023-FD-04 — Lab Sample ID: 620-10051-34

Date Collected: 03/01/23 08:05 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 94.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 16:15
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 13:56
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 02:15
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:14
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:41
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:07
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 13:00

Client Sample ID: 2023-SB-13-0406' — Lab Sample ID: 620-10051-35

Date Collected: 03/01/23 13:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0406' — Lab Sample ID: 620-10051-35

Date Collected: 03/01/23 13:00 — **Matrix: Solid**
Date Received: 03/01/23 16:29 — **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 20:37
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 16:44
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 14:35
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 02:34
Total/NA	Prep	537 (mod)	RE		355125	X5YV	ELLE	03/20/23 00:33
Total/NA	Cleanup	Extract Aliquot	RE		355128	X5YV	ELLE	03/20/23 00:55
Total/NA	Analysis	EPA 537 (Mod)	RE	1	355432	PY4D	ELLE	03/21/23 05:25
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 02:52

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0406' Lab Sample ID: 620-10051-35

Date Collected: 03/01/23 13:00 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 04:09
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:39

Client Sample ID: 2023-SB-13-0608' Lab Sample ID: 620-10051-36

Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-0608' Lab Sample ID: 620-10051-36

Date Collected: 03/01/23 13:05 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 96.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 21:03
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20495	JS	EET NE	03/13/23 22:51
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 15:54
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 02:53
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 03:03
Total/NA	Prep	3050B			350292	UAMX	ELLE	03/05/23 19:48
Total/NA	Analysis	6010D		1	352132	T8CQ	ELLE	03/09/23 18:48
Total/NA	Prep	7471A			350764	UAMX	ELLE	03/06/23 22:34
Total/NA	Analysis	7471B		1	351145	UEFS	ELLE	03/07/23 18:42

Client Sample ID: 2023-SB-13-0810' Lab Sample ID: 620-10051-37

Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-0810' Lab Sample ID: 620-10051-37

Date Collected: 03/01/23 13:10 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 21:29
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 17:13
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 16:33
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 03:12
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 03:14
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:13
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:46

Client Sample ID: 2023-SB-13-1012' Lab Sample ID: 620-10051-38

Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660588	JLS	EET BUF	03/06/23 12:31
Total/NA	Analysis	Moisture		1	20206	DWC	EET NE	03/02/23 09:46

Client Sample ID: 2023-SB-13-1012' Lab Sample ID: 620-10051-38

Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20295	CLR	EET NE	03/06/23 09:50
Total/NA	Analysis	8260C		1	20296	CLR	EET NE	03/06/23 14:16
Total/NA	Prep	3546			20399	BMS	EET NE	03/09/23 11:00
Total/NA	Analysis	8270D		1	20442	JS	EET NE	03/10/23 17:42
Total/NA	Prep	5035A_H			660381	JLS	EET BUF	03/03/23 07:25
Total/NA	Analysis	MAVPH		1	660382	JLS	EET BUF	03/04/23 17:13
Total/NA	Prep	3540C			20230	BMS	EET NE	03/02/23 13:19
Total/NA	Analysis	8082		1	20249	SFL	EET NE	03/04/23 03:31
Total/NA	Prep	537 (mod)			349822	RC3V	ELLE	03/03/23 07:13
Total/NA	Cleanup	Extract Aliquot			349993	RC3V	ELLE	03/03/23 12:20
Total/NA	Analysis	EPA 537 (Mod)		1	353950	PY4D	ELLE	03/16/23 03:25
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		1	352284	T8CQ	ELLE	03/10/23 05:48

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-13-1012' Lab Sample ID: 620-10051-38

Date Collected: 03/01/23 13:15 **Matrix: Solid**
Date Received: 03/01/23 16:29 **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			351221	UAMX	ELLE	03/08/23 00:33
Total/NA	Analysis	6010D		10	352284	T8CQ	ELLE	03/10/23 05:51
Total/NA	Prep	7471A			351182	UAMX	ELLE	03/07/23 20:58
Total/NA	Analysis	7471B		1	351485	S4PD	ELLE	03/08/23 12:44

Client Sample ID: Trip Blank-03 Lab Sample ID: 620-10051-39

Date Collected: 03/01/23 00:00 **Matrix: Solid**
Date Received: 03/01/23 16:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20198	KFS	EET NE	03/01/23 20:10
Total/NA	Prep	5035			20252	CLR	EET NE	03/03/23 10:32
Total/NA	Analysis	8260C		1	20253	CLR	EET NE	03/03/23 15:05

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10051-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10051-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10051-1	2023-MW-01-0406'	Solid	02/27/23 13:40	03/01/23 16:29
620-10051-2	2023-MW-01-0608'	Solid	02/27/23 13:45	03/01/23 16:29
620-10051-3	2023-MW-01-0810'	Solid	02/27/23 13:50	03/01/23 16:29
620-10051-4	2023-MW-01-1012'	Solid	02/27/23 13:55	03/01/23 16:29
620-10051-5	2023-MW-02-0002'	Solid	02/27/23 15:00	03/01/23 16:29
620-10051-6	2023-MW-02-0204'	Solid	02/27/23 15:05	03/01/23 16:29
620-10051-7	2023-MW-02-0406'	Solid	02/27/23 15:10	03/01/23 16:29
620-10051-8	2023-MW-02-0608'	Solid	02/27/23 15:15	03/01/23 16:29
620-10051-9	2023-MW-02-0810'	Solid	02/27/23 15:20	03/01/23 16:29
620-10051-10	2023-MW-02-1012'	Solid	02/27/23 15:25	03/01/23 16:29
620-10051-11	2023-SB-16-0002'	Solid	03/01/23 08:55	03/01/23 16:29
620-10051-12	2023-SB-16-0204'	Solid	03/01/23 09:00	03/01/23 16:29
620-10051-13	2023-SB-16-0406'	Solid	03/01/23 09:05	03/01/23 16:29
620-10051-14	2023-SB-16-0608'	Solid	03/01/23 09:10	03/01/23 16:29
620-10051-15	2023-SB-16-0810'	Solid	03/01/23 09:15	03/01/23 16:29
620-10051-16	2023-SB-16-1012'	Solid	03/01/23 09:20	03/01/23 16:29
620-10051-17	2023-SB-15-0002'	Solid	03/01/23 10:00	03/01/23 16:29
620-10051-18	2023-SB-15-0204'	Solid	03/01/23 10:05	03/01/23 16:29
620-10051-19	2023-SB-15-0406'	Solid	03/01/23 10:10	03/01/23 16:29
620-10051-20	2023-SB-15-0608'	Solid	03/01/23 10:15	03/01/23 16:29
620-10051-21	2023-SB-15-0810'	Solid	03/01/23 10:20	03/01/23 16:29
620-10051-22	2023-SB-15-1012'	Solid	03/01/23 10:25	03/01/23 16:29
620-10051-23	2023-FD-03	Solid	03/01/23 08:00	03/01/23 16:29
620-10051-24	Trip Blank-01	Solid	03/01/23 00:00	03/01/23 16:29
620-10051-25	2023-SB-14-0002'	Solid	03/01/23 11:20	03/01/23 16:29
620-10051-26	2023-SB-14-0204'	Solid	03/01/23 11:25	03/01/23 16:29
620-10051-27	2023-SB-14-0406'	Solid	03/01/23 11:30	03/01/23 16:29
620-10051-28	2023-SB-14-0608'	Solid	03/01/23 11:35	03/01/23 16:29
620-10051-29	2023-SB-14-0810'	Solid	03/01/23 11:40	03/01/23 16:29
620-10051-30	2023-SB-14-1012'	Solid	03/01/23 11:45	03/01/23 16:29
620-10051-31	Trip Blank-02	Solid	03/01/23 00:00	03/01/23 16:29
620-10051-32	2023-SB-13-0002'	Solid	03/01/23 12:50	03/01/23 16:29
620-10051-33	2023-SB-13-0204'	Solid	03/01/23 12:55	03/01/23 16:29
620-10051-34	2023-FD-04	Solid	03/01/23 08:05	03/01/23 16:29
620-10051-35	2023-SB-13-0406'	Solid	03/01/23 13:00	03/01/23 16:29
620-10051-36	2023-SB-13-0608'	Solid	03/01/23 13:05	03/01/23 16:29
620-10051-37	2023-SB-13-0810'	Solid	03/01/23 13:10	03/01/23 16:29
620-10051-38	2023-SB-13-1012'	Solid	03/01/23 13:15	03/01/23 16:29
620-10051-39	Trip Blank-03	Solid	03/01/23 00:00	03/01/23 16:29

620-10051 Chain of Custody

10051

Chain of Custody Record

eurofins | Environment Testing

	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 3
Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 3 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010D/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							F, J		F					
01	2023-MW-01-0406'	2/27/23	13:40	G	Solid		Y	✓	✓	✓	✓	✓	✓		
02	2023-MW-01-0608'		13:45		Solid			✓	✓	✓	✓	✓	✓		
03	2023-MW-01-0810'		13:50		Solid			✓	✓	✓	✓	✓	✓		
04	2023-MW-01-1012'		13:55		Solid			✓	✓	✓	✓	✓	✓		
05	2023-MW-02-0002'		15:00		Solid			✓	✓	✓	✓	✓	✓		
06	2023-MW-02-0204'		15:05		Solid			✓	✓	✓	✓	✓	✓		
07	2023-MW-02-0406'		15:10		Solid			✓	✓	✓	✓	✓	✓		
08	2023-MW-02-0608'		15:15		Solid			✓	✓	✓	✓	✓	✓		
09	2023-MW-02-0810'		15:20		Solid			✓	✓	✓	✓	✓	✓		
10	2023-MW-02-1012'	↓	15:25		Solid			✓	✓	✓	✓	✓	✓		
11	2023-SB-16-0002'	3/1/23	08:55	↓	Solid			✓	✓	✓	✓	✓	✓		

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time: 3/1/23 14:15	Company	Received by:	Date/Time: 3/1/23 1415	Company: EWE
Relinquished by:	Date/Time: 3/1/23 16:29	Company EWE	Received by:	Date/Time: 3/1/23 16:29	Company: GHD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.0 +0.2 1_2#5

3/22/2023

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown RI 02852
Phone: 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 4
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 4 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							FJ		F					
12	2023-SB-16 - 0204'	3/1/23	09:00	G	Solid			✓	✓	✓	✓	✓	✓		
13	2023-SB-16 - 0406'		09:05		Solid			✓	✓	✓	✓	✓	✓		
14	2023-SB-16 - 0608'		09:10		Solid			✓	✓	✓	✓	✓	✓		
15	2023-SB-16 - 0810'		09:15		Solid			✓	✓	✓	✓	✓	✓		
16	2023-SB-16 - 1012'		09:20		Solid			✓	✓	✓	✓	✓	✓		
17	2023-SB-15 - 0002'		10:00		Solid	Y		✓	✓	✓	✓	✓	✓		
18	2023-SB-15-0204'		10:05		Solid			✓	✓	✓	✓	✓	✓		
19	2023-SB-15-0406'		10:10		Solid			✓	✓	✓	✓	✓	✓		
20	2023-SB-15-0608'		10:15		Solid			✓	✓	✓	✓	✓	✓		
21	2023-SB-15-0810'		10:20		Solid			✓	✓	✓	✓	✓	✓		
22	2023-SB-15-1012'	↓	10:25	↓	Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EQuIS EDD

Special Instructions/QC Requirements. email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 14:15	ENE	[signature]	3/1/23 1415	ENE
2	[signature]	3/1/23 16:19	ENE		3/1/23 16:19	ENE
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks. 1.0 to 2 1.2 FTS

Ver: 06/08/2021

3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF+KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.5
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 5 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S 00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PUBS 8082 (50nm LOQ)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							FJ		F					
3	2023-FD-03	3/1/23	08:00	G	Solid			✓	✓	✓	✓	✓	✓		
4	TRIP BLANK-01				Solid			✓							
25	2023-SB-14-0002'		11:20		Solid			✓	✓	✓	✓	✓	✓		
26	2023-SB-14-0204'		11:25		Solid			✓	✓	✓	✓	✓	✓		
27	2023-SB-14-0406'		11:30		Solid			✓	✓	✓	✓	✓	✓		
28	2023-SB-14-0608'		11:35		Solid			✓	✓	✓	✓	✓	✓		
29	2023-SB-14-0810'		11:40		Solid			✓	✓	✓	✓	✓	✓		
30	2023-SB-14-1012'		11:45		Solid			✓	✓	✓	✓	✓	✓		
31	TRIP BLANK-02				Solid			✓							
32	2023-SB-13-0002'		12:50		Solid			✓	✓	✓	✓	✓	✓		
33	2023-SB-13-0204'		12:55		Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to ~~dmcgrath~~ dmcgrath@nobis-group.com

Empty Kit Relinquished by: ~~Equis~~	Date:	Time	Method of Shipment:
Relinquished by: BFR	Date/Time: 3/1/23 14:15	Company: ENE	Received by: BFR
Relinquished by: BFR	Date/Time: 3/1/23 16:29	Company: ENE	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.0 +0.2 1.2 #6

Ver: 06/08/2021

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3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

10051

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 6
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 6 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes.
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
				Preservation Code:				J		F					
34	2023-FD-04	3/1/23	08 05	G	Solid			✓	✓	✓	✓	✓	✓		
35	2023-SB-13-0406'		13:00		Solid			✓	✓	✓	✓	✓	✓		
36	2023-SB-13-0608'		13:05		Solid			✓	✓	✓	✓	✓	✓		
37	2023-SB-13-0810'		13:10		Solid			✓	✓	✓	✓	✓	✓		
38	2023-SB-13-1012'		13:15		Solid			✓	✓	✓	✓	✓	✓		
39	TRIP BLANK-03				Solid			✓							
					Solid										
					Solid										
					Solid										
					Solid										
					Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		3/1/23 14:15			3/1/23 14:15	Eurofins
2		3/1/23 16:29	ENE		3/1/23 16:29	Eurofins
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.0 to .8 1.2 IR6

Ver: 06/08/2021

3/22/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-01-0406' (620-10051-1)	2/27/23	13:40 Eastern		Solid			X	X	X	2	
2023-MW-01-0406' (620-10051-1MS)	2/27/23	13:40 Eastern	MS	Solid			X	X	X	2	
2023-MW-01-0406' (620-10051-1MSD)	2/27/23	13:40 Eastern	MSD	Solid			X	X	X	2	
2023-MW-01-0608' (620-10051-2)	2/27/23	13:45 Eastern		Solid			X	X	X	2	
2023-MW-01-0810' (620-10051-3)	2/27/23	13:50 Eastern		Solid			X	X	X	2	
2023-MW-01-1012' (620-10051-4)	2/27/23	13:55 Eastern		Solid			X	X	X	2	
2023-MW-02-0002' (620-10051-5)	2/27/23	15:00 Eastern		Solid			X	X	X	2	
2023-MW-02-0204' (620-10051-6)	2/27/23	15:05 Eastern		Solid			X	X	X	2	
2023-MW-02-0406' (620-10051-7)	2/27/23	15:10 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 18:00	ET			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-02-0608' (620-10051-8)	2/27/23	15:15 Eastern		Solid			X	X	X	2	
2023-MW-02-0810' (620-10051-9)	2/27/23	15:20 Eastern		Solid			X	X	X	2	
2023-MW-02-1012' (620-10051-10)	2/27/23	15:25 Eastern		Solid			X	X	X	2	
2023-SB-16-0002' (620-10051-11)	3/1/23	08:55 Eastern		Solid			X	X	X	1	
2023-SB-16-0204' (620-10051-12)	3/1/23	09:00 Eastern		Solid			X	X	X	2	
2023-SB-16-0406' (620-10051-13)	3/1/23	09:05 Eastern		Solid			X	X	X	2	
2023-SB-16-0608' (620-10051-14)	3/1/23	09:10 Eastern		Solid			X	X	X	2	
2023-SB-16-0810' (620-10051-15)	3/1/23	09:15 Eastern		Solid			X	X	X	2	
2023-SB-16-1012' (620-10051-16)	3/1/23	09:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 18:00	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-15-0002' (620-10051-17)	3/1/23	10:00 Eastern		Solid			X	X	X	2	
2023-SB-15-0002' (620-10051-17MS)	3/1/23	10:00 Eastern	MS	Solid			X	X	X	2	
2023-SB-15-0002' (620-10051-17MSD)	3/1/23	10:00 Eastern	MSD	Solid			X	X	X	2	
2023-SB-15-0204' (620-10051-18)	3/1/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-15-0406' (620-10051-19)	3/1/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-15-0608' (620-10051-20)	3/1/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-15-0810' (620-10051-21)	3/1/23	10:20 Eastern		Solid			X	X	X	2	
2023-SB-15-1012' (620-10051-22)	3/1/23	10:25 Eastern		Solid			X	X	X	2	
2023-FD-03 (620-10051-23)	3/1/23	08:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 18:00	ELET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ELET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-14-0002' (620-10051-25)	3/1/23	11:20 Eastern		Solid			X	X	X	2	
2023-SB-14-0204' (620-10051-26)	3/1/23	11:25 Eastern		Solid			X	X	X	2	
2023-SB-14-0406' (620-10051-27)	3/1/23	11:30 Eastern		Solid			X	X	X	2	
2023-SB-14-0608' (620-10051-28)	3/1/23	11:35 Eastern		Solid			X	X	X	3	
2023-SB-14-0810' (620-10051-29)	3/1/23	11:40 Eastern		Solid			X	X	X	2	
2023-SB-14-1012' (620-10051-30)	3/1/23	11:45 Eastern		Solid			X	X	X	2	
2023-SB-13-0002' (620-10051-32)	3/1/23	12:50 Eastern		Solid			X	X	X	2	
2023-SB-13-0204' (620-10051-33)	3/1/23	12:55 Eastern		Solid			X	X	X	2	
2023-FD-04 (620-10051-34)	3/1/23	08:05 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/1/23 1800	ELT			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 0905	Company ELLET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8471.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
Preservation Code:											
2023-SB-13-0406' (620-10051-35)	3/1/23	13:00 Eastern		Solid			X	X	X	2	
2023-SB-13-0608' (620-10051-36)	3/1/23	13:05 Eastern		Solid			X	X	X	1	
2023-SB-13-0810' (620-10051-37)	3/1/23	13:10 Eastern		Solid			X	X	X	2	
2023-SB-13-1012' (620-10051-38)	3/1/23	13:15 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/1/23 1600	ET			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/2/23 09:05	Company ET

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 2.3

IM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCl; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-01-0406' (620-10051-1)	2/27/23	13:40 Eastern		Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MS)	2/27/23	13:40 Eastern	MS	Solid			X	X	1	
2023-MW-01-0406' (620-10051-1MSD)	2/27/23	13:40 Eastern	MSD	Solid			X	X	1	
2023-MW-01-0608' (620-10051-2)	2/27/23	13:45 Eastern		Solid			X	X	1	
2023-MW-01-0810' (620-10051-3)	2/27/23	13:50 Eastern		Solid			X	X	1	
2023-MW-01-1012' (620-10051-4)	2/27/23	13:55 Eastern		Solid			X	X	1	
2023-MW-02-0002' (620-10051-5)	2/27/23	15:00 Eastern		Solid			X	X	1	
2023-MW-02-0204' (620-10051-6)	2/27/23	15:05 Eastern		Solid			X	X	1	
2023-MW-02-0406' (620-10051-7)	2/27/23	15:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 18:00	Eurofins	[signature]		
2				[signature]	3-2-23 950	TAB
3						

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-02-0608' (620-10051-8)	2/27/23	15:15 Eastern		Solid			X	X	1	
2023-MW-02-0810' (620-10051-9)	2/27/23	15:20 Eastern		Solid			X	X	1	
2023-MW-02-1012' (620-10051-10)	2/27/23	15:25 Eastern		Solid			X	X	1	
2023-SB-16-0002' (620-10051-11)	3/1/23	08:55 Eastern		Solid			X	X	1	
2023-SB-16-0204' (620-10051-12)	3/1/23	09:00 Eastern		Solid			X	X	1	
2023-SB-16-0406' (620-10051-13)	3/1/23	09:05 Eastern		Solid			X	X	1	
2023-SB-16-0608' (620-10051-14)	3/1/23	09:10 Eastern		Solid			X	X	1	
2023-SB-16-0810' (620-10051-15)	3/1/23	09:15 Eastern		Solid			X	X	1	
2023-SB-16-1012' (620-10051-16)	3/1/23	09:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	[signature]	3/1/23 18:00	EUE	[signature]		
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-15-0002' (620-10051-17)	3/1/23	10:00 Eastern		Solid			X	X	1	
2023-SB-15-0002' (620-10051-17MS)	3/1/23	10:00 Eastern	MS	Solid			X	X	1	
2023-SB-15-0002' (620-10051-17MSD)	3/1/23	10:00 Eastern	MSD	Solid			X	X	1	
2023-SB-15-0204' (620-10051-18)	3/1/23	10:05 Eastern		Solid			X	X	1	
2023-SB-15-0406' (620-10051-19)	3/1/23	10:10 Eastern		Solid			X	X	1	
2023-SB-15-0608' (620-10051-20)	3/1/23	10:15 Eastern		Solid			X	X	1	
2023-SB-15-0810' (620-10051-21)	3/1/23	10:20 Eastern		Solid			X	X	1	
2023-SB-15-1012' (620-10051-22)	3/1/23	10:25 Eastern		Solid			X	X	1	
2023-FD-03 (620-10051-23)	3/1/23	08:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	3/1/23 11:00	Eur	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by: pg	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-14-0002' (620-10051-25)	3/1/23	11:20 Eastern		Solid			X	X	1	
2023-SB-14-0204' (620-10051-26)	3/1/23	11:25 Eastern		Solid			X	X	1	
2023-SB-14-0406' (620-10051-27)	3/1/23	11:30 Eastern		Solid			X	X	1	
2023-SB-14-0608' (620-10051-28)	3/1/23	11:35 Eastern		Solid			X	X	1	
2023-SB-14-0810' (620-10051-29)	3/1/23	11:40 Eastern		Solid			X	X	1	
2023-SB-14-1012' (620-10051-30)	3/1/23	11:45 Eastern		Solid			X	X	1	
2023-SB-13-0002' (620-10051-32)	3/1/23	12:50 Eastern		Solid			X	X	1	
2023-SB-13-0204' (620-10051-33)	3/1/23	12:55 Eastern		Solid			X	X	1	
2023-FD-04 (620-10051-34)	3/1/23	08:05 Eastern		Solid			X	X	1	

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Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/1/23 1810	EuE	pg		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8472.5
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 5 of 5
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10051-1
Address: 10 Hazelwood Drive,	Due Date Requested: 3/10/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-13-0406' (620-10051-35)	3/1/23	13:00 Eastern		Solid			X	X	1	
2023-SB-13-0608' (620-10051-36)	3/1/23	13:05 Eastern		Solid			X	X	1	
2023-SB-13-0810' (620-10051-37)	3/1/23	13:10 Eastern		Solid			X	X	1	
2023-SB-13-1012' (620-10051-38)	3/1/23	13:15 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/1/23 18:00	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10051-1

Login Number: 10051
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10051-1

Login Number: 10051
List Number: 3
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/02/23 01:53 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10051-1

Login Number: 10051
List Number: 2
Creator: McCaskey, Jonathan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/02/23 10:43 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 3/14/2023 4:09:21 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10021-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

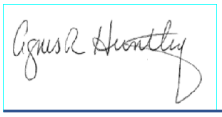
See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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3/14/2023 4:09:21 PM

Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10021-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10021-1 through 620-10021-16

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/14/2023

Job ID: 620-10021-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10021-1

Receipt
The samples were received on 2/27/2023 4:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 620-20152 exhibited % difference of > 20% for the following analyte: Vinyl chloride; however, the results of the LCS were within the CCV acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 20% difference from the initial calibration. According to the laboratory standard operating procedure, the LCS is acceptable if it meets the CCV acceptance criteria.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 620-20152 recovered outside control limits but were greater than 10% for the following analytes: Dichlorodifluoromethane and Chloromethane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The associated samples are: (LCS 620-20151/1-A) and (LCSD 620-20151/2-A).

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Dichlorodifluoromethane.
(CCVIS 620-20152/3)

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20238 and analytical batch 620-20239 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20217 and analytical batch 620-20317 recovered outside control limits for the following analyte(s): Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8270D: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzidine. These analytes may have a %D >60%.

Method 8270D: The following sample(s) is a QA/QC reference sample and is not subject to holding time. (620-9817-A-51-A MDLS).

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20217 and analytical batch 620-20317 recovered outside control limits for the following analytes: Benzidine.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20349/4) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 2,4-Dinitrophenol, Benzidine, Bis(2-ethylhexyl) phthalate, Carbazole, Di-n-butyl phthalate, Di-n-octyl phthalate and Pentachloronitrobenzene.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 2023-MW-01-0002' (620-10021-14). These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20349 recovered above the upper control limit for

Job ID: 620-10021-1 (Continued)

Laboratory: Eurofins New England (Continued)

Bis(2-ethylhexyl) phthalate and Di-n-butyl phthalate. The following samples had detections above the reporting limit for these analytes: 2023-SB-02-0002' (620-10021-1), 2023-SB-01-0002' (620-10021-7), 2023-FD-01 (620-10021-13) and 2023-MW-01-0002' (620-10021-14). The results are considered bias high.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20386/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, Benzidine, Di-n-butyl phthalate, Di-n-octyl phthalate, Hexachlorobutadiene and Pentachloronitrobenzene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-660132 and analytical batch 480-660138 contained Naphthalene and C9-C10 Aromatics above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

Method 537 (modified): The LCS labeled isotope(s): d5-NEtPFOSA recovery associated with samples: 2023-SB-02-0002' (620-10021-1), 2023-SB-02-0204' (620-10021-2), 2023-SB-02-0406' (620-10021-3), 2023-SB-02-0608' (620-10021-4), 2023-SB-02-0810' (620-10021-5), 2023-SB-02-1012' (620-10021-6), 2023-SB-01-0002' (620-10021-7), 2023-SB-01-0406' (620-10021-9), 2023-SB-01-0608' (620-10021-10), 2023-SB-01-0810' (620-10021-11), 2023-SB-01-1012' (620-10021-12), 2023-FD-01 (620-10021-13), 2023-MW-01-0002' (620-10021-14) and 2023-MW-01-0204' (620-10021-15) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

Method 537 (modified): Isotope dilution analyte (IDA) recoveries for d3-NMeFOSAA and d5-NEtFOSAA were outside QC acceptance criteria in sample 2023-SB-01-0204' (620-10021-8). The isotope dilution technique corrects the results for the target analytes for any losses that occur during the sample extraction and/or concentration. For all IDAs, the signal to noise was greater than 10:1, therefore the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0002' — Lab Sample ID: 620-10021-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0468	J	0.0746	0.0419	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0570	J	0.0746	0.0533	mg/Kg	1	☼	8270D	Total/NA
Benzoic acid	0.773		0.369	0.254	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	8.05		0.933	0.238	mg/Kg	5	☼	8270D	Total/NA
Butyl benzyl phthalate	0.0462	J	0.369	0.0370	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0712	J	0.0746	0.0421	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	1.06		0.369	0.0395	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.117		0.0746	0.0437	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0680	J	0.0746	0.0423	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.163		0.0746	0.0411	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0387	J B	0.0449	0.0306	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.472		0.0227	0.0177	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.80	J	2.92	1.36	mg/Kg	1	☼	6010D	Total/NA
Barium	23.9		0.487	0.146	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.416	J	0.487	0.0974	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.90	B	1.46	0.341	mg/Kg	1	☼	6010D	Total/NA
Lead	19.2		1.46	0.584	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.25		0.974	0.253	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.37		0.974	0.419	mg/Kg	1	☼	6010D	Total/NA
Zinc	33.9		1.95	0.779	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0326	J	0.0672	0.0224	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-02-0204' — Lab Sample ID: 620-10021-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.00945	J B	0.0412	0.00924	mg/Kg	1	☼	8260C	Total/NA
Arsenic	2.29	J	3.23	1.51	mg/Kg	1	☼	6010D	Total/NA
Barium	13.0		0.539	0.162	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.441	J	0.539	0.108	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.59	B	1.62	0.377	mg/Kg	1	☼	6010D	Total/NA
Lead	3.02		1.62	0.647	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.07		1.08	0.280	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.17		1.08	0.464	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.4		2.16	0.862	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-0406' — Lab Sample ID: 620-10021-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0970		0.0240	0.0187	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.05	J	2.67	1.25	mg/Kg	1	☼	6010D	Total/NA
Barium	12.1		0.445	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.371	J	0.445	0.0891	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.72	B	1.34	0.312	mg/Kg	1	☼	6010D	Total/NA
Lead	4.40		1.34	0.534	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.49		0.891	0.232	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.60		0.891	0.383	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.36		1.78	0.712	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-0608' — Lab Sample ID: 620-10021-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.43	J	2.44	1.14	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-02-0608' (Continued)

Lab Sample ID: 620-10021-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	19.0		0.406	0.122	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.413		0.406	0.0813	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.69	B	1.22	0.284	mg/Kg	1	☼	6010D	Total/NA
Lead	2.55		1.22	0.488	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.03		0.813	0.211	mg/Kg	1	☼	6010D	Total/NA
Vanadium	12.1		0.813	0.349	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.6		1.63	0.650	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-0810'

Lab Sample ID: 620-10021-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.17		2.77	1.29	mg/Kg	1	☼	6010D	Total/NA
Barium	65.8	F2 F1	0.462	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.21	B	0.462	0.0923	mg/Kg	1	☼	6010D	Total/NA
Chromium	15.8	F1	1.38	0.323	mg/Kg	1	☼	6010D	Total/NA
Lead	6.33	F2 F1	1.38	0.554	mg/Kg	1	☼	6010D	Total/NA
Nickel	9.74		0.923	0.240	mg/Kg	1	☼	6010D	Total/NA
Vanadium	27.7	F1	0.923	0.397	mg/Kg	1	☼	6010D	Total/NA
Zinc	37.9	F1	1.85	0.739	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-02-1012'

Lab Sample ID: 620-10021-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.59	J	2.97	1.39	mg/Kg	1	☼	6010D	Total/NA
Barium	13.1		0.495	0.149	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.317	J	0.495	0.0990	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.49	B	1.49	0.347	mg/Kg	1	☼	6010D	Total/NA
Lead	2.03		1.49	0.594	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.03		0.990	0.257	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.12		0.990	0.426	mg/Kg	1	☼	6010D	Total/NA
Zinc	7.79		1.98	0.792	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-01-0002'

Lab Sample ID: 620-10021-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	2.73		0.175	0.0445	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.142	J	0.345	0.0346	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0518	J	0.0698	0.0395	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.120	J	0.345	0.0369	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.112		0.0698	0.0409	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0810		0.0698	0.0396	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.120		0.0698	0.0385	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	1.41		0.100	0.0781	mg/Kg	5	☼	8082	Total/NA
Arsenic	2.97	J	3.06	1.43	mg/Kg	1	☼	6010D	Total/NA
Barium	19.1		0.510	0.153	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.457	J	0.510	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.52	B	1.53	0.357	mg/Kg	1	☼	6010D	Total/NA
Lead	6.92		1.53	0.612	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.99		1.02	0.265	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.46		1.02	0.439	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.3		2.04	0.817	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0227	J	0.0588	0.0196	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0204'

Lab Sample ID: 620-10021-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrophenol	1.29		0.354	0.0931	mg/Kg	1	☼	8270D	Total/NA
Aniline	0.0374	J	0.354	0.0271	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.0452	J	0.0716	0.0402	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0531	J	0.0716	0.0512	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	1.26		0.179	0.0456	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.125	J	0.354	0.0355	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.0663	J	0.0716	0.0404	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.120	J	0.354	0.0379	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.110		0.0716	0.0420	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.118		0.0716	0.0406	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.162		0.0716	0.0395	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.0719	J B	0.0723	0.0492	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	1.21		0.102	0.0791	mg/Kg	5	☼	8082	Total/NA
Arsenic	3.95		3.18	1.48	mg/Kg	1	☼	6010D	Total/NA
Barium	26.1		0.529	0.159	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.603		0.529	0.106	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.55	B	1.59	0.371	mg/Kg	1	☼	6010D	Total/NA
Lead	7.11		1.59	0.635	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.65		1.06	0.275	mg/Kg	1	☼	6010D	Total/NA
Vanadium	13.1		1.06	0.455	mg/Kg	1	☼	6010D	Total/NA
Zinc	24.3		2.12	0.847	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0246	J	0.0604	0.0201	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-01-0406'

Lab Sample ID: 620-10021-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0137	J B	0.0529	0.0118	mg/Kg	1	☼	8260C	Total/NA
2,4-Dinitrophenol	0.114	J	0.375	0.0986	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.366		0.190	0.0483	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.369		0.0224	0.0174	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.65	J	2.94	1.37	mg/Kg	1	☼	6010D	Total/NA
Barium	14.0		0.490	0.147	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.412	J	0.490	0.0980	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.92	B	1.47	0.343	mg/Kg	1	☼	6010D	Total/NA
Lead	3.79		1.47	0.588	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.51		0.980	0.255	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.86		0.980	0.421	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.0		1.96	0.784	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-01-0608'

Lab Sample ID: 620-10021-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.17	J	3.02	1.41	mg/Kg	1	☼	6010D	Total/NA
Barium	17.9		0.504	0.151	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.414	J	0.504	0.101	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.28	B	1.51	0.352	mg/Kg	1	☼	6010D	Total/NA
Lead	2.42		1.51	0.604	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.09		1.01	0.262	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.35		1.01	0.433	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.7		2.01	0.806	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0810'

Lab Sample ID: 620-10021-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.21	J	2.44	1.14	mg/Kg	1	☼	6010D	Total/NA
Barium	13.8		0.407	0.122	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.288	J	0.407	0.0813	mg/Kg	1	☼	6010D	Total/NA
Chromium	2.83	B	1.22	0.285	mg/Kg	1	☼	6010D	Total/NA
Lead	1.91		1.22	0.488	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.67		0.813	0.211	mg/Kg	1	☼	6010D	Total/NA
Vanadium	4.34		0.813	0.350	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.57		1.63	0.651	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-01-1012'

Lab Sample ID: 620-10021-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.30	J	2.60	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	15.1		0.433	0.130	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.317	J	0.433	0.0865	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.82	B	1.30	0.303	mg/Kg	1	☼	6010D	Total/NA
Lead	2.04		1.30	0.519	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.50		0.865	0.225	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.78		0.865	0.372	mg/Kg	1	☼	6010D	Total/NA
Zinc	9.93		1.73	0.692	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-01

Lab Sample ID: 620-10021-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.536		0.190	0.0484	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.0477	J	0.376	0.0377	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.432		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.14	J	3.01	1.40	mg/Kg	1	☼	6010D	Total/NA
Barium	13.8		0.501	0.150	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.368	J	0.501	0.100	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.83	B	1.50	0.351	mg/Kg	1	☼	6010D	Total/NA
Lead	4.04		1.50	0.602	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.19		1.00	0.261	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.52		1.00	0.431	mg/Kg	1	☼	6010D	Total/NA
Zinc	10.8		2.01	0.802	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-01-0002'

Lab Sample ID: 620-10021-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	1.34		0.355	0.233	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.656		0.355	0.205	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.21		0.355	0.200	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2.09		0.355	0.254	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.05		0.355	0.294	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.77		0.355	0.277	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.12		0.355	0.276	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.51		0.355	0.201	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.525		0.355	0.271	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.770	J	1.76	0.188	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.00		0.355	0.208	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.08		0.355	0.301	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.620		0.355	0.201	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-01-0002' (Continued) — Lab Sample ID: 620-10021-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	2.50		0.355	0.196	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.967		0.0423	0.0329	mg/Kg	2	☼	8082	Total/NA
Arsenic	4.30		2.70	1.26	mg/Kg	1	☼	6010D	Total/NA
Barium	65.2		0.449	0.135	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.627		0.449	0.0898	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.152	J	0.449	0.0898	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.79	B	1.35	0.314	mg/Kg	1	☼	6010D	Total/NA
Lead	29.1		1.35	0.539	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.81		0.898	0.234	mg/Kg	1	☼	6010D	Total/NA
Vanadium	11.6		0.898	0.386	mg/Kg	1	☼	6010D	Total/NA
Zinc	54.8		1.80	0.719	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0732		0.0597	0.0199	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-01-0204' — Lab Sample ID: 620-10021-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00905	J	0.0106	0.00284	mg/Kg	1	☼	8260C	Total/NA
PCB-1254	0.0383		0.0237	0.0185	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.74		3.53	1.65	mg/Kg	1	☼	6010D	Total/NA
Barium	29.4		0.588	0.176	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.872		0.588	0.118	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.75	B	1.76	0.412	mg/Kg	1	☼	6010D	Total/NA
Lead	12.0	F1	1.76	0.705	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.70		1.18	0.306	mg/Kg	1	☼	6010D	Total/NA
Vanadium	15.9		1.18	0.506	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.1		2.35	0.941	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0405	J	0.0701	0.0234	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 620-10021-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0360	J B	0.0500	0.0112	mg/Kg	1		8260C	Total/NA
Methylene Chloride	0.0107		0.0100	0.00268	mg/Kg	1		8260C	Total/NA
Toluene	0.00615		0.00500	0.00317	mg/Kg	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00469	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Acetone	ND		0.0469	0.0105	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Acrylonitrile	ND		0.00469	0.00281	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Benzene	ND		0.00469	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromobenzene	ND		0.00469	0.00312	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromochloromethane	ND		0.00469	0.00266	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromodichloromethane	ND		0.00469	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromoform	ND		0.00469	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Bromomethane	ND		0.00937	0.00584	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2-Butanone (MEK)	ND		0.00937	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
n-Butylbenzene	ND		0.00937	0.00502	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
sec-Butylbenzene	ND		0.00469	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
tert-Butylbenzene	ND		0.00469	0.00369	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Carbon disulfide	ND		0.00937	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Carbon tetrachloride	ND		0.00469	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chlorobenzene	ND		0.00469	0.00343	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chloroethane	ND		0.00937	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chloroform	ND		0.00469	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Chloromethane	ND	*-	0.00937	0.00360	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2-Chlorotoluene	ND		0.00469	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
4-Chlorotoluene	ND		0.00469	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dibromo-3-Chloropropane	ND		0.00937	0.00397	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Dibromochloromethane	ND		0.00469	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dibromoethane (EDB)	ND		0.00469	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Dibromomethane	ND		0.00469	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dichlorobenzene	ND		0.00469	0.00435	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3-Dichlorobenzene	ND		0.00469	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,4-Dichlorobenzene	ND		0.00469	0.00444	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00937	0.00251	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1-Dichloroethane	ND		0.00469	0.00318	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dichloroethane	ND		0.00469	0.00316	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1-Dichloroethene	ND		0.00469	0.00287	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
cis-1,2-Dichloroethene	ND		0.00469	0.00271	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
trans-1,2-Dichloroethene	ND		0.00469	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2-Dichloropropane	ND		0.00469	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3-Dichloropropane	ND		0.00469	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2,2-Dichloropropane	ND		0.00469	0.00323	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1-Dichloropropene	ND		0.00469	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
cis-1,3-Dichloropropene	ND		0.00469	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
trans-1,3-Dichloropropene	ND		0.00469	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethylbenzene	ND		0.00469	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Hexachlorobutadiene	ND		0.00937	0.00471	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
2-Hexanone (MBK)	ND		0.00937	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Isopropylbenzene	ND		0.00469	0.00354	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
4-Isopropyltoluene	ND		0.00469	0.00460	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Methyl tert-butyl ether	ND		0.00469	0.00270	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.00937	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Methylene Chloride	ND		0.00937	0.00251	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Naphthalene	ND		0.00469	0.00424	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00469	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Styrene	ND		0.00469	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,1,2-Tetrachloroethane	ND		0.00469	0.00351	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.00469	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Tetrachloroethene	ND		0.00469	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Toluene	ND		0.00469	0.00297	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,3-Trichlorobenzene	ND		0.00469	0.00395	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,4-Trichlorobenzene	ND		0.00469	0.00432	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3,5-Trichlorobenzene	ND		0.00469	0.00445	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,1-Trichloroethane	ND		0.00469	0.00320	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,1,2-Trichloroethane	ND		0.00469	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Trichloroethene	ND		0.00469	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00469	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,3-Trichloropropane	ND		0.00469	0.00416	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,2,4-Trimethylbenzene	ND		0.00469	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3,5-Trimethylbenzene	ND		0.00469	0.00398	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Vinyl chloride	ND		0.00469	0.00286	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
m,p-Xylene	ND		0.00469	0.00640	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
o-Xylene	ND		0.00469	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Tetrahydrofuran	ND		0.00937	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethyl ether	ND		0.00469	0.00246	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Tert-amyl methyl ether	ND		0.00469	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethyl tert-butyl ether	ND		0.00469	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
di-Isopropyl ether	ND		0.00469	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
tert-Butanol	ND		0.0937	0.0251	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,4-Dioxane	ND		0.0937	0.0291	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
trans-1,4-Dichloro-2-butene	ND		0.0234	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Ethanol	ND		0.937	0.0581	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
1,3-Dichloropropene, Total	ND		0.00469	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1
Xylenes, Total	ND		0.0141	0.00469	mg/Kg	☼	02/28/23 11:02	02/28/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 18:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.369	0.0656	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,2,4-Trichlorobenzene	ND		0.369	0.0845	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,2-Dichlorobenzene	ND		0.369	0.0711	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,3-Dichlorobenzene	ND		0.369	0.0893	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1,4-Dichlorobenzene	ND		0.369	0.0869	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
1-Methylnaphthalene	ND		0.0746	0.0626	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4,5-Trichlorophenol	ND		0.369	0.0423	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4,6-Trichlorophenol	ND		0.187	0.0456	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4-Dichlorophenol	ND		0.187	0.0743	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4-Dimethylphenol	ND		0.369	0.0541	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,4-Dinitrophenol	ND		0.369	0.0970	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.187	0.0437	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2,6-Dinitrotoluene	ND		0.187	0.0437	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Chloronaphthalene	ND		0.369	0.0853	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Chlorophenol	ND		0.187	0.0763	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Methylnaphthalene	ND		0.0746	0.0551	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Methylphenol	ND		0.369	0.0539	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Nitroaniline	ND		0.369	0.0351	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
2-Nitrophenol	ND		0.187	0.0663	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
3 & 4 Methylphenol	ND		0.369	0.0699	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
3,3'-Dichlorobenzidine	ND		0.369	0.0609	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
3-Nitroaniline	ND		0.369	0.0330	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4,6-Dinitro-2-methylphenol	ND		0.369	0.0663	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Bromophenyl phenyl ether	ND		0.369	0.0417	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Chloro-3-methylphenol	ND		0.369	0.0722	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Chloroaniline	ND		0.187	0.0283	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Chlorophenyl phenyl ether	ND		0.369	0.0395	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Nitroaniline	ND		0.187	0.0589	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
4-Nitrophenol	ND		0.369	0.129	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Acenaphthene	ND		0.0746	0.0595	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Acenaphthylene	ND		0.0746	0.0490	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Acetophenone	ND		0.187	0.0455	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Aniline	ND		0.369	0.0283	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Anthracene	ND		0.0746	0.0431	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Azobenzene/Diphenyldiazene	ND		0.369	0.0629	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzidine	ND	*- *1	0.738	0.109	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[a]anthracene	**0.0468**	**J**	0.0746	0.0419	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[a]pyrene	**0.0570**	**J**	0.0746	0.0533	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[b]fluoranthene	ND		0.0746	0.0618	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[g,h,i]perylene	ND		0.0746	0.0582	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzo[k]fluoranthene	ND		0.0746	0.0580	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzoic acid	**0.773**		0.369	0.254	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Benzyl alcohol	ND		0.369	0.0668	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Bis(2-chloroethoxy)methane	ND		0.369	0.0642	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Bis(2-chloroethyl)ether	ND		0.187	0.0610	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
bis (2-chloroisopropyl) ether	ND		0.187	0.0831	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Bis(2-ethylhexyl) phthalate	**8.05**		0.933	0.238	mg/Kg	☼	03/02/23 10:19	03/09/23 14:20	5
Butyl benzyl phthalate	**0.0462**	**J**	0.369	0.0370	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Carbazole	ND		0.187	0.0488	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Chrysene	**0.0712**	**J**	0.0746	0.0421	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Dibenz(a,h)anthracene	ND		0.0746	0.0569	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Dibenzofuran	ND		0.187	0.0646	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Diethyl phthalate	ND		0.369	0.0405	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Dimethyl phthalate	ND		0.369	0.0481	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Di-n-butyl phthalate	**1.06**		0.369	0.0395	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Di-n-octyl phthalate	ND		0.369	0.0609	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Fluoranthene	**0.117**		0.0746	0.0437	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Fluorene	ND		0.0746	0.0681	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Hexachlorobenzene	ND		0.187	0.0518	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Hexachlorobutadiene	ND		0.187	0.0931	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.187	0.0713	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Hexachloroethane	ND		0.187	0.0733	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Indeno[1,2,3-cd]pyrene	ND		0.0746	0.0633	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Isophorone	ND		0.187	0.0511	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Naphthalene	ND		0.0746	0.0715	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Nitrobenzene	ND		0.187	0.0862	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
N-Nitrosodimethylamine	ND		0.187	0.0490	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
N-Nitrosodi-n-propylamine	ND		0.187	0.0743	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
N-Nitrosodiphenylamine	ND		0.369	0.0471	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pentachloronitrobenzene	ND		0.369	0.0582	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pentachlorophenol	ND		0.369	0.151	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Phenanthrene	**0.0680**	**J**	0.0746	0.0423	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Phenol	ND		0.369	0.0760	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pyrene	**0.163**		0.0746	0.0411	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1
Pyridine	ND		0.369	0.0873	mg/Kg	☼	03/02/23 10:19	03/08/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
2-Fluorophenol (Surr)	*90*		*15 - 110*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
Nitrobenzene-d5 (Surr)	*56*		*30 - 130*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
Phenol-d5 (Surr)	*80*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
2,4,6-Tribromophenol (Surr)	*102*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 110*	*03/02/23 10:19*	*03/09/23 14:20*	*5*
Terphenyl-d14	*84*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:18*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/02/23 10:19*	*03/09/23 14:20*	*5*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.225	0.115	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.225	0.0962	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Ethylbenzene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Methyl tert-butyl ether	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
m,p-Xylene	ND		0.0899	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Naphthalene	**0.0387**	**J B**	0.0449	0.0306	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
o-Xylene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
Toluene	ND		0.0449	0.00899	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
C5-C8 Aliphatics (unadjusted)	ND		0.225	0.115	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
C9-C10 Aromatics	ND		0.225	0.0315	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1
C9-C12 Aliphatics (unadjusted)	ND		0.225	0.0962	mg/Kg	☼	03/01/23 07:14	03/01/23 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*102*		*70 - 130*	*03/01/23 07:14*	*03/01/23 10:32*	*1*

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*104*		*70 - 130*	*03/01/23 07:14*	*03/01/23 10:32*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0227	0.0164	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1221	ND		0.0227	0.00671	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1232	ND		0.0227	0.00629	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1242	ND		0.0227	0.00359	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1248	ND		0.0227	0.00710	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1254	**0.472**		0.0227	0.0177	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1262	ND		0.0227	0.00529	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1260	ND		0.0227	0.00488	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1
PCB-1268	ND		0.0227	0.00484	mg/Kg	☼	02/28/23 15:09	03/02/23 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*
Tetrachloro-m-xylene	*77*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:21*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoroheptanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorononanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorodecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorotridecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorotetradecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorobutanesulfonic acid	ND		2.19	0.438	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorohexanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NEtFOSAA	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NMeFOSAA	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
10:2 FTS	ND		2.19	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoropentanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoroheptanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorononanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorodecanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctanesulfonamide	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorohexadecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorooctadecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorobutanoic acid	ND		2.19	0.876	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoropentanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NMeFOSE	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NMeFOSA	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NEtFOSE	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
NEtFOSA	ND		2.19	0.548	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1

Client Sample ID: 2023-SB-02-0002' **Lab Sample ID: 620-10021-1**
Date Collected: 02/27/23 10:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 87.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPODA	ND		2.19	1.10	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
DONA	ND		3.29	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
9Cl-PF3ONS	ND		2.19	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
11Cl-PF3OUdS	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluorododecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
4:2 Fluorotelomer sulfonic acid	ND		2.19	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
Perfluoroundecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
6:2 Fluorotelomer sulfonic acid	ND		2.19	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1
8:2 Fluorotelomer sulfonic acid	ND		3.29	0.657	ug/Kg	☼	03/01/23 10:57	03/11/23 01:55	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*120*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
M2-8:2 FTS	*134*		*15 - 200*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
M2-6:2 FTS	*128*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C5 PFHxA	*101*		*10 - 174*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C8 PFOA	*104*		*26 - 159*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C9 PFNA	*118*		*26 - 165*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C6 PFDA	*110*		*26 - 161*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C7 PFUnA	*122*		*12 - 173*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C2-PFDoDA	*126*		*11 - 166*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C3 PFBS	*125*		*27 - 179*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C3 PFHxS	*130*		*24 - 171*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C8 PFOS	*130*		*41 - 154*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d3-NMeFOSAA	*40*		*10 - 178*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d5-NEtFOSAA	*62*		*10 - 193*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C8 FOSA	*85*		*14 - 163*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C4 PFBA	*87*		*28 - 153*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d7-N-MeFOSE-M	*86*		*10 - 179*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d9-N-EtFOSE-M	*89*		*10 - 185*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
d5-NEtPFOSA	*82*		*10 - 180*	*03/01/23 10:57*	*03/11/23 01:55*	*1*
13C3 HFPO-DA	*90*		*10 - 169*	*03/01/23 10:57*	*03/11/23 01:55*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.87	1.66	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Arsenic	**2.80**	**J**	2.92	1.36	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Barium	**23.9**		0.487	0.146	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Beryllium	**0.416**	**J**	0.487	0.0974	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Cadmium	ND		0.487	0.0974	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Chromium	**5.90**	**B**	1.46	0.341	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Lead	**19.2**		1.46	0.584	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Nickel	**3.25**		0.974	0.253	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Selenium	ND		4.87	1.46	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Silver	ND	^3+	0.974	0.389	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Thallium	ND		2.92	1.27	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1
Vanadium	**9.37**		0.974	0.419	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0002'
Date Collected: 02/27/23 10:30
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-1
Matrix: Solid
Percent Solids: 87.8

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	33.9		1.95	0.779	mg/Kg	☼	03/01/23 11:49	03/03/23 02:49	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0326	J	0.0672	0.0224	mg/Kg	☼	03/02/23 08:13	03/02/23 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	12.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	87.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0204'
Date Collected: 02/27/23 10:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-2
Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00412	0.00269	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Acetone	**0.00945**	**J B**	0.0412	0.00924	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Acrylonitrile	ND		0.00412	0.00247	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Benzene	ND		0.00412	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromobenzene	ND		0.00412	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromochloromethane	ND		0.00412	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromodichloromethane	ND		0.00412	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromoform	ND		0.00412	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Bromomethane	ND		0.00825	0.00514	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2-Butanone (MEK)	ND		0.00825	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
n-Butylbenzene	ND		0.00825	0.00442	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
sec-Butylbenzene	ND		0.00412	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
tert-Butylbenzene	ND		0.00412	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Carbon disulfide	ND		0.00825	0.00289	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Carbon tetrachloride	ND		0.00412	0.00260	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chlorobenzene	ND		0.00412	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chloroethane	ND		0.00825	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chloroform	ND		0.00412	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Chloromethane	ND	*-	0.00825	0.00317	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2-Chlorotoluene	ND		0.00412	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
4-Chlorotoluene	ND		0.00412	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dibromo-3-Chloropropane	ND		0.00825	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Dibromochloromethane	ND		0.00412	0.00273	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dibromoethane (EDB)	ND		0.00412	0.00296	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Dibromomethane	ND		0.00412	0.00242	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dichlorobenzene	ND		0.00412	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3-Dichlorobenzene	ND		0.00412	0.00331	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,4-Dichlorobenzene	ND		0.00412	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00825	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1-Dichloroethane	ND		0.00412	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dichloroethane	ND		0.00412	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1-Dichloroethene	ND		0.00412	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
cis-1,2-Dichloroethene	ND		0.00412	0.00238	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
trans-1,2-Dichloroethene	ND		0.00412	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2-Dichloropropane	ND		0.00412	0.00273	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3-Dichloropropane	ND		0.00412	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2,2-Dichloropropane	ND		0.00412	0.00285	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1-Dichloropropene	ND		0.00412	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
cis-1,3-Dichloropropene	ND		0.00412	0.00269	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
trans-1,3-Dichloropropene	ND		0.00412	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethylbenzene	ND		0.00412	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Hexachlorobutadiene	ND		0.00825	0.00415	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
2-Hexanone (MBK)	ND		0.00825	0.00242	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Isopropylbenzene	ND		0.00412	0.00312	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
4-Isopropyltoluene	ND		0.00412	0.00405	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Methyl tert-butyl ether	ND		0.00412	0.00238	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.00825	0.00266	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Methylene Chloride	ND		0.00825	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Naphthalene	ND		0.00412	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1

Client Sample ID: 2023-SB-02-0204' **Lab Sample ID: 620-10021-2**
Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00412	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Styrene	ND		0.00412	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,1,2-Tetrachloroethane	ND		0.00412	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,2,2-Tetrachloroethane	ND		0.00412	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Tetrachloroethene	ND		0.00412	0.00229	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Toluene	ND		0.00412	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,3-Trichlorobenzene	ND		0.00412	0.00348	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,4-Trichlorobenzene	ND		0.00412	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3,5-Trichlorobenzene	ND		0.00412	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,1-Trichloroethane	ND		0.00412	0.00281	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,1,2-Trichloroethane	ND		0.00412	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Trichloroethene	ND		0.00412	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00412	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,3-Trichloropropane	ND		0.00412	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,2,4-Trimethylbenzene	ND		0.00412	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3,5-Trimethylbenzene	ND		0.00412	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Vinyl chloride	ND		0.00412	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
m,p-Xylene	ND		0.00412	0.00563	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
o-Xylene	ND		0.00412	0.00301	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Tetrahydrofuran	ND		0.00825	0.00209	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethyl ether	ND		0.00412	0.00217	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Tert-amyl methyl ether	ND		0.00412	0.00326	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethyl tert-butyl ether	ND		0.00412	0.00271	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
di-Isopropyl ether	ND		0.00412	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
tert-Butanol	ND		0.0825	0.0221	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,4-Dioxane	ND		0.0825	0.0256	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
trans-1,4-Dichloro-2-butene	ND		0.0206	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Ethanol	ND		0.825	0.0511	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
1,3-Dichloropropene, Total	ND		0.00412	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1
Xylenes, Total	ND		0.0124	0.00412	mg/Kg	☼	02/28/23 11:02	02/28/23 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.373	0.0663	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,2,4-Trichlorobenzene	ND		0.373	0.0854	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,2-Dichlorobenzene	ND		0.373	0.0718	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,3-Dichlorobenzene	ND		0.373	0.0902	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1,4-Dichlorobenzene	ND		0.373	0.0877	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
1-Methylnaphthalene	ND		0.0753	0.0632	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4,5-Trichlorophenol	ND		0.373	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4,6-Trichlorophenol	ND		0.189	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4-Dichlorophenol	ND		0.189	0.0751	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4-Dimethylphenol	ND		0.373	0.0546	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,4-Dinitrophenol	ND		0.373	0.0980	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0204'
Date Collected: 02/27/23 10:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-2
Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.189	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2,6-Dinitrotoluene	ND		0.189	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Chloronaphthalene	ND		0.373	0.0862	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Chlorophenol	ND		0.189	0.0771	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Methylnaphthalene	ND		0.0753	0.0557	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Methylphenol	ND		0.373	0.0544	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Nitroaniline	ND		0.373	0.0355	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
2-Nitrophenol	ND		0.189	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
3 & 4 Methylphenol	ND		0.373	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
3,3'-Dichlorobenzidine	ND		0.373	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
3-Nitroaniline	ND		0.373	0.0333	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4,6-Dinitro-2-methylphenol	ND		0.373	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Bromophenyl phenyl ether	ND		0.373	0.0421	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Chloro-3-methylphenol	ND		0.373	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Chloroaniline	ND		0.189	0.0286	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Chlorophenyl phenyl ether	ND		0.373	0.0399	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Nitroaniline	ND		0.189	0.0595	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
4-Nitrophenol	ND		0.373	0.130	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Acenaphthene	ND		0.0753	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Acenaphthylene	ND		0.0753	0.0495	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Acetophenone	ND		0.189	0.0460	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Aniline	ND		0.373	0.0286	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Anthracene	ND		0.0753	0.0436	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Azobenzene/Diphenyldiazene	ND		0.373	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzidine	ND	*- *1	0.745	0.110	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[a]anthracene	ND		0.0753	0.0423	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[a]pyrene	ND		0.0753	0.0539	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[b]fluoranthene	ND		0.0753	0.0624	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[g,h,i]perylene	ND		0.0753	0.0588	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzo[k]fluoranthene	ND		0.0753	0.0586	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzoic acid	ND		0.373	0.256	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Benzyl alcohol	ND		0.373	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Bis(2-chloroethoxy)methane	ND		0.373	0.0648	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Bis(2-chloroethyl)ether	ND		0.189	0.0616	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
bis (2-chloroisopropyl) ether	ND		0.189	0.0839	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Bis(2-ethylhexyl) phthalate	ND		0.189	0.0480	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Butyl benzyl phthalate	ND		0.373	0.0374	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Carbazole	ND		0.189	0.0493	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Chrysene	ND		0.0753	0.0426	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Dibenz(a,h)anthracene	ND		0.0753	0.0575	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Dibenzofuran	ND		0.189	0.0653	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Diethyl phthalate	ND		0.373	0.0409	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Dimethyl phthalate	ND		0.373	0.0486	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Di-n-butyl phthalate	ND		0.373	0.0399	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Di-n-octyl phthalate	ND		0.373	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Fluoranthene	ND		0.0753	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Fluorene	ND		0.0753	0.0688	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Hexachlorobenzene	ND		0.189	0.0523	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Hexachlorobutadiene	ND		0.189	0.0941	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1

Client Sample ID: 2023-SB-02-0204' **Lab Sample ID: 620-10021-2**
Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.189	0.0720	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Hexachloroethane	ND		0.189	0.0741	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0753	0.0639	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Isophorone	ND		0.189	0.0516	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Naphthalene	ND		0.0753	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Nitrobenzene	ND		0.189	0.0871	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
N-Nitrosodimethylamine	ND		0.189	0.0495	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
N-Nitrosodi-n-propylamine	ND		0.189	0.0751	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
N-Nitrosodiphenylamine	ND		0.373	0.0475	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pentachloronitrobenzene	ND		0.373	0.0588	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pentachlorophenol	ND		0.373	0.152	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Phenanthrene	ND		0.0753	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Phenol	ND		0.373	0.0768	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pyrene	ND		0.0753	0.0416	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1
Pyridine	ND		0.373	0.0882	mg/Kg	☼	03/02/23 10:19	03/07/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
2-Fluorophenol (Surr)	*80*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:14*	*1*
Terphenyl-d14	*84*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.234	0.120	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.234	0.100	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Ethylbenzene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Methyl tert-butyl ether	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
m,p-Xylene	ND		0.0935	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Naphthalene	ND		0.0467	0.0318	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
o-Xylene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
Toluene	ND		0.0467	0.00935	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
C5-C8 Aliphatics (unadjusted)	ND		0.234	0.120	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
C9-C10 Aromatics	ND		0.234	0.0327	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1
C9-C12 Aliphatics (unadjusted)	ND		0.234	0.100	mg/Kg	☼	03/01/23 07:14	03/01/23 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:11*	*1*
a,a,a-Trifluorotoluene (fid)	*105*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:11*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0232	0.0167	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1221	ND		0.0232	0.00685	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1232	ND		0.0232	0.00642	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1

Client Sample ID: 2023-SB-02-0204'
Lab Sample ID: 620-10021-2
Date Collected: 02/27/23 10:35
Matrix: Solid
Date Received: 02/27/23 16:50
Percent Solids: 85.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0232	0.00366	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1248	ND		0.0232	0.00724	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1254	ND		0.0232	0.0180	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1262	ND		0.0232	0.00540	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1260	ND		0.0232	0.00498	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1
PCB-1268	ND		0.0232	0.00494	mg/Kg	☼	02/28/23 15:09	03/02/23 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*
Tetrachloro-m-xylene	*72*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*02/28/23 15:09*	*03/02/23 23:38*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoroheptanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorononanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorodecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorotridecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorotetradecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorobutanesulfonic acid	ND		2.28	0.457	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorohexanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NEtFOSAA	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NMeFOSAA	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
10:2 FTS	ND		2.28	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoropentanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoroheptanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorononanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorodecanesulfonic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctanesulfonamide	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorohexadecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorooctadecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorobutanoic acid	ND		2.28	0.913	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoropentanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NMeFOSE	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NMeFOSA	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NEtFOSE	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
NEtFOSA	ND		2.28	0.571	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
HFPODA	ND		2.28	1.14	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
DONA	ND		3.42	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
9Cl-PF3ONS	ND		2.28	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
11Cl-PF3OUdS	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluorododecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
4:2 Fluorotelomer sulfonic acid	ND		2.28	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
Perfluoroundecanoic acid	ND		0.685	0.228	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1

Client Sample ID: 2023-SB-02-0204' **Lab Sample ID: 620-10021-2**
Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.28	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1
8:2 Fluorotelomer sulfonic acid	ND		3.42	0.685	ug/Kg	☼	03/01/23 10:57	03/11/23 02:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*68*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
M2-8:2 FTS	*79*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
M2-6:2 FTS	*66*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C4 PFHpA	*82*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C8 PFOA	*81*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C9 PFNA	*81*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C6 PFDA	*75*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C2-PFDoDA	*77*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C2 PFTeDA	*76*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C3 PFBS	*94*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C3 PFHxS	*101*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C8 PFOS	*95*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d3-NMeFOSAA	*13*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d5-NEtFOSAA	*17*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C8 FOSA	*100*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C4 PFBA	*72*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C5 PFPeA	*73*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d7-N-MeFOSE-M	*100*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d3-NMePFOSA	*52*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d9-N-EtFOSE-M	*105*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
d5-NEtPFOSA	*57*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:06*	*1*
13C3 HFPO-DA	*78*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:06*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.39	1.83	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Arsenic	**2.29**	**J**	3.23	1.51	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Barium	**13.0**		0.539	0.162	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Beryllium	**0.441**	**J**	0.539	0.108	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Cadmium	ND		0.539	0.108	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Chromium	**5.59**	**B**	1.62	0.377	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Lead	**3.02**		1.62	0.647	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Nickel	**3.07**		1.08	0.280	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Selenium	ND		5.39	1.62	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Silver	ND	^3+	1.08	0.431	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Thallium	ND		3.23	1.40	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Vanadium	**8.17**		1.08	0.464	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1
Zinc	**10.4**		2.16	0.862	mg/Kg	☼	03/01/23 11:49	03/03/23 02:46	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0655	0.0218	mg/Kg	☼	03/02/23 08:13	03/02/23 14:17	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0204'
Date Collected: 02/27/23 10:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-2
Matrix: Solid
Percent Solids: 85.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.1		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.9		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00347	0.00226	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Acetone	ND		0.0347	0.00778	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Acrylonitrile	ND		0.00347	0.00208	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Benzene	ND		0.00347	0.00232	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromobenzene	ND		0.00347	0.00231	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromochloromethane	ND		0.00347	0.00197	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromodichloromethane	ND		0.00347	0.00255	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromoform	ND		0.00347	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Bromomethane	ND		0.00695	0.00433	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2-Butanone (MEK)	ND		0.00695	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
n-Butylbenzene	ND		0.00695	0.00372	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
sec-Butylbenzene	ND		0.00347	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
tert-Butylbenzene	ND		0.00347	0.00274	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Carbon disulfide	ND		0.00695	0.00244	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Carbon tetrachloride	ND		0.00347	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chlorobenzene	ND		0.00347	0.00254	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chloroethane	ND		0.00695	0.00255	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chloroform	ND		0.00347	0.00233	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Chloromethane	ND	*-	0.00695	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2-Chlorotoluene	ND		0.00347	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
4-Chlorotoluene	ND		0.00347	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dibromo-3-Chloropropane	ND		0.00695	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Dibromochloromethane	ND		0.00347	0.00230	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dibromoethane (EDB)	ND		0.00347	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Dibromomethane	ND		0.00347	0.00204	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dichlorobenzene	ND		0.00347	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3-Dichlorobenzene	ND		0.00347	0.00279	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,4-Dichlorobenzene	ND		0.00347	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00695	0.00186	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1-Dichloroethane	ND		0.00347	0.00236	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dichloroethane	ND		0.00347	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1-Dichloroethene	ND		0.00347	0.00213	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
cis-1,2-Dichloroethene	ND		0.00347	0.00201	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
trans-1,2-Dichloroethene	ND		0.00347	0.00216	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2-Dichloropropane	ND		0.00347	0.00230	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3-Dichloropropane	ND		0.00347	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2,2-Dichloropropane	ND		0.00347	0.00240	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1-Dichloropropene	ND		0.00347	0.00236	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
cis-1,3-Dichloropropene	ND		0.00347	0.00226	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
trans-1,3-Dichloropropene	ND		0.00347	0.00264	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethylbenzene	ND		0.00347	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Hexachlorobutadiene	ND		0.00695	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
2-Hexanone (MBK)	ND		0.00695	0.00204	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Isopropylbenzene	ND		0.00347	0.00263	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
4-Isopropyltoluene	ND		0.00347	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Methyl tert-butyl ether	ND		0.00347	0.00200	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		0.00695	0.00224	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Methylene Chloride	ND		0.00695	0.00186	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Naphthalene	ND		0.00347	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00347	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Styrene	ND		0.00347	0.00269	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,1,2-Tetrachloroethane	ND		0.00347	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,2,2-Tetrachloroethane	ND		0.00347	0.00318	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Tetrachloroethene	ND		0.00347	0.00193	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Toluene	ND		0.00347	0.00220	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,3-Trichlorobenzene	ND		0.00347	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,4-Trichlorobenzene	ND		0.00347	0.00320	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3,5-Trichlorobenzene	ND		0.00347	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,1-Trichloroethane	ND		0.00347	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,1,2-Trichloroethane	ND		0.00347	0.00262	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Trichloroethene	ND		0.00347	0.00233	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Trichlorofluoromethane (Freon 11)	ND		0.00347	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,3-Trichloropropane	ND		0.00347	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,2,4-Trimethylbenzene	ND		0.00347	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3,5-Trimethylbenzene	ND		0.00347	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Vinyl chloride	ND		0.00347	0.00212	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
m,p-Xylene	ND		0.00347	0.00475	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
o-Xylene	ND		0.00347	0.00254	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Tetrahydrofuran	ND		0.00695	0.00176	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethyl ether	ND		0.00347	0.00183	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Tert-amyl methyl ether	ND		0.00347	0.00274	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethyl tert-butyl ether	ND		0.00347	0.00229	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
di-Isopropyl ether	ND		0.00347	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
tert-Butanol	ND		0.0695	0.0186	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,4-Dioxane	ND		0.0695	0.0216	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
trans-1,4-Dichloro-2-butene	ND		0.0174	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Ethanol	ND		0.695	0.0431	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
1,3-Dichloropropene, Total	ND		0.00347	0.00264	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1
Xylenes, Total	ND		0.0104	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 19:41*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.399	0.0710	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,2,4-Trichlorobenzene	ND		0.399	0.0914	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,2-Dichlorobenzene	ND		0.399	0.0769	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,3-Dichlorobenzene	ND		0.399	0.0966	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1,4-Dichlorobenzene	ND		0.399	0.0939	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
1-Methylnaphthalene	ND		0.0806	0.0677	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4,5-Trichlorophenol	ND		0.399	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4,6-Trichlorophenol	ND		0.202	0.0493	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4-Dichlorophenol	ND		0.202	0.0804	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4-Dimethylphenol	ND		0.399	0.0585	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,4-Dinitrophenol	ND		0.399	0.105	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0406'
Date Collected: 02/27/23 10:40
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-3
Matrix: Solid
Percent Solids: 82.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.202	0.0473	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2,6-Dinitrotoluene	ND		0.202	0.0473	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Chloronaphthalene	ND		0.399	0.0922	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Chlorophenol	ND		0.202	0.0826	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Methylnaphthalene	ND		0.0806	0.0596	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Methylphenol	ND		0.399	0.0583	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Nitroaniline	ND		0.399	0.0380	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
2-Nitrophenol	ND		0.202	0.0717	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
3 & 4 Methylphenol	ND		0.399	0.0755	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
3,3'-Dichlorobenzidine	ND		0.399	0.0659	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
3-Nitroaniline	ND		0.399	0.0357	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4,6-Dinitro-2-methylphenol	ND		0.399	0.0717	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Bromophenyl phenyl ether	ND		0.399	0.0451	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Chloro-3-methylphenol	ND		0.399	0.0781	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Chloroaniline	ND		0.202	0.0306	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Chlorophenyl phenyl ether	ND		0.399	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Nitroaniline	ND		0.202	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
4-Nitrophenol	ND		0.399	0.139	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Acenaphthene	ND		0.0806	0.0643	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Acenaphthylene	ND		0.0806	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Acetophenone	ND		0.202	0.0492	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Aniline	ND		0.399	0.0306	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Anthracene	ND		0.0806	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Azobenzene/Diphenyldiazene	ND		0.399	0.0681	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzidine	ND	*- *1	0.798	0.118	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[a]anthracene	ND		0.0806	0.0453	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[a]pyrene	ND		0.0806	0.0577	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[b]fluoranthene	ND		0.0806	0.0668	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[g,h,i]perylene	ND		0.0806	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzo[k]fluoranthene	ND		0.0806	0.0627	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzoic acid	ND		0.399	0.274	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Benzyl alcohol	ND		0.399	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Bis(2-chloroethoxy)methane	ND		0.399	0.0694	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Bis(2-chloroethyl)ether	ND		0.202	0.0660	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
bis (2-chloroisopropyl) ether	ND		0.202	0.0898	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Bis(2-ethylhexyl) phthalate	ND		0.202	0.0514	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Butyl benzyl phthalate	ND		0.399	0.0400	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Carbazole	ND		0.202	0.0528	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Chrysene	ND		0.0806	0.0456	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Dibenz(a,h)anthracene	ND		0.0806	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Dibenzofuran	ND		0.202	0.0699	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Diethyl phthalate	ND		0.399	0.0438	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Dimethyl phthalate	ND		0.399	0.0520	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Di-n-butyl phthalate	ND		0.399	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Di-n-octyl phthalate	ND		0.399	0.0659	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Fluoranthene	ND		0.0806	0.0473	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Fluorene	ND		0.0806	0.0736	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Hexachlorobenzene	ND		0.202	0.0560	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Hexachlorobutadiene	ND		0.202	0.101	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.202	0.0771	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Hexachloroethane	ND		0.202	0.0793	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0806	0.0684	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Isophorone	ND		0.202	0.0552	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Naphthalene	ND		0.0806	0.0774	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Nitrobenzene	ND		0.202	0.0932	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
N-Nitrosodimethylamine	ND		0.202	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
N-Nitrosodi-n-propylamine	ND		0.202	0.0804	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
N-Nitrosodiphenylamine	ND		0.399	0.0509	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pentachloronitrobenzene	ND		0.399	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pentachlorophenol	ND		0.399	0.163	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Phenanthrene	ND		0.0806	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Phenol	ND		0.399	0.0822	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pyrene	ND		0.0806	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1
Pyridine	ND		0.399	0.0944	mg/Kg	☼	03/02/23 10:19	03/07/23 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
2-Fluorophenol (Surr)	*103*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
Phenol-d5 (Surr)	*96*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/02/23 10:19*	*03/07/23 18:42*	*1*
Terphenyl-d14	*85*		*30 - 130*	*03/02/23 10:19*	*03/07/23 18:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.239	0.122	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.239	0.102	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Ethylbenzene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Methyl tert-butyl ether	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
m,p-Xylene	ND		0.0956	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Naphthalene	ND		0.0478	0.0325	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
o-Xylene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
Toluene	ND		0.0478	0.00956	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
C5-C8 Aliphatics (unadjusted)	ND		0.239	0.122	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
C9-C10 Aromatics	ND		0.239	0.0334	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1
C9-C12 Aliphatics (unadjusted)	ND		0.239	0.102	mg/Kg	☼	03/01/23 07:14	03/01/23 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:51*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/01/23 07:14*	*03/01/23 11:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0240	0.0173	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1221	ND		0.0240	0.00709	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1232	ND		0.0240	0.00664	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0240	0.00379	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1248	ND		0.0240	0.00749	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1254	**0.0970**		0.0240	0.0187	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1262	ND		0.0240	0.00559	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1260	ND		0.0240	0.00516	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1
PCB-1268	ND		0.0240	0.00511	mg/Kg	☼	03/03/23 15:24	03/06/23 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*
Tetrachloro-m-xylene	*81*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/03/23 15:24*	*03/06/23 14:55*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoroheptanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorononanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorodecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorotridecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorotetradecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorobutanesulfonic acid	ND		2.37	0.474	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorohexanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NEtFOSAA	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NMeFOSAA	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
10:2 FTS	ND		2.37	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoropentanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoroheptanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorononanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorodecanesulfonic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctanesulfonamide	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorohexadecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorooctadecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorobutanoic acid	ND		2.37	0.948	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoropentanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NMeFOSE	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NMeFOSA	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NEtFOSE	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
NEtFOSA	ND		2.37	0.592	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
HFPODA	ND		2.37	1.18	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
DONA	ND		3.55	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
9Cl-PF3ONS	ND		2.37	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
11Cl-PF3OUdS	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluorododecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
4:2 Fluorotelomer sulfonic acid	ND		2.37	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
Perfluoroundecanoic acid	ND		0.711	0.237	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1

Client Sample ID: 2023-SB-02-0406' **Lab Sample ID: 620-10021-3**
Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.37	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1
8:2 Fluorotelomer sulfonic acid	ND		3.55	0.711	ug/Kg	☼	03/01/23 10:57	03/11/23 02:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
M2-8:2 FTS	*122*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C5 PFHxA	*126*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C8 PFOA	*122*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C9 PFNA	*117*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C7 PFUnA	*113*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C2-PFDoDA	*114*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C2 PFTeDA	*115*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C3 PFBS	*118*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C3 PFHxS	*125*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C8 PFOS	*124*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d3-NMeFOSAA	*51*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d5-NEtFOSAA	*57*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C8 FOSA	*107*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C4 PFBA	*117*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C5 PFPeA	*113*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d7-N-MeFOSE-M	*103*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d9-N-EtFOSE-M	*107*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
d5-NEtPFOSA	*109*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:17*	*1*
13C3 HFPO-DA	*118*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:17*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.45	1.51	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Arsenic	**2.05**	**J**	2.67	1.25	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Barium	**12.1**		0.445	0.134	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Beryllium	**0.371**	**J**	0.445	0.0891	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Cadmium	ND		0.445	0.0891	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Chromium	**6.72**	**B**	1.34	0.312	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Lead	**4.40**		1.34	0.534	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Nickel	**2.49**		0.891	0.232	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Selenium	ND		4.45	1.34	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Silver	ND	^3+	0.891	0.356	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Thallium	ND		2.67	1.16	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Vanadium	**6.60**		0.891	0.383	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1
Zinc	**9.36**		1.78	0.712	mg/Kg	☼	03/01/23 11:49	03/03/23 02:43	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0732	0.0244	mg/Kg	☼	03/02/23 08:13	03/02/23 14:24	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0406'
Date Collected: 02/27/23 10:40
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-3
Matrix: Solid
Percent Solids: 82.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.0		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	82.0		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00325	0.00212	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Acetone	ND		0.0325	0.00729	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Acrylonitrile	ND		0.00325	0.00195	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Benzene	ND		0.00325	0.00217	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromobenzene	ND		0.00325	0.00217	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromochloromethane	ND		0.00325	0.00185	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromodichloromethane	ND		0.00325	0.00239	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromoform	ND		0.00325	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Bromomethane	ND		0.00651	0.00405	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2-Butanone (MEK)	ND		0.00651	0.00259	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
n-Butylbenzene	ND		0.00651	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
sec-Butylbenzene	ND		0.00325	0.00262	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
tert-Butylbenzene	ND		0.00325	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Carbon disulfide	ND		0.00651	0.00228	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Carbon tetrachloride	ND		0.00325	0.00205	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chlorobenzene	ND		0.00325	0.00238	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chloroethane	ND		0.00651	0.00239	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chloroform	ND		0.00325	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Chloromethane	ND	*-	0.00651	0.00250	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2-Chlorotoluene	ND		0.00325	0.00259	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
4-Chlorotoluene	ND		0.00325	0.00282	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00651	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Dibromochloromethane	ND		0.00325	0.00215	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dibromoethane (EDB)	ND		0.00325	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Dibromomethane	ND		0.00325	0.00191	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dichlorobenzene	ND		0.00325	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3-Dichlorobenzene	ND		0.00325	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,4-Dichlorobenzene	ND		0.00325	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00651	0.00174	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1-Dichloroethane	ND		0.00325	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dichloroethane	ND		0.00325	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1-Dichloroethene	ND		0.00325	0.00199	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
cis-1,2-Dichloroethene	ND		0.00325	0.00188	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
trans-1,2-Dichloroethene	ND		0.00325	0.00202	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2-Dichloropropane	ND		0.00325	0.00215	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3-Dichloropropane	ND		0.00325	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2,2-Dichloropropane	ND		0.00325	0.00224	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1-Dichloropropene	ND		0.00325	0.00221	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
cis-1,3-Dichloropropene	ND		0.00325	0.00212	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
trans-1,3-Dichloropropene	ND		0.00325	0.00247	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethylbenzene	ND		0.00325	0.00232	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Hexachlorobutadiene	ND		0.00651	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
2-Hexanone (MBK)	ND		0.00651	0.00191	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Isopropylbenzene	ND		0.00325	0.00246	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
4-Isopropyltoluene	ND		0.00325	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Methyl tert-butyl ether	ND		0.00325	0.00187	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.00651	0.00210	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Methylene Chloride	ND		0.00651	0.00174	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Naphthalene	ND		0.00325	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00325	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Styrene	ND		0.00325	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,1,2-Tetrachloroethane	ND		0.00325	0.00244	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,2,2-Tetrachloroethane	ND		0.00325	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Tetrachloroethene	ND		0.00325	0.00181	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Toluene	ND		0.00325	0.00206	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,3-Trichlorobenzene	ND		0.00325	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,4-Trichlorobenzene	ND		0.00325	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3,5-Trichlorobenzene	ND		0.00325	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,1-Trichloroethane	ND		0.00325	0.00222	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,1,2-Trichloroethane	ND		0.00325	0.00245	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Trichloroethene	ND		0.00325	0.00219	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00325	0.00249	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,3-Trichloropropane	ND		0.00325	0.00289	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,2,4-Trimethylbenzene	ND		0.00325	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3,5-Trimethylbenzene	ND		0.00325	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Vinyl chloride	ND		0.00325	0.00198	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
m,p-Xylene	ND		0.00325	0.00444	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
o-Xylene	ND		0.00325	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Tetrahydrofuran	ND		0.00651	0.00165	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethyl ether	ND		0.00325	0.00171	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Tert-amyl methyl ether	ND		0.00325	0.00257	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethyl tert-butyl ether	ND		0.00325	0.00214	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
di-Isopropyl ether	ND		0.00325	0.00232	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
tert-Butanol	ND		0.0651	0.0174	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,4-Dioxane	ND		0.0651	0.0202	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
trans-1,4-Dichloro-2-butene	ND		0.0163	0.00240	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Ethanol	ND		0.651	0.0403	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
1,3-Dichloropropene, Total	ND		0.00325	0.00247	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1
Xylenes, Total	ND		0.00976	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0647	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,2,4-Trichlorobenzene	ND		0.364	0.0834	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,2-Dichlorobenzene	ND		0.364	0.0701	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,3-Dichlorobenzene	ND		0.364	0.0881	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1,4-Dichlorobenzene	ND		0.364	0.0857	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
1-Methylnaphthalene	ND		0.0736	0.0618	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4-Dichlorophenol	ND		0.184	0.0733	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,4-Dinitrophenol	ND		0.364	0.0957	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2,6-Dinitrotoluene	ND		0.184	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Chloronaphthalene	ND		0.364	0.0841	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Chlorophenol	ND		0.184	0.0753	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Methylnaphthalene	ND		0.0736	0.0544	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Methylphenol	ND		0.364	0.0532	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Nitroaniline	ND		0.364	0.0346	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
2-Nitrophenol	ND		0.184	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
3 & 4 Methylphenol	ND		0.364	0.0689	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
3,3'-Dichlorobenzidine	ND		0.364	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
3-Nitroaniline	ND		0.364	0.0325	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Bromophenyl phenyl ether	ND		0.364	0.0411	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Chloro-3-methylphenol	ND		0.364	0.0712	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0389	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Nitroaniline	ND		0.184	0.0581	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Acenaphthene	ND		0.0736	0.0587	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Acenaphthylene	ND		0.0736	0.0483	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Anthracene	ND		0.0736	0.0426	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzidine	ND	*- *1	0.728	0.108	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[a]anthracene	ND		0.0736	0.0414	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[a]pyrene	ND		0.0736	0.0526	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[b]fluoranthene	ND		0.0736	0.0610	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[g,h,i]perylene	ND		0.0736	0.0575	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzo[k]fluoranthene	ND		0.0736	0.0572	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzoic acid	ND		0.364	0.250	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Benzyl alcohol	ND		0.364	0.0659	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0633	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Bis(2-chloroethyl)ether	ND		0.184	0.0602	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0819	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Bis(2-ethylhexyl) phthalate	ND		0.184	0.0469	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Butyl benzyl phthalate	ND		0.364	0.0365	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Chrysene	ND		0.0736	0.0416	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Dibenz(a,h)anthracene	ND		0.0736	0.0561	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Dibenzofuran	ND		0.184	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Diethyl phthalate	ND		0.364	0.0399	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Dimethyl phthalate	ND		0.364	0.0474	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Di-n-butyl phthalate	ND		0.364	0.0389	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Di-n-octyl phthalate	ND		0.364	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Fluoranthene	ND		0.0736	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Fluorene	ND		0.0736	0.0672	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Hexachlorobenzene	ND		0.184	0.0511	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Hexachlorobutadiene	ND		0.184	0.0919	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1

Client Sample ID: 2023-SB-02-0608' Lab Sample ID: 620-10021-4

Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.184	0.0704	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Hexachloroethane	ND		0.184	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0736	0.0624	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Isophorone	ND		0.184	0.0504	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Naphthalene	ND		0.0736	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Nitrobenzene	ND		0.184	0.0850	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
N-Nitrosodimethylamine	ND		0.184	0.0483	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0733	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
N-Nitrosodiphenylamine	ND		0.364	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pentachloronitrobenzene	ND		0.364	0.0575	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Phenanthrene	ND		0.0736	0.0417	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Phenol	ND		0.364	0.0750	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pyrene	ND		0.0736	0.0406	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1
Pyridine	ND		0.364	0.0861	mg/Kg	☼	03/02/23 10:19	03/07/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
2-Fluorophenol (Surr)	*105*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
Phenol-d5 (Surr)	*88*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:11*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.206	0.105	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.206	0.0880	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Ethylbenzene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Methyl tert-butyl ether	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
m,p-Xylene	ND		0.0822	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Naphthalene	ND		0.0411	0.0280	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
o-Xylene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
Toluene	ND		0.0411	0.00822	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
C5-C8 Aliphatics (unadjusted)	ND		0.206	0.105	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
C9-C10 Aromatics	ND		0.206	0.0288	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1
C9-C12 Aliphatics (unadjusted)	ND		0.206	0.0880	mg/Kg	☼	03/01/23 07:14	03/01/23 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/01/23 07:14*	*03/01/23 12:30*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/01/23 07:14*	*03/01/23 12:30*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0218	0.0157	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1221	ND		0.0218	0.00645	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1232	ND		0.0218	0.00605	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1

Client Sample ID: 2023-SB-02-0608' **Lab Sample ID: 620-10021-4**
Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0218	0.00345	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1248	ND		0.0218	0.00682	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1254	ND		0.0218	0.0170	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1262	ND		0.0218	0.00509	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1260	ND		0.0218	0.00469	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1
PCB-1268	ND		0.0218	0.00465	mg/Kg	☼	02/28/23 15:09	03/03/23 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:12*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoroheptanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorononanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorodecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorotridecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorotetradecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorobutanesulfonic acid	ND		2.22	0.443	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorohexanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
10:2 FTS	ND		2.22	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoropentanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoroheptanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorononanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorodecanesulfonic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctanesulfonamide	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorohexadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorooctadecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorobutanoic acid	ND		2.22	0.886	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoropentanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NMeFOSE	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NMeFOSA	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NEtFOSE	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
NEtFOSA	ND		2.22	0.554	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
DONA	ND		3.32	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
11Cl-PF3OUdS	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluorododecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
Perfluoroundecanoic acid	ND		0.665	0.222	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1

Client Sample ID: 2023-SB-02-0608' **Lab Sample ID: 620-10021-4**
Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1
8:2 Fluorotelomer sulfonic acid	ND		3.32	0.665	ug/Kg	☼	03/01/23 10:57	03/11/23 02:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*121*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
M2-8:2 FTS	*114*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
M2-6:2 FTS	*128*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C5 PFHxA	*134*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C4 PFHpA	*140*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C8 PFOA	*133*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C9 PFNA	*128*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C6 PFDA	*115*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C7 PFUnA	*129*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C2-PFDoDA	*123*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C2 PFTeDA	*123*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C3 PFBS	*123*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C3 PFHxS	*128*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C8 PFOS	*125*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d3-NMeFOSAA	*65*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d5-NEtFOSAA	*74*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C8 FOSA	*112*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C4 PFBA	*127*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C5 PFPeA	*126*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d7-N-MeFOSE-M	*111*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d3-NMePFOSA	*107*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d9-N-EtFOSE-M	*113*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
d5-NEtPFOSA	*109*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:28*	*1*
13C3 HFPO-DA	*121*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:28*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.06	1.38	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Arsenic	**2.43**	**J**	2.44	1.14	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Barium	**19.0**		0.406	0.122	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Beryllium	**0.413**		0.406	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Cadmium	ND		0.406	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Chromium	**6.69**	**B**	1.22	0.284	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Lead	**2.55**		1.22	0.488	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Nickel	**3.03**		0.813	0.211	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Selenium	ND		4.06	1.22	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Silver	ND	^3+	0.813	0.325	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Thallium	ND		2.44	1.06	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Vanadium	**12.1**		0.813	0.349	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1
Zinc	**15.6**		1.63	0.650	mg/Kg	☼	03/01/23 11:49	03/03/23 02:39	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0646	0.0215	mg/Kg	☼	03/02/23 08:13	03/02/23 14:26	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0608'
Date Collected: 02/27/23 10:45
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-4
Matrix: Solid
Percent Solids: 88.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.5		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	88.5		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00408	0.00266	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Acetone	ND		0.0408	0.00914	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Acrylonitrile	ND		0.00408	0.00245	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Benzene	ND		0.00408	0.00273	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromobenzene	ND		0.00408	0.00272	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromochloromethane	ND		0.00408	0.00232	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromodichloromethane	ND		0.00408	0.00300	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromoform	ND		0.00408	0.00312	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Bromomethane	ND		0.00816	0.00509	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2-Butanone (MEK)	ND		0.00816	0.00325	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
n-Butylbenzene	ND		0.00816	0.00438	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
sec-Butylbenzene	ND		0.00408	0.00329	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
tert-Butylbenzene	ND		0.00408	0.00322	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Carbon disulfide	ND		0.00816	0.00287	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Carbon tetrachloride	ND		0.00408	0.00257	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chlorobenzene	ND		0.00408	0.00299	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chloroethane	ND		0.00816	0.00300	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chloroform	ND		0.00408	0.00274	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Chloromethane	ND		0.00816	0.00314	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2-Chlorotoluene	ND		0.00408	0.00325	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
4-Chlorotoluene	ND		0.00408	0.00354	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dibromo-3-Chloropropane	ND		0.00816	0.00346	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Dibromochloromethane	ND		0.00408	0.00270	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dibromoethane (EDB)	ND		0.00408	0.00293	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Dibromomethane	ND		0.00408	0.00240	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dichlorobenzene	ND		0.00408	0.00379	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3-Dichlorobenzene	ND		0.00408	0.00327	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,4-Dichlorobenzene	ND		0.00408	0.00387	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00816	0.00219	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1-Dichloroethane	ND		0.00408	0.00277	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dichloroethane	ND		0.00408	0.00275	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1-Dichloroethene	ND		0.00408	0.00250	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
cis-1,2-Dichloroethene	ND		0.00408	0.00236	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
trans-1,2-Dichloroethene	ND		0.00408	0.00254	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2-Dichloropropane	ND		0.00408	0.00270	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3-Dichloropropane	ND		0.00408	0.00312	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2,2-Dichloropropane	ND		0.00408	0.00282	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1-Dichloropropene	ND		0.00408	0.00278	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
cis-1,3-Dichloropropene	ND		0.00408	0.00266	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
trans-1,3-Dichloropropene	ND		0.00408	0.00310	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethylbenzene	ND		0.00408	0.00291	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Hexachlorobutadiene	ND		0.00816	0.00411	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
2-Hexanone (MBK)	ND		0.00816	0.00240	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Isopropylbenzene	ND		0.00408	0.00309	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
4-Isopropyltoluene	ND		0.00408	0.00401	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Methyl tert-butyl ether	ND		0.00408	0.00235	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		0.00816	0.00264	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Methylene Chloride	ND		0.00816	0.00219	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Naphthalene	ND		0.00408	0.00369	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1

Client Sample ID: 2023-SB-02-0810' **Lab Sample ID: 620-10021-5**
Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00408	0.00345	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Styrene	ND		0.00408	0.00316	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,1,2-Tetrachloroethane	ND		0.00408	0.00306	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,2,2-Tetrachloroethane	ND		0.00408	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Tetrachloroethene	ND		0.00408	0.00227	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Toluene	ND		0.00408	0.00259	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,3-Trichlorobenzene	ND		0.00408	0.00345	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,4-Trichlorobenzene	ND		0.00408	0.00376	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3,5-Trichlorobenzene	ND		0.00408	0.00388	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,1-Trichloroethane	ND		0.00408	0.00278	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,1,2-Trichloroethane	ND		0.00408	0.00308	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Trichloroethene	ND		0.00408	0.00274	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Trichlorofluoromethane (Freon 11)	ND		0.00408	0.00312	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,3-Trichloropropane	ND		0.00408	0.00362	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,2,4-Trimethylbenzene	ND		0.00408	0.00345	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3,5-Trimethylbenzene	ND		0.00408	0.00347	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Vinyl chloride	ND		0.00408	0.00249	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
m,p-Xylene	ND		0.00408	0.00558	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
o-Xylene	ND		0.00408	0.00298	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Tetrahydrofuran	ND		0.00816	0.00207	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethyl ether	ND		0.00408	0.00215	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Tert-amyl methyl ether	ND		0.00408	0.00322	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethyl tert-butyl ether	ND		0.00408	0.00269	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
di-Isopropyl ether	ND		0.00408	0.00291	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
tert-Butanol	ND		0.0816	0.0219	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,4-Dioxane	ND		0.0816	0.0254	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
trans-1,4-Dichloro-2-butene	ND		0.0204	0.00301	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Ethanol	ND		0.816	0.0506	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
1,3-Dichloropropene, Total	ND		0.00408	0.00310	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1
Xylenes, Total	ND		0.0122	0.00408	mg/Kg	☼	03/02/23 17:46	03/02/23 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/02/23 22:56*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.385	0.0685	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,2,4-Trichlorobenzene	ND		0.385	0.0883	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,2-Dichlorobenzene	ND		0.385	0.0743	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,3-Dichlorobenzene	ND		0.385	0.0933	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1,4-Dichlorobenzene	ND		0.385	0.0907	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
1-Methylnaphthalene	ND		0.0779	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4,5-Trichlorophenol	ND		0.385	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4,6-Trichlorophenol	ND		0.195	0.0476	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4-Dichlorophenol	ND		0.195	0.0777	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4-Dimethylphenol	ND		0.385	0.0565	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,4-Dinitrophenol	ND		0.385	0.101	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2,6-Dinitrotoluene	ND		0.195	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Chloronaphthalene	ND		0.385	0.0891	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Chlorophenol	ND		0.195	0.0798	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Methylnaphthalene	ND		0.0779	0.0576	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Methylphenol	ND		0.385	0.0563	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Nitroaniline	ND		0.385	0.0367	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
2-Nitrophenol	ND		0.195	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
3 & 4 Methylphenol	ND		0.385	0.0730	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
3,3'-Dichlorobenzidine	ND		0.385	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
3-Nitroaniline	ND		0.385	0.0344	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4,6-Dinitro-2-methylphenol	ND		0.385	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Bromophenyl phenyl ether	ND		0.385	0.0436	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Chloro-3-methylphenol	ND		0.385	0.0754	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Chloroaniline	ND		0.195	0.0295	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Chlorophenyl phenyl ether	ND		0.385	0.0412	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Nitroaniline	ND		0.195	0.0615	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
4-Nitrophenol	ND		0.385	0.134	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Acenaphthene	ND		0.0779	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Acenaphthylene	ND		0.0779	0.0511	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Acetophenone	ND		0.195	0.0475	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Aniline	ND		0.385	0.0295	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Anthracene	ND		0.0779	0.0451	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Azobenzene/Diphenyldiazene	ND		0.385	0.0657	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzidine	ND	*- *1	0.771	0.114	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[a]anthracene	ND		0.0779	0.0438	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[a]pyrene	ND		0.0779	0.0557	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[b]fluoranthene	ND		0.0779	0.0646	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[g,h,i]perylene	ND		0.0779	0.0608	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzo[k]fluoranthene	ND		0.0779	0.0606	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzoic acid	ND		0.385	0.265	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Benzyl alcohol	ND		0.385	0.0698	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Bis(2-chloroethoxy)methane	ND		0.385	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Bis(2-chloroethyl)ether	ND		0.195	0.0638	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
bis (2-chloroisopropyl) ether	ND		0.195	0.0868	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Bis(2-ethylhexyl) phthalate	ND		0.195	0.0496	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Butyl benzyl phthalate	ND		0.385	0.0387	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Carbazole	ND		0.195	0.0510	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Chrysene	ND		0.0779	0.0440	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Dibenz(a,h)anthracene	ND		0.0779	0.0594	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Dibenzofuran	ND		0.195	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Diethyl phthalate	ND		0.385	0.0423	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Dimethyl phthalate	ND		0.385	0.0502	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Di-n-butyl phthalate	ND		0.385	0.0412	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Di-n-octyl phthalate	ND		0.385	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Fluoranthene	ND		0.0779	0.0457	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Fluorene	ND		0.0779	0.0711	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Hexachlorobenzene	ND		0.195	0.0541	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Hexachlorobutadiene	ND		0.195	0.0973	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1

Client Sample ID: 2023-SB-02-0810' **Lab Sample ID: 620-10021-5**
Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.195	0.0745	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Hexachloroethane	ND		0.195	0.0766	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0779	0.0661	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Isophorone	ND		0.195	0.0534	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Naphthalene	ND		0.0779	0.0747	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Nitrobenzene	ND		0.195	0.0900	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
N-Nitrosodimethylamine	ND		0.195	0.0511	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
N-Nitrosodi-n-propylamine	ND		0.195	0.0777	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
N-Nitrosodiphenylamine	ND		0.385	0.0492	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pentachloronitrobenzene	ND		0.385	0.0608	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pentachlorophenol	ND		0.385	0.158	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Phenanthrene	ND		0.0779	0.0441	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Phenol	ND		0.385	0.0794	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pyrene	ND		0.0779	0.0430	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1
Pyridine	ND		0.385	0.0912	mg/Kg	☼	03/02/23 10:19	03/07/23 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
2-Fluorophenol (Surr)	*83*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*15 - 110*	*03/02/23 10:19*	*03/07/23 19:39*	*1*
Terphenyl-d14	*72*		*30 - 130*	*03/02/23 10:19*	*03/07/23 19:39*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.221	0.113	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.221	0.0944	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Ethylbenzene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Methyl tert-butyl ether	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
m,p-Xylene	ND		0.0882	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Naphthalene	ND		0.0441	0.0300	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
o-Xylene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
Toluene	ND		0.0441	0.00882	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
C5-C8 Aliphatics (unadjusted)	ND		0.221	0.113	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
C9-C10 Aromatics	ND		0.221	0.0309	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1
C9-C12 Aliphatics (unadjusted)	ND		0.221	0.0944	mg/Kg	☼	03/01/23 07:14	03/01/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:10*	*1*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:10*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0236	0.0170	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1221	ND		0.0236	0.00697	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1232	ND		0.0236	0.00654	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0236	0.00373	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1248	ND		0.0236	0.00737	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1254	ND		0.0236	0.0184	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1262	ND		0.0236	0.00550	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1260	ND		0.0236	0.00507	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1
PCB-1268	ND		0.0236	0.00503	mg/Kg	☼	02/28/23 15:09	03/03/23 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*
Tetrachloro-m-xylene	*75*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoroheptanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorononanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorodecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorotridecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorotetradecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorobutanesulfonic acid	ND		2.34	0.468	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorohexanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NEtFOSAA	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NMeFOSAA	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
10:2 FTS	ND		2.34	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoropentanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoroheptanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorononanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorodecanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctanesulfonamide	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorohexadecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorooctadecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorobutanoic acid	ND		2.34	0.936	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoropentanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NMeFOSE	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NMeFOSA	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NEtFOSE	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
NEtFOSA	ND		2.34	0.585	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
HFPODA	ND		2.34	1.17	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
DONA	ND		3.51	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
9Cl-PF3ONS	ND		2.34	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
11Cl-PF3OUdS	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluorododecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
4:2 Fluorotelomer sulfonic acid	ND		2.34	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
Perfluoroundecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.34	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1
8:2 Fluorotelomer sulfonic acid	ND		3.51	0.702	ug/Kg	☼	03/01/23 10:57	03/11/23 02:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*99*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C5 PFHxA	*118*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C4 PFHpA	*122*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C8 PFOA	*116*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C9 PFNA	*115*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C6 PFDA	*119*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C7 PFUnA	*119*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C2-PFDoDA	*121*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C2 PFTeDA	*114*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C3 PFBS	*120*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C3 PFHxS	*130*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d3-NMeFOSAA	*34*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d5-NEtFOSAA	*39*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C8 FOSA	*120*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C4 PFBA	*112*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C5 PFPeA	*112*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d7-N-MeFOSE-M	*123*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d3-NMePFOSA	*115*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d9-N-EtFOSE-M	*127*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
d5-NEtPFOSA	*124*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:39*	*1*
13C3 HFPO-DA	*119*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:39*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F2	4.62	1.57	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Arsenic	**6.17**		2.77	1.29	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Barium	**65.8**	**F2 F1**	0.462	0.138	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Beryllium	**1.21**	**B**	0.462	0.0923	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Cadmium	ND		0.462	0.0923	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Chromium	**15.8**	**F1**	1.38	0.323	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Lead	**6.33**	**F2 F1**	1.38	0.554	mg/Kg	☼	03/01/23 12:43	03/06/23 15:29	1
Nickel	**9.74**		0.923	0.240	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Selenium	ND		4.62	1.38	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Silver	ND	^3+	0.923	0.369	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Thallium	ND		2.77	1.20	mg/Kg	☼	03/01/23 12:43	03/06/23 15:29	1
Vanadium	**27.7**	**F1**	0.923	0.397	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1
Zinc	**37.9**	**F1**	1.85	0.739	mg/Kg	☼	03/01/23 12:43	03/03/23 07:26	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0697	0.0232	mg/Kg	☼	03/02/23 08:18	03/02/23 14:41	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-0810'
Date Collected: 02/27/23 10:50
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-5
Matrix: Solid
Percent Solids: 84.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.4		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	84.6		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00507	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Acetone	ND		0.0507	0.0114	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Acrylonitrile	ND		0.00507	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Benzene	ND		0.00507	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromobenzene	ND		0.00507	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromochloromethane	ND		0.00507	0.00288	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromodichloromethane	ND		0.00507	0.00372	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromoform	ND		0.00507	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Bromomethane	ND		0.0101	0.00631	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
n-Butylbenzene	ND		0.0101	0.00543	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
sec-Butylbenzene	ND		0.00507	0.00408	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
tert-Butylbenzene	ND		0.00507	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Carbon disulfide	ND		0.0101	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Carbon tetrachloride	ND		0.00507	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chlorobenzene	ND		0.00507	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chloroethane	ND		0.0101	0.00372	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chloroform	ND		0.00507	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Chloromethane	ND	*-	0.0101	0.00389	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2-Chlorotoluene	ND		0.00507	0.00403	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
4-Chlorotoluene	ND		0.00507	0.00440	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00430	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Dibromochloromethane	ND		0.00507	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dibromoethane (EDB)	ND		0.00507	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Dibromomethane	ND		0.00507	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dichlorobenzene	ND		0.00507	0.00470	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3-Dichlorobenzene	ND		0.00507	0.00406	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,4-Dichlorobenzene	ND		0.00507	0.00480	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1-Dichloroethane	ND		0.00507	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dichloroethane	ND		0.00507	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1-Dichloroethene	ND		0.00507	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
cis-1,2-Dichloroethene	ND		0.00507	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
trans-1,2-Dichloroethene	ND		0.00507	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2-Dichloropropane	ND		0.00507	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3-Dichloropropane	ND		0.00507	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2,2-Dichloropropane	ND		0.00507	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1-Dichloropropene	ND		0.00507	0.00345	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
cis-1,3-Dichloropropene	ND		0.00507	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
trans-1,3-Dichloropropene	ND		0.00507	0.00385	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethylbenzene	ND		0.00507	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Hexachlorobutadiene	ND		0.0101	0.00510	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
2-Hexanone (MBK)	ND		0.0101	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Isopropylbenzene	ND		0.00507	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
4-Isopropyltoluene	ND		0.00507	0.00498	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Methyl tert-butyl ether	ND		0.00507	0.00292	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Methylene Chloride	ND		0.0101	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Naphthalene	ND		0.00507	0.00458	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1

Client Sample ID: 2023-SB-02-1012' **Lab Sample ID: 620-10021-6**
Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00507	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Styrene	ND		0.00507	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,1,2-Tetrachloroethane	ND		0.00507	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,2,2-Tetrachloroethane	ND		0.00507	0.00464	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Tetrachloroethene	ND		0.00507	0.00282	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Toluene	ND		0.00507	0.00321	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,3-Trichlorobenzene	ND		0.00507	0.00428	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,4-Trichlorobenzene	ND		0.00507	0.00467	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3,5-Trichlorobenzene	ND		0.00507	0.00481	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,1-Trichloroethane	ND		0.00507	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,1,2-Trichloroethane	ND		0.00507	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Trichloroethene	ND		0.00507	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00507	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,3-Trichloropropane	ND		0.00507	0.00450	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,2,4-Trimethylbenzene	ND		0.00507	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3,5-Trimethylbenzene	ND		0.00507	0.00431	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Vinyl chloride	ND		0.00507	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
m,p-Xylene	ND		0.00507	0.00692	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
o-Xylene	ND		0.00507	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethyl ether	ND		0.00507	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Tert-amyl methyl ether	ND		0.00507	0.00400	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethyl tert-butyl ether	ND		0.00507	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
di-Isopropyl ether	ND		0.00507	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
tert-Butanol	ND		0.101	0.0272	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00374	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Ethanol	ND		1.01	0.0628	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
1,3-Dichloropropene, Total	ND		0.00507	0.00385	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1
Xylenes, Total	ND		0.0152	0.00507	mg/Kg	☼	02/28/23 11:02	02/28/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*02/28/23 11:02*	*02/28/23 20:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.403	0.0717	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,2,4-Trichlorobenzene	ND		0.403	0.0924	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,2-Dichlorobenzene	ND		0.403	0.0777	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,3-Dichlorobenzene	ND		0.403	0.0977	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1,4-Dichlorobenzene	ND		0.403	0.0950	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
1-Methylnaphthalene	ND		0.0815	0.0684	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4,5-Trichlorophenol	ND		0.403	0.0462	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4,6-Trichlorophenol	ND		0.204	0.0499	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4-Dichlorophenol	ND		0.204	0.0813	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4-Dimethylphenol	ND		0.403	0.0592	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,4-Dinitrophenol	ND		0.403	0.106	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.204	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2,6-Dinitrotoluene	ND		0.204	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Chloronaphthalene	ND		0.403	0.0933	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Chlorophenol	ND		0.204	0.0835	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Methylnaphthalene	ND		0.0815	0.0603	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Methylphenol	ND		0.403	0.0589	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Nitroaniline	ND		0.403	0.0384	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
2-Nitrophenol	ND		0.204	0.0725	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
3 & 4 Methylphenol	ND		0.403	0.0764	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
3,3'-Dichlorobenzidine	ND		0.403	0.0666	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
3-Nitroaniline	ND		0.403	0.0361	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4,6-Dinitro-2-methylphenol	ND		0.403	0.0725	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Bromophenyl phenyl ether	ND		0.403	0.0456	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Chloro-3-methylphenol	ND		0.403	0.0790	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Chloroaniline	ND		0.204	0.0309	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Chlorophenyl phenyl ether	ND		0.403	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Nitroaniline	ND		0.204	0.0644	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
4-Nitrophenol	ND		0.403	0.141	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Acenaphthene	ND		0.0815	0.0650	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Acenaphthylene	ND		0.0815	0.0535	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Acetophenone	ND		0.204	0.0497	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Aniline	ND		0.403	0.0309	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Anthracene	ND		0.0815	0.0472	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Azobenzene/Diphenyldiazene	ND		0.403	0.0688	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzidine	ND	*- *1	0.807	0.119	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[a]anthracene	ND		0.0815	0.0458	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[a]pyrene	ND		0.0815	0.0583	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[b]fluoranthene	ND		0.0815	0.0676	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[g,h,i]perylene	ND		0.0815	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzo[k]fluoranthene	ND		0.0815	0.0634	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzoic acid	ND		0.403	0.277	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Benzyl alcohol	ND		0.403	0.0731	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Bis(2-chloroethoxy)methane	ND		0.403	0.0702	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Bis(2-chloroethyl)ether	ND		0.204	0.0667	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
bis (2-chloroisopropyl) ether	ND		0.204	0.0908	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Bis(2-ethylhexyl) phthalate	ND		0.204	0.0519	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Butyl benzyl phthalate	ND		0.403	0.0405	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Carbazole	ND		0.204	0.0534	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Chrysene	ND		0.0815	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Dibenz(a,h)anthracene	ND		0.0815	0.0622	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Dibenzofuran	ND		0.204	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Diethyl phthalate	ND		0.403	0.0442	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Dimethyl phthalate	ND		0.403	0.0526	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Di-n-butyl phthalate	ND		0.403	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Di-n-octyl phthalate	ND		0.403	0.0666	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Fluoranthene	ND		0.0815	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Fluorene	ND		0.0815	0.0744	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Hexachlorobenzene	ND		0.204	0.0566	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Hexachlorobutadiene	ND		0.204	0.102	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1

Client Sample ID: 2023-SB-02-1012' **Lab Sample ID: 620-10021-6**
Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.204	0.0780	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Hexachloroethane	ND		0.204	0.0802	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Indeno[1,2,3-cd]pyrene	ND		0.0815	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Isophorone	ND		0.204	0.0559	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Naphthalene	ND		0.0815	0.0782	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Nitrobenzene	ND		0.204	0.0942	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
N-Nitrosodimethylamine	ND		0.204	0.0535	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
N-Nitrosodi-n-propylamine	ND		0.204	0.0813	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
N-Nitrosodiphenylamine	ND		0.403	0.0515	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pentachloronitrobenzene	ND		0.403	0.0637	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pentachlorophenol	ND		0.403	0.165	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Phenanthrene	ND		0.0815	0.0462	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Phenol	ND		0.403	0.0831	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pyrene	ND		0.0815	0.0450	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1
Pyridine	ND		0.403	0.0955	mg/Kg	☼	03/02/23 10:19	03/07/23 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
2-Fluorophenol (Surr)	*100*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
Phenol-d5 (Surr)	*93*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:08*	*1*
Terphenyl-d14	*92*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:08*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.258	0.132	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.258	0.110	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Ethylbenzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Methyl tert-butyl ether	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
m,p-Xylene	ND		0.103	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Naphthalene	ND		0.0516	0.0351	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
o-Xylene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
Toluene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.258	0.132	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
C9-C10 Aromatics	ND		0.258	0.0361	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.258	0.110	mg/Kg	☼	03/01/23 07:14	03/01/23 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:49*	*1*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*	*03/01/23 07:14*	*03/01/23 13:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0244	0.0176	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1221	ND		0.0244	0.00721	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1232	ND		0.0244	0.00676	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0244	0.00386	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1248	ND		0.0244	0.00763	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1254	ND		0.0244	0.0190	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1262	ND		0.0244	0.00569	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1260	ND		0.0244	0.00525	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1
PCB-1268	ND		0.0244	0.00520	mg/Kg	☼	02/28/23 15:09	03/03/23 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*
Tetrachloro-m-xylene	*80*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*02/28/23 15:09*	*03/03/23 00:47*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoroheptanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorononanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorodecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorotridecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorotetradecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorobutanesulfonic acid	ND		2.38	0.476	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorohexanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NEtFOSAA	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NMeFOSAA	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
10:2 FTS	ND		2.38	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoropentanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoroheptanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorononanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorodecanesulfonic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctanesulfonamide	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorohexadecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorooctadecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorobutanoic acid	ND		2.38	0.952	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoropentanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NMeFOSE	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NMeFOSA	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NEtFOSE	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
NEtFOSA	ND		2.38	0.595	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
HFPODA	ND		2.38	1.19	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
DONA	ND		3.57	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
9Cl-PF3ONS	ND		2.38	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
11Cl-PF3OUdS	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluorododecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.38	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
Perfluoroundecanoic acid	ND		0.714	0.238	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.38	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.57	0.714	ug/Kg	☼	03/01/23 10:57	03/11/23 02:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*117*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
M2-8:2 FTS	*118*		*15 - 200*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
M2-6:2 FTS	*127*		*10 - 200*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C5 PFHxA	*146*		*10 - 174*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C4 PFHpA	*144*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C8 PFOA	*141*		*26 - 159*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C9 PFNA	*129*		*26 - 165*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C6 PFDA	*124*		*26 - 161*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C2-PFDoDA	*127*		*11 - 166*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C2 PFTeDA	*120*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C3 PFBS	*126*		*27 - 179*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C3 PFHxS	*142*		*24 - 171*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C8 PFOS	*131*		*41 - 154*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d3-NMeFOSAA	*70*		*10 - 178*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d5-NEtFOSAA	*81*		*10 - 193*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C8 FOSA	*123*		*14 - 163*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C4 PFBA	*125*		*28 - 153*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C5 PFPeA	*124*		*24 - 161*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d7-N-MeFOSE-M	*117*		*10 - 179*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d3-NMePFOSA	*119*		*10 - 175*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d9-N-EtFOSE-M	*121*		*10 - 185*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
d5-NEtPFOSA	*114*		*10 - 180*	*03/01/23 10:57*	*03/11/23 02:50*	*1*
13C3 HFPO-DA	*132*		*10 - 169*	*03/01/23 10:57*	*03/11/23 02:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.95	1.68	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Arsenic	**1.59**	**J**	2.97	1.39	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Barium	**13.1**		0.495	0.149	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Beryllium	**0.317**	**J**	0.495	0.0990	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Cadmium	ND		0.495	0.0990	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Chromium	**3.49**	**B**	1.49	0.347	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Lead	**2.03**		1.49	0.594	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Nickel	**2.03**		0.990	0.257	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Selenium	ND		4.95	1.49	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Silver	ND	^3+	0.990	0.396	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Thallium	ND		2.97	1.29	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Vanadium	**6.12**		0.990	0.426	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1
Zinc	**7.79**		1.98	0.792	mg/Kg	☼	03/01/23 11:49	03/03/23 02:36	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0743	0.0248	mg/Kg	☼	03/02/23 08:13	03/02/23 14:28	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-02-1012'
Date Collected: 02/27/23 10:55
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-6
Matrix: Solid
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	80.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00498	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Acetone	ND		0.0498	0.0112	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Acrylonitrile	ND		0.00498	0.00299	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Benzene	ND		0.00498	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromobenzene	ND		0.00498	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromochloromethane	ND		0.00498	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromodichloromethane	ND		0.00498	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromoform	ND		0.00498	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Bromomethane	ND		0.00996	0.00621	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2-Butanone (MEK)	ND		0.00996	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
n-Butylbenzene	ND		0.00996	0.00534	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
sec-Butylbenzene	ND		0.00498	0.00401	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
tert-Butylbenzene	ND		0.00498	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Carbon disulfide	ND		0.00996	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Carbon tetrachloride	ND		0.00498	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chlorobenzene	ND		0.00498	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chloroethane	ND		0.00996	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chloroform	ND		0.00498	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Chloromethane	ND	*-	0.00996	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2-Chlorotoluene	ND		0.00498	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
4-Chlorotoluene	ND		0.00498	0.00432	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dibromo-3-Chloropropane	ND		0.00996	0.00422	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Dibromochloromethane	ND		0.00498	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dibromoethane (EDB)	ND		0.00498	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Dibromomethane	ND		0.00498	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dichlorobenzene	ND		0.00498	0.00462	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3-Dichlorobenzene	ND		0.00498	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,4-Dichlorobenzene	ND		0.00498	0.00472	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00996	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1-Dichloroethane	ND		0.00498	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dichloroethane	ND		0.00498	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1-Dichloroethene	ND		0.00498	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
cis-1,2-Dichloroethene	ND		0.00498	0.00288	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
trans-1,2-Dichloroethene	ND		0.00498	0.00310	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2-Dichloropropane	ND		0.00498	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3-Dichloropropane	ND		0.00498	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2,2-Dichloropropane	ND		0.00498	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1-Dichloropropene	ND		0.00498	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
cis-1,3-Dichloropropene	ND		0.00498	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
trans-1,3-Dichloropropene	ND		0.00498	0.00379	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethylbenzene	ND		0.00498	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Hexachlorobutadiene	ND		0.00996	0.00501	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
2-Hexanone (MBK)	ND		0.00996	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Isopropylbenzene	ND		0.00498	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
4-Isopropyltoluene	ND		0.00498	0.00489	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Methyl tert-butyl ether	ND		0.00498	0.00287	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
4-Methyl-2-pentanone (MIBK)	ND		0.00996	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Methylene Chloride	ND		0.00996	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Naphthalene	ND		0.00498	0.00450	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00498	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Styrene	ND		0.00498	0.00385	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,1,2-Tetrachloroethane	ND		0.00498	0.00374	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,2,2-Tetrachloroethane	ND		0.00498	0.00456	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Tetrachloroethene	ND		0.00498	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Toluene	ND		0.00498	0.00316	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,3-Trichlorobenzene	ND		0.00498	0.00420	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,4-Trichlorobenzene	ND		0.00498	0.00459	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3,5-Trichlorobenzene	ND		0.00498	0.00473	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,1-Trichloroethane	ND		0.00498	0.00340	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,1,2-Trichloroethane	ND		0.00498	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Trichloroethene	ND		0.00498	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Trichlorofluoromethane (Freon 11)	ND		0.00498	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,3-Trichloropropane	ND		0.00498	0.00442	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,2,4-Trimethylbenzene	ND		0.00498	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3,5-Trimethylbenzene	ND		0.00498	0.00423	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Vinyl chloride	ND		0.00498	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
m,p-Xylene	ND		0.00498	0.00680	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
o-Xylene	ND		0.00498	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Tetrahydrofuran	ND		0.00996	0.00252	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethyl ether	ND		0.00498	0.00262	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Tert-amyl methyl ether	ND		0.00498	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethyl tert-butyl ether	ND		0.00498	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
di-Isopropyl ether	ND		0.00498	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
tert-Butanol	ND		0.0996	0.0267	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,4-Dioxane	ND		0.0996	0.0310	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
trans-1,4-Dichloro-2-butene	ND		0.0249	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Ethanol	ND		0.996	0.0618	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
1,3-Dichloropropene, Total	ND		0.00498	0.00379	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1
Xylenes, Total	ND		0.0149	0.00498	mg/Kg	☼	02/28/23 11:02	02/28/23 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:23*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.345	0.0614	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,2,4-Trichlorobenzene	ND		0.345	0.0791	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,2-Dichlorobenzene	ND		0.345	0.0666	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,3-Dichlorobenzene	ND		0.345	0.0836	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1,4-Dichlorobenzene	ND		0.345	0.0813	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
1-Methylnaphthalene	ND		0.0698	0.0586	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4,5-Trichlorophenol	ND		0.345	0.0396	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4,6-Trichlorophenol	ND		0.175	0.0427	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4-Dichlorophenol	ND		0.175	0.0696	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4-Dimethylphenol	ND		0.345	0.0507	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,4-Dinitrophenol	ND		0.345	0.0908	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2,6-Dinitrotoluene	ND		0.175	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Chloronaphthalene	ND		0.345	0.0799	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Chlorophenol	ND		0.175	0.0715	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Methylnaphthalene	ND		0.0698	0.0516	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Methylphenol	ND		0.345	0.0504	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Nitroaniline	ND		0.345	0.0329	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
2-Nitrophenol	ND		0.175	0.0621	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
3 & 4 Methylphenol	ND		0.345	0.0654	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
3,3'-Dichlorobenzidine	ND		0.345	0.0570	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
3-Nitroaniline	ND		0.345	0.0309	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4,6-Dinitro-2-methylphenol	ND		0.345	0.0621	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Bromophenyl phenyl ether	ND		0.345	0.0390	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Chloro-3-methylphenol	ND		0.345	0.0676	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Chloroaniline	ND		0.175	0.0265	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Chlorophenyl phenyl ether	ND		0.345	0.0369	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Nitroaniline	ND		0.175	0.0552	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
4-Nitrophenol	ND		0.345	0.120	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Acenaphthene	ND		0.0698	0.0557	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Acenaphthylene	ND		0.0698	0.0458	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Acetophenone	ND		0.175	0.0426	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Aniline	ND		0.345	0.0265	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Anthracene	ND		0.0698	0.0404	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Azobenzene/Diphenyldiazene	ND		0.345	0.0589	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzidine	ND	*- *1	0.691	0.102	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[a]anthracene	ND		0.0698	0.0392	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[a]pyrene	ND		0.0698	0.0499	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[b]fluoranthene	ND		0.0698	0.0579	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[g,h,i]perylene	ND		0.0698	0.0545	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzo[k]fluoranthene	ND		0.0698	0.0543	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzoic acid	ND		0.345	0.238	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Benzyl alcohol	ND		0.345	0.0626	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Bis(2-chloroethoxy)methane	ND		0.345	0.0601	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Bis(2-chloroethyl)ether	ND		0.175	0.0571	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
bis (2-chloroisopropyl) ether	ND		0.175	0.0778	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Bis(2-ethylhexyl) phthalate	**2.73**		0.175	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Butyl benzyl phthalate	**0.142**	**J**	0.345	0.0346	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Carbazole	ND		0.175	0.0457	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Chrysene	**0.0518**	**J**	0.0698	0.0395	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Dibenz(a,h)anthracene	ND		0.0698	0.0533	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Dibenzofuran	ND		0.175	0.0605	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Diethyl phthalate	ND		0.345	0.0379	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Dimethyl phthalate	ND		0.345	0.0450	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Di-n-butyl phthalate	**0.120**	**J**	0.345	0.0369	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Di-n-octyl phthalate	ND		0.345	0.0570	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Fluoranthene	**0.112**		0.0698	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Fluorene	ND		0.0698	0.0637	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Hexachlorobenzene	ND		0.175	0.0485	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Hexachlorobutadiene	ND		0.175	0.0872	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1

Client Sample ID: 2023-SB-01-0002' **Lab Sample ID: 620-10021-7**
Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.175	0.0668	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Hexachloroethane	ND		0.175	0.0687	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0698	0.0592	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Isophorone	ND		0.175	0.0478	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Naphthalene	ND		0.0698	0.0670	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Nitrobenzene	ND		0.175	0.0807	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
N-Nitrosodimethylamine	ND		0.175	0.0458	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
N-Nitrosodi-n-propylamine	ND		0.175	0.0696	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
N-Nitrosodiphenylamine	ND		0.345	0.0441	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pentachloronitrobenzene	ND		0.345	0.0545	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pentachlorophenol	ND		0.345	0.141	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Phenanthrene	**0.0810**		0.0698	0.0396	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Phenol	ND		0.345	0.0712	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pyrene	**0.120**		0.0698	0.0385	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1
Pyridine	ND		0.345	0.0817	mg/Kg	☼	03/02/23 10:19	03/08/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
2-Fluorophenol (Surr)	*61*		*15 - 110*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
Nitrobenzene-d5 (Surr)	*37*		*30 - 130*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
Phenol-d5 (Surr)	*47*		*15 - 110*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*03/02/23 10:19*	*03/08/23 17:50*	*1*
Terphenyl-d14	*45*		*30 - 130*	*03/02/23 10:19*	*03/08/23 17:50*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Ethylbenzene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Methyl tert-butyl ether	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Naphthalene	ND		0.0520	0.0354	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
o-Xylene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
Toluene	ND		0.0520	0.0104	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
C9-C10 Aromatics	ND		0.260	0.0364	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/01/23 07:14	03/01/23 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 14:28*	*1*
a,a,a-Trifluorotoluene (fid)	*104*		*70 - 130*	*03/01/23 07:14*	*03/01/23 14:28*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.100	0.0723	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1221	ND		0.100	0.0297	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1232	ND		0.100	0.0278	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5

Client Sample ID: 2023-SB-01-0002' **Lab Sample ID: 620-10021-7**
Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.100	0.0159	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1248	ND		0.100	0.0314	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1254	**1.41**		0.100	0.0781	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1262	ND		0.100	0.0234	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1260	ND		0.100	0.0216	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5
PCB-1268	ND		0.100	0.0214	mg/Kg	☼	02/28/23 15:09	03/03/23 01:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*
Tetrachloro-m-xylene	*66*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*
DCB Decachlorobiphenyl (Surr)	*80*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*
DCB Decachlorobiphenyl (Surr)	*80*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:04*	*5*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoroheptanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorononanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorodecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorotridecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorotetradecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorobutanesulfonic acid	ND		2.10	0.420	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorohexanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NEtFOSAA	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NMeFOSAA	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
10:2 FTS	ND		2.10	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoropentanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoroheptanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorononanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorodecanesulfonic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctanesulfonamide	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorohexadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorooctadecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorobutanoic acid	ND		2.10	0.841	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoropentanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NMeFOSE	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NMeFOSA	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NEtFOSE	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
NEtFOSA	ND		2.10	0.526	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
HFPODA	ND		2.10	1.05	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
DONA	ND		3.15	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
9Cl-PF3ONS	ND		2.10	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
11Cl-PF3OUdS	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluorododecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
Perfluoroundecanoic acid	ND		0.631	0.210	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1

Client Sample ID: 2023-SB-01-0002' **Lab Sample ID: 620-10021-7**
Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.10	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.15	0.631	ug/Kg	☼	03/01/23 10:57	03/11/23 03:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
M2-8:2 FTS	*87*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
M2-6:2 FTS	*79*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C5 PFHxA	*73*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C4 PFHpA	*78*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C8 PFOA	*76*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C9 PFNA	*84*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C6 PFDA	*80*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C2-PFDoDA	*79*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C3 PFBS	*110*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C3 PFHxS	*109*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C8 PFOS	*114*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d5-NEtFOSAA	*18*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C8 FOSA	*73*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C4 PFBA	*62*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C5 PFPeA	*69*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d7-N-MeFOSE-M	*69*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d3-NMePFOSA	*14*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
d5-NEtPFOSA	*16*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:01*	*1*
13C3 HFPO-DA	*79*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.10	1.74	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Arsenic	**2.97**	**J**	3.06	1.43	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Barium	**19.1**		0.510	0.153	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Beryllium	**0.457**	**J**	0.510	0.102	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Cadmium	ND		0.510	0.102	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Chromium	**4.52**	**B**	1.53	0.357	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Lead	**6.92**		1.53	0.612	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Nickel	**2.99**		1.02	0.265	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Selenium	ND		5.10	1.53	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Silver	ND	^3+	1.02	0.408	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Thallium	ND		3.06	1.33	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Vanadium	**8.46**		1.02	0.439	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1
Zinc	**17.3**		2.04	0.817	mg/Kg	☼	03/01/23 11:49	03/03/23 02:33	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0227**	**J**	0.0588	0.0196	mg/Kg	☼	03/02/23 08:13	03/02/23 14:30	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0002'
Date Collected: 02/27/23 12:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-7
Matrix: Solid
Percent Solids: 94.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	5.8		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	94.2		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0204'
Date Collected: 02/27/23 12:05
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-8
Matrix: Solid
Percent Solids: 91.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00515	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Acetone	ND		0.0515	0.0115	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Acrylonitrile	ND		0.00515	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Benzene	ND		0.00515	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromobenzene	ND		0.00515	0.00343	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromochloromethane	ND		0.00515	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromodichloromethane	ND		0.00515	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromoform	ND		0.00515	0.00394	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Bromomethane	ND		0.0103	0.00642	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2-Butanone (MEK)	ND		0.0103	0.00410	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
n-Butylbenzene	ND		0.0103	0.00553	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
sec-Butylbenzene	ND		0.00515	0.00415	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
tert-Butylbenzene	ND		0.00515	0.00406	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Carbon disulfide	ND		0.0103	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Carbon tetrachloride	ND		0.00515	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chlorobenzene	ND		0.00515	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chloroethane	ND		0.0103	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chloroform	ND		0.00515	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Chloromethane	ND	*-	0.0103	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2-Chlorotoluene	ND		0.00515	0.00410	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
4-Chlorotoluene	ND		0.00515	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dibromo-3-Chloropropane	ND		0.0103	0.00437	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Dibromochloromethane	ND		0.00515	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dibromoethane (EDB)	ND		0.00515	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Dibromomethane	ND		0.00515	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dichlorobenzene	ND		0.00515	0.00478	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3-Dichlorobenzene	ND		0.00515	0.00413	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,4-Dichlorobenzene	ND		0.00515	0.00489	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0103	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1-Dichloroethane	ND		0.00515	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dichloroethane	ND		0.00515	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1-Dichloroethene	ND		0.00515	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
cis-1,2-Dichloroethene	ND		0.00515	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
trans-1,2-Dichloroethene	ND		0.00515	0.00321	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2-Dichloropropane	ND		0.00515	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3-Dichloropropane	ND		0.00515	0.00394	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2,2-Dichloropropane	ND		0.00515	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1-Dichloropropene	ND		0.00515	0.00351	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
cis-1,3-Dichloropropene	ND		0.00515	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
trans-1,3-Dichloropropene	ND		0.00515	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethylbenzene	ND		0.00515	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Hexachlorobutadiene	ND		0.0103	0.00519	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
2-Hexanone (MBK)	ND		0.0103	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Isopropylbenzene	ND		0.00515	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
4-Isopropyltoluene	ND		0.00515	0.00506	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Methyl tert-butyl ether	ND		0.00515	0.00297	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0103	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Methylene Chloride	ND		0.0103	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Naphthalene	ND		0.00515	0.00466	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00515	0.00436	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Styrene	ND		0.00515	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,1,2-Tetrachloroethane	ND		0.00515	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,2,2-Tetrachloroethane	ND		0.00515	0.00472	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Tetrachloroethene	ND		0.00515	0.00287	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Toluene	ND		0.00515	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,3-Trichlorobenzene	ND		0.00515	0.00435	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,4-Trichlorobenzene	ND		0.00515	0.00475	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3,5-Trichlorobenzene	ND		0.00515	0.00490	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,1-Trichloroethane	ND		0.00515	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,1,2-Trichloroethane	ND		0.00515	0.00389	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Trichloroethene	ND		0.00515	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00515	0.00394	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,3-Trichloropropane	ND		0.00515	0.00458	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,2,4-Trimethylbenzene	ND		0.00515	0.00436	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3,5-Trimethylbenzene	ND		0.00515	0.00438	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Vinyl chloride	ND		0.00515	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
m,p-Xylene	ND		0.00515	0.00704	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
o-Xylene	ND		0.00515	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Tetrahydrofuran	ND		0.0103	0.00261	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethyl ether	ND		0.00515	0.00271	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Tert-amyl methyl ether	ND		0.00515	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethyl tert-butyl ether	ND		0.00515	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
di-Isopropyl ether	ND		0.00515	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
tert-Butanol	ND		0.103	0.0276	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,4-Dioxane	ND		0.103	0.0321	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
trans-1,4-Dichloro-2-butene	ND		0.0258	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Ethanol	ND		1.03	0.0639	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
1,3-Dichloropropene, Total	ND		0.00515	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1
Xylenes, Total	ND		0.0155	0.00515	mg/Kg	☼	02/28/23 11:02	02/28/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*02/28/23 11:02*	*02/28/23 21:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.354	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,2,4-Trichlorobenzene	ND		0.354	0.0811	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,2-Dichlorobenzene	ND		0.354	0.0682	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,3-Dichlorobenzene	ND		0.354	0.0857	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1,4-Dichlorobenzene	ND		0.354	0.0834	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
1-Methylnaphthalene	ND		0.0716	0.0601	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4,5-Trichlorophenol	ND		0.354	0.0406	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4,6-Trichlorophenol	ND		0.179	0.0438	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4-Dichlorophenol	ND		0.179	0.0713	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4-Dimethylphenol	ND		0.354	0.0519	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,4-Dinitrophenol	**1.29**		0.354	0.0931	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2,6-Dinitrotoluene	ND		0.179	0.0420	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Chloronaphthalene	ND		0.354	0.0819	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Chlorophenol	ND		0.179	0.0733	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Methylnaphthalene	ND		0.0716	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Methylphenol	ND		0.354	0.0517	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Nitroaniline	ND		0.354	0.0337	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
2-Nitrophenol	ND		0.179	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
3 & 4 Methylphenol	ND		0.354	0.0671	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
3,3'-Dichlorobenzidine	ND		0.354	0.0585	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
3-Nitroaniline	ND		0.354	0.0317	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4,6-Dinitro-2-methylphenol	ND		0.354	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Bromophenyl phenyl ether	ND		0.354	0.0400	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Chloro-3-methylphenol	ND		0.354	0.0693	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Chloroaniline	ND		0.179	0.0271	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Chlorophenyl phenyl ether	ND		0.354	0.0379	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Nitroaniline	ND		0.179	0.0565	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
4-Nitrophenol	ND		0.354	0.123	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Acenaphthene	ND		0.0716	0.0571	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Acenaphthylene	ND		0.0716	0.0470	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Acetophenone	ND		0.179	0.0437	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Aniline	**0.0374**	**J**	0.354	0.0271	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Anthracene	ND		0.0716	0.0414	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Azobenzene/Diphenyldiazene	ND		0.354	0.0604	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzidine	ND	*- *1	0.708	0.105	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[a]anthracene	**0.0452**	**J**	0.0716	0.0402	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[a]pyrene	**0.0531**	**J**	0.0716	0.0512	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[b]fluoranthene	ND		0.0716	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[g,h,i]perylene	ND		0.0716	0.0559	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzo[k]fluoranthene	ND		0.0716	0.0557	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzoic acid	ND		0.354	0.244	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Benzyl alcohol	ND		0.354	0.0642	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Bis(2-chloroethoxy)methane	ND		0.354	0.0616	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Bis(2-chloroethyl)ether	ND		0.179	0.0586	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
bis (2-chloroisopropyl) ether	ND		0.179	0.0797	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Bis(2-ethylhexyl) phthalate	**1.26**		0.179	0.0456	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Butyl benzyl phthalate	**0.125**	**J**	0.354	0.0355	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Carbazole	ND		0.179	0.0469	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Chrysene	**0.0663**	**J**	0.0716	0.0404	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Dibenz(a,h)anthracene	ND		0.0716	0.0546	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Dibenzofuran	ND		0.179	0.0620	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Diethyl phthalate	ND		0.354	0.0388	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Dimethyl phthalate	ND		0.354	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Di-n-butyl phthalate	**0.120**	**J**	0.354	0.0379	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Di-n-octyl phthalate	ND		0.354	0.0585	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Fluoranthene	**0.110**		0.0716	0.0420	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Fluorene	ND		0.0716	0.0653	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Hexachlorobenzene	ND		0.179	0.0497	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Hexachlorobutadiene	ND		0.179	0.0894	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.179	0.0685	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Hexachloroethane	ND		0.179	0.0704	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0716	0.0607	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Isophorone	ND		0.179	0.0490	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Naphthalene	ND		0.0716	0.0687	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Nitrobenzene	ND		0.179	0.0827	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
N-Nitrosodimethylamine	ND		0.179	0.0470	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
N-Nitrosodi-n-propylamine	ND		0.179	0.0713	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
N-Nitrosodiphenylamine	ND		0.354	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pentachloronitrobenzene	ND		0.354	0.0559	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pentachlorophenol	ND		0.354	0.145	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Phenanthrene	**0.118**		0.0716	0.0406	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Phenol	ND		0.354	0.0730	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pyrene	**0.162**		0.0716	0.0395	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1
Pyridine	ND		0.354	0.0838	mg/Kg	☼	03/02/23 10:19	03/07/23 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
2-Fluorophenol (Surr)	*102*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
Phenol-d5 (Surr)	*92*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
2,4,6-Tribromophenol (Surr)	*99*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:01*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:01*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.362	0.185	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.362	0.155	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Ethylbenzene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Methyl tert-butyl ether	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
m,p-Xylene	ND		0.145	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Naphthalene	**0.0719**	**J B**	0.0723	0.0492	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
o-Xylene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
Toluene	ND		0.0723	0.0145	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
C5-C8 Aliphatics (unadjusted)	ND		0.362	0.185	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
C9-C10 Aromatics	ND		0.362	0.0506	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1
C9-C12 Aliphatics (unadjusted)	ND		0.362	0.155	mg/Kg	☼	03/01/23 07:14	03/01/23 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 15:49*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 15:49*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.102	0.0733	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1221	ND		0.102	0.0301	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1232	ND		0.102	0.0282	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5

Client Sample ID: 2023-SB-01-0204'
Date Collected: 02/27/23 12:05
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-8
Matrix: Solid
Percent Solids: 91.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.102	0.0161	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1248	ND		0.102	0.0318	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1254	**1.21**		0.102	0.0791	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1262	ND		0.102	0.0237	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1260	ND		0.102	0.0219	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5
PCB-1268	ND		0.102	0.0217	mg/Kg	☼	02/28/23 15:09	03/03/23 01:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*
Tetrachloro-m-xylene	*61*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:21*	*5*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoroheptanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorononanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorodecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorotridecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorotetradecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorobutanesulfonic acid	ND		2.18	0.436	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorohexanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
10:2 FTS	ND		2.18	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoropentanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoroheptanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorononanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorodecanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctanesulfonamide	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorohexadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorooctadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorobutanoic acid	ND		2.18	0.872	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoropentanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NMeFOSE	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NMeFOSA	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NEtFOSE	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
NEtFOSA	ND		2.18	0.545	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
DONA	ND		3.27	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
11Cl-PF3OUdS	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluorododecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
Perfluoroundecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1

Client Sample ID: 2023-SB-01-0204' **Lab Sample ID: 620-10021-8**
Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1
8:2 Fluorotelomer sulfonic acid	ND		3.27	0.654	ug/Kg	☼	03/01/23 10:57	03/11/23 03:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*51*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
M2-8:2 FTS	*50*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
M2-6:2 FTS	*57*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C5 PFHxA	*61*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C4 PFHpA	*65*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C8 PFOA	*64*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C9 PFNA	*66*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C6 PFDA	*65*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C7 PFUnA	*62*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C2-PFDoDA	*61*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C2 PFTeDA	*63*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C3 PFBS	*88*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C3 PFHxS	*94*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C8 PFOS	*96*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d3-NMeFOSAA	*5*	**5-*	*10 - 178*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d5-NEtFOSAA	*6*	**5-*	*10 - 193*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C8 FOSA	*114*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C4 PFBA	*51*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C5 PFPeA	*52*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d7-N-MeFOSE-M	*112*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d3-NMePFOSA	*84*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d9-N-EtFOSE-M	*117*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
d5-NEtPFOSA	*91*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:12*	*1*
13C3 HFPO-DA	*73*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.29	1.80	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Arsenic	**3.95**		3.18	1.48	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Barium	**26.1**		0.529	0.159	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Beryllium	**0.603**		0.529	0.106	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Cadmium	ND		0.529	0.106	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Chromium	**7.55**	**B**	1.59	0.371	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Lead	**7.11**		1.59	0.635	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Nickel	**3.65**		1.06	0.275	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Selenium	ND		5.29	1.59	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Silver	ND	^3+	1.06	0.423	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Thallium	ND		3.18	1.38	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Vanadium	**13.1**		1.06	0.455	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1
Zinc	**24.3**		2.12	0.847	mg/Kg	☼	03/01/23 11:49	03/03/23 02:30	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0246**	**J**	0.0604	0.0201	mg/Kg	☼	03/02/23 08:13	03/02/23 14:32	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0204'
Date Collected: 02/27/23 12:05
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-8
Matrix: Solid
Percent Solids: 91.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.3		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	91.7		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0406'
Date Collected: 02/27/23 12:10
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-9
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00529	0.00345	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Acetone	**0.0137**	**J B**	0.0529	0.0118	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Acrylonitrile	ND		0.00529	0.00317	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Benzene	ND		0.00529	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromobenzene	ND		0.00529	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromochloromethane	ND		0.00529	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromodichloromethane	ND		0.00529	0.00388	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromoform	ND		0.00529	0.00404	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Bromomethane	ND		0.0106	0.00659	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2-Butanone (MEK)	ND		0.0106	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
n-Butylbenzene	ND		0.0106	0.00567	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
sec-Butylbenzene	ND		0.00529	0.00426	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
tert-Butylbenzene	ND		0.00529	0.00417	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Carbon disulfide	ND		0.0106	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Carbon tetrachloride	ND		0.00529	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chlorobenzene	ND		0.00529	0.00387	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chloroethane	ND		0.0106	0.00388	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chloroform	ND		0.00529	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Chloromethane	ND	*-	0.0106	0.00406	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2-Chlorotoluene	ND		0.00529	0.00421	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
4-Chlorotoluene	ND		0.00529	0.00459	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00448	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Dibromochloromethane	ND		0.00529	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dibromoethane (EDB)	ND		0.00529	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Dibromomethane	ND		0.00529	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dichlorobenzene	ND		0.00529	0.00491	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3-Dichlorobenzene	ND		0.00529	0.00424	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,4-Dichlorobenzene	ND		0.00529	0.00501	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1-Dichloroethane	ND		0.00529	0.00359	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dichloroethane	ND		0.00529	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1-Dichloroethene	ND		0.00529	0.00324	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
cis-1,2-Dichloroethene	ND		0.00529	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
trans-1,2-Dichloroethene	ND		0.00529	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2-Dichloropropane	ND		0.00529	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3-Dichloropropane	ND		0.00529	0.00404	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2,2-Dichloropropane	ND		0.00529	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1-Dichloropropene	ND		0.00529	0.00360	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
cis-1,3-Dichloropropene	ND		0.00529	0.00345	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
trans-1,3-Dichloropropene	ND		0.00529	0.00402	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethylbenzene	ND		0.00529	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Hexachlorobutadiene	ND		0.0106	0.00532	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
2-Hexanone (MBK)	ND		0.0106	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Isopropylbenzene	ND		0.00529	0.00400	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
4-Isopropyltoluene	ND		0.00529	0.00519	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Methyl tert-butyl ether	ND		0.00529	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Methylene Chloride	ND		0.0106	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Naphthalene	ND		0.00529	0.00478	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1

Client Sample ID: 2023-SB-01-0406' **Lab Sample ID: 620-10021-9**
Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00529	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Styrene	ND		0.00529	0.00409	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,1,2-Tetrachloroethane	ND		0.00529	0.00397	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,2,2-Tetrachloroethane	ND		0.00529	0.00484	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Tetrachloroethene	ND		0.00529	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Toluene	ND		0.00529	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,3-Trichlorobenzene	ND		0.00529	0.00446	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,4-Trichlorobenzene	ND		0.00529	0.00488	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3,5-Trichlorobenzene	ND		0.00529	0.00502	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,1-Trichloroethane	ND		0.00529	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,1,2-Trichloroethane	ND		0.00529	0.00399	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Trichloroethene	ND		0.00529	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00529	0.00404	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,3-Trichloropropane	ND		0.00529	0.00470	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,2,4-Trimethylbenzene	ND		0.00529	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3,5-Trimethylbenzene	ND		0.00529	0.00449	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Vinyl chloride	ND		0.00529	0.00323	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
m,p-Xylene	ND		0.00529	0.00722	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
o-Xylene	ND		0.00529	0.00386	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethyl ether	ND		0.00529	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Tert-amyl methyl ether	ND		0.00529	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethyl tert-butyl ether	ND		0.00529	0.00348	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
di-Isopropyl ether	ND		0.00529	0.00378	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
tert-Butanol	ND		0.106	0.0283	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,4-Dioxane	ND		0.106	0.0329	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
trans-1,4-Dichloro-2-butene	ND		0.0264	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Ethanol	ND		1.06	0.0656	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
1,3-Dichloropropene, Total	ND		0.00529	0.00402	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1
Xylenes, Total	ND		0.0159	0.00529	mg/Kg	☼	02/28/23 11:02	02/28/23 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.375	0.0667	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,2,4-Trichlorobenzene	ND		0.375	0.0859	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,2-Dichlorobenzene	ND		0.375	0.0723	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,3-Dichlorobenzene	ND		0.375	0.0908	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1,4-Dichlorobenzene	ND		0.375	0.0883	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
1-Methylnaphthalene	ND		0.0758	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4,5-Trichlorophenol	ND		0.375	0.0430	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4-Dichlorophenol	ND		0.190	0.0756	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4-Dimethylphenol	ND		0.375	0.0550	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,4-Dinitrophenol	**0.114**	**J**	0.375	0.0986	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0406'
Date Collected: 02/27/23 12:10
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-9
Matrix: Solid
Percent Solids: 85.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2,6-Dinitrotoluene	ND		0.190	0.0444	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Chloronaphthalene	ND		0.375	0.0867	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Chlorophenol	ND		0.190	0.0776	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Methylnaphthalene	ND		0.0758	0.0560	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Methylphenol	ND		0.375	0.0548	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Nitroaniline	ND		0.375	0.0357	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
2-Nitrophenol	ND		0.190	0.0674	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
3 & 4 Methylphenol	ND		0.375	0.0710	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
3,3'-Dichlorobenzidine	ND		0.375	0.0619	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
3-Nitroaniline	ND		0.375	0.0335	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4,6-Dinitro-2-methylphenol	ND		0.375	0.0674	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Bromophenyl phenyl ether	ND		0.375	0.0424	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Chloro-3-methylphenol	ND		0.375	0.0734	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Chlorophenyl phenyl ether	ND		0.375	0.0401	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Nitroaniline	ND		0.190	0.0599	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
4-Nitrophenol	ND		0.375	0.131	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Acenaphthene	ND		0.0758	0.0605	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Acenaphthylene	ND		0.0758	0.0498	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Aniline	ND		0.375	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Anthracene	ND		0.0758	0.0439	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Azobenzene/Diphenyldiazene	ND		0.375	0.0640	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzidine	ND	*- *1	0.750	0.111	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[a]anthracene	ND		0.0758	0.0426	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[a]pyrene	ND		0.0758	0.0542	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[b]fluoranthene	ND		0.0758	0.0628	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[g,h,i]perylene	ND		0.0758	0.0592	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzo[k]fluoranthene	ND		0.0758	0.0590	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzoic acid	ND		0.375	0.258	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Benzyl alcohol	ND		0.375	0.0680	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Bis(2-chloroethoxy)methane	ND		0.375	0.0652	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Bis(2-chloroethyl)ether	ND		0.190	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0844	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Bis(2-ethylhexyl) phthalate	**0.366**		0.190	0.0483	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Butyl benzyl phthalate	ND		0.375	0.0376	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Chrysene	ND		0.0758	0.0428	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Dibenz(a,h)anthracene	ND		0.0758	0.0578	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Dibenzofuran	ND		0.190	0.0657	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Diethyl phthalate	ND		0.375	0.0411	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Dimethyl phthalate	ND		0.375	0.0489	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Di-n-butyl phthalate	ND		0.375	0.0401	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Di-n-octyl phthalate	ND		0.375	0.0619	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Fluoranthene	ND		0.0758	0.0444	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Fluorene	ND		0.0758	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Hexachlorobenzene	ND		0.190	0.0526	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Hexachlorobutadiene	ND		0.190	0.0947	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0725	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Hexachloroethane	ND		0.190	0.0746	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0758	0.0643	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Isophorone	ND		0.190	0.0519	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Naphthalene	ND		0.0758	0.0727	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Nitrobenzene	ND		0.190	0.0876	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
N-Nitrosodimethylamine	ND		0.190	0.0498	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0756	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
N-Nitrosodiphenylamine	ND		0.375	0.0478	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pentachloronitrobenzene	ND		0.375	0.0592	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pentachlorophenol	ND		0.375	0.153	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Phenanthrene	ND		0.0758	0.0430	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Phenol	ND		0.375	0.0773	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pyrene	ND		0.0758	0.0418	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1
Pyridine	ND		0.375	0.0888	mg/Kg	☼	03/02/23 10:19	03/07/23 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
2-Fluorophenol (Surr)	*108*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
Nitrobenzene-d5 (Surr)	*79*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
Phenol-d5 (Surr)	*90*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*15 - 110*	*03/02/23 10:19*	*03/07/23 22:30*	*1*
Terphenyl-d14	*74*		*30 - 130*	*03/02/23 10:19*	*03/07/23 22:30*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.250	0.128	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.250	0.107	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Ethylbenzene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Methyl tert-butyl ether	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Naphthalene	ND		0.0501	0.0340	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
o-Xylene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
Toluene	ND		0.0501	0.0100	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg	☼	03/01/23 07:14	03/01/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 16:28*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 16:28*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0224	0.0161	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1221	ND		0.0224	0.00662	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1232	ND		0.0224	0.00621	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1

Client Sample ID: 2023-SB-01-0406' **Lab Sample ID: 620-10021-9**
Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0224	0.00354	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1248	ND		0.0224	0.00700	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1254	**0.369**		0.0224	0.0174	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1262	ND		0.0224	0.00522	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1260	ND		0.0224	0.00482	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1
PCB-1268	ND		0.0224	0.00477	mg/Kg	☼	02/28/23 15:09	03/03/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*
Tetrachloro-m-xylene	*57*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:39*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoroheptanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorononanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorodecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorotridecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorotetradecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorobutanesulfonic acid	ND		2.26	0.453	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorohexanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NEtFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NMeFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
10:2 FTS	ND		2.26	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoropentanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoroheptanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorononanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorodecanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctanesulfonamide	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorohexadecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorooctadecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorobutanoic acid	ND		2.26	0.905	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoropentanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NMeFOSE	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NMeFOSA	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NEtFOSE	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
NEtFOSA	ND		2.26	0.566	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
HFPODA	ND		2.26	1.13	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
DONA	ND		3.40	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
9Cl-PF3ONS	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
11Cl-PF3OUdS	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluorododecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
4:2 Fluorotelomer sulfonic acid	ND		2.26	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
Perfluoroundecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.26	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1
8:2 Fluorotelomer sulfonic acid	ND		3.40	0.679	ug/Kg	☼	03/01/23 10:57	03/11/23 03:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*106*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
M2-8:2 FTS	*91*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
M2-6:2 FTS	*110*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C5 PFHxA	*117*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C4 PFHpA	*126*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C8 PFOA	*122*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C9 PFNA	*121*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C6 PFDA	*113*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C7 PFUnA	*107*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C2 PFTeDA	*116*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C3 PFBS	*109*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C3 PFHxS	*122*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C8 PFOS	*118*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d3-NMeFOSAA	*45*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d5-NEtFOSAA	*47*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C8 FOSA	*83*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C4 PFBA	*105*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C5 PFPeA	*104*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d3-NMePFOSA	*42*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d9-N-EtFOSE-M	*81*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
d5-NEtPFOSA	*42*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:23*	*1*
13C3 HFPO-DA	*127*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.90	1.67	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Arsenic	**2.65**	**J**	2.94	1.37	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Barium	**14.0**		0.490	0.147	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Beryllium	**0.412**	**J**	0.490	0.0980	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Cadmium	ND		0.490	0.0980	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Chromium	**3.92**	**B**	1.47	0.343	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Lead	**3.79**		1.47	0.588	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Nickel	**2.51**		0.980	0.255	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Selenium	ND		4.90	1.47	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Silver	ND	^3+	0.980	0.392	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Thallium	ND		2.94	1.27	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Vanadium	**5.86**		0.980	0.421	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1
Zinc	**12.0**		1.96	0.784	mg/Kg	☼	03/01/23 11:49	03/03/23 02:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0677	0.0226	mg/Kg	☼	03/02/23 08:13	03/02/23 14:34	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0406' **Lab Sample ID: 620-10021-9**
Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.8		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00451	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Acetone	ND		0.0451	0.0101	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Acrylonitrile	ND		0.00451	0.00270	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Benzene	ND		0.00451	0.00301	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromobenzene	ND		0.00451	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromochloromethane	ND		0.00451	0.00256	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromodichloromethane	ND		0.00451	0.00331	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromoform	ND		0.00451	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Bromomethane	ND		0.00901	0.00561	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2-Butanone (MEK)	ND		0.00901	0.00359	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
n-Butylbenzene	ND		0.00901	0.00483	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
sec-Butylbenzene	ND		0.00451	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
tert-Butylbenzene	ND		0.00451	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Carbon disulfide	ND		0.00901	0.00316	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Carbon tetrachloride	ND		0.00451	0.00284	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chlorobenzene	ND		0.00451	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chloroethane	ND		0.00901	0.00331	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chloroform	ND		0.00451	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Chloromethane	ND	*-	0.00901	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2-Chlorotoluene	ND		0.00451	0.00359	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
4-Chlorotoluene	ND		0.00451	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dibromo-3-Chloropropane	ND		0.00901	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Dibromochloromethane	ND		0.00451	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dibromoethane (EDB)	ND		0.00451	0.00323	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Dibromomethane	ND		0.00451	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dichlorobenzene	ND		0.00451	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3-Dichlorobenzene	ND		0.00451	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,4-Dichlorobenzene	ND		0.00451	0.00427	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00901	0.00241	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1-Dichloroethane	ND		0.00451	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dichloroethane	ND		0.00451	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1-Dichloroethene	ND		0.00451	0.00276	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
cis-1,2-Dichloroethene	ND		0.00451	0.00260	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
trans-1,2-Dichloroethene	ND		0.00451	0.00280	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2-Dichloropropane	ND		0.00451	0.00298	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3-Dichloropropane	ND		0.00451	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2,2-Dichloropropane	ND		0.00451	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1-Dichloropropene	ND		0.00451	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
cis-1,3-Dichloropropene	ND		0.00451	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
trans-1,3-Dichloropropene	ND		0.00451	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethylbenzene	ND		0.00451	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Hexachlorobutadiene	ND		0.00901	0.00453	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
2-Hexanone (MBK)	ND		0.00901	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Isopropylbenzene	ND		0.00451	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
4-Isopropyltoluene	ND		0.00451	0.00442	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Methyl tert-butyl ether	ND		0.00451	0.00259	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		0.00901	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Methylene Chloride	ND		0.00901	0.00241	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Naphthalene	ND		0.00451	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00451	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Styrene	ND		0.00451	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,1,2-Tetrachloroethane	ND		0.00451	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,2,2-Tetrachloroethane	ND		0.00451	0.00413	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Tetrachloroethene	ND		0.00451	0.00250	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Toluene	ND		0.00451	0.00286	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,3-Trichlorobenzene	ND		0.00451	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,4-Trichlorobenzene	ND		0.00451	0.00415	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3,5-Trichlorobenzene	ND		0.00451	0.00428	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,1-Trichloroethane	ND		0.00451	0.00307	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,1,2-Trichloroethane	ND		0.00451	0.00340	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Trichloroethene	ND		0.00451	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Trichlorofluoromethane (Freon 11)	ND		0.00451	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,3-Trichloropropane	ND		0.00451	0.00400	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,2,4-Trimethylbenzene	ND		0.00451	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3,5-Trimethylbenzene	ND		0.00451	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Vinyl chloride	ND		0.00451	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
m,p-Xylene	ND		0.00451	0.00615	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
o-Xylene	ND		0.00451	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Tetrahydrofuran	ND		0.00901	0.00228	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethyl ether	ND		0.00451	0.00237	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Tert-amyl methyl ether	ND		0.00451	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethyl tert-butyl ether	ND		0.00451	0.00296	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
di-Isopropyl ether	ND		0.00451	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
tert-Butanol	ND		0.0901	0.0241	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,4-Dioxane	ND		0.0901	0.0280	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
trans-1,4-Dichloro-2-butene	ND		0.0225	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Ethanol	ND		0.901	0.0559	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
1,3-Dichloropropene, Total	ND		0.00451	0.00342	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1
Xylenes, Total	ND		0.0135	0.00451	mg/Kg	☼	02/28/23 11:02	02/28/23 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*02/28/23 11:02*	*02/28/23 22:40*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.394	0.0702	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,2,4-Trichlorobenzene	ND		0.394	0.0904	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,2-Dichlorobenzene	ND		0.394	0.0760	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,3-Dichlorobenzene	ND		0.394	0.0955	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1,4-Dichlorobenzene	ND		0.394	0.0929	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
1-Methylnaphthalene	ND		0.0797	0.0669	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4,5-Trichlorophenol	ND		0.394	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4,6-Trichlorophenol	ND		0.200	0.0488	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4-Dichlorophenol	ND		0.200	0.0795	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4-Dimethylphenol	ND		0.394	0.0578	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,4-Dinitrophenol	ND		0.394	0.104	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0608'
Date Collected: 02/27/23 12:15
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-10
Matrix: Solid
Percent Solids: 82.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.200	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2,6-Dinitrotoluene	ND		0.200	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Chloronaphthalene	ND		0.394	0.0912	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Chlorophenol	ND		0.200	0.0816	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Methylnaphthalene	ND		0.0797	0.0589	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Methylphenol	ND		0.394	0.0576	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Nitroaniline	ND		0.394	0.0375	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
2-Nitrophenol	ND		0.200	0.0709	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
3 & 4 Methylphenol	ND		0.394	0.0747	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
3,3'-Dichlorobenzidine	ND		0.394	0.0651	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
3-Nitroaniline	ND		0.394	0.0353	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4,6-Dinitro-2-methylphenol	ND		0.394	0.0709	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Bromophenyl phenyl ether	ND		0.394	0.0446	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Chloro-3-methylphenol	ND		0.394	0.0772	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Chloroaniline	ND		0.200	0.0302	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Chlorophenyl phenyl ether	ND		0.394	0.0422	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Nitroaniline	ND		0.200	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
4-Nitrophenol	ND		0.394	0.137	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Acenaphthene	ND		0.0797	0.0636	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Acenaphthylene	ND		0.0797	0.0524	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Acetophenone	ND		0.200	0.0486	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Aniline	ND		0.394	0.0302	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Anthracene	ND		0.0797	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Azobenzene/Diphenyldiazene	ND		0.394	0.0673	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzidine	ND	*- *1	0.789	0.117	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[a]anthracene	ND		0.0797	0.0448	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[a]pyrene	ND		0.0797	0.0570	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[b]fluoranthene	ND		0.0797	0.0661	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[g,h,i]perylene	ND		0.0797	0.0623	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzo[k]fluoranthene	ND		0.0797	0.0620	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzoic acid	ND		0.394	0.271	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Benzyl alcohol	ND		0.394	0.0715	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Bis(2-chloroethoxy)methane	ND		0.394	0.0686	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Bis(2-chloroethyl)ether	ND		0.200	0.0653	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
bis (2-chloroisopropyl) ether	ND		0.200	0.0888	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Bis(2-ethylhexyl) phthalate	ND		0.200	0.0508	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Butyl benzyl phthalate	ND		0.394	0.0396	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Carbazole	ND		0.200	0.0522	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Chrysene	ND		0.0797	0.0451	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Dibenz(a,h)anthracene	ND		0.0797	0.0608	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Dibenzofuran	ND		0.200	0.0691	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Diethyl phthalate	ND		0.394	0.0433	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Dimethyl phthalate	ND		0.394	0.0514	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Di-n-butyl phthalate	ND		0.394	0.0422	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Di-n-octyl phthalate	ND		0.394	0.0651	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Fluoranthene	ND		0.0797	0.0467	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Fluorene	ND		0.0797	0.0728	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Hexachlorobenzene	ND		0.200	0.0553	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Hexachlorobutadiene	ND		0.200	0.0996	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.200	0.0763	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Hexachloroethane	ND		0.200	0.0784	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0797	0.0676	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Isophorone	ND		0.200	0.0546	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Naphthalene	ND		0.0797	0.0765	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Nitrobenzene	ND		0.200	0.0922	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
N-Nitrosodimethylamine	ND		0.200	0.0524	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
N-Nitrosodi-n-propylamine	ND		0.200	0.0795	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
N-Nitrosodiphenylamine	ND		0.394	0.0503	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pentachloronitrobenzene	ND		0.394	0.0623	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pentachlorophenol	ND		0.394	0.161	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Phenanthrene	ND		0.0797	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Phenol	ND		0.394	0.0813	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pyrene	ND		0.0797	0.0440	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1
Pyridine	ND		0.394	0.0933	mg/Kg	☼	03/02/23 10:19	03/07/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
2-Fluorophenol (Surr)	*104*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
Nitrobenzene-d5 (Surr)	*93*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
Phenol-d5 (Surr)	*101*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*15 - 110*	*03/02/23 10:19*	*03/07/23 20:36*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/02/23 10:19*	*03/07/23 20:36*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.227	0.116	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.227	0.0973	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Ethylbenzene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Methyl tert-butyl ether	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
m,p-Xylene	ND		0.0909	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Naphthalene	ND		0.0455	0.0309	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
o-Xylene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
Toluene	ND		0.0455	0.00909	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
C5-C8 Aliphatics (unadjusted)	ND		0.227	0.116	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
C9-C10 Aromatics	ND		0.227	0.0318	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1
C9-C12 Aliphatics (unadjusted)	ND		0.227	0.0973	mg/Kg	☼	03/01/23 07:14	03/01/23 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:08*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:08*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0226	0.0163	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1221	ND		0.0226	0.00667	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1232	ND		0.0226	0.00625	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0226	0.00357	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1248	ND		0.0226	0.00705	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1254	ND		0.0226	0.0176	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1262	ND		0.0226	0.00526	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1260	ND		0.0226	0.00485	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1
PCB-1268	ND		0.0226	0.00481	mg/Kg	☼	02/28/23 15:09	03/03/23 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*02/28/23 15:09*	*03/03/23 01:56*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoroheptanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorononanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorodecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorotridecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorotetradecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorobutanesulfonic acid	ND		2.35	0.469	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorohexanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NEtFOSAA	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NMeFOSAA	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
10:2 FTS	ND		2.35	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoropentanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoroheptanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorononanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorodecanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctanesulfonamide	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorohexadecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorooctadecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorobutanoic acid	ND		2.35	0.939	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoropentanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NMeFOSE	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NMeFOSA	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NEtFOSE	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
NEtFOSA	ND		2.35	0.587	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
HFPODA	ND		2.35	1.17	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
DONA	ND		3.52	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
9Cl-PF3ONS	ND		2.35	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
11Cl-PF3OUdS	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluorododecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.35	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
Perfluoroundecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1

Client Sample ID: 2023-SB-01-0608' **Lab Sample ID: 620-10021-10**
Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.35	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.52	0.704	ug/Kg	☼	03/01/23 10:57	03/11/23 03:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*109*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
M2-8:2 FTS	*106*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
M2-6:2 FTS	*114*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C5 PFHxA	*128*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C4 PFHpA	*131*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C8 PFOA	*128*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C9 PFNA	*126*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C6 PFDA	*120*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C7 PFUnA	*124*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C2-PFDoDA	*119*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C2 PFTeDA	*118*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C3 PFBS	*118*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C3 PFHxS	*126*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C8 PFOS	*126*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d3-NMeFOSAA	*46*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d5-NEtFOSAA	*48*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C8 FOSA	*111*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C4 PFBA	*122*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C5 PFPeA	*119*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d7-N-MeFOSE-M	*114*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d3-NMePFOSA	*107*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d9-N-EtFOSE-M	*115*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
d5-NEtPFOSA	*111*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:46*	*1*
13C3 HFPO-DA	*122*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.04	1.71	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Arsenic	**2.17**	**J**	3.02	1.41	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Barium	**17.9**		0.504	0.151	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Beryllium	**0.414**	**J**	0.504	0.101	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Cadmium	ND		0.504	0.101	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Chromium	**5.28**	**B**	1.51	0.352	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Lead	**2.42**		1.51	0.604	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Nickel	**3.09**		1.01	0.262	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Selenium	ND		5.04	1.51	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Silver	ND	^3+	1.01	0.403	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Thallium	ND		3.02	1.31	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Vanadium	**8.35**		1.01	0.433	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1
Zinc	**13.7**		2.01	0.806	mg/Kg	☼	03/01/23 11:49	03/03/23 02:14	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0669	0.0223	mg/Kg	☼	03/02/23 08:18	03/02/23 14:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0608'
Date Collected: 02/27/23 12:15
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-10
Matrix: Solid
Percent Solids: 82.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.3		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	82.7		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00463	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Acetone	ND		0.0463	0.0104	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Acrylonitrile	ND		0.00463	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Benzene	ND		0.00463	0.00309	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromobenzene	ND		0.00463	0.00308	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromochloromethane	ND		0.00463	0.00263	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromodichloromethane	ND		0.00463	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromoform	ND		0.00463	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Bromomethane	ND		0.00925	0.00576	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2-Butanone (MEK)	ND		0.00925	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
n-Butylbenzene	ND		0.00925	0.00496	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
sec-Butylbenzene	ND		0.00463	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
tert-Butylbenzene	ND		0.00463	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Carbon disulfide	ND		0.00925	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Carbon tetrachloride	ND		0.00463	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chlorobenzene	ND		0.00463	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chloroethane	ND		0.00925	0.00339	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chloroform	ND		0.00463	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Chloromethane	ND	*-	0.00925	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2-Chlorotoluene	ND		0.00463	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
4-Chlorotoluene	ND		0.00463	0.00401	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00925	0.00392	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Dibromochloromethane	ND		0.00463	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dibromoethane (EDB)	ND		0.00463	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Dibromomethane	ND		0.00463	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dichlorobenzene	ND		0.00463	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3-Dichlorobenzene	ND		0.00463	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,4-Dichlorobenzene	ND		0.00463	0.00438	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00925	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1-Dichloroethane	ND		0.00463	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dichloroethane	ND		0.00463	0.00312	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1-Dichloroethene	ND		0.00463	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
cis-1,2-Dichloroethene	ND		0.00463	0.00267	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
trans-1,2-Dichloroethene	ND		0.00463	0.00288	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2-Dichloropropane	ND		0.00463	0.00306	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3-Dichloropropane	ND		0.00463	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2,2-Dichloropropane	ND		0.00463	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1-Dichloropropene	ND		0.00463	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
cis-1,3-Dichloropropene	ND		0.00463	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
trans-1,3-Dichloropropene	ND		0.00463	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethylbenzene	ND		0.00463	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Hexachlorobutadiene	ND		0.00925	0.00465	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
2-Hexanone (MBK)	ND		0.00925	0.00272	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Isopropylbenzene	ND		0.00463	0.00350	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
4-Isopropyltoluene	ND		0.00463	0.00454	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Methyl tert-butyl ether	ND		0.00463	0.00266	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.00925	0.00299	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Methylene Chloride	ND		0.00925	0.00248	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Naphthalene	ND		0.00463	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00463	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Styrene	ND		0.00463	0.00358	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,1,2-Tetrachloroethane	ND		0.00463	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.00463	0.00424	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Tetrachloroethene	ND		0.00463	0.00257	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Toluene	ND		0.00463	0.00293	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,3-Trichlorobenzene	ND		0.00463	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,4-Trichlorobenzene	ND		0.00463	0.00426	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3,5-Trichlorobenzene	ND		0.00463	0.00439	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,1-Trichloroethane	ND		0.00463	0.00315	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,1,2-Trichloroethane	ND		0.00463	0.00349	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Trichloroethene	ND		0.00463	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00463	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,3-Trichloropropane	ND		0.00463	0.00411	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,2,4-Trimethylbenzene	ND		0.00463	0.00391	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3,5-Trimethylbenzene	ND		0.00463	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Vinyl chloride	ND		0.00463	0.00282	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
m,p-Xylene	ND		0.00463	0.00632	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
o-Xylene	ND		0.00463	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Tetrahydrofuran	ND		0.00925	0.00234	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethyl ether	ND		0.00463	0.00243	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Tert-amyl methyl ether	ND		0.00463	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethyl tert-butyl ether	ND		0.00463	0.00304	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
di-Isopropyl ether	ND		0.00463	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
tert-Butanol	ND		0.0925	0.0248	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,4-Dioxane	ND		0.0925	0.0288	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
trans-1,4-Dichloro-2-butene	ND		0.0231	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Ethanol	ND		0.925	0.0574	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
1,3-Dichloropropene, Total	ND		0.00463	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1
Xylenes, Total	ND		0.0139	0.00463	mg/Kg	☼	02/28/23 11:02	02/28/23 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0669	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,2,4-Trichlorobenzene	ND		0.376	0.0861	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,2-Dichlorobenzene	ND		0.376	0.0724	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,3-Dichlorobenzene	ND		0.376	0.0910	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1,4-Dichlorobenzene	ND		0.376	0.0885	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
1-Methylnaphthalene	ND		0.0760	0.0638	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4,6-Trichlorophenol	ND		0.190	0.0465	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4-Dichlorophenol	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4-Dimethylphenol	ND		0.376	0.0551	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,4-Dinitrophenol	ND		0.376	0.0989	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0810'
Date Collected: 02/27/23 12:20
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-11
Matrix: Solid
Percent Solids: 85.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Chloronaphthalene	ND		0.376	0.0869	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Chlorophenol	ND		0.190	0.0778	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Methylnaphthalene	ND		0.0760	0.0561	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
2-Nitrophenol	ND		0.190	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
3,3'-Dichlorobenzidine	ND		0.376	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0675	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Chloro-3-methylphenol	ND		0.376	0.0736	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Nitroaniline	ND		0.190	0.0600	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Acenaphthene	ND		0.0760	0.0606	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Acenaphthylene	ND		0.0760	0.0499	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Acetophenone	ND		0.190	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Anthracene	ND		0.0760	0.0440	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0641	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzidine	ND	*- *1	0.752	0.111	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[a]anthracene	ND		0.0760	0.0427	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[a]pyrene	ND		0.0760	0.0543	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[b]fluoranthene	ND		0.0760	0.0630	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[g,h,i]perylene	ND		0.0760	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzo[k]fluoranthene	ND		0.0760	0.0591	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Benzyl alcohol	ND		0.376	0.0681	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0846	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Bis(2-ethylhexyl) phthalate	ND		0.190	0.0484	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Butyl benzyl phthalate	ND		0.376	0.0377	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Carbazole	ND		0.190	0.0498	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Chrysene	ND		0.0760	0.0429	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Dibenz(a,h)anthracene	ND		0.0760	0.0580	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Dibenzofuran	ND		0.190	0.0658	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Diethyl phthalate	ND		0.376	0.0412	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Di-n-octyl phthalate	ND		0.376	0.0621	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Fluoranthene	ND		0.0760	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Fluorene	ND		0.0760	0.0694	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Hexachlorobenzene	ND		0.190	0.0527	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Hexachlorobutadiene	ND		0.190	0.0949	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0727	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Hexachloroethane	ND		0.190	0.0747	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0760	0.0645	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Isophorone	ND		0.190	0.0520	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Naphthalene	ND		0.0760	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Nitrobenzene	ND		0.190	0.0878	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
N-Nitrosodiphenylamine	ND		0.376	0.0479	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pentachloronitrobenzene	ND		0.376	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Phenanthrene	ND		0.0760	0.0431	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Phenol	ND		0.376	0.0774	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pyrene	ND		0.0760	0.0419	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1
Pyridine	ND		0.376	0.0889	mg/Kg	☼	03/02/23 10:19	03/07/23 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
2-Fluorophenol (Surr)	*110*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
Phenol-d5 (Surr)	*91*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:04*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:04*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.253	0.129	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.253	0.108	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Ethylbenzene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Methyl tert-butyl ether	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
m,p-Xylene	ND		0.101	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Naphthalene	ND		0.0506	0.0344	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
o-Xylene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
Toluene	ND		0.0506	0.0101	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
C5-C8 Aliphatics (unadjusted)	ND		0.253	0.129	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
C9-C10 Aromatics	ND		0.253	0.0354	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1
C9-C12 Aliphatics (unadjusted)	ND		0.253	0.108	mg/Kg	☼	03/01/23 07:14	03/01/23 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:47*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 17:47*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0224	0.0161	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1221	ND		0.0224	0.00662	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1232	ND		0.0224	0.00620	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0224	0.00354	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1248	ND		0.0224	0.00700	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1254	ND		0.0224	0.0174	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1262	ND		0.0224	0.00522	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1260	ND		0.0224	0.00482	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1
PCB-1268	ND		0.0224	0.00477	mg/Kg	☼	02/28/23 15:12	03/03/23 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*
Tetrachloro-m-xylene	*63*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:13*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoroheptanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorononanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorodecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorotridecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorotetradecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorobutanesulfonic acid	ND		2.25	0.451	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorohexanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NEtFOSAA	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NMeFOSAA	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
10:2 FTS	ND		2.25	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoropentanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoroheptanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorononanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorodecanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctanesulfonamide	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorohexadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorooctadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorobutanoic acid	ND		2.25	0.901	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoropentanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NMeFOSE	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NMeFOSA	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NEtFOSE	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
NEtFOSA	ND		2.25	0.563	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
HFPODA	ND		2.25	1.13	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
DONA	ND		3.38	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
9Cl-PF3ONS	ND		2.25	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
11Cl-PF3OUdS	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluorododecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
Perfluoroundecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1

Client Sample ID: 2023-SB-01-0810' **Lab Sample ID: 620-10021-11**
Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.676	ug/Kg	☼	03/01/23 10:57	03/11/23 03:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
M2-8:2 FTS	*128*		*15 - 200*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
M2-6:2 FTS	*112*		*10 - 200*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C5 PFHxA	*130*		*10 - 174*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C4 PFHpA	*139*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C9 PFNA	*126*		*26 - 165*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C6 PFDA	*123*		*26 - 161*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C7 PFUnA	*121*		*12 - 173*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C2-PFDoDA	*122*		*11 - 166*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C2 PFTeDA	*112*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C3 PFBS	*121*		*27 - 179*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C3 PFHxS	*130*		*24 - 171*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d3-NMeFOSAA	*56*		*10 - 178*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d5-NEtFOSAA	*67*		*10 - 193*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C8 FOSA	*113*		*14 - 163*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C4 PFBA	*119*		*28 - 153*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C5 PFPeA	*115*		*24 - 161*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d7-N-MeFOSE-M	*111*		*10 - 179*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d3-NMePFOSA	*104*		*10 - 175*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d9-N-EtFOSE-M	*109*		*10 - 185*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
d5-NEtPFOSA	*106*		*10 - 180*	*03/01/23 10:57*	*03/11/23 03:57*	*1*
13C3 HFPO-DA	*114*		*10 - 169*	*03/01/23 10:57*	*03/11/23 03:57*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.07	1.38	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Arsenic	**2.21**	**J**	2.44	1.14	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Barium	**13.8**		0.407	0.122	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Beryllium	**0.288**	**J**	0.407	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Cadmium	ND		0.407	0.0813	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Chromium	**2.83**	**B**	1.22	0.285	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Lead	**1.91**		1.22	0.488	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Nickel	**1.67**		0.813	0.211	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Selenium	ND		4.07	1.22	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Silver	ND	^3+	0.813	0.325	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Thallium	ND		2.44	1.06	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Vanadium	**4.34**		0.813	0.350	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1
Zinc	**9.57**		1.63	0.651	mg/Kg	☼	03/01/23 11:49	03/03/23 02:11	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0680	0.0227	mg/Kg	☼	03/02/23 08:18	03/02/23 14:58	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-0810'
Date Collected: 02/27/23 12:20
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-11
Matrix: Solid
Percent Solids: 85.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.6		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.4		0.1	0.1	%			02/28/23 09:15	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00494	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Acetone	ND		0.0494	0.0111	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Acrylonitrile	ND		0.00494	0.00296	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Benzene	ND		0.00494	0.00330	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromobenzene	ND		0.00494	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromochloromethane	ND		0.00494	0.00281	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromodichloromethane	ND		0.00494	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromoform	ND		0.00494	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Bromomethane	ND		0.00988	0.00616	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2-Butanone (MEK)	ND		0.00988	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
n-Butylbenzene	ND		0.00988	0.00530	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
sec-Butylbenzene	ND		0.00494	0.00398	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
tert-Butylbenzene	ND		0.00494	0.00389	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Carbon disulfide	ND		0.00988	0.00347	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Carbon tetrachloride	ND		0.00494	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chlorobenzene	ND		0.00494	0.00362	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chloroethane	ND		0.00988	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chloroform	ND		0.00494	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Chloromethane	ND	*-	0.00988	0.00379	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2-Chlorotoluene	ND		0.00494	0.00393	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
4-Chlorotoluene	ND		0.00494	0.00429	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dibromo-3-Chloropropane	ND		0.00988	0.00419	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Dibromochloromethane	ND		0.00494	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dibromoethane (EDB)	ND		0.00494	0.00355	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Dibromomethane	ND		0.00494	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dichlorobenzene	ND		0.00494	0.00459	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3-Dichlorobenzene	ND		0.00494	0.00396	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,4-Dichlorobenzene	ND		0.00494	0.00468	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00988	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1-Dichloroethane	ND		0.00494	0.00335	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dichloroethane	ND		0.00494	0.00333	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1-Dichloroethene	ND		0.00494	0.00302	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
cis-1,2-Dichloroethene	ND		0.00494	0.00286	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
trans-1,2-Dichloroethene	ND		0.00494	0.00307	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2-Dichloropropane	ND		0.00494	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3-Dichloropropane	ND		0.00494	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2,2-Dichloropropane	ND		0.00494	0.00341	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1-Dichloropropene	ND		0.00494	0.00336	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
cis-1,3-Dichloropropene	ND		0.00494	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
trans-1,3-Dichloropropene	ND		0.00494	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethylbenzene	ND		0.00494	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Hexachlorobutadiene	ND		0.00988	0.00497	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
2-Hexanone (MBK)	ND		0.00988	0.00291	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Isopropylbenzene	ND		0.00494	0.00374	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
4-Isopropyltoluene	ND		0.00494	0.00485	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Methyl tert-butyl ether	ND		0.00494	0.00285	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
4-Methyl-2-pentanone (MIBK)	ND		0.00988	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Methylene Chloride	ND		0.00988	0.00265	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Naphthalene	ND		0.00494	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00494	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Styrene	ND		0.00494	0.00382	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,1,2-Tetrachloroethane	ND		0.00494	0.00371	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,2,2-Tetrachloroethane	ND		0.00494	0.00453	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Tetrachloroethene	ND		0.00494	0.00275	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Toluene	ND		0.00494	0.00313	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,3-Trichlorobenzene	ND		0.00494	0.00417	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,4-Trichlorobenzene	ND		0.00494	0.00456	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3,5-Trichlorobenzene	ND		0.00494	0.00469	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,1-Trichloroethane	ND		0.00494	0.00337	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,1,2-Trichloroethane	ND		0.00494	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Trichloroethene	ND		0.00494	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Trichlorofluoromethane (Freon 11)	ND		0.00494	0.00377	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,3-Trichloropropane	ND		0.00494	0.00439	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,2,4-Trimethylbenzene	ND		0.00494	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3,5-Trimethylbenzene	ND		0.00494	0.00420	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Vinyl chloride	ND		0.00494	0.00301	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
m,p-Xylene	ND		0.00494	0.00675	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
o-Xylene	ND		0.00494	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Tetrahydrofuran	ND		0.00988	0.00250	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethyl ether	ND		0.00494	0.00260	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Tert-amyl methyl ether	ND		0.00494	0.00390	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethyl tert-butyl ether	ND		0.00494	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
di-Isopropyl ether	ND		0.00494	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
tert-Butanol	ND		0.0988	0.0265	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,4-Dioxane	ND		0.0988	0.0307	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00365	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Ethanol	ND		0.988	0.0613	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
1,3-Dichloropropene, Total	ND		0.00494	0.00376	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1
Xylenes, Total	ND		0.0148	0.00494	mg/Kg	☼	02/28/23 11:02	02/28/23 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:31*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.406	0.0722	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,2,4-Trichlorobenzene	ND		0.406	0.0929	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,2-Dichlorobenzene	ND		0.406	0.0782	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,3-Dichlorobenzene	ND		0.406	0.0982	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1,4-Dichlorobenzene	ND		0.406	0.0955	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
1-Methylnaphthalene	ND		0.0820	0.0689	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4,5-Trichlorophenol	ND		0.406	0.0465	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4,6-Trichlorophenol	ND		0.205	0.0502	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4-Dichlorophenol	ND		0.205	0.0818	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4-Dimethylphenol	ND		0.406	0.0595	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,4-Dinitrophenol	ND		0.406	0.107	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-1012'
Date Collected: 02/27/23 12:25
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-12
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.205	0.0481	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2,6-Dinitrotoluene	ND		0.205	0.0481	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Chloronaphthalene	ND		0.406	0.0938	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Chlorophenol	ND		0.205	0.0840	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Methylnaphthalene	ND		0.0820	0.0606	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Methylphenol	ND		0.406	0.0593	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Nitroaniline	ND		0.406	0.0386	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
2-Nitrophenol	ND		0.205	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
3 & 4 Methylphenol	ND		0.406	0.0768	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
3,3'-Dichlorobenzidine	ND		0.406	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
3-Nitroaniline	ND		0.406	0.0363	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4,6-Dinitro-2-methylphenol	ND		0.406	0.0729	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Bromophenyl phenyl ether	ND		0.406	0.0459	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Chloro-3-methylphenol	ND		0.406	0.0794	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Chloroaniline	ND		0.205	0.0311	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Chlorophenyl phenyl ether	ND		0.406	0.0434	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Nitroaniline	ND		0.205	0.0648	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
4-Nitrophenol	ND		0.406	0.141	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Acenaphthene	ND		0.0820	0.0654	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Acenaphthylene	ND		0.0820	0.0539	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Acetophenone	ND		0.205	0.0500	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Aniline	ND		0.406	0.0311	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Anthracene	ND		0.0820	0.0475	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Azobenzene/Diphenyldiazene	ND		0.406	0.0692	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzidine	ND	*- *1	0.811	0.120	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[a]anthracene	ND		0.0820	0.0461	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[a]pyrene	ND		0.0820	0.0586	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[b]fluoranthene	ND		0.0820	0.0680	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[g,h,i]perylene	ND		0.0820	0.0641	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzo[k]fluoranthene	ND		0.0820	0.0638	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzoic acid	ND		0.406	0.279	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Benzyl alcohol	ND		0.406	0.0735	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Bis(2-chloroethoxy)methane	ND		0.406	0.0706	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Bis(2-chloroethyl)ether	ND		0.205	0.0671	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
bis (2-chloroisopropyl) ether	ND		0.205	0.0913	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Bis(2-ethylhexyl) phthalate	ND		0.205	0.0523	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Butyl benzyl phthalate	ND		0.406	0.0407	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Carbazole	ND		0.205	0.0537	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Chrysene	ND		0.0820	0.0464	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Dibenz(a,h)anthracene	ND		0.0820	0.0626	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Dibenzofuran	ND		0.205	0.0711	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Diethyl phthalate	ND		0.406	0.0445	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Dimethyl phthalate	ND		0.406	0.0529	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Di-n-butyl phthalate	ND		0.406	0.0434	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Di-n-octyl phthalate	ND		0.406	0.0670	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Fluoranthene	ND		0.0820	0.0481	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Fluorene	ND		0.0820	0.0749	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Hexachlorobenzene	ND		0.205	0.0569	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Hexachlorobutadiene	ND		0.205	0.102	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.205	0.0784	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Hexachloroethane	ND		0.205	0.0807	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Indeno[1,2,3-cd]pyrene	ND		0.0820	0.0696	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Isophorone	ND		0.205	0.0562	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Naphthalene	ND		0.0820	0.0787	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Nitrobenzene	ND		0.205	0.0948	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
N-Nitrosodimethylamine	ND		0.205	0.0539	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
N-Nitrosodi-n-propylamine	ND		0.205	0.0818	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
N-Nitrosodiphenylamine	ND		0.406	0.0518	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pentachloronitrobenzene	ND		0.406	0.0641	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pentachlorophenol	ND		0.406	0.166	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Phenanthrene	ND		0.0820	0.0465	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Phenol	ND		0.406	0.0836	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pyrene	ND		0.0820	0.0452	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1
Pyridine	ND		0.406	0.0960	mg/Kg	☼	03/02/23 10:19	03/07/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
2-Fluorophenol (Surr)	*95*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
Phenol-d5 (Surr)	*79*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*	*03/02/23 10:19*	*03/07/23 21:32*	*1*
Terphenyl-d14	*90*		*30 - 130*	*03/02/23 10:19*	*03/07/23 21:32*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.249	0.128	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.249	0.107	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Ethylbenzene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Methyl tert-butyl ether	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
m,p-Xylene	ND		0.0996	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Naphthalene	ND		0.0498	0.0339	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
o-Xylene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
Toluene	ND		0.0498	0.00996	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
C5-C8 Aliphatics (unadjusted)	ND		0.249	0.128	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
C9-C10 Aromatics	ND		0.249	0.0349	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1
C9-C12 Aliphatics (unadjusted)	ND		0.249	0.107	mg/Kg	☼	03/01/23 07:14	03/01/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 18:26*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 18:26*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0238	0.0172	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1221	ND		0.0238	0.00705	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1232	ND		0.0238	0.00661	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0238	0.00377	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1248	ND		0.0238	0.00745	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1254	ND		0.0238	0.0186	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1262	ND		0.0238	0.00556	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1260	ND		0.0238	0.00513	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1
PCB-1268	ND		0.0238	0.00508	mg/Kg	☼	02/28/23 15:12	03/03/23 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*
Tetrachloro-m-xylene	*83*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:30*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoroheptanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorononanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorodecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorotridecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorotetradecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorobutanesulfonic acid	ND		2.48	0.495	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorohexanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NEtFOSAA	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NMeFOSAA	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
10:2 FTS	ND		2.48	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoropentanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoroheptanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorononanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorodecanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctanesulfonamide	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorohexadecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorooctadecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorobutanoic acid	ND		2.48	0.990	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoropentanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NMeFOSE	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NMeFOSA	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NEtFOSE	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
NEtFOSA	ND		2.48	0.619	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
HFPODA	ND		2.48	1.24	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
DONA	ND		3.71	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
9Cl-PF3ONS	ND		2.48	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
11Cl-PF3OUdS	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluorododecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
4:2 Fluorotelomer sulfonic acid	ND		2.48	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
Perfluoroundecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1

Client Sample ID: 2023-SB-01-1012' **Lab Sample ID: 620-10021-12**
Date Collected: 02/27/23 12:25 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.48	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1
8:2 Fluorotelomer sulfonic acid	ND		3.71	0.743	ug/Kg	☼	03/01/23 10:57	03/11/23 04:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*122*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
M2-8:2 FTS	*138*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
M2-6:2 FTS	*131*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C5 PFHxA	*138*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C4 PFHpA	*143*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C8 PFOA	*134*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C9 PFNA	*130*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C6 PFDA	*128*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C7 PFUnA	*134*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C2-PFDoDA	*133*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C2 PFTeDA	*123*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C3 PFBS	*126*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C3 PFHxS	*137*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C8 PFOS	*123*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d3-NMeFOSAA	*105*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d5-NEtFOSAA	*105*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C8 FOSA	*115*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C4 PFBA	*130*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C5 PFPeA	*128*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d7-N-MeFOSE-M	*118*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d3-NMePFOSA	*112*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d9-N-EtFOSE-M	*114*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
d5-NEtPFOSA	*115*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:08*	*1*
13C3 HFPO-DA	*143*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:08*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.33	1.47	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Arsenic	**1.30**	**J**	2.60	1.21	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Barium	**15.1**		0.433	0.130	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Beryllium	**0.317**	**J**	0.433	0.0865	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Cadmium	ND		0.433	0.0865	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Chromium	**5.82**	**B**	1.30	0.303	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Lead	**2.04**		1.30	0.519	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Nickel	**2.50**		0.865	0.225	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Selenium	ND		4.33	1.30	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Silver	ND	^3+	0.865	0.346	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Thallium	ND		2.60	1.13	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Vanadium	**5.78**		0.865	0.372	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1
Zinc	**9.93**		1.73	0.692	mg/Kg	☼	03/01/23 11:49	03/03/23 02:01	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0685	0.0228	mg/Kg	☼	03/02/23 08:18	03/02/23 15:04	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-SB-01-1012'
Date Collected: 02/27/23 12:25
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-12
Matrix: Solid
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	80.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00482	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Acetone	ND		0.0482	0.0108	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Acrylonitrile	ND		0.00482	0.00289	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Benzene	ND		0.00482	0.00322	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromobenzene	ND		0.00482	0.00321	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromochloromethane	ND		0.00482	0.00274	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromodichloromethane	ND		0.00482	0.00354	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromoform	ND		0.00482	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Bromomethane	ND		0.00963	0.00600	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2-Butanone (MEK)	ND		0.00963	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
n-Butylbenzene	ND		0.00963	0.00516	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
sec-Butylbenzene	ND		0.00482	0.00388	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
tert-Butylbenzene	ND		0.00482	0.00380	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Carbon disulfide	ND		0.00963	0.00338	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Carbon tetrachloride	ND		0.00482	0.00303	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chlorobenzene	ND		0.00482	0.00353	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chloroethane	ND		0.00963	0.00354	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chloroform	ND		0.00482	0.00324	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Chloromethane	ND	*-	0.00963	0.00370	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2-Chlorotoluene	ND		0.00482	0.00383	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
4-Chlorotoluene	ND		0.00482	0.00418	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dibromo-3-Chloropropane	ND		0.00963	0.00409	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Dibromochloromethane	ND		0.00482	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dibromoethane (EDB)	ND		0.00482	0.00346	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Dibromomethane	ND		0.00482	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dichlorobenzene	ND		0.00482	0.00447	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3-Dichlorobenzene	ND		0.00482	0.00386	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,4-Dichlorobenzene	ND		0.00482	0.00457	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00963	0.00258	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1-Dichloroethane	ND		0.00482	0.00327	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dichloroethane	ND		0.00482	0.00325	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1-Dichloroethene	ND		0.00482	0.00295	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
cis-1,2-Dichloroethene	ND		0.00482	0.00278	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
trans-1,2-Dichloroethene	ND		0.00482	0.00300	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2-Dichloropropane	ND		0.00482	0.00319	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3-Dichloropropane	ND		0.00482	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2,2-Dichloropropane	ND		0.00482	0.00332	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1-Dichloropropene	ND		0.00482	0.00328	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
cis-1,3-Dichloropropene	ND		0.00482	0.00314	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
trans-1,3-Dichloropropene	ND		0.00482	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethylbenzene	ND		0.00482	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Hexachlorobutadiene	ND		0.00963	0.00485	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
2-Hexanone (MBK)	ND		0.00963	0.00283	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Isopropylbenzene	ND		0.00482	0.00364	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
4-Isopropyltoluene	ND		0.00482	0.00473	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Methyl tert-butyl ether	ND		0.00482	0.00277	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.00963	0.00311	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Methylene Chloride	ND		0.00963	0.00258	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Naphthalene	ND		0.00482	0.00435	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10021-13**
Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00482	0.00408	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Styrene	ND		0.00482	0.00373	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,1,2-Tetrachloroethane	ND		0.00482	0.00361	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,2,2-Tetrachloroethane	ND		0.00482	0.00441	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Tetrachloroethene	ND		0.00482	0.00268	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Toluene	ND		0.00482	0.00305	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,3-Trichlorobenzene	ND		0.00482	0.00407	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,4-Trichlorobenzene	ND		0.00482	0.00444	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3,5-Trichlorobenzene	ND		0.00482	0.00458	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,1-Trichloroethane	ND		0.00482	0.00329	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,1,2-Trichloroethane	ND		0.00482	0.00363	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Trichloroethene	ND		0.00482	0.00324	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Trichlorofluoromethane (Freon 11)	ND		0.00482	0.00368	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,3-Trichloropropane	ND		0.00482	0.00428	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,2,4-Trimethylbenzene	ND		0.00482	0.00408	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3,5-Trimethylbenzene	ND		0.00482	0.00409	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Vinyl chloride	ND		0.00482	0.00294	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
m,p-Xylene	ND		0.00482	0.00658	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
o-Xylene	ND		0.00482	0.00352	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Tetrahydrofuran	ND		0.00963	0.00244	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethyl ether	ND		0.00482	0.00253	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Tert-amyl methyl ether	ND		0.00482	0.00381	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethyl tert-butyl ether	ND		0.00482	0.00317	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
di-Isopropyl ether	ND		0.00482	0.00344	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
tert-Butanol	ND		0.0963	0.0258	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,4-Dioxane	ND		0.0963	0.0300	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
trans-1,4-Dichloro-2-butene	ND		0.0241	0.00356	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Ethanol	ND		0.963	0.0597	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
1,3-Dichloropropene, Total	ND		0.00482	0.00366	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1
Xylenes, Total	ND		0.0145	0.00482	mg/Kg	☼	02/28/23 11:02	02/28/23 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*02/28/23 11:02*	*02/28/23 23:57*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0668	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,2,4-Trichlorobenzene	ND		0.376	0.0861	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,2-Dichlorobenzene	ND		0.376	0.0724	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,3-Dichlorobenzene	ND		0.376	0.0910	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1,4-Dichlorobenzene	ND		0.376	0.0885	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
1-Methylnaphthalene	ND		0.0759	0.0638	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4,5-Trichlorophenol	ND		0.376	0.0430	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4,6-Trichlorophenol	ND		0.190	0.0464	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4-Dichlorophenol	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4-Dimethylphenol	ND		0.376	0.0551	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,4-Dinitrophenol	ND		0.376	0.0988	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Chloronaphthalene	ND		0.376	0.0869	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Chlorophenol	ND		0.190	0.0778	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Methylnaphthalene	ND		0.0759	0.0561	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Nitroaniline	ND		0.376	0.0357	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
2-Nitrophenol	ND		0.190	0.0675	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
3,3'-Dichlorobenzidine	ND		0.376	0.0620	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0675	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Chloro-3-methylphenol	ND		0.376	0.0735	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Nitroaniline	ND		0.190	0.0600	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Acenaphthene	ND		0.0759	0.0606	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Acenaphthylene	ND		0.0759	0.0499	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Acetophenone	ND		0.190	0.0463	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Anthracene	ND		0.0759	0.0439	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0641	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzidine	ND	*- *1	0.751	0.111	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[a]anthracene	ND		0.0759	0.0427	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[a]pyrene	ND		0.0759	0.0543	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[b]fluoranthene	ND		0.0759	0.0630	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[g,h,i]perylene	ND		0.0759	0.0593	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzo[k]fluoranthene	ND		0.0759	0.0591	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzoic acid	ND		0.376	0.258	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Benzyl alcohol	ND		0.376	0.0681	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0653	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0846	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Bis(2-ethylhexyl) phthalate	**0.536**		0.190	0.0484	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Butyl benzyl phthalate	**0.0477**	**J**	0.376	0.0377	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Carbazole	ND		0.190	0.0497	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Chrysene	ND		0.0759	0.0429	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Dibenz(a,h)anthracene	ND		0.0759	0.0579	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Dibenzofuran	ND		0.190	0.0658	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Diethyl phthalate	ND		0.376	0.0412	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Di-n-octyl phthalate	ND		0.376	0.0620	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Fluoranthene	ND		0.0759	0.0445	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Fluorene	ND		0.0759	0.0693	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Hexachlorobenzene	ND		0.190	0.0527	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Hexachlorobutadiene	ND		0.190	0.0948	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0726	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Hexachloroethane	ND		0.190	0.0747	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0759	0.0644	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Isophorone	ND		0.190	0.0520	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Naphthalene	ND		0.0759	0.0729	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Nitrobenzene	ND		0.190	0.0878	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0757	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
N-Nitrosodiphenylamine	ND		0.376	0.0479	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pentachloronitrobenzene	ND		0.376	0.0593	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Phenanthrene	ND		0.0759	0.0430	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Phenol	ND		0.376	0.0774	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pyrene	ND		0.0759	0.0419	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1
Pyridine	ND		0.376	0.0889	mg/Kg	☼	03/02/23 10:19	03/08/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
2-Fluorophenol (Surr)	*99*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
Phenol-d5 (Surr)	*89*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
2,4,6-Tribromophenol (Surr)	*108*		*15 - 110*	*03/02/23 10:19*	*03/08/23 18:46*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/02/23 10:19*	*03/08/23 18:46*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.254	0.130	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.254	0.109	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Ethylbenzene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Methyl tert-butyl ether	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Naphthalene	ND		0.0509	0.0346	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
o-Xylene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
Toluene	ND		0.0509	0.0102	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
C5-C8 Aliphatics (unadjusted)	ND		0.254	0.130	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
C9-C10 Aromatics	ND		0.254	0.0356	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1
C9-C12 Aliphatics (unadjusted)	ND		0.254	0.109	mg/Kg	☼	03/01/23 07:14	03/01/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:06*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:06*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1232	ND		0.0230	0.00638	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10021-13**
Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1254	**0.432**		0.0230	0.0179	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	02/28/23 15:12	03/03/23 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*	*02/28/23 15:12*	*03/03/23 02:47*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoroheptanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorononanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorodecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorotridecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorotetradecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorobutanesulfonic acid	ND		2.26	0.451	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorohexanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NEtFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NMeFOSAA	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
10:2 FTS	ND		2.26	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoropentanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoroheptanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorononanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorodecanesulfonic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctanesulfonamide	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorohexadecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorooctadecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorobutanoic acid	ND		2.26	0.902	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoropentanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NMeFOSE	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NMeFOSA	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NEtFOSE	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
NEtFOSA	ND		2.26	0.564	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
HFPODA	ND		2.26	1.13	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
DONA	ND		3.38	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
9Cl-PF3ONS	ND		2.26	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
11Cl-PF3OUdS	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluorododecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
4:2 Fluorotelomer sulfonic acid	ND		2.26	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
Perfluoroundecanoic acid	ND		0.677	0.226	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10021-13**
Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.26	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.677	ug/Kg	☼	03/01/23 10:57	03/11/23 04:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*67*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
M2-8:2 FTS	*76*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
M2-6:2 FTS	*84*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C5 PFHxA	*78*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C4 PFHpA	*86*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C8 PFOA	*81*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C9 PFNA	*79*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C6 PFDA	*76*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C7 PFUnA	*83*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C2-PFDoDA	*98*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C2 PFTeDA	*108*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C3 PFBS	*78*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C3 PFHxS	*86*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C8 PFOS	*82*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d3-NMeFOSAA	*41*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d5-NEtFOSAA	*45*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C8 FOSA	*67*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C4 PFBA	*67*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C5 PFPeA	*67*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d7-N-MeFOSE-M	*63*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d3-NMePFOSA	*22*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d9-N-EtFOSE-M	*64*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
d5-NEtPFOSA	*22*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:19*	*1*
13C3 HFPO-DA	*63*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:19*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.01	1.70	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Arsenic	**2.14**	**J**	3.01	1.40	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Barium	**13.8**		0.501	0.150	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Beryllium	**0.368**	**J**	0.501	0.100	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Cadmium	ND		0.501	0.100	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Chromium	**3.83**	**B**	1.50	0.351	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Lead	**4.04**		1.50	0.602	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Nickel	**2.19**		1.00	0.261	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Selenium	ND		5.01	1.50	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Silver	ND	^3+	1.00	0.401	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Thallium	ND		3.01	1.30	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Vanadium	**5.52**		1.00	0.431	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1
Zinc	**10.8**		2.01	0.802	mg/Kg	☼	03/01/23 11:49	03/03/23 02:04	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0692	0.0231	mg/Kg	☼	03/02/23 08:18	03/02/23 15:02	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-FD-01
Date Collected: 02/27/23 08:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-13
Matrix: Solid
Percent Solids: 85.3

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.7		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	85.3		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0002'
Date Collected: 02/27/23 13:30
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-14
Matrix: Solid
Percent Solids: 92.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00489	0.00319	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Acetone	ND		0.0489	0.0110	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Acrylonitrile	ND		0.00489	0.00294	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Benzene	ND		0.00489	0.00327	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromobenzene	ND		0.00489	0.00326	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromochloromethane	ND		0.00489	0.00278	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromodichloromethane	ND		0.00489	0.00359	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromoform	ND		0.00489	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Bromomethane	ND		0.00978	0.00610	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2-Butanone (MEK)	ND		0.00978	0.00389	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
n-Butylbenzene	ND		0.00978	0.00524	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
sec-Butylbenzene	ND		0.00489	0.00394	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
tert-Butylbenzene	ND		0.00489	0.00385	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Carbon disulfide	ND		0.00978	0.00343	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Carbon tetrachloride	ND		0.00489	0.00308	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chlorobenzene	ND		0.00489	0.00358	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chloroethane	ND		0.00978	0.00359	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chloroform	ND		0.00489	0.00329	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Chloromethane	ND		0.00978	0.00376	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2-Chlorotoluene	ND		0.00489	0.00389	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
4-Chlorotoluene	ND		0.00489	0.00425	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dibromo-3-Chloropropane	ND		0.00978	0.00415	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Dibromochloromethane	ND		0.00489	0.00324	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dibromoethane (EDB)	ND		0.00489	0.00351	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Dibromomethane	ND		0.00489	0.00288	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dichlorobenzene	ND		0.00489	0.00454	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3-Dichlorobenzene	ND		0.00489	0.00392	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,4-Dichlorobenzene	ND		0.00489	0.00464	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00978	0.00262	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1-Dichloroethane	ND		0.00489	0.00332	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dichloroethane	ND		0.00489	0.00330	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1-Dichloroethene	ND		0.00489	0.00299	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
cis-1,2-Dichloroethene	ND		0.00489	0.00283	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
trans-1,2-Dichloroethene	ND		0.00489	0.00304	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2-Dichloropropane	ND		0.00489	0.00324	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3-Dichloropropane	ND		0.00489	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2,2-Dichloropropane	ND		0.00489	0.00338	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1-Dichloropropene	ND		0.00489	0.00333	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
cis-1,3-Dichloropropene	ND		0.00489	0.00319	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
trans-1,3-Dichloropropene	ND		0.00489	0.00372	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethylbenzene	ND		0.00489	0.00349	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Hexachlorobutadiene	ND		0.00978	0.00492	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
2-Hexanone (MBK)	ND		0.00978	0.00288	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Isopropylbenzene	ND		0.00489	0.00370	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
4-Isopropyltoluene	ND		0.00489	0.00480	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Methyl tert-butyl ether	ND		0.00489	0.00282	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.00978	0.00316	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Methylene Chloride	ND		0.00978	0.00262	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Naphthalene	ND		0.00489	0.00442	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00489	0.00414	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Styrene	ND		0.00489	0.00379	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,1,2-Tetrachloroethane	ND		0.00489	0.00367	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,2,2-Tetrachloroethane	ND		0.00489	0.00448	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Tetrachloroethene	ND		0.00489	0.00272	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Toluene	ND		0.00489	0.00310	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,3-Trichlorobenzene	ND		0.00489	0.00413	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,4-Trichlorobenzene	ND		0.00489	0.00451	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3,5-Trichlorobenzene	ND		0.00489	0.00465	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,1-Trichloroethane	ND		0.00489	0.00334	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,1,2-Trichloroethane	ND		0.00489	0.00369	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Trichloroethene	ND		0.00489	0.00329	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Trichlorofluoromethane (Freon 11)	ND		0.00489	0.00374	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,3-Trichloropropane	ND		0.00489	0.00434	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,2,4-Trimethylbenzene	ND		0.00489	0.00414	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3,5-Trimethylbenzene	ND		0.00489	0.00416	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Vinyl chloride	ND		0.00489	0.00298	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
m,p-Xylene	ND		0.00489	0.00668	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
o-Xylene	ND		0.00489	0.00357	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Tetrahydrofuran	ND		0.00978	0.00248	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethyl ether	ND		0.00489	0.00257	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Tert-amyl methyl ether	ND		0.00489	0.00386	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethyl tert-butyl ether	ND		0.00489	0.00322	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
di-Isopropyl ether	ND		0.00489	0.00349	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
tert-Butanol	ND		0.0978	0.0262	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,4-Dioxane	ND		0.0978	0.0304	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
trans-1,4-Dichloro-2-butene	ND		0.0245	0.00361	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Ethanol	ND		0.978	0.0607	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
1,3-Dichloropropene, Total	ND		0.00489	0.00372	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1
Xylenes, Total	ND		0.0147	0.00489	mg/Kg	☼	03/02/23 17:46	03/02/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/02/23 17:46*	*03/02/23 23:20*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		1.76	0.312	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,2,4-Trichlorobenzene	ND		1.76	0.402	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,2-Dichlorobenzene	ND		1.76	0.338	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,3-Dichlorobenzene	ND		1.76	0.425	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1,4-Dichlorobenzene	ND		1.76	0.413	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
1-Methylnaphthalene	ND		0.355	0.298	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4,5-Trichlorophenol	ND		1.76	0.201	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4,6-Trichlorophenol	ND		0.889	0.217	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4-Dichlorophenol	ND		0.889	0.354	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4-Dimethylphenol	ND		1.76	0.258	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,4-Dinitrophenol	ND		1.76	0.462	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0002'
Lab Sample ID: 620-10021-14
Date Collected: 02/27/23 13:30
Matrix: Solid
Date Received: 02/27/23 16:50
Percent Solids: 92.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.889	0.208	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2,6-Dinitrotoluene	ND		0.889	0.208	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Chloronaphthalene	ND		1.76	0.406	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Chlorophenol	ND		0.889	0.363	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Methylnaphthalene	ND		0.355	0.262	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Methylphenol	ND		1.76	0.256	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Nitroaniline	ND		1.76	0.167	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
2-Nitrophenol	ND		0.889	0.316	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
3 & 4 Methylphenol	ND		1.76	0.333	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
3,3'-Dichlorobenzidine	ND		1.76	0.290	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
3-Nitroaniline	ND		1.76	0.157	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4,6-Dinitro-2-methylphenol	ND		1.76	0.316	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Bromophenyl phenyl ether	ND		1.76	0.198	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Chloro-3-methylphenol	ND		1.76	0.344	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Chloroaniline	ND		0.889	0.135	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Chlorophenyl phenyl ether	ND		1.76	0.188	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Nitroaniline	ND		0.889	0.280	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
4-Nitrophenol	ND		1.76	0.612	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Acenaphthene	ND		0.355	0.283	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Acenaphthylene	**1.34**		0.355	0.233	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Acetophenone	ND		0.889	0.217	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Aniline	ND		1.76	0.135	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Anthracene	**0.656**		0.355	0.205	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Azobenzene/Diphenyldiazene	ND		1.76	0.300	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzidine	ND	*- *1	3.51	0.520	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[a]anthracene	**1.21**		0.355	0.200	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[a]pyrene	**2.09**		0.355	0.254	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[b]fluoranthene	**1.05**		0.355	0.294	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[g,h,i]perylene	**1.77**		0.355	0.277	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzo[k]fluoranthene	**1.12**		0.355	0.276	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzoic acid	ND		1.76	1.21	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Benzyl alcohol	ND		1.76	0.318	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Bis(2-chloroethoxy)methane	ND		1.76	0.305	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Bis(2-chloroethyl)ether	ND		0.889	0.291	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
bis (2-chloroisopropyl) ether	ND		0.889	0.395	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Bis(2-ethylhexyl) phthalate	ND		0.889	0.226	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Butyl benzyl phthalate	ND		1.76	0.176	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Carbazole	ND		0.889	0.233	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Chrysene	**1.51**		0.355	0.201	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Dibenz(a,h)anthracene	**0.525**		0.355	0.271	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Dibenzofuran	ND		0.889	0.308	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Diethyl phthalate	ND		1.76	0.193	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Dimethyl phthalate	ND		1.76	0.229	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Di-n-butyl phthalate	**0.770**	**J**	1.76	0.188	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Di-n-octyl phthalate	ND		1.76	0.290	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Fluoranthene	**1.00**		0.355	0.208	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Fluorene	ND		0.355	0.324	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Hexachlorobenzene	ND		0.889	0.246	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Hexachlorobutadiene	ND		0.889	0.443	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.889	0.339	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Hexachloroethane	ND		0.889	0.349	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Indeno[1,2,3-cd]pyrene	**1.08**		0.355	0.301	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Isophorone	ND		0.889	0.243	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Naphthalene	ND		0.355	0.341	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Nitrobenzene	ND		0.889	0.410	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
N-Nitrosodimethylamine	ND		0.889	0.233	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
N-Nitrosodi-n-propylamine	ND		0.889	0.354	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
N-Nitrosodiphenylamine	ND		1.76	0.224	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pentachloronitrobenzene	ND		1.76	0.277	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pentachlorophenol	ND		1.76	0.718	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Phenanthrene	**0.620**		0.355	0.201	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Phenol	ND		1.76	0.362	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pyrene	**2.50**		0.355	0.196	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1
Pyridine	ND		1.76	0.416	mg/Kg	☼	03/02/23 10:19	03/08/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*103*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
2-Fluorophenol (Surr)	*96*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
2,4,6-Tribromophenol (Surr)	*128*	*S1+*	*15 - 110*	*03/02/23 10:19*	*03/08/23 19:14*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.288	0.147	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.288	0.123	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Ethylbenzene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Methyl tert-butyl ether	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
m,p-Xylene	ND		0.115	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Naphthalene	ND		0.0575	0.0391	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
o-Xylene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
Toluene	ND		0.0575	0.0115	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
C5-C8 Aliphatics (unadjusted)	ND		0.288	0.147	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
C9-C10 Aromatics	ND		0.288	0.0403	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1
C9-C12 Aliphatics (unadjusted)	ND		0.288	0.123	mg/Kg	☼	03/01/23 07:14	03/01/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:45*	*1*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/01/23 07:14*	*03/01/23 19:45*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0423	0.0305	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1221	ND		0.0423	0.0125	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1232	ND		0.0423	0.0117	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0423	0.00669	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1248	ND		0.0423	0.0132	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1254	**0.967**		0.0423	0.0329	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1262	ND		0.0423	0.00986	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1260	ND		0.0423	0.00910	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2
PCB-1268	ND		0.0423	0.00901	mg/Kg	☼	02/28/23 15:12	03/03/23 03:05	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*
Tetrachloro-m-xylene	*60*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:05*	*2*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoroheptanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorononanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorodecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorotridecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorotetradecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorobutanesulfonic acid	ND		2.13	0.427	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorohexanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NEtFOSAA	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NMeFOSAA	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
10:2 FTS	ND		2.13	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoropentanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoroheptanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorononanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorodecanesulfonic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctanesulfonamide	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorohexadecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorooctadecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorobutanoic acid	ND		2.13	0.854	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoropentanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NMeFOSE	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NMeFOSA	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NEtFOSE	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
NEtFOSA	ND		2.13	0.534	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
HFPODA	ND		2.13	1.07	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
DONA	ND		3.20	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
9Cl-PF3ONS	ND		2.13	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
11Cl-PF3OUdS	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluorododecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.13	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
Perfluoroundecanoic acid	ND		0.640	0.213	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1

Client Sample ID: 2023-MW-01-0002' **Lab Sample ID: 620-10021-14**
Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.13	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.20	0.640	ug/Kg	☼	03/01/23 10:57	03/11/23 04:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*115*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
M2-8:2 FTS	*150*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C5 PFHxA	*125*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C4 PFHpA	*128*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C8 PFOA	*122*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C9 PFNA	*134*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C6 PFDA	*122*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C7 PFUnA	*128*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C2-PFDoDA	*126*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C2 PFTeDA	*130*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C3 PFBS	*120*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C3 PFHxS	*123*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C8 PFOS	*130*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d3-NMeFOSAA	*68*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d5-NEtFOSAA	*84*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C8 FOSA	*69*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C4 PFBA	*121*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C5 PFPeA	*120*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d7-N-MeFOSE-M	*61*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d3-NMePFOSA	*22*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d9-N-EtFOSE-M	*72*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
d5-NEtPFOSA	*26*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:30*	*1*
13C3 HFPO-DA	*117*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:30*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.49	1.53	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Arsenic	**4.30**		2.70	1.26	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Barium	**65.2**		0.449	0.135	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Beryllium	**0.627**		0.449	0.0898	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Cadmium	**0.152**	**J**	0.449	0.0898	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Chromium	**6.79**	**B**	1.35	0.314	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Lead	**29.1**		1.35	0.539	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Nickel	**3.81**		0.898	0.234	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Selenium	ND		4.49	1.35	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Silver	ND	^3+	0.898	0.359	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Thallium	ND		2.70	1.17	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Vanadium	**11.6**		0.898	0.386	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1
Zinc	**54.8**		1.80	0.719	mg/Kg	☼	03/01/23 11:49	03/03/23 02:07	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0732**		0.0597	0.0199	mg/Kg	☼	03/02/23 08:18	03/02/23 15:00	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0002'
Date Collected: 02/27/23 13:30
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-14
Matrix: Solid
Percent Solids: 92.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.2		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	92.8		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0204'
Date Collected: 02/27/23 13:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-15
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00530	0.00346	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Acetone	ND		0.0530	0.0119	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Acrylonitrile	ND		0.00530	0.00318	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Benzene	ND		0.00530	0.00354	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromobenzene	ND		0.00530	0.00353	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromochloromethane	ND		0.00530	0.00301	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromodichloromethane	ND		0.00530	0.00389	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromoform	ND		0.00530	0.00405	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Bromomethane	ND		0.0106	0.00660	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2-Butanone (MEK)	ND		0.0106	0.00422	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
n-Butylbenzene	ND		0.0106	0.00568	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
sec-Butylbenzene	ND		0.00530	0.00427	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
tert-Butylbenzene	ND		0.00530	0.00418	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Carbon disulfide	ND		0.0106	0.00372	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Carbon tetrachloride	ND		0.00530	0.00334	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chlorobenzene	ND		0.00530	0.00388	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chloroethane	ND		0.0106	0.00389	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chloroform	ND		0.00530	0.00356	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Chloromethane	ND	*-	0.0106	0.00407	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2-Chlorotoluene	ND		0.00530	0.00422	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
4-Chlorotoluene	ND		0.00530	0.00460	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dibromo-3-Chloropropane	ND		0.0106	0.00449	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Dibromochloromethane	ND		0.00530	0.00351	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dibromoethane (EDB)	ND		0.00530	0.00381	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Dibromomethane	ND		0.00530	0.00312	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dichlorobenzene	ND		0.00530	0.00492	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3-Dichlorobenzene	ND		0.00530	0.00425	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,4-Dichlorobenzene	ND		0.00530	0.00502	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00284	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1-Dichloroethane	ND		0.00530	0.00359	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dichloroethane	ND		0.00530	0.00357	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1-Dichloroethene	ND		0.00530	0.00324	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
cis-1,2-Dichloroethene	ND		0.00530	0.00306	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
trans-1,2-Dichloroethene	ND		0.00530	0.00330	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2-Dichloropropane	ND		0.00530	0.00351	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3-Dichloropropane	ND		0.00530	0.00405	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2,2-Dichloropropane	ND		0.00530	0.00366	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1-Dichloropropene	ND		0.00530	0.00360	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
cis-1,3-Dichloropropene	ND		0.00530	0.00346	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
trans-1,3-Dichloropropene	ND		0.00530	0.00403	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethylbenzene	ND		0.00530	0.00378	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Hexachlorobutadiene	ND		0.0106	0.00533	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
2-Hexanone (MBK)	ND		0.0106	0.00312	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Isopropylbenzene	ND		0.00530	0.00401	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
4-Isopropyltoluene	ND		0.00530	0.00521	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Methyl tert-butyl ether	ND		0.00530	0.00305	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00342	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Methylene Chloride	**0.00905**	**J**	0.0106	0.00284	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Naphthalene	ND		0.00530	0.00479	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1

Client Sample ID: 2023-MW-01-0204' **Lab Sample ID: 620-10021-15**
Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00530	0.00448	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Styrene	ND		0.00530	0.00410	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,1,2-Tetrachloroethane	ND		0.00530	0.00398	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,2,2-Tetrachloroethane	ND		0.00530	0.00486	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Tetrachloroethene	ND		0.00530	0.00295	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Toluene	ND		0.00530	0.00336	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,3-Trichlorobenzene	ND		0.00530	0.00447	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,4-Trichlorobenzene	ND		0.00530	0.00489	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3,5-Trichlorobenzene	ND		0.00530	0.00504	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,1-Trichloroethane	ND		0.00530	0.00361	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,1,2-Trichloroethane	ND		0.00530	0.00400	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Trichloroethene	ND		0.00530	0.00356	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Trichlorofluoromethane (Freon 11)	ND		0.00530	0.00405	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,3-Trichloropropane	ND		0.00530	0.00471	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,2,4-Trimethylbenzene	ND		0.00530	0.00448	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3,5-Trimethylbenzene	ND		0.00530	0.00451	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Vinyl chloride	ND		0.00530	0.00323	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
m,p-Xylene	ND		0.00530	0.00724	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
o-Xylene	ND		0.00530	0.00387	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Tetrahydrofuran	ND		0.0106	0.00268	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethyl ether	ND		0.00530	0.00279	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Tert-amyl methyl ether	ND		0.00530	0.00419	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethyl tert-butyl ether	ND		0.00530	0.00349	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
di-Isopropyl ether	ND		0.00530	0.00378	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
tert-Butanol	ND		0.106	0.0284	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,4-Dioxane	ND		0.106	0.0330	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
trans-1,4-Dichloro-2-butene	ND		0.0265	0.00391	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Ethanol	ND		1.06	0.0657	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
1,3-Dichloropropene, Total	ND		0.00530	0.00403	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1
Xylenes, Total	ND		0.0159	0.00530	mg/Kg	☼	02/28/23 11:02	03/01/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*02/28/23 11:02*	*03/01/23 00:46*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.408	0.0725	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,2,4-Trichlorobenzene	ND		0.408	0.0934	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,2-Dichlorobenzene	ND		0.408	0.0786	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,3-Dichlorobenzene	ND		0.408	0.0987	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1,4-Dichlorobenzene	ND		0.408	0.0960	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
1-Methylnaphthalene	ND		0.0824	0.0692	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4,5-Trichlorophenol	ND		0.408	0.0467	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4,6-Trichlorophenol	ND		0.206	0.0504	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4-Dichlorophenol	ND		0.206	0.0821	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4-Dimethylphenol	ND		0.408	0.0598	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,4-Dinitrophenol	ND		0.408	0.107	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0204'
Date Collected: 02/27/23 13:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-15
Matrix: Solid
Percent Solids: 80.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.206	0.0483	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2,6-Dinitrotoluene	ND		0.206	0.0483	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Chloronaphthalene	ND		0.408	0.0942	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Chlorophenol	ND		0.206	0.0844	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Methylnaphthalene	ND		0.0824	0.0609	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Methylphenol	ND		0.408	0.0595	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Nitroaniline	ND		0.408	0.0388	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
2-Nitrophenol	ND		0.206	0.0732	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
3 & 4 Methylphenol	ND		0.408	0.0772	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
3,3'-Dichlorobenzidine	ND		0.408	0.0673	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
3-Nitroaniline	ND		0.408	0.0364	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4,6-Dinitro-2-methylphenol	ND		0.408	0.0732	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Bromophenyl phenyl ether	ND		0.408	0.0461	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Chloro-3-methylphenol	ND		0.408	0.0798	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Chloroaniline	ND		0.206	0.0312	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Chlorophenyl phenyl ether	ND		0.408	0.0436	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Nitroaniline	ND		0.206	0.0651	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
4-Nitrophenol	ND		0.408	0.142	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Acenaphthene	ND		0.0824	0.0657	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Acenaphthylene	ND		0.0824	0.0541	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Acetophenone	ND		0.206	0.0503	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Aniline	ND		0.408	0.0312	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Anthracene	ND		0.0824	0.0477	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Azobenzene/Diphenyldiazene	ND		0.408	0.0695	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzidine	ND	*- *1	0.815	0.121	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[a]anthracene	ND		0.0824	0.0463	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[a]pyrene	ND		0.0824	0.0589	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[b]fluoranthene	ND		0.0824	0.0683	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[g,h,i]perylene	ND		0.0824	0.0644	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzo[k]fluoranthene	ND		0.0824	0.0641	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzoic acid	ND		0.408	0.280	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Benzyl alcohol	ND		0.408	0.0739	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Bis(2-chloroethoxy)methane	ND		0.408	0.0709	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Bis(2-chloroethyl)ether	ND		0.206	0.0674	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
bis (2-chloroisopropyl) ether	ND		0.206	0.0918	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Bis(2-ethylhexyl) phthalate	ND		0.206	0.0525	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Butyl benzyl phthalate	ND		0.408	0.0409	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Carbazole	ND		0.206	0.0540	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Chrysene	ND		0.0824	0.0466	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Dibenz(a,h)anthracene	ND		0.0824	0.0629	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Dibenzofuran	ND		0.206	0.0714	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Diethyl phthalate	ND		0.408	0.0447	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Dimethyl phthalate	ND		0.408	0.0531	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Di-n-butyl phthalate	ND		0.408	0.0436	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Di-n-octyl phthalate	ND		0.408	0.0673	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Fluoranthene	ND		0.0824	0.0483	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Fluorene	ND		0.0824	0.0752	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Hexachlorobenzene	ND		0.206	0.0572	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Hexachlorobutadiene	ND		0.206	0.103	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1

Client Sample ID: 2023-MW-01-0204' **Lab Sample ID: 620-10021-15**
Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.206	0.0788	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Hexachloroethane	ND		0.206	0.0810	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0824	0.0699	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Isophorone	ND		0.206	0.0564	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Naphthalene	ND		0.0824	0.0791	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Nitrobenzene	ND		0.206	0.0952	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
N-Nitrosodimethylamine	ND		0.206	0.0541	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
N-Nitrosodi-n-propylamine	ND		0.206	0.0821	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
N-Nitrosodiphenylamine	ND		0.408	0.0520	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pentachloronitrobenzene	ND		0.408	0.0644	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pentachlorophenol	ND		0.408	0.167	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Phenanthrene	ND		0.0824	0.0467	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Phenol	ND		0.408	0.0840	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pyrene	ND		0.0824	0.0455	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1
Pyridine	ND		0.408	0.0965	mg/Kg	☼	03/02/23 10:19	03/08/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
2-Fluorophenol (Surr)	*107*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
2,4,6-Tribromophenol (Surr)	*95*		*15 - 110*	*03/02/23 10:19*	*03/08/23 19:43*	*1*
Terphenyl-d14	*67*		*30 - 130*	*03/02/23 10:19*	*03/08/23 19:43*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.258	0.132	mg/Kg			03/02/23 09:40	1
C9-C12 Aliphatics (adjusted)	ND		0.258	0.110	mg/Kg			03/02/23 09:40	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Ethylbenzene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Methyl tert-butyl ether	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
m,p-Xylene	ND		0.103	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Naphthalene	ND		0.0516	0.0351	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
o-Xylene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
Toluene	ND		0.0516	0.0103	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
C5-C8 Aliphatics (unadjusted)	ND		0.258	0.132	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
C9-C10 Aromatics	ND		0.258	0.0361	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1
C9-C12 Aliphatics (unadjusted)	ND		0.258	0.110	mg/Kg	☼	03/01/23 07:14	03/01/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/01/23 07:14*	*03/01/23 20:24*	*1*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/01/23 07:14*	*03/01/23 20:24*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0237	0.0171	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1221	ND		0.0237	0.00701	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1232	ND		0.0237	0.00657	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1

Client Sample ID: 2023-MW-01-0204' **Lab Sample ID: 620-10021-15**
Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0237	0.00375	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1248	ND		0.0237	0.00741	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1254	**0.0383**		0.0237	0.0185	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1262	ND		0.0237	0.00553	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1260	ND		0.0237	0.00510	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1
PCB-1268	ND		0.0237	0.00505	mg/Kg	☼	02/28/23 15:12	03/03/23 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*02/28/23 15:12*	*03/03/23 03:22*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoroheptanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorononanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorodecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorotridecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorotetradecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorobutanesulfonic acid	ND		2.47	0.494	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorohexanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NEtFOSAA	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NMeFOSAA	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
10:2 FTS	ND		2.47	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoropentanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoroheptanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorononanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorodecanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctanesulfonamide	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorohexadecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorooctadecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorobutanoic acid	ND		2.47	0.987	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoropentanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NMeFOSE	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NMeFOSA	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NEtFOSE	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
NEtFOSA	ND		2.47	0.617	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
HFPODA	ND		2.47	1.23	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
DONA	ND		3.70	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
9Cl-PF3ONS	ND		2.47	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
11Cl-PF3OUdS	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluorododecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.47	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
Perfluoroundecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1

Client Sample ID: 2023-MW-01-0204' Lab Sample ID: 620-10021-15

Date Collected: 02/27/23 13:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.47	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.70	0.740	ug/Kg	☼	03/01/23 10:57	03/11/23 04:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
M2-8:2 FTS	*77*		*15 - 200*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
M2-6:2 FTS	*90*		*10 - 200*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C8 PFOA	*93*		*26 - 159*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C9 PFNA	*98*		*26 - 165*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C6 PFDA	*88*		*26 - 161*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C7 PFUnA	*101*		*12 - 173*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C2-PFDoDA	*90*		*11 - 166*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C2 PFTeDA	*92*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C3 PFHxS	*103*		*24 - 171*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C8 PFOS	*102*		*41 - 154*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d3-NMeFOSAA	*30*		*10 - 178*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d5-NEtFOSAA	*46*		*10 - 193*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C8 FOSA	*91*		*14 - 163*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C5 PFPeA	*87*		*24 - 161*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d7-N-MeFOSE-M	*96*		*10 - 179*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d9-N-EtFOSE-M	*103*		*10 - 185*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
d5-NEtPFOSA	*72*		*10 - 180*	*03/01/23 10:57*	*03/11/23 04:41*	*1*
13C3 HFPO-DA	*92*		*10 - 169*	*03/01/23 10:57*	*03/11/23 04:41*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	5.88	2.00	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Arsenic	**3.74**		3.53	1.65	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Barium	**29.4**		0.588	0.176	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Beryllium	**0.872**		0.588	0.118	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Cadmium	ND		0.588	0.118	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Chromium	**8.75**	**B**	1.76	0.412	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Lead	**12.0**	**F1**	1.76	0.705	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Nickel	**2.70**		1.18	0.306	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Selenium	ND		5.88	1.76	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Silver	ND	^3+	1.18	0.470	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Thallium	ND		3.53	1.53	mg/Kg	☼	03/01/23 11:49	03/06/23 17:15	1
Vanadium	**15.9**		1.18	0.506	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1
Zinc	**19.1**		2.35	0.941	mg/Kg	☼	03/01/23 11:49	03/03/23 01:17	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0405**	**J**	0.0701	0.0234	mg/Kg	☼	03/02/23 08:13	03/02/23 13:37	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: 2023-MW-01-0204'
Date Collected: 02/27/23 13:35
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-15
Matrix: Solid
Percent Solids: 80.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.8		0.1	0.1	%			02/28/23 09:15	1
Percent Solids (EPA Moisture)	80.2		0.1	0.1	%			02/28/23 09:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: Trip Blank

Date Collected: 02/27/23 00:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-16

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Acetone	**0.0360**	**J B**	0.0500	0.0112	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Benzene	ND		0.00500	0.00334	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromoform	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chloroform	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Chloromethane	ND	*-	0.0100	0.00384	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Methylene Chloride	**0.0107**		0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		02/28/23 11:02	02/28/23 17:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Client Sample ID: Trip Blank

Date Collected: 02/27/23 00:00
Date Received: 02/27/23 16:50

Lab Sample ID: 620-10021-16

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Styrene	ND		0.00500	0.00387	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Toluene	**0.00615**		0.00500	0.00317	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Ethanol	ND		1.00	0.0620	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:56	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		02/28/23 11:02	02/28/23 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:56*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10021-1	2023-SB-02-0002'	98	103	105	98
620-10021-2	2023-SB-02-0204'	101	108	105	98
620-10021-3	2023-SB-02-0406'	99	106	101	96
620-10021-4	2023-SB-02-0608'	100	107	101	96
620-10021-5	2023-SB-02-0810'	98	101	102	101
620-10021-6	2023-SB-02-1012'	99	105	100	95
620-10021-7	2023-SB-01-0002'	98	107	105	97
620-10021-8	2023-SB-01-0204'	98	105	99	94
620-10021-9	2023-SB-01-0406'	98	105	99	94
620-10021-10	2023-SB-01-0608'	99	106	99	95
620-10021-11	2023-SB-01-0810'	99	106	98	94
620-10021-12	2023-SB-01-1012'	100	106	100	96
620-10021-13	2023-FD-01	100	105	100	95
620-10021-14	2023-MW-01-0002'	93	99	102	101
620-10021-15	2023-MW-01-0204'	96	105	103	99
620-10021-16	Trip Blank	103	106	103	97
LCS 620-20151/1-A	Lab Control Sample	102	104	101	96
LCS 620-20238/1-A	Lab Control Sample	103	102	100	100
LCSD 620-20151/2-A	Lab Control Sample Dup	102	104	101	98
LCSD 620-20238/2-A	Lab Control Sample Dup	102	101	100	99
MB 620-20151/3-A	Method Blank	102	107	102	96
MB 620-20238/3-A	Method Blank	103	100	99	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10021-1	2023-SB-02-0002'	81	104	63	80	102	84
620-10021-1	2023-SB-02-0002'	83	90	56	70	101	70
620-10021-2	2023-SB-02-0204'	64	80	59	70	74	84
620-10021-3	2023-SB-02-0406'	81	103	82	96	86	85
620-10021-4	2023-SB-02-0608'	77	105	80	88	82	89
620-10021-5	2023-SB-02-0810'	64	83	63	69	66	72
620-10021-6	2023-SB-02-1012'	84	100	79	93	89	92
620-10021-7	2023-SB-01-0002'	51	61	37	47	63	45
620-10021-8	2023-SB-01-0204'	83	102	83	92	99	93
620-10021-9	2023-SB-01-0406'	77	108	79	90	93	74
620-10021-10	2023-SB-01-0608'	89	104	93	101	87	86
620-10021-11	2023-SB-01-0810'	80	110	82	91	82	86
620-10021-12	2023-SB-01-1012'	72	95	65	79	80	90
620-10021-13	2023-FD-01	83	99	69	89	108	81
620-10021-14	2023-MW-01-0002'	103	96	73	82	128 S1+	75

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10021-15	2023-MW-01-0204'	78	107	65	82	95	67
LCS 620-20217/2-A	Lab Control Sample	83	96	83	90	97	87
LCSD 620-20217/3-A	Lab Control Sample Dup	76	91	78	79	90	80
MB 620-20217/1-A	Method Blank	64	76	62	67	55	77

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT-P2	TFT-F1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10021-1	2023-SB-02-0002'	102	104
620-10021-2	2023-SB-02-0204'	101	105
620-10021-3	2023-SB-02-0406'	99	103
620-10021-4	2023-SB-02-0608'	98	102
620-10021-5	2023-SB-02-0810'	99	102
620-10021-6	2023-SB-02-1012'	100	103
620-10021-7	2023-SB-01-0002'	100	104
620-10021-8	2023-SB-01-0204'	97	101
620-10021-9	2023-SB-01-0406'	97	101
620-10021-10	2023-SB-01-0608'	97	101
620-10021-11	2023-SB-01-0810'	97	101
620-10021-12	2023-SB-01-1012'	97	100
620-10021-13	2023-FD-01	96	100
620-10021-14	2023-MW-01-0002'	98	101
620-10021-15	2023-MW-01-0204'	97	100
LCS 480-660132/2-A	Lab Control Sample	99	100
LCSD 480-660132/3-A	Lab Control Sample Dup	98	100
MB 480-660132/1-A	Method Blank	95	98

Surrogate Legend

TFT-P = a,a,a-Trifluorotoluene (pid)
TFT-F = a,a,a-Trifluorotoluene (fid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10021-1	2023-SB-02-0002'	81	77	91	75
620-10021-2	2023-SB-02-0204'	72	72	83	77
620-10021-3	2023-SB-02-0406'	82	81	112	97
620-10021-4	2023-SB-02-0608'	72	74	84	74

Surrogate Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10021-5	2023-SB-02-0810'	81	75	81	75
620-10021-6	2023-SB-02-1012'	81	80	88	82
620-10021-7	2023-SB-01-0002'	65	66	80	80
620-10021-8	2023-SB-01-0204'	55	61	78	73
620-10021-9	2023-SB-01-0406'	60	57	86	79
620-10021-10	2023-SB-01-0608'	75	76	83	81
620-10021-11	2023-SB-01-0810'	66	63	74	71
620-10021-12	2023-SB-01-1012'	87	83	94	91
620-10021-13	2023-FD-01	81	74	93	89
620-10021-14	2023-MW-01-0002'	68	60	85	76
620-10021-15	2023-MW-01-0204'	73	74	86	76
LCS 620-20161/2-A	Lab Control Sample	83	85	82	79
LCS 620-20162/2-A	Lab Control Sample	90	87	97	89
LCS 620-20272/2-A	Lab Control Sample	81	83	77	97
LCSD 620-20161/3-A	Lab Control Sample Dup	80	83	83	89
LCSD 620-20162/3-A	Lab Control Sample Dup	91	90	102	94
LCSD 620-20272/3-A	Lab Control Sample Dup	65	66	61	74
MB 620-20161/1-A	Method Blank	88	90	92	91
MB 620-20162/1-A	Method Blank	90	87	98	88
MB 620-20272/1-A	Method Blank	88	98	77	85

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M282FTS	M262FTS	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA
Lab Sample ID	Client Sample ID	(10-200)	(15-200)	(10-200)	(10-174)	(10-178)	(26-159)	(26-165)	(26-161)
620-10021-1	2023-SB-02-0002'	120	134	128	101	106	104	118	110
620-10021-2	2023-SB-02-0204'	68	79	66	80	82	81	81	75
620-10021-3	2023-SB-02-0406'	109	122	124	126	128	122	117	115
620-10021-4	2023-SB-02-0608'	121	114	128	134	140	133	128	115
620-10021-5	2023-SB-02-0810'	99	91	94	118	122	116	115	119
620-10021-6	2023-SB-02-1012'	117	118	127	146	144	141	129	124
620-10021-7	2023-SB-01-0002'	74	87	79	73	78	76	84	80
620-10021-8	2023-SB-01-0204'	51	50	57	61	65	64	66	65
620-10021-9	2023-SB-01-0406'	106	91	110	117	126	122	121	113
620-10021-10	2023-SB-01-0608'	109	106	114	128	131	128	126	120
620-10021-11	2023-SB-01-0810'	113	128	112	130	139	127	126	123
620-10021-12	2023-SB-01-1012'	122	138	131	138	143	134	130	128
620-10021-13	2023-FD-01	67	76	84	78	86	81	79	76
620-10021-14	2023-MW-01-0002'	115	150	124	125	128	122	134	122
620-10021-15	2023-MW-01-0204'	83	77	90	96	102	93	98	88
620-10021-15 MS	2023-MW-01-0204'	83	92	86	96	94	94	94	86
620-10021-15 MSD	2023-MW-01-0204'	105	122	109	116	115	116	116	113
LCS 410-349094/2-B	Lab Control Sample	116	117	112	122	117	125	125	124
MB 410-349094/1-B	Method Blank	112	116	112	120	129	127	122	122

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C7PUA	PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(12-173)	(11-166)	(10-169)	(27-179)	(24-171)	(41-154)	(10-178)	(10-193)
620-10021-1	2023-SB-02-0002'	122	126	130	125	130	130	40	62
620-10021-2	2023-SB-02-0204'	81	77	76	94	101	95	13	17
620-10021-3	2023-SB-02-0406'	113	114	115	118	125	124	51	57
620-10021-4	2023-SB-02-0608'	129	123	123	123	128	125	65	74
620-10021-5	2023-SB-02-0810'	119	121	114	120	130	123	34	39
620-10021-6	2023-SB-02-1012'	128	127	120	126	142	131	70	81
620-10021-7	2023-SB-01-0002'	81	79	86	110	109	114	12	18
620-10021-8	2023-SB-01-0204'	62	61	63	88	94	96	5 *5-	6 *5-
620-10021-9	2023-SB-01-0406'	107	108	116	109	122	118	45	47
620-10021-10	2023-SB-01-0608'	124	119	118	118	126	126	46	48
620-10021-11	2023-SB-01-0810'	121	122	112	121	130	123	56	67
620-10021-12	2023-SB-01-1012'	134	133	123	126	137	123	105	105
620-10021-13	2023-FD-01	83	98	108	78	86	82	41	45
620-10021-14	2023-MW-01-0002'	128	126	130	120	123	130	68	84
620-10021-15	2023-MW-01-0204'	101	90	92	96	103	102	30	46
620-10021-15 MS	2023-MW-01-0204'	102	92	100	101	108	103	33	44
620-10021-15 MSD	2023-MW-01-0204'	125	117	131	122	124	119	49	72
LCS 410-349094/2-B	Lab Control Sample	122	114	128	122	119	122	107	109
MB 410-349094/1-B	Method Blank	129	129	132	122	122	119	101	113

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	NMFM	d3NMFSA	NEFM	d5NPFSA	HFPODA
Lab Sample ID	Client Sample ID	(14-163)	(28-153)	(24-161)	(10-179)	(10-175)	(10-185)	(10-180)	(10-169)
620-10021-1	2023-SB-02-0002'	85	87	87	86	79	89	82	90
620-10021-2	2023-SB-02-0204'	100	72	73	100	52	105	57	78
620-10021-3	2023-SB-02-0406'	107	117	113	103	104	107	109	118
620-10021-4	2023-SB-02-0608'	112	127	126	111	107	113	109	121
620-10021-5	2023-SB-02-0810'	120	112	112	123	115	127	124	119

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10021-6	2023-SB-02-1012'	123	125	124	117	119	121	114	132
620-10021-7	2023-SB-01-0002'	73	62	69	69	14	79	16	79
620-10021-8	2023-SB-01-0204'	114	51	52	112	84	117	91	73
620-10021-9	2023-SB-01-0406'	83	105	104	83	42	81	42	127
620-10021-10	2023-SB-01-0608'	111	122	119	114	107	115	111	122
620-10021-11	2023-SB-01-0810'	113	119	115	111	104	109	106	114
620-10021-12	2023-SB-01-1012'	115	130	128	118	112	114	115	143
620-10021-13	2023-FD-01	67	67	67	63	22	64	22	63
620-10021-14	2023-MW-01-0002'	69	121	120	61	22	72	26	117
620-10021-15	2023-MW-01-0204'	91	89	87	96	74	103	72	92
620-10021-15 MS	2023-MW-01-0204'	101	91	92	94	76	102	78	97
620-10021-15 MSD	2023-MW-01-0204'	105	111	110	104	78	114	79	110
LCS 410-349094/2-B	Lab Control Sample	60	110	120	65	12	70	9 *5-	108
MB 410-349094/1-B	Method Blank	66	106	114	65	15	73	14	118

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20151/3-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Acetone	0.02387	J	0.0500	0.0112	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Benzene	ND		0.00500	0.00334	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromoform	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chloroform	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		02/28/23 11:02	02/28/23 17:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20151/3-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Styrene	ND		0.00500	0.00387	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Toluene	ND		0.00500	0.00317	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Ethanol	ND		1.00	0.0620	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		02/28/23 11:02	02/28/23 17:30	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		02/28/23 11:02	02/28/23 17:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*02/28/23 11:02*	*02/28/23 17:30*	*1*

Lab Sample ID: LCS 620-20151/1-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01891		mg/Kg		95	70 - 130
Acetone	0.0200	0.02455	J	mg/Kg		123	70 - 130
Acrylonitrile	0.0200	0.02104		mg/Kg		105	70 - 130
Benzene	0.0200	0.01996		mg/Kg		100	70 - 130
Bromobenzene	0.0200	0.01940		mg/Kg		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20151/1-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.01886		mg/Kg		94	70 - 130
Bromodichloromethane	0.0200	0.02020		mg/Kg		101	70 - 130
Bromoform	0.0200	0.01957		mg/Kg		98	70 - 130
Bromomethane	0.0200	0.01591		mg/Kg		80	70 - 130
2-Butanone (MEK)	0.0200	0.02117		mg/Kg		106	70 - 130
n-Butylbenzene	0.0200	0.02010		mg/Kg		101	70 - 130
sec-Butylbenzene	0.0200	0.02040		mg/Kg		102	70 - 130
tert-Butylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Carbon disulfide	0.0200	0.01824		mg/Kg		91	70 - 130
Carbon tetrachloride	0.0200	0.01860		mg/Kg		93	70 - 130
Chlorobenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.02322		mg/Kg		116	70 - 130
Chloroform	0.0200	0.01978		mg/Kg		99	70 - 130
Chloromethane	0.0200	0.01373	*-	mg/Kg		69	70 - 130
2-Chlorotoluene	0.0200	0.02018		mg/Kg		101	70 - 130
4-Chlorotoluene	0.0200	0.02032		mg/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02011		mg/Kg		101	70 - 130
Dibromochloromethane	0.0200	0.02005		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02029		mg/Kg		101	70 - 130
Dibromomethane	0.0200	0.02041		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.01965		mg/Kg		98	70 - 130
1,3-Dichlorobenzene	0.0200	0.01989		mg/Kg		99	70 - 130
1,4-Dichlorobenzene	0.0200	0.01991		mg/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.007475	J *-	mg/Kg		37	70 - 130
1,1-Dichloroethane	0.0200	0.02001		mg/Kg		100	70 - 130
1,2-Dichloroethane	0.0200	0.02100		mg/Kg		105	70 - 130
1,1-Dichloroethene	0.0200	0.01885		mg/Kg		94	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01904		mg/Kg		95	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01919		mg/Kg		96	70 - 130
1,2-Dichloropropane	0.0200	0.02075		mg/Kg		104	70 - 130
1,3-Dichloropropane	0.0200	0.02069		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0200	0.01879		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01943		mg/Kg		97	70 - 130
cis-1,3-Dichloropropene	0.0200	0.02007		mg/Kg		100	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02068		mg/Kg		103	70 - 130
Ethylbenzene	0.0200	0.02024		mg/Kg		101	70 - 130
Hexachlorobutadiene	0.0200	0.01744		mg/Kg		87	70 - 130
2-Hexanone (MBK)	0.0200	0.02326		mg/Kg		116	70 - 130
Isopropylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
4-Isopropyltoluene	0.0200	0.01934		mg/Kg		97	70 - 130
Methyl tert-butyl ether	0.0200	0.01955		mg/Kg		98	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02217		mg/Kg		111	70 - 130
Methylene Chloride	0.0200	0.01982		mg/Kg		99	70 - 130
Naphthalene	0.0200	0.02177		mg/Kg		109	70 - 130
N-Propylbenzene	0.0200	0.02080		mg/Kg		104	70 - 130
Styrene	0.0200	0.02006		mg/Kg		100	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01968		mg/Kg		98	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02174		mg/Kg		109	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20151/1-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.01870		mg/Kg		93	70 - 130
Toluene	0.0200	0.02030		mg/Kg		101	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01983		mg/Kg		99	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01975		mg/Kg		99	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01873		mg/Kg		94	70 - 130
1,1,1-Trichloroethane	0.0200	0.01974		mg/Kg		99	70 - 130
1,1,2-Trichloroethane	0.0200	0.02110		mg/Kg		106	70 - 130
Trichloroethene	0.0200	0.01955		mg/Kg		98	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01926		mg/Kg		96	70 - 130
1,2,3-Trichloropropane	0.0200	0.02173		mg/Kg		109	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02020		mg/Kg		101	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02026		mg/Kg		101	70 - 130
Vinyl chloride	0.0200	0.01616		mg/Kg		81	70 - 130
m,p-Xylene	0.0200	0.02021		mg/Kg		101	70 - 130
o-Xylene	0.0200	0.02001		mg/Kg		100	70 - 130
Tetrahydrofuran	0.0200	0.01950		mg/Kg		98	70 - 130
Ethyl ether	0.0200	0.02004		mg/Kg		100	70 - 130
Tert-amyl methyl ether	0.0200	0.01937		mg/Kg		97	70 - 130
Ethyl tert-butyl ether	0.0200	0.01934		mg/Kg		97	70 - 130
di-Isopropyl ether	0.0200	0.02007		mg/Kg		100	70 - 130
tert-Butanol	0.200	0.1998		mg/Kg		100	70 - 130
1,4-Dioxane	0.200	0.2063		mg/Kg		103	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02257	J	mg/Kg		113	70 - 130
Ethanol	0.400	0.3994	J	mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 620-20151/2-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01801		mg/Kg		90	70 - 130	5	30
Acetone	0.0200	0.02212	J	mg/Kg		111	70 - 130	10	30
Acrylonitrile	0.0200	0.01986		mg/Kg		99	70 - 130	6	30
Benzene	0.0200	0.01949		mg/Kg		97	70 - 130	2	30
Bromobenzene	0.0200	0.01886		mg/Kg		94	70 - 130	3	30
Bromochloromethane	0.0200	0.01842		mg/Kg		92	70 - 130	2	30
Bromodichloromethane	0.0200	0.01997		mg/Kg		100	70 - 130	1	30
Bromoform	0.0200	0.01857		mg/Kg		93	70 - 130	5	30
Bromomethane	0.0200	0.01515		mg/Kg		76	70 - 130	5	30
2-Butanone (MEK)	0.0200	0.01978		mg/Kg		99	70 - 130	7	30
n-Butylbenzene	0.0200	0.01980		mg/Kg		99	70 - 130	2	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20151/2-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20151

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	0.0200	0.01986		mg/Kg		99	70 - 130	3	30
tert-Butylbenzene	0.0200	0.02000		mg/Kg		100	70 - 130	2	30
Carbon disulfide	0.0200	0.01724		mg/Kg		86	70 - 130	6	30
Carbon tetrachloride	0.0200	0.01838		mg/Kg		92	70 - 130	1	30
Chlorobenzene	0.0200	0.01975		mg/Kg		99	70 - 130	3	30
Chloroethane	0.0200	0.02223		mg/Kg		111	70 - 130	4	30
Chloroform	0.0200	0.01932		mg/Kg		97	70 - 130	2	30
Chloromethane	0.0200	0.01294	*-	mg/Kg		65	70 - 130	6	30
2-Chlorotoluene	0.0200	0.01752		mg/Kg		88	70 - 130	14	30
4-Chlorotoluene	0.0200	0.01958		mg/Kg		98	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02071		mg/Kg		104	70 - 130	3	30
Dibromochloromethane	0.0200	0.02013		mg/Kg		101	70 - 130	0	30
1,2-Dibromoethane (EDB)	0.0200	0.01996		mg/Kg		100	70 - 130	2	30
Dibromomethane	0.0200	0.02024		mg/Kg		101	70 - 130	1	30
1,2-Dichlorobenzene	0.0200	0.01971		mg/Kg		99	70 - 130	0	30
1,3-Dichlorobenzene	0.0200	0.01923		mg/Kg		96	70 - 130	3	30
1,4-Dichlorobenzene	0.0200	0.01995		mg/Kg		100	70 - 130	0	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.007260	J *-	mg/Kg		36	70 - 130	3	30
1,1-Dichloroethane	0.0200	0.01945		mg/Kg		97	70 - 130	3	30
1,2-Dichloroethane	0.0200	0.02083		mg/Kg		104	70 - 130	1	30
1,1-Dichloroethene	0.0200	0.01713		mg/Kg		86	70 - 130	10	30
cis-1,2-Dichloroethene	0.0200	0.01851		mg/Kg		93	70 - 130	3	30
trans-1,2-Dichloroethene	0.0200	0.01800		mg/Kg		90	70 - 130	6	30
1,2-Dichloropropane	0.0200	0.02044		mg/Kg		102	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02062		mg/Kg		103	70 - 130	0	30
2,2-Dichloropropane	0.0200	0.01828		mg/Kg		91	70 - 130	3	30
1,1-Dichloropropene	0.0200	0.01896		mg/Kg		95	70 - 130	2	30
cis-1,3-Dichloropropene	0.0200	0.01967		mg/Kg		98	70 - 130	2	30
trans-1,3-Dichloropropene	0.0200	0.02030		mg/Kg		101	70 - 130	2	30
Ethylbenzene	0.0200	0.01957		mg/Kg		98	70 - 130	3	30
Hexachlorobutadiene	0.0200	0.01830		mg/Kg		91	70 - 130	5	30
2-Hexanone (MBK)	0.0200	0.02182		mg/Kg		109	70 - 130	6	30
Isopropylbenzene	0.0200	0.01960		mg/Kg		98	70 - 130	4	30
4-Isopropyltoluene	0.0200	0.01925		mg/Kg		96	70 - 130	0	30
Methyl tert-butyl ether	0.0200	0.01888		mg/Kg		94	70 - 130	4	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.02097		mg/Kg		105	70 - 130	6	30
Methylene Chloride	0.0200	0.01880		mg/Kg		94	70 - 130	5	30
Naphthalene	0.0200	0.02204		mg/Kg		110	70 - 130	1	30
N-Propylbenzene	0.0200	0.02007		mg/Kg		100	70 - 130	4	30
Styrene	0.0200	0.01927		mg/Kg		96	70 - 130	4	30
1,1,1,2-Tetrachloroethane	0.0200	0.01941		mg/Kg		97	70 - 130	1	30
1,1,2,2-Tetrachloroethane	0.0200	0.02145		mg/Kg		107	70 - 130	1	30
Tetrachloroethene	0.0200	0.01814		mg/Kg		91	70 - 130	3	30
Toluene	0.0200	0.01984		mg/Kg		99	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0200	0.02073		mg/Kg		104	70 - 130	4	30
1,2,4-Trichlorobenzene	0.0200	0.02004		mg/Kg		100	70 - 130	1	30
1,3,5-Trichlorobenzene	0.0200	0.01929		mg/Kg		96	70 - 130	3	30
1,1,1-Trichloroethane	0.0200	0.01920		mg/Kg		96	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20151/2-A
Matrix: Solid
Analysis Batch: 20152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20151

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02095		mg/Kg		105	70 - 130	1	30
Trichloroethene			0.0200	0.01925		mg/Kg		96	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01797		mg/Kg		90	70 - 130	7	30
1,2,3-Trichloropropane			0.0200	0.02116		mg/Kg		106	70 - 130	3	30
1,2,4-Trimethylbenzene			0.0200	0.01954		mg/Kg		98	70 - 130	3	30
1,3,5-Trimethylbenzene			0.0200	0.01992		mg/Kg		100	70 - 130	2	30
Vinyl chloride			0.0200	0.01525		mg/Kg		76	70 - 130	6	30
m,p-Xylene			0.0200	0.01919		mg/Kg		96	70 - 130	5	30
o-Xylene			0.0200	0.01934		mg/Kg		97	70 - 130	3	30
Tetrahydrofuran			0.0200	0.02158		mg/Kg		108	70 - 130	10	30
Ethyl ether			0.0200	0.01958		mg/Kg		98	70 - 130	2	30
Tert-amyl methyl ether			0.0200	0.01928		mg/Kg		96	70 - 130	1	30
Ethyl tert-butyl ether			0.0200	0.01921		mg/Kg		96	70 - 130	1	30
di-Isopropyl ether			0.0200	0.02005		mg/Kg		100	70 - 130	0	30
tert-Butanol			0.200	0.1789		mg/Kg		89	70 - 130	11	30
1,4-Dioxane			0.200	0.1904		mg/Kg		95	70 - 130	8	30
trans-1,4-Dichloro-2-butene			0.0200	0.02165	J	mg/Kg		108	70 - 130	4	30
Ethanol			0.400	0.3933	J	mg/Kg		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20238/3-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/02/23 17:46	03/02/23 20:52	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/02/23 17:46	03/02/23 20:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/02/23 17:46*	*03/02/23 20:52*	*1*

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01757		mg/Kg		88	70 - 130
Acetone	0.0200	0.01938	J	mg/Kg		97	70 - 130
Acrylonitrile	0.0200	0.02007		mg/Kg		100	70 - 130
Benzene	0.0200	0.02000		mg/Kg		100	70 - 130
Bromobenzene	0.0200	0.01839		mg/Kg		92	70 - 130
Bromochloromethane	0.0200	0.01978		mg/Kg		99	70 - 130
Bromodichloromethane	0.0200	0.02215		mg/Kg		111	70 - 130
Bromoform	0.0200	0.02074		mg/Kg		104	70 - 130
Bromomethane	0.0200	0.01718		mg/Kg		86	70 - 130
2-Butanone (MEK)	0.0200	0.01839		mg/Kg		92	70 - 130
n-Butylbenzene	0.0200	0.01927		mg/Kg		96	70 - 130
sec-Butylbenzene	0.0200	0.01901		mg/Kg		95	70 - 130
tert-Butylbenzene	0.0200	0.01893		mg/Kg		95	70 - 130
Carbon disulfide	0.0200	0.01728		mg/Kg		86	70 - 130
Carbon tetrachloride	0.0200	0.01901		mg/Kg		95	70 - 130
Chlorobenzene	0.0200	0.02132		mg/Kg		107	70 - 130
Chloroethane	0.0200	0.01847		mg/Kg		92	70 - 130
Chloroform	0.0200	0.01999		mg/Kg		100	70 - 130
Chloromethane	0.0200	0.02016		mg/Kg		101	70 - 130
2-Chlorotoluene	0.0200	0.01990		mg/Kg		100	70 - 130
4-Chlorotoluene	0.0200	0.01918		mg/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02172		mg/Kg		109	70 - 130
Dibromochloromethane	0.0200	0.02168		mg/Kg		108	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0200	0.02034		mg/Kg		102	70 - 130
Dibromomethane	0.0200	0.02048		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	0.0200	0.02037		mg/Kg		102	70 - 130
1,3-Dichlorobenzene	0.0200	0.01914		mg/Kg		96	70 - 130
1,4-Dichlorobenzene	0.0200	0.02002		mg/Kg		100	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01307	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0200	0.02090		mg/Kg		104	70 - 130
1,2-Dichloroethane	0.0200	0.01979		mg/Kg		99	70 - 130
1,1-Dichloroethene	0.0200	0.01927		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02009		mg/Kg		100	70 - 130
1,2-Dichloropropane	0.0200	0.02203		mg/Kg		110	70 - 130
1,3-Dichloropropane	0.0200	0.01945		mg/Kg		97	70 - 130
2,2-Dichloropropane	0.0200	0.01877		mg/Kg		94	70 - 130
1,1-Dichloropropene	0.0200	0.01782		mg/Kg		89	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01943		mg/Kg		97	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02019		mg/Kg		101	70 - 130
Ethylbenzene	0.0200	0.02032		mg/Kg		102	70 - 130
Hexachlorobutadiene	0.0200	0.01815		mg/Kg		91	70 - 130
2-Hexanone (MBK)	0.0200	0.01888		mg/Kg		94	70 - 130
Isopropylbenzene	0.0200	0.01909		mg/Kg		95	70 - 130
4-Isopropyltoluene	0.0200	0.01860		mg/Kg		93	70 - 130
Methyl tert-butyl ether	0.0200	0.01873		mg/Kg		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01908		mg/Kg		95	70 - 130
Methylene Chloride	0.0200	0.01901		mg/Kg		95	70 - 130
Naphthalene	0.0200	0.02120		mg/Kg		106	70 - 130
N-Propylbenzene	0.0200	0.01955		mg/Kg		98	70 - 130
Styrene	0.0200	0.01978		mg/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01996		mg/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02226		mg/Kg		111	70 - 130
Tetrachloroethene	0.0200	0.01863		mg/Kg		93	70 - 130
Toluene	0.0200	0.01981		mg/Kg		99	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02055		mg/Kg		103	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01920		mg/Kg		96	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01939		mg/Kg		97	70 - 130
1,1,1-Trichloroethane	0.0200	0.01987		mg/Kg		99	70 - 130
1,1,2-Trichloroethane	0.0200	0.02214		mg/Kg		111	70 - 130
Trichloroethene	0.0200	0.01959		mg/Kg		98	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.01989		mg/Kg		99	70 - 130
1,2,3-Trichloropropane	0.0200	0.01879		mg/Kg		94	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.01926		mg/Kg		96	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.01910		mg/Kg		95	70 - 130
Vinyl chloride	0.0200	0.01813		mg/Kg		91	70 - 130
m,p-Xylene	0.0400	0.04135		mg/Kg		103	70 - 130
o-Xylene	0.0200	0.02024		mg/Kg		101	70 - 130
Tetrahydrofuran	0.0200	0.01827		mg/Kg		91	70 - 130
Ethyl ether	0.0200	0.01842		mg/Kg		92	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20238/1-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0200	0.01953		mg/Kg		98	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01904		mg/Kg		95	70 - 130		
di-Isopropyl ether			0.0200	0.01879		mg/Kg		94	70 - 130		
tert-Butanol			0.200	0.2141		mg/Kg		107	70 - 130		
1,4-Dioxane			0.200	0.2059		mg/Kg		103	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02096	J	mg/Kg		105	70 - 130		
Ethanol			0.400	0.4234	J	mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.01827		mg/Kg		91	70 - 130	4	30
Acetone			0.0200	0.02043	J	mg/Kg		102	70 - 130	5	30
Acrylonitrile			0.0200	0.02072		mg/Kg		104	70 - 130	3	30
Benzene			0.0200	0.02069		mg/Kg		103	70 - 130	3	30
Bromobenzene			0.0200	0.01921		mg/Kg		96	70 - 130	4	30
Bromochloromethane			0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Bromodichloromethane			0.0200	0.02278		mg/Kg		114	70 - 130	3	30
Bromoform			0.0200	0.02118		mg/Kg		106	70 - 130	2	30
Bromomethane			0.0200	0.01756		mg/Kg		88	70 - 130	2	30
2-Butanone (MEK)			0.0200	0.01887		mg/Kg		94	70 - 130	3	30
n-Butylbenzene			0.0200	0.01994		mg/Kg		100	70 - 130	3	30
sec-Butylbenzene			0.0200	0.01976		mg/Kg		99	70 - 130	4	30
tert-Butylbenzene			0.0200	0.01974		mg/Kg		99	70 - 130	4	30
Carbon disulfide			0.0200	0.01797		mg/Kg		90	70 - 130	4	30
Carbon tetrachloride			0.0200	0.01980		mg/Kg		99	70 - 130	4	30
Chlorobenzene			0.0200	0.02203		mg/Kg		110	70 - 130	3	30
Chloroethane			0.0200	0.01874		mg/Kg		94	70 - 130	1	30
Chloroform			0.0200	0.02087		mg/Kg		104	70 - 130	4	30
Chloromethane			0.0200	0.02101		mg/Kg		105	70 - 130	4	30
2-Chlorotoluene			0.0200	0.02067		mg/Kg		103	70 - 130	4	30
4-Chlorotoluene			0.0200	0.01963		mg/Kg		98	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02174		mg/Kg		109	70 - 130	0	30
Dibromochloromethane			0.0200	0.02211		mg/Kg		111	70 - 130	2	30
1,2-Dibromoethane (EDB)			0.0200	0.02077		mg/Kg		104	70 - 130	2	30
Dibromomethane			0.0200	0.02065		mg/Kg		103	70 - 130	1	30
1,2-Dichlorobenzene			0.0200	0.02106		mg/Kg		105	70 - 130	3	30
1,3-Dichlorobenzene			0.0200	0.01946		mg/Kg		97	70 - 130	2	30
1,4-Dichlorobenzene			0.0200	0.02062		mg/Kg		103	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0200	0.01382	*-	mg/Kg		69	70 - 130	6	30
1,1-Dichloroethane	0.0200	0.02173		mg/Kg		109	70 - 130	4	30
1,2-Dichloroethane	0.0200	0.02074		mg/Kg		104	70 - 130	5	30
1,1-Dichloroethene	0.0200	0.02053		mg/Kg		103	70 - 130	6	30
cis-1,2-Dichloroethene	0.0200	0.02106		mg/Kg		105	70 - 130	5	30
trans-1,2-Dichloroethene	0.0200	0.02060		mg/Kg		103	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02255		mg/Kg		113	70 - 130	2	30
1,3-Dichloropropane	0.0200	0.02012		mg/Kg		101	70 - 130	3	30
2,2-Dichloropropane	0.0200	0.01909		mg/Kg		95	70 - 130	2	30
1,1-Dichloropropene	0.0200	0.01866		mg/Kg		93	70 - 130	5	30
cis-1,3-Dichloropropene	0.0200	0.01967		mg/Kg		98	70 - 130	1	30
trans-1,3-Dichloropropene	0.0200	0.02040		mg/Kg		102	70 - 130	1	30
Ethylbenzene	0.0200	0.02106		mg/Kg		105	70 - 130	4	30
Hexachlorobutadiene	0.0200	0.01894		mg/Kg		95	70 - 130	4	30
2-Hexanone (MBK)	0.0200	0.01921		mg/Kg		96	70 - 130	2	30
Isopropylbenzene	0.0200	0.01965		mg/Kg		98	70 - 130	3	30
4-Isopropyltoluene	0.0200	0.01955		mg/Kg		98	70 - 130	5	30
Methyl tert-butyl ether	0.0200	0.01926		mg/Kg		96	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.01913		mg/Kg		96	70 - 130	0	30
Methylene Chloride	0.0200	0.01986		mg/Kg		99	70 - 130	4	30
Naphthalene	0.0200	0.02180		mg/Kg		109	70 - 130	3	30
N-Propylbenzene	0.0200	0.02003		mg/Kg		100	70 - 130	2	30
Styrene	0.0200	0.02037		mg/Kg		102	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0200	0.02039		mg/Kg		102	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02245		mg/Kg		112	70 - 130	1	30
Tetrachloroethene	0.0200	0.01893		mg/Kg		95	70 - 130	2	30
Toluene	0.0200	0.02031		mg/Kg		102	70 - 130	3	30
1,2,3-Trichlorobenzene	0.0200	0.02115		mg/Kg		106	70 - 130	3	30
1,2,4-Trichlorobenzene	0.0200	0.01988		mg/Kg		99	70 - 130	3	30
1,3,5-Trichlorobenzene	0.0200	0.01945		mg/Kg		97	70 - 130	0	30
1,1,1-Trichloroethane	0.0200	0.02055		mg/Kg		103	70 - 130	3	30
1,1,2-Trichloroethane	0.0200	0.02258		mg/Kg		113	70 - 130	2	30
Trichloroethene	0.0200	0.01991		mg/Kg		100	70 - 130	2	30
Trichlorofluoromethane (Freon 11)	0.0200	0.02080		mg/Kg		104	70 - 130	4	30
1,2,3-Trichloropropane	0.0200	0.02070		mg/Kg		103	70 - 130	10	30
1,2,4-Trimethylbenzene	0.0200	0.01996		mg/Kg		100	70 - 130	4	30
1,3,5-Trimethylbenzene	0.0200	0.01990		mg/Kg		99	70 - 130	4	30
Vinyl chloride	0.0200	0.01867		mg/Kg		93	70 - 130	3	30
m,p-Xylene	0.0400	0.04282		mg/Kg		107	70 - 130	3	30
o-Xylene	0.0200	0.02086		mg/Kg		104	70 - 130	3	30
Tetrahydrofuran	0.0200	0.01952		mg/Kg		98	70 - 130	7	30
Ethyl ether	0.0200	0.01800		mg/Kg		90	70 - 130	2	30
Tert-amyl methyl ether	0.0200	0.01941		mg/Kg		97	70 - 130	1	30
Ethyl tert-butyl ether	0.0200	0.01894		mg/Kg		95	70 - 130	1	30
di-Isopropyl ether	0.0200	0.01936		mg/Kg		97	70 - 130	3	30
tert-Butanol	0.200	0.2113		mg/Kg		106	70 - 130	1	30
1,4-Dioxane	0.200	0.1895		mg/Kg		95	70 - 130	8	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20238/2-A
Matrix: Solid
Analysis Batch: 20239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0200	0.02160	J	mg/Kg		108	70 - 130	3	30
Ethanol			0.400	0.4066	J	mg/Kg		102	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20217/1-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Aniline	ND		0.330	0.0253	mg/Kg		03/02/23 10:19	03/07/23 15:22	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20217/1-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.0667	0.0386	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Phenol	ND		0.330	0.0680	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/02/23 10:19	03/07/23 15:22	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/02/23 10:19	03/07/23 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*30 - 130*	*03/02/23 10:19*	*03/07/23 15:22*	*1*
2-Fluorophenol (Surr)	*76*		*15 - 110*	*03/02/23 10:19*	*03/07/23 15:22*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/02/23 10:19*	*03/07/23 15:22*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/02/23 10:19*	*03/07/23 15:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20217/1-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20217

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	55		15 - 110	03/02/23 10:19	03/07/23 15:22	1
Terphenyl-d14	77		30 - 130	03/02/23 10:19	03/07/23 15:22	1

Lab Sample ID: LCS 620-20217/2-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	1.149		mg/Kg		69	40 - 140
1,2,4-Trichlorobenzene	1.67	1.422		mg/Kg		85	40 - 140
1,2-Dichlorobenzene	1.67	1.286		mg/Kg		77	40 - 140
1,3-Dichlorobenzene	1.67	1.330		mg/Kg		80	40 - 140
1,4-Dichlorobenzene	1.67	1.332		mg/Kg		80	40 - 140
1-Methylnaphthalene	1.67	1.533		mg/Kg		92	40 - 140
2,4,5-Trichlorophenol	1.67	1.446		mg/Kg		87	30 - 130
2,4,6-Trichlorophenol	1.67	1.635		mg/Kg		98	30 - 130
2,4-Dichlorophenol	1.67	1.464		mg/Kg		88	30 - 130
2,4-Dimethylphenol	1.67	1.316		mg/Kg		79	30 - 130
2,4-Dinitrophenol	1.67	1.978		mg/Kg		119	30 - 130
2,4-Dinitrotoluene	1.67	1.564		mg/Kg		94	40 - 140
2,6-Dinitrotoluene	1.67	1.656		mg/Kg		99	40 - 140
2-Chloronaphthalene	1.67	1.478		mg/Kg		89	40 - 140
2-Chlorophenol	1.67	1.430		mg/Kg		86	30 - 130
2-Methylnaphthalene	1.67	1.557		mg/Kg		93	40 - 140
2-Methylphenol	1.67	1.530		mg/Kg		92	30 - 130
2-Nitroaniline	1.67	1.575		mg/Kg		94	40 - 140
2-Nitrophenol	1.67	1.470		mg/Kg		88	30 - 130
3 & 4 Methylphenol	1.67	1.591		mg/Kg		95	30 - 130
3,3'-Dichlorobenzidine	1.67	1.779		mg/Kg		107	40 - 140
3-Nitroaniline	1.67	1.128		mg/Kg		68	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.638		mg/Kg		98	30 - 130
4-Bromophenyl phenyl ether	1.67	1.613		mg/Kg		97	40 - 140
4-Chloro-3-methylphenol	1.67	1.412		mg/Kg		85	30 - 130
4-Chloroaniline	1.67	0.6841		mg/Kg		41	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.518		mg/Kg		91	40 - 140
4-Nitroaniline	1.67	1.420		mg/Kg		85	40 - 140
4-Nitrophenol	1.67	1.579		mg/Kg		95	30 - 130
Acenaphthene	1.67	1.457		mg/Kg		87	40 - 140
Acenaphthylene	1.67	1.419		mg/Kg		85	40 - 140
Acetophenone	1.67	1.469		mg/Kg		88	40 - 140
Aniline	1.67	0.8241		mg/Kg		49	40 - 140
Anthracene	1.67	1.834		mg/Kg		110	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.427		mg/Kg		86	40 - 140
Benzidine	1.67	0.2349	J *-	mg/Kg		14	40 - 140
Benzo[a]anthracene	1.67	1.845		mg/Kg		111	40 - 140
Benzo[a]pyrene	1.67	1.623		mg/Kg		97	40 - 140
Benzo[b]fluoranthene	1.67	1.786		mg/Kg		107	40 - 140
Benzo[g,h,i]perylene	1.67	1.605		mg/Kg		96	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20217/2-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[k]fluoranthene	1.67	1.557		mg/Kg		93	40 - 140
Benzoic acid	1.67	1.201		mg/Kg		72	30 - 130
Benzyl alcohol	1.67	1.184		mg/Kg		71	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.334		mg/Kg		80	40 - 140
Bis(2-chloroethyl)ether	1.67	1.356		mg/Kg		81	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.201		mg/Kg		72	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.826		mg/Kg		110	40 - 140
Butyl benzyl phthalate	1.67	1.655		mg/Kg		99	40 - 140
Carbazole	1.67	1.629		mg/Kg		98	40 - 140
Chrysene	1.67	1.790		mg/Kg		107	40 - 140
Dibenz(a,h)anthracene	1.67	1.503		mg/Kg		90	40 - 140
Dibenzofuran	1.67	1.577		mg/Kg		95	40 - 140
Diethyl phthalate	1.67	1.556		mg/Kg		93	40 - 140
Dimethyl phthalate	1.67	1.723		mg/Kg		103	40 - 140
Di-n-butyl phthalate	1.67	1.856		mg/Kg		111	40 - 140
Di-n-octyl phthalate	1.67	1.836		mg/Kg		110	40 - 140
Fluoranthene	1.67	1.802		mg/Kg		108	40 - 140
Fluorene	1.67	1.486		mg/Kg		89	40 - 140
Hexachlorobenzene	1.67	1.592		mg/Kg		96	40 - 140
Hexachlorobutadiene	1.67	1.267		mg/Kg		76	40 - 140
Hexachlorocyclopentadiene	1.67	1.582		mg/Kg		95	40 - 140
Hexachloroethane	1.67	1.383		mg/Kg		83	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.468		mg/Kg		88	40 - 140
Isophorone	1.67	1.130		mg/Kg		68	40 - 140
Naphthalene	1.67	1.352		mg/Kg		81	40 - 140
Nitrobenzene	1.67	1.473		mg/Kg		88	40 - 140
N-Nitrosodimethylamine	1.67	1.090		mg/Kg		65	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.366		mg/Kg		82	40 - 140
N-Nitrosodiphenylamine	1.67	1.635		mg/Kg		98	40 - 140
Pentachloronitrobenzene	1.67	1.271		mg/Kg		76	40 - 140
Pentachlorophenol	1.67	1.375		mg/Kg		83	30 - 130
Phenanthrene	1.67	1.624		mg/Kg		97	40 - 140
Phenol	1.67	1.524		mg/Kg		91	40 - 140
Pyrene	1.67	1.798		mg/Kg		108	40 - 140
Pyridine	1.67	0.9351		mg/Kg		56	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*
2-Fluorophenol (Surr)	*96*		*15 - 110*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*
Phenol-d5 (Surr)	*90*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*97*		*15 - 110*
Terphenyl-d14	*87*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20217/3-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.078		mg/Kg		65	40 - 140	6	30
1,2,4-Trichlorobenzene			1.67	1.351		mg/Kg		81	40 - 140	5	30
1,2-Dichlorobenzene			1.67	1.184		mg/Kg		71	40 - 140	8	30
1,3-Dichlorobenzene			1.67	1.257		mg/Kg		75	40 - 140	6	30
1,4-Dichlorobenzene			1.67	1.211		mg/Kg		73	40 - 140	10	30
1-Methylnaphthalene			1.67	1.439		mg/Kg		86	40 - 140	6	30
2,4,5-Trichlorophenol			1.67	1.360		mg/Kg		82	30 - 130	6	30
2,4,6-Trichlorophenol			1.67	1.507		mg/Kg		90	30 - 130	8	30
2,4-Dichlorophenol			1.67	1.319		mg/Kg		79	30 - 130	10	30
2,4-Dimethylphenol			1.67	1.245		mg/Kg		75	30 - 130	6	30
2,4-Dinitrophenol			1.67	1.805		mg/Kg		108	30 - 130	9	30
2,4-Dinitrotoluene			1.67	1.459		mg/Kg		88	40 - 140	7	30
2,6-Dinitrotoluene			1.67	1.510		mg/Kg		91	40 - 140	9	30
2-Chloronaphthalene			1.67	1.368		mg/Kg		82	40 - 140	8	30
2-Chlorophenol			1.67	1.331		mg/Kg		80	30 - 130	7	30
2-Methylnaphthalene			1.67	1.434		mg/Kg		86	40 - 140	8	30
2-Methylphenol			1.67	1.401		mg/Kg		84	30 - 130	9	30
2-Nitroaniline			1.67	1.440		mg/Kg		86	40 - 140	9	30
2-Nitrophenol			1.67	1.376		mg/Kg		83	30 - 130	7	30
3 & 4 Methylphenol			1.67	1.408		mg/Kg		84	30 - 130	12	30
3,3'-Dichlorobenzidine			1.67	1.513		mg/Kg		91	40 - 140	16	30
3-Nitroaniline			1.67	0.9309		mg/Kg		56	40 - 140	19	30
4,6-Dinitro-2-methylphenol			1.67	1.497		mg/Kg		90	30 - 130	9	30
4-Bromophenyl phenyl ether			1.67	1.456		mg/Kg		87	40 - 140	10	30
4-Chloro-3-methylphenol			1.67	1.294		mg/Kg		78	30 - 130	9	30
4-Chloroaniline			1.67	0.6785		mg/Kg		41	40 - 140	1	30
4-Chlorophenyl phenyl ether			1.67	1.389		mg/Kg		83	40 - 140	9	30
4-Nitroaniline			1.67	1.373		mg/Kg		82	40 - 140	3	30
4-Nitrophenol			1.67	1.449		mg/Kg		87	30 - 130	9	30
Acenaphthene			1.67	1.323		mg/Kg		79	40 - 140	10	30
Acenaphthylene			1.67	1.291		mg/Kg		77	40 - 140	9	30
Acetophenone			1.67	1.380		mg/Kg		83	40 - 140	6	30
Aniline			1.67	0.7099		mg/Kg		43	40 - 140	15	30
Anthracene			1.67	1.663		mg/Kg		100	40 - 140	10	30
Azobenzene/Diphenyldiazene			1.67	1.325		mg/Kg		80	40 - 140	7	30
Benzidine			1.67	0.3217	J *- *1	mg/Kg		19	40 - 140	31	30
Benzo[a]anthracene			1.67	1.648		mg/Kg		99	40 - 140	11	30
Benzo[a]pyrene			1.67	1.469		mg/Kg		88	40 - 140	10	30
Benzo[b]fluoranthene			1.67	1.541		mg/Kg		92	40 - 140	15	30
Benzo[g,h,i]perylene			1.67	1.489		mg/Kg		89	40 - 140	8	30
Benzo[k]fluoranthene			1.67	1.470		mg/Kg		88	40 - 140	6	30
Benzoic acid			1.67	0.9087		mg/Kg		55	30 - 130	28	30
Benzyl alcohol			1.67	1.021		mg/Kg		61	40 - 140	15	30
Bis(2-chloroethoxy)methane			1.67	1.238		mg/Kg		74	40 - 140	8	30
Bis(2-chloroethyl)ether			1.67	1.196		mg/Kg		72	40 - 140	13	30
bis (2-chloroisopropyl) ether			1.67	1.112		mg/Kg		67	40 - 140	8	30
Bis(2-ethylhexyl) phthalate			1.67	1.659		mg/Kg		100	40 - 140	10	30
Butyl benzyl phthalate			1.67	1.541		mg/Kg		92	40 - 140	7	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20217/3-A
Matrix: Solid
Analysis Batch: 20317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20217

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbazole			1.67	1.522		mg/Kg		91	40 - 140	7	30
Chrysene			1.67	1.656		mg/Kg		99	40 - 140	8	30
Dibenz(a,h)anthracene			1.67	1.391		mg/Kg		83	40 - 140	8	30
Dibenzofuran			1.67	1.432		mg/Kg		86	40 - 140	10	30
Diethyl phthalate			1.67	1.438		mg/Kg		86	40 - 140	8	30
Dimethyl phthalate			1.67	1.549		mg/Kg		93	40 - 140	11	30
Di-n-butyl phthalate			1.67	1.680		mg/Kg		101	40 - 140	10	30
Di-n-octyl phthalate			1.67	1.662		mg/Kg		100	40 - 140	10	30
Fluoranthene			1.67	1.619		mg/Kg		97	40 - 140	11	30
Fluorene			1.67	1.334		mg/Kg		80	40 - 140	11	30
Hexachlorobenzene			1.67	1.483		mg/Kg		89	40 - 140	7	30
Hexachlorobutadiene			1.67	1.204		mg/Kg		72	40 - 140	5	30
Hexachlorocyclopentadiene			1.67	1.478		mg/Kg		89	40 - 140	7	30
Hexachloroethane			1.67	1.291		mg/Kg		77	40 - 140	7	30
Indeno[1,2,3-cd]pyrene			1.67	1.371		mg/Kg		82	40 - 140	7	30
Isophorone			1.67	1.073		mg/Kg		64	40 - 140	5	30
Naphthalene			1.67	1.261		mg/Kg		76	40 - 140	7	30
Nitrobenzene			1.67	1.358		mg/Kg		82	40 - 140	8	30
N-Nitrosodimethylamine			1.67	1.023		mg/Kg		61	40 - 140	6	30
N-Nitrosodi-n-propylamine			1.67	1.248		mg/Kg		75	40 - 140	9	30
N-Nitrosodiphenylamine			1.67	1.510		mg/Kg		91	40 - 140	8	30
Pentachloronitrobenzene			1.67	1.180		mg/Kg		71	40 - 140	7	30
Pentachlorophenol			1.67	1.263		mg/Kg		76	30 - 130	8	30
Phenanthrene			1.67	1.476		mg/Kg		89	40 - 140	10	30
Phenol			1.67	1.349		mg/Kg		81	40 - 140	12	30
Pyrene			1.67	1.637		mg/Kg		98	40 - 140	9	30
Pyridine			1.67	0.8508		mg/Kg		51	40 - 140	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*91*		*15 - 110*
Nitrobenzene-d5 (Surr)	*78*		*30 - 130*
Phenol-d5 (Surr)	*79*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*
Terphenyl-d14	*80*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-660132/1-A
Matrix: Solid
Analysis Batch: 660138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 660132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
Naphthalene	0.03812	J	0.0500	0.0340	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: MB 480-660132/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660138 **Prep Batch: 660132**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0500	0.0100	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
C9-C10 Aromatics	0.04914	J	0.250	0.0350	mg/Kg		03/01/23 07:14	03/01/23 08:34	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/01/23 07:14	03/01/23 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/01/23 07:14*	*03/01/23 08:34*	*1*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/01/23 07:14*	*03/01/23 08:34*	*1*

Lab Sample ID: LCS 480-660132/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660138 **Prep Batch: 660132**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.50	2.473		mg/Kg		99	70 - 130
Ethylbenzene	2.50	2.500		mg/Kg		100	70 - 130
Methyl tert-butyl ether	2.50	2.282		mg/Kg		91	70 - 130
m,p-Xylene	5.00	4.989		mg/Kg		100	70 - 130
Naphthalene	2.50	2.260		mg/Kg		90	70 - 130
o-Xylene	2.50	2.486		mg/Kg		99	70 - 130
Toluene	2.50	2.488		mg/Kg		100	70 - 130
C5-C8 Aliphatics (unadjusted)	7.50	7.742		mg/Kg		103	70 - 130
C9-C10 Aromatics	2.50	2.447		mg/Kg		98	70 - 130
C9-C12 Aliphatics (unadjusted)	7.50	7.407		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-660132/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 660138 **Prep Batch: 660132**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	2.50	2.456		mg/Kg		98	70 - 130	1	25
Ethylbenzene	2.50	2.461		mg/Kg		98	70 - 130	2	25
Methyl tert-butyl ether	2.50	2.257		mg/Kg		90	70 - 130	1	25
m,p-Xylene	5.00	4.999		mg/Kg		100	70 - 130	0	25
Naphthalene	2.50	2.457		mg/Kg		98	70 - 130	8	25
o-Xylene	2.50	2.469		mg/Kg		99	70 - 130	1	25
Toluene	2.50	2.471		mg/Kg		99	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)	7.50	7.641		mg/Kg		102	70 - 130	1	25
C9-C10 Aromatics	2.50	2.448		mg/Kg		98	70 - 130	0	25
C9-C12 Aliphatics (unadjusted)	7.50	7.389		mg/Kg		99	70 - 130	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20161/1-A
Matrix: Solid
Analysis Batch: 20220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		02/28/23 15:09	03/02/23 17:59	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		02/28/23 15:09	03/02/23 17:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*02/28/23 15:09*	*03/02/23 17:59*	*1*

Lab Sample ID: LCS 620-20161/2-A
Matrix: Solid
Analysis Batch: 20220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20161

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1527		mg/Kg		92	40 - 140		
PCB-1016			0.167	0.1511		mg/Kg		91	40 - 140		
PCB-1260			0.167	0.1574		mg/Kg		94	40 - 140		
PCB-1260			0.167	0.1548		mg/Kg		93	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*30 - 150*
Tetrachloro-m-xylene	*85*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*

Lab Sample ID: LCSD 620-20161/3-A
Matrix: Solid
Analysis Batch: 20220

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20161

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1505		mg/Kg		90	40 - 140	1	30
PCB-1016			0.167	0.1452		mg/Kg		87	40 - 140	4	30
PCB-1260			0.167	0.1532		mg/Kg		92	40 - 140	3	30
PCB-1260			0.167	0.1593		mg/Kg		96	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*30 - 150*
Tetrachloro-m-xylene	*83*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-20162/1-A
Matrix: Solid
Analysis Batch: 20222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20162

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		02/28/23 15:12	03/02/23 22:29	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		02/28/23 15:12	03/02/23 22:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*
Tetrachloro-m-xylene	*87*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*02/28/23 15:12*	*03/02/23 22:29*	*1*

Lab Sample ID: LCS 620-20162/2-A
Matrix: Solid
Analysis Batch: 20222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20162

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1461		mg/Kg		88	40 - 140		
PCB-1016			0.167	0.1524		mg/Kg		91	40 - 140		
PCB-1260			0.167	0.1575		mg/Kg		94	40 - 140		
PCB-1260			0.167	0.1449		mg/Kg		87	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*30 - 150*
Tetrachloro-m-xylene	*87*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*30 - 150*

Lab Sample ID: LCSD 620-20162/3-A
Matrix: Solid
Analysis Batch: 20222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20162

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1495		mg/Kg		90	40 - 140	2	30
PCB-1016			0.167	0.1522		mg/Kg		91	40 - 140	0	30
PCB-1260			0.167	0.1493		mg/Kg		90	40 - 140	5	30
PCB-1260			0.167	0.1533		mg/Kg		92	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*30 - 150*
Tetrachloro-m-xylene	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-20272/1-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/03/23 15:24	03/06/23 15:14	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/03/23 15:24	03/06/23 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*	*03/03/23 15:24*	*03/06/23 15:14*	*1*

Lab Sample ID: LCS 620-20272/2-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20272

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1409		mg/Kg		85	40 - 140		
PCB-1016			0.167	0.1463		mg/Kg		88	40 - 140		
PCB-1260			0.167	0.1497		mg/Kg		90	40 - 140		
PCB-1260			0.167	0.1415		mg/Kg		85	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*83*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*

Lab Sample ID: LCSD 620-20272/3-A
Matrix: Solid
Analysis Batch: 20289

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20272

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1247		mg/Kg		75	40 - 140	12	30
PCB-1016			0.167	0.1160		mg/Kg		70	40 - 140	23	30
PCB-1260			0.167	0.1238		mg/Kg		74	40 - 140	19	30
PCB-1260			0.167	0.1250		mg/Kg		75	40 - 140	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*30 - 150*
Tetrachloro-m-xylene	*66*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-349094/1-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
HFPODA	ND		2.00	1.00	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
DONA	ND		3.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/01/23 10:57	03/11/23 01:33	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*112*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
M2-8:2 FTS	*116*		*15 - 200*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
M2-6:2 FTS	*112*		*10 - 200*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C5 PFHxA	*120*		*10 - 174*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C4 PFHpA	*129*		*10 - 178*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C8 PFOA	*127*		*26 - 159*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C9 PFNA	*122*		*26 - 165*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C6 PFDA	*122*		*26 - 161*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C7 PFUnA	*129*		*12 - 173*	*03/01/23 10:57*	*03/11/23 01:33*	*1*
13C2-PFDoDA	*129*		*11 - 166*	*03/01/23 10:57*	*03/11/23 01:33*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-349094/1-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349094

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	132		10 - 169	03/01/23 10:57	03/11/23 01:33	1
13C3 PFBS	122		27 - 179	03/01/23 10:57	03/11/23 01:33	1
13C3 PFHxS	122		24 - 171	03/01/23 10:57	03/11/23 01:33	1
13C8 PFOS	119		41 - 154	03/01/23 10:57	03/11/23 01:33	1
d3-NMeFOSAA	101		10 - 178	03/01/23 10:57	03/11/23 01:33	1
d5-NEtFOSAA	113		10 - 193	03/01/23 10:57	03/11/23 01:33	1
13C8 FOSA	66		14 - 163	03/01/23 10:57	03/11/23 01:33	1
13C4 PFBA	106		28 - 153	03/01/23 10:57	03/11/23 01:33	1
13C5 PFPeA	114		24 - 161	03/01/23 10:57	03/11/23 01:33	1
d7-N-MeFOSE-M	65		10 - 179	03/01/23 10:57	03/11/23 01:33	1
d3-NMePFOSA	15		10 - 175	03/01/23 10:57	03/11/23 01:33	1
d9-N-EtFOSE-M	73		10 - 185	03/01/23 10:57	03/11/23 01:33	1
d5-NEtPFOSA	14		10 - 180	03/01/23 10:57	03/11/23 01:33	1
13C3 HFPO-DA	118		10 - 169	03/01/23 10:57	03/11/23 01:33	1

Lab Sample ID: LCS 410-349094/2-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	20.49		ug/Kg		82	59 - 132
Perfluoroheptanoic acid	25.0	21.62		ug/Kg		86	59 - 137
Perfluorooctanoic acid	25.0	19.35		ug/Kg		77	59 - 131
Perfluorononanoic acid	25.0	22.03		ug/Kg		88	61 - 134
Perfluorodecanoic acid	25.0	18.67		ug/Kg		75	56 - 133
Perfluorotridecanoic acid	25.0	21.79		ug/Kg		87	53 - 143
Perfluorotetradecanoic acid	25.0	19.98		ug/Kg		80	62 - 134
Perfluorobutanesulfonic acid	22.1	18.70		ug/Kg		85	54 - 130
Perfluorohexanesulfonic acid	22.8	18.80		ug/Kg		82	59 - 129
Perfluorooctanesulfonic acid	23.1	19.24		ug/Kg		83	61 - 126
NEtFOSAA	25.0	23.78		ug/Kg		95	57 - 127
NMeFOSAA	25.0	23.00		ug/Kg		92	60 - 134
10:2 FTS	24.1	20.43		ug/Kg		85	46 - 143
Perfluoropentanesulfonic acid	23.5	21.32		ug/Kg		91	57 - 133
Perfluoroheptanesulfonic acid	23.8	20.85		ug/Kg		88	59 - 132
Perfluorononanesulfonic acid	24.0	20.05		ug/Kg		84	60 - 132
Perfluorodecanesulfonic acid	24.1	21.93		ug/Kg		91	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.42		ug/Kg		84	38 - 145
Perfluorooctanesulfonamide	25.0	23.45		ug/Kg		94	47 - 149
Perfluorohexadecanoic acid	25.0	20.96		ug/Kg		84	38 - 147
Perfluorooctadecanoic acid	25.0	22.41		ug/Kg		90	16 - 160
Perfluorobutanoic acid	25.0	19.60		ug/Kg		78	60 - 128
Perfluoropentanoic acid	25.0	20.27		ug/Kg		81	58 - 134
NMeFOSE	25.0	22.70		ug/Kg		91	60 - 130
NMeFOSA	25.0	23.68		ug/Kg		95	60 - 129
NEtFOSE	25.0	22.04		ug/Kg		88	60 - 126
NEtFOSA	25.0	22.91		ug/Kg		92	60 - 123
HFPODA	25.0	20.91		ug/Kg		84	49 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-349094/2-B
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	23.6	20.05		ug/Kg		85	57 - 137
9Cl-PF3ONS	23.3	20.11		ug/Kg		86	62 - 130
11Cl-PF3OUdS	23.3	19.42		ug/Kg		84	55 - 135
Perfluorododecanoic acid	25.0	21.45		ug/Kg		86	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	21.64		ug/Kg		93	58 - 131
Perfluoroundecanoic acid	25.0	20.57		ug/Kg		82	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.66		ug/Kg		96	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	22.38		ug/Kg		93	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*116*		*10 - 200*
M2-8:2 FTS	*117*		*15 - 200*
M2-6:2 FTS	*112*		*10 - 200*
13C5 PFHxA	*122*		*10 - 174*
13C4 PFHpA	*117*		*10 - 178*
13C8 PFOA	*125*		*26 - 159*
13C9 PFNA	*125*		*26 - 165*
13C6 PFDA	*124*		*26 - 161*
13C7 PFUnA	*122*		*12 - 173*
13C2-PFDoDA	*114*		*11 - 166*
13C2 PFTeDA	*128*		*10 - 169*
13C3 PFBS	*122*		*27 - 179*
13C3 PFHxS	*119*		*24 - 171*
13C8 PFOS	*122*		*41 - 154*
d3-NMeFOSAA	*107*		*10 - 178*
d5-NEtFOSAA	*109*		*10 - 193*
13C8 FOSA	*60*		*14 - 163*
13C4 PFBA	*110*		*28 - 153*
13C5 PFPeA	*120*		*24 - 161*
d7-N-MeFOSE-M	*65*		*10 - 179*
d3-NMePFOSA	*12*		*10 - 175*
d9-N-EtFOSE-M	*70*		*10 - 185*
d5-NEtPFOSA	*9*	**5-*	*10 - 180*
13C3 HFPO-DA	*108*		*10 - 169*

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		30.8	26.52		ug/Kg	☼	86	59 - 132
Perfluoroheptanoic acid	ND		30.8	26.76		ug/Kg	☼	87	59 - 137
Perfluorooctanoic acid	ND		30.8	25.70		ug/Kg	☼	83	59 - 131
Perfluorononanoic acid	ND		30.8	27.23		ug/Kg	☼	88	61 - 134
Perfluorodecanoic acid	ND		30.8	25.54		ug/Kg	☼	83	56 - 133
Perfluorotridecanoic acid	ND		30.8	26.59		ug/Kg	☼	86	53 - 143
Perfluorotetradecanoic acid	ND		30.8	25.04		ug/Kg	☼	81	62 - 134
Perfluorobutanesulfonic acid	ND		27.3	22.99		ug/Kg	☼	84	54 - 130
Perfluorohexanesulfonic acid	ND		28.1	23.13		ug/Kg	☼	82	59 - 129

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid	ND		28.5	23.51		ug/Kg	☼	82	61 - 126
NEtFOSAA	ND		30.8	26.97		ug/Kg	☼	87	57 - 127
NMeFOSAA	ND		30.8	28.70		ug/Kg	☼	93	60 - 134
10:2 FTS	ND		29.7	28.02		ug/Kg	☼	94	46 - 143
Perfluoropentanesulfonic acid	ND		28.9	26.31		ug/Kg	☼	91	57 - 133
Perfluoroheptanesulfonic acid	ND		29.4	25.45		ug/Kg	☼	87	59 - 132
Perfluorononanesulfonic acid	ND		29.6	25.26		ug/Kg	☼	85	60 - 132
Perfluorodecanesulfonic acid	ND		29.7	25.32		ug/Kg	☼	85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		29.9	24.80		ug/Kg	☼	83	38 - 145
Perfluorooctanesulfonamide	ND		30.8	27.85		ug/Kg	☼	90	47 - 149
Perfluorohexadecanoic acid	ND		30.8	24.93		ug/Kg	☼	81	38 - 147
Perfluorooctadecanoic acid	ND		30.8	26.06		ug/Kg	☼	84	16 - 160
Perfluorobutanoic acid	ND		30.8	24.46		ug/Kg	☼	79	60 - 128
Perfluoropentanoic acid	ND		30.8	25.17		ug/Kg	☼	82	58 - 134
NMeFOSE	ND		30.8	29.43		ug/Kg	☼	95	60 - 130
NMeFOSA	ND		30.8	27.98		ug/Kg	☼	91	60 - 129
NEtFOSE	ND		30.8	27.76		ug/Kg	☼	90	60 - 126
NEtFOSA	ND		30.8	27.92		ug/Kg	☼	91	60 - 123
HFPODA	ND		30.8	26.59		ug/Kg	☼	86	49 - 135
DONA	ND		29.2	23.79		ug/Kg	☼	82	57 - 137
9Cl-PF3ONS	ND		28.7	24.84		ug/Kg	☼	87	62 - 130
11Cl-PF3OUdS	ND		28.7	24.88		ug/Kg	☼	87	55 - 135
Perfluorododecanoic acid	ND		30.8	23.74		ug/Kg	☼	77	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		28.8	27.30		ug/Kg	☼	95	58 - 131
Perfluoroundecanoic acid	ND		30.8	26.83		ug/Kg	☼	87	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		29.2	25.52		ug/Kg	☼	87	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		29.6	27.38		ug/Kg	☼	93	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*83*		*10 - 200*
M2-8:2 FTS	*92*		*15 - 200*
M2-6:2 FTS	*86*		*10 - 200*
13C5 PFHxA	*96*		*10 - 174*
13C4 PFHpA	*94*		*10 - 178*
13C8 PFOA	*94*		*26 - 159*
13C9 PFNA	*94*		*26 - 165*
13C6 PFDA	*86*		*26 - 161*
13C7 PFUnA	*102*		*12 - 173*
13C2-PFDoDA	*92*		*11 - 166*
13C2 PFTeDA	*100*		*10 - 169*
13C3 PFBS	*101*		*27 - 179*
13C3 PFHxS	*108*		*24 - 171*
13C8 PFOS	*103*		*41 - 154*
d3-NMeFOSAA	*33*		*10 - 178*
d5-NEtFOSAA	*44*		*10 - 193*
13C8 FOSA	*101*		*14 - 163*
13C4 PFBA	*91*		*28 - 153*
13C5 PFPeA	*92*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d7-N-MeFOSE-M	94		10 - 179
d3-NMePFOSA	76		10 - 175
d9-N-EtFOSE-M	102		10 - 185
d5-NEtPFOSA	78		10 - 180
13C3 HFPO-DA	97		10 - 169

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 352453

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		30.2	25.44		ug/Kg	☼	84	59 - 132	4	30
Perfluoroheptanoic acid	ND		30.2	25.92		ug/Kg	☼	86	59 - 137	3	30
Perfluorooctanoic acid	ND		30.2	24.70		ug/Kg	☼	82	59 - 131	4	30
Perfluorononanoic acid	ND		30.2	25.44		ug/Kg	☼	84	61 - 134	7	30
Perfluorodecanoic acid	ND		30.2	24.73		ug/Kg	☼	82	56 - 133	3	30
Perfluorotridecanoic acid	ND		30.2	26.61		ug/Kg	☼	88	53 - 143	0	30
Perfluorotetradecanoic acid	ND		30.2	25.13		ug/Kg	☼	83	62 - 134	0	30
Perfluorobutanesulfonic acid	ND		26.8	22.55		ug/Kg	☼	84	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		27.6	23.26		ug/Kg	☼	84	59 - 129	1	30
Perfluorooctanesulfonic acid	ND		28.0	24.02		ug/Kg	☼	86	61 - 126	2	30
NEtFOSAA	ND		30.2	25.48		ug/Kg	☼	84	57 - 127	6	30
NMeFOSAA	ND		30.2	26.75		ug/Kg	☼	88	60 - 134	7	30
10:2 FTS	ND		29.2	26.55		ug/Kg	☼	91	46 - 143	5	30
Perfluoropentanesulfonic acid	ND		28.4	25.19		ug/Kg	☼	89	57 - 133	4	30
Perfluoroheptanesulfonic acid	ND		28.8	25.42		ug/Kg	☼	88	59 - 132	0	30
Perfluorononanesulfonic acid	ND		29.0	24.93		ug/Kg	☼	86	60 - 132	1	30
Perfluorodecanesulfonic acid	ND		29.2	25.93		ug/Kg	☼	89	57 - 132	2	30
Perfluorododecanesulfonic acid (PFDoS)	ND		29.3	24.61		ug/Kg	☼	84	38 - 145	1	30
Perfluorooctanesulfonamide	ND		30.2	27.91		ug/Kg	☼	92	47 - 149	0	30
Perfluorohexadecanoic acid	ND		30.2	24.10		ug/Kg	☼	80	38 - 147	3	30
Perfluorooctadecanoic acid	ND		30.2	25.44		ug/Kg	☼	84	16 - 160	2	30
Perfluorobutanoic acid	ND		30.2	24.51		ug/Kg	☼	81	60 - 128	0	30
Perfluoropentanoic acid	ND		30.2	25.72		ug/Kg	☼	85	58 - 134	2	30
NMeFOSE	ND		30.2	27.89		ug/Kg	☼	92	60 - 130	5	30
NMeFOSA	ND		30.2	28.88		ug/Kg	☼	95	60 - 129	3	30
NEtFOSE	ND		30.2	26.29		ug/Kg	☼	87	60 - 126	5	30
NEtFOSA	ND		30.2	29.48		ug/Kg	☼	97	60 - 123	5	30
HFPODA	ND		30.2	26.65		ug/Kg	☼	88	49 - 135	0	30
DONA	ND		28.6	22.90		ug/Kg	☼	80	57 - 137	4	30
9Cl-PF3ONS	ND		28.1	24.28		ug/Kg	☼	86	62 - 130	2	30
11Cl-PF3OUdS	ND		28.1	24.05		ug/Kg	☼	86	55 - 135	3	30
Perfluorododecanoic acid	ND		30.2	24.09		ug/Kg	☼	80	60 - 135	1	30
4:2 Fluorotelomer sulfonic acid	ND		28.3	26.00		ug/Kg	☼	92	58 - 131	5	30
Perfluoroundecanoic acid	ND		30.2	26.73		ug/Kg	☼	88	60 - 134	0	30
6:2 Fluorotelomer sulfonic acid	ND		28.7	25.67		ug/Kg	☼	90	59 - 135	1	30
8:2 Fluorotelomer sulfonic acid	ND		29.0	26.61		ug/Kg	☼	92	55 - 133	3	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	105		10 - 200
M2-8:2 FTS	122		15 - 200
M2-6:2 FTS	109		10 - 200
13C5 PFHxA	116		10 - 174
13C4 PFHpA	115		10 - 178
13C8 PFOA	116		26 - 159
13C9 PFNA	116		26 - 165
13C6 PFDA	113		26 - 161
13C7 PFUnA	125		12 - 173
13C2-PFDoDA	117		11 - 166
13C2 PFTeDA	131		10 - 169
13C3 PFBS	122		27 - 179
13C3 PFHxS	124		24 - 171
13C8 PFOS	119		41 - 154
d3-NMeFOSAA	49		10 - 178
d5-NEtFOSAA	72		10 - 193
13C8 FOSA	105		14 - 163
13C4 PFBA	111		28 - 153
13C5 PFPeA	110		24 - 161
d7-N-MeFOSE-M	104		10 - 179
d3-NMePFOSA	78		10 - 175
d9-N-EtFOSE-M	114		10 - 185
d5-NEtPFOSA	79		10 - 180
13C3 HFPO-DA	110		10 - 169

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-349123/1-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Arsenic	ND		3.00	1.40	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Barium	ND		0.500	0.150	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Beryllium	ND		0.500	0.100	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Cadmium	ND		0.500	0.100	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Chromium	0.3952	J	1.50	0.350	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Lead	ND		1.50	0.600	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Nickel	ND		1.00	0.260	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Selenium	ND		5.00	1.50	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Thallium	ND		3.00	1.30	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Vanadium	ND		1.00	0.430	mg/Kg		03/01/23 11:49	03/03/23 01:04	1
Zinc	ND		2.00	0.800	mg/Kg		03/01/23 11:49	03/03/23 01:04	1

Lab Sample ID: LCS 410-349123/2-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.46		mg/Kg		105	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-349123/2-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	50.0	50.53		mg/Kg		101	80 - 120
Barium	50.0	52.94		mg/Kg		106	80 - 120
Beryllium	5.00	5.644		mg/Kg		113	80 - 120
Cadmium	5.00	5.408		mg/Kg		108	80 - 120
Chromium	50.0	50.10		mg/Kg		100	80 - 120
Lead	5.00	5.842		mg/Kg		117	80 - 120
Nickel	50.0	55.49		mg/Kg		111	80 - 120
Selenium	10.0	10.71		mg/Kg		107	80 - 120
Silver	5.00	5.563	^3+	mg/Kg		111	80 - 120
Thallium	10.0	10.86		mg/Kg		109	80 - 120
Vanadium	50.0	51.89		mg/Kg		104	80 - 120
Zinc	50.0	52.25		mg/Kg		104	80 - 120

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	8.42	5.745	F1	mg/Kg	☼	68	75 - 125
Arsenic	3.74		42.1	43.36		mg/Kg	☼	94	75 - 125
Barium	29.4		42.1	71.02		mg/Kg	☼	99	75 - 125
Beryllium	0.872		4.21	5.485		mg/Kg	☼	110	75 - 125
Cadmium	ND		4.21	4.216		mg/Kg	☼	100	75 - 125
Chromium	8.75	B	42.1	49.39		mg/Kg	☼	97	75 - 125
Lead	12.0	F1	4.21	13.14	F1	mg/Kg	☼	28	75 - 125
Nickel	2.70		42.1	46.00		mg/Kg	☼	103	75 - 125
Selenium	ND		8.42	8.452		mg/Kg	☼	100	75 - 125
Silver	ND	^3+	4.21	4.582	^3+	mg/Kg	☼	109	75 - 125
Vanadium	15.9		42.1	59.40		mg/Kg	☼	103	75 - 125
Zinc	19.1		42.1	55.44		mg/Kg	☼	86	75 - 125

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		8.42	8.133		mg/Kg	☼	97	75 - 125

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	8.97	6.731		mg/Kg	☼	75	75 - 125	16	30
Arsenic	3.74		44.8	46.61		mg/Kg	☼	96	75 - 125	7	30
Barium	29.4		44.8	74.68		mg/Kg	☼	101	75 - 125	5	30
Beryllium	0.872		4.48	5.828		mg/Kg	☼	111	75 - 125	6	30
Cadmium	ND		4.48	4.525		mg/Kg	☼	101	75 - 125	7	30
Chromium	8.75	B	44.8	53.31		mg/Kg	☼	99	75 - 125	8	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	12.0	F1	4.48	13.18	F1	mg/Kg	☼	27	75 - 125	0	30
Nickel	2.70		44.8	49.11		mg/Kg	☼	104	75 - 125	7	30
Selenium	ND		8.97	9.478		mg/Kg	☼	106	75 - 125	11	30
Silver	ND	^3+	4.48	4.823	^3+	mg/Kg	☼	108	75 - 125	5	30
Vanadium	15.9		44.8	63.60		mg/Kg	☼	106	75 - 125	7	30
Zinc	19.1		44.8	57.75		mg/Kg	☼	86	75 - 125	4	30

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	ND		8.97	9.946		mg/Kg	☼	111	75 - 125	20	30

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Antimony	ND	F1		ND		mg/Kg	☼			NC	30
Arsenic	3.74			3.436		mg/Kg	☼			9	30
Barium	29.4			27.56		mg/Kg	☼			7	30
Beryllium	0.872			0.9343		mg/Kg	☼			7	30
Cadmium	ND			ND		mg/Kg	☼			NC	30
Chromium	8.75	B		9.282		mg/Kg	☼			6	30
Lead	12.0	F1		8.104	F3	mg/Kg	☼			38	30
Nickel	2.70			2.847		mg/Kg	☼			5	30
Selenium	ND			ND		mg/Kg	☼			NC	30
Silver	ND	^3+		ND	^3+	mg/Kg	☼			NC	30
Vanadium	15.9			16.70		mg/Kg	☼			5	30
Zinc	19.1			12.66	F3	mg/Kg	☼			40	30

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349123

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Thallium	ND			ND		mg/Kg	☼			NC	30

Lab Sample ID: MB 410-349150/1-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Arsenic	ND		3.00	1.40	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Barium	ND		0.500	0.150	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Beryllium	0.1079	J	0.500	0.100	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Cadmium	ND		0.500	0.100	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Chromium	ND		1.50	0.350	mg/Kg		03/01/23 12:43	03/03/23 07:13	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-349150/1-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		1.00	0.260	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Selenium	ND		5.00	1.50	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Thallium	ND		3.00	1.30	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Vanadium	ND		1.00	0.430	mg/Kg		03/01/23 12:43	03/03/23 07:13	1
Zinc	ND		2.00	0.800	mg/Kg		03/01/23 12:43	03/03/23 07:13	1

Lab Sample ID: MB 410-349150/1-A
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349150

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.50	0.600	mg/Kg		03/01/23 12:43	03/06/23 15:23	1
Silver	ND		1.00	0.400	mg/Kg		03/01/23 12:43	03/06/23 15:23	1

Lab Sample ID: LCS 410-349150/2-A
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.63		mg/Kg		106	80 - 120
Arsenic	50.0	51.35		mg/Kg		103	80 - 120
Barium	50.0	53.48		mg/Kg		107	80 - 120
Beryllium	5.00	5.702		mg/Kg		114	80 - 120
Cadmium	5.00	5.494		mg/Kg		110	80 - 120
Chromium	50.0	49.28		mg/Kg		99	80 - 120
Nickel	50.0	56.62		mg/Kg		113	80 - 120
Selenium	10.0	10.91		mg/Kg		109	80 - 120
Thallium	10.0	11.25		mg/Kg		112	80 - 120
Vanadium	50.0	51.89		mg/Kg		104	80 - 120
Zinc	50.0	53.33		mg/Kg		107	80 - 120

Lab Sample ID: LCS 410-349150/2-A
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	5.00	4.600		mg/Kg		92	80 - 120
Silver	5.00	5.003		mg/Kg		100	80 - 120

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F2	9.61	7.291		mg/Kg	☼	76	75 - 125
Arsenic	6.17		48.0	52.01		mg/Kg	☼	95	75 - 125
Barium	65.8	F2 F1	48.0	130.8	F1	mg/Kg	☼	135	75 - 125
Beryllium	1.21	B	4.80	6.602		mg/Kg	☼	112	75 - 125
Cadmium	ND		4.80	4.674		mg/Kg	☼	97	75 - 125
Chromium	15.8	F1	48.0	62.51		mg/Kg	☼	97	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	9.74		48.0	59.56		mg/Kg	☼	104	75 - 125
Selenium	ND		9.61	9.421		mg/Kg	☼	98	75 - 125
Silver	ND	^3+	4.80	5.223	^3+	mg/Kg	☼	109	75 - 125
Vanadium	27.7	F1	48.0	80.41		mg/Kg	☼	110	75 - 125
Zinc	37.9	F1	48.0	89.81		mg/Kg	☼	108	75 - 125

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	6.33	F2 F1	4.80	11.73		mg/Kg	☼	113	75 - 125
Thallium	ND		9.61	9.876		mg/Kg	☼	103	75 - 125

Lab Sample ID: 620-10021-5 MSD
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F2	10.4	9.946	F2	mg/Kg	☼	96	75 - 125	31	30
Arsenic	6.17		51.8	53.40		mg/Kg	☼	91	75 - 125	3	30
Barium	65.8	F2 F1	51.8	79.75	F2 F1	mg/Kg	☼	27	75 - 125	49	30
Beryllium	1.21	B	5.18	6.086		mg/Kg	☼	94	75 - 125	8	30
Cadmium	ND		5.18	5.363		mg/Kg	☼	103	75 - 125	14	30
Chromium	15.8	F1	51.8	54.44	F1	mg/Kg	☼	74	75 - 125	14	30
Nickel	9.74		51.8	58.44		mg/Kg	☼	94	75 - 125	2	30
Selenium	ND		10.4	10.17		mg/Kg	☼	98	75 - 125	8	30
Silver	ND	^3+	5.18	5.410	^3+	mg/Kg	☼	104	75 - 125	4	30
Vanadium	27.7	F1	51.8	62.03	F1	mg/Kg	☼	66	75 - 125	26	30
Zinc	37.9	F1	51.8	70.15	F1	mg/Kg	☼	62	75 - 125	25	30

Lab Sample ID: 620-10021-5 MSD
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	6.33	F2 F1	5.18	7.721	F2 F1	mg/Kg	☼	27	75 - 125	41	30
Thallium	ND		10.4	10.20		mg/Kg	☼	98	75 - 125	3	30

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND	F2	ND		mg/Kg	☼	NC	30
Arsenic	6.17		4.793		mg/Kg	☼	25	30
Barium	65.8	F2 F1	49.30		mg/Kg	☼	29	30
Beryllium	1.21	B	0.9616		mg/Kg	☼	23	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	15.8	F1	12.79		mg/Kg	☼	21	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 349904

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nickel	9.74		8.087		mg/Kg	☼	19	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND	^3+	ND	^3+	mg/Kg	☼	NC	30
Vanadium	27.7	F1	21.65		mg/Kg	☼	25	30
Zinc	37.9	F1	31.26		mg/Kg	☼	19	30

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 350833

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349150

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	6.33	F2 F1	5.355		mg/Kg	☼	17	30
Thallium	ND		1.145	J	mg/Kg	☼	NC	30

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-349462/1-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/02/23 08:13	03/02/23 13:33	1

Lab Sample ID: LCS 410-349462/2-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.09996		mg/Kg		100	80 - 120

Lab Sample ID: 620-10021-15 MS
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0405	J	0.208	0.2877		mg/Kg	☼	119	75 - 125

Lab Sample ID: 620-10021-15 MSD
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.0405	J	0.195	0.2694		mg/Kg	☼	118	75 - 125	7	35

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA
Prep Batch: 349462

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0405	J	0.06609	J	mg/Kg	☼	48	50

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-349464/1-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 349464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/02/23 08:18	03/02/23 14:36	1

Lab Sample ID: LCS 410-349464/2-A
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 349464

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.100	0.1049		mg/Kg		105	80 - 120		

Lab Sample ID: 620-10021-5 MS
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349464

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.197	0.2295		mg/Kg	☼	116	75 - 125		

Lab Sample ID: 620-10021-5 MSD
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349464

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.182	0.1966		mg/Kg	☼	108	75 - 125	15	35

Lab Sample ID: 620-10021-5 DU
Matrix: Solid
Analysis Batch: 349684

Client Sample ID: 2023-SB-02-0810'
Prep Type: Total/NA
Prep Batch: 349464

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		mg/Kg	☼			NC	50

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10021-1 DU
Matrix: Solid
Analysis Batch: 20133

Client Sample ID: 2023-SB-02-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.2			8.3	F3	%				38	5
Percent Solids	87.8			91.7		%				4	5

Lab Sample ID: 620-10021-15 DU
Matrix: Solid
Analysis Batch: 20133

Client Sample ID: 2023-MW-01-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	19.8			18.5	F3	%				7	5
Percent Solids	80.2			81.5		%				2	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

GC/MS VOA

Pre Prep Batch: 20132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	Frozen Preserve	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	Frozen Preserve	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	Frozen Preserve	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	Frozen Preserve	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	Frozen Preserve	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	Frozen Preserve	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	Frozen Preserve	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	Frozen Preserve	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	Frozen Preserve	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	Frozen Preserve	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	Frozen Preserve	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	Frozen Preserve	
620-10021-13	2023-FD-01	Total/NA	Solid	Frozen Preserve	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	Frozen Preserve	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	Frozen Preserve	
620-10021-16	Trip Blank	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	5035	20132
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	5035	20132
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	5035	20132
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	5035	20132
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	5035	20132
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	5035	20132
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	5035	20132
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	5035	20132
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	5035	20132
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	5035	20132
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	5035	20132
620-10021-13	2023-FD-01	Total/NA	Solid	5035	20132
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	5035	20132
620-10021-16	Trip Blank	Total/NA	Solid	5035	20132
MB 620-20151/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20151/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20151/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

GC/MS VOA

Analysis Batch: 20152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8260C	20151
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	8260C	20151
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	8260C	20151
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	8260C	20151
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	8260C	20151
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	8260C	20151
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	8260C	20151
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	8260C	20151
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	8260C	20151
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	8260C	20151
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	8260C	20151
620-10021-13	2023-FD-01	Total/NA	Solid	8260C	20151
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	8260C	20151
620-10021-16	Trip Blank	Total/NA	Solid	8260C	20151
MB 620-20151/3-A	Method Blank	Total/NA	Solid	8260C	20151
LCS 620-20151/1-A	Lab Control Sample	Total/NA	Solid	8260C	20151
LCSD 620-20151/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20151

Prep Batch: 20238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	5035	20132
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	5035	20132
MB 620-20238/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	8260C	20238
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	8260C	20238
MB 620-20238/3-A	Method Blank	Total/NA	Solid	8260C	20238
LCS 620-20238/1-A	Lab Control Sample	Total/NA	Solid	8260C	20238
LCSD 620-20238/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20238

GC/MS Semi VOA

Prep Batch: 20217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	3546	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	3546	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	3546	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	3546	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	3546	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	3546	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	3546	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	3546	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	3546	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	3546	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	3546	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	3546	
620-10021-13	2023-FD-01	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 20217 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	3546	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	3546	
MB 620-20217/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20217/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20217/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	8270D	20217
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	8270D	20217
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	8270D	20217
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	8270D	20217
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	8270D	20217
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	8270D	20217
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	8270D	20217
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	8270D	20217
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	8270D	20217
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	8270D	20217
MB 620-20217/1-A	Method Blank	Total/NA	Solid	8270D	20217
LCS 620-20217/2-A	Lab Control Sample	Total/NA	Solid	8270D	20217
LCSD 620-20217/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20217

Analysis Batch: 20349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8270D	20217
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	8270D	20217
620-10021-13	2023-FD-01	Total/NA	Solid	8270D	20217
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	8270D	20217
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	8270D	20217

Analysis Batch: 20386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8270D	20217

GC VOA

Prep Batch: 660132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	5035A_H	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	5035A_H	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	5035A_H	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	5035A_H	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	5035A_H	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	5035A_H	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	5035A_H	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	5035A_H	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	5035A_H	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	5035A_H	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	5035A_H	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	5035A_H	
620-10021-13	2023-FD-01	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 660132 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	5035A_H	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	5035A_H	
MB 480-660132/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-660132/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-660132/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	

Analysis Batch: 660138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	MAVPH	660132
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	MAVPH	660132
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	MAVPH	660132
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	MAVPH	660132
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	MAVPH	660132
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	MAVPH	660132
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	MAVPH	660132
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	MAVPH	660132
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	MAVPH	660132
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	MAVPH	660132
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	MAVPH	660132
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	MAVPH	660132
620-10021-13	2023-FD-01	Total/NA	Solid	MAVPH	660132
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	MAVPH	660132
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	MAVPH	660132
MB 480-660132/1-A	Method Blank	Total/NA	Solid	MAVPH	660132
LCS 480-660132/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	660132
LCSD 480-660132/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	660132

Analysis Batch: 660281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	MA VPH SUM	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	MA VPH SUM	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	MA VPH SUM	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	MA VPH SUM	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	MA VPH SUM	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	MA VPH SUM	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	MA VPH SUM	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	MA VPH SUM	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	MA VPH SUM	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	MA VPH SUM	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	MA VPH SUM	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	MA VPH SUM	
620-10021-13	2023-FD-01	Total/NA	Solid	MA VPH SUM	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	MA VPH SUM	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	MA VPH SUM	

GC Semi VOA

Prep Batch: 20161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	3540C	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	3540C	

GC Semi VOA (Continued)

Prep Batch: 20161 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	3540C	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	3540C	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	3540C	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	3540C	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	3540C	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	3540C	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	3540C	
MB 620-20161/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20161/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20161/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Prep Batch: 20162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	3540C	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	3540C	
620-10021-13	2023-FD-01	Total/NA	Solid	3540C	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	3540C	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	3540C	
MB 620-20162/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20162/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20162/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20161/1-A	Method Blank	Total/NA	Solid	8082	20161
LCS 620-20161/2-A	Lab Control Sample	Total/NA	Solid	8082	20161
LCSD 620-20161/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20161

Analysis Batch: 20222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	8082	20161
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	8082	20161
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	8082	20161
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	8082	20161
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	8082	20161
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	8082	20161
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	8082	20161
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	8082	20161
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	8082	20161
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	8082	20162
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	8082	20162
620-10021-13	2023-FD-01	Total/NA	Solid	8082	20162
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	8082	20162
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	8082	20162
MB 620-20162/1-A	Method Blank	Total/NA	Solid	8082	20162
LCS 620-20162/2-A	Lab Control Sample	Total/NA	Solid	8082	20162
LCSD 620-20162/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20162

Prep Batch: 20272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	3540C	

GC Semi VOA (Continued)

Prep Batch: 20272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20272/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20272/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20272/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	8082	20272
MB 620-20272/1-A	Method Blank	Total/NA	Solid	8082	20272
LCS 620-20272/2-A	Lab Control Sample	Total/NA	Solid	8082	20272
LCSD 620-20272/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20272

LCMS

Prep Batch: 349094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	537 (mod)	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	537 (mod)	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	537 (mod)	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	537 (mod)	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	537 (mod)	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	537 (mod)	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	537 (mod)	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	537 (mod)	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	537 (mod)	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	537 (mod)	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	537 (mod)	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	537 (mod)	
620-10021-13	2023-FD-01	Total/NA	Solid	537 (mod)	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	537 (mod)	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	537 (mod)	
MB 410-349094/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-349094/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	537 (mod)	
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 349172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	Extract Aliquot	349094
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	Extract Aliquot	349094
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	Extract Aliquot	349094
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	Extract Aliquot	349094
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	Extract Aliquot	349094
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	Extract Aliquot	349094
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	Extract Aliquot	349094
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	Extract Aliquot	349094
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	Extract Aliquot	349094
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	Extract Aliquot	349094
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	Extract Aliquot	349094
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	Extract Aliquot	349094
620-10021-13	2023-FD-01	Total/NA	Solid	Extract Aliquot	349094
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	Extract Aliquot	349094

LCMS (Continued)

Cleanup Batch: 349172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	Extract Aliquot	349094
MB 410-349094/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	349094
LCS 410-349094/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	349094
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	Extract Aliquot	349094
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	Extract Aliquot	349094

Analysis Batch: 352453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-13	2023-FD-01	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
MB 410-349094/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	349172
LCS 410-349094/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	EPA 537 (Mod)	349172

Metals

Prep Batch: 349123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	3050B	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	3050B	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	3050B	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	3050B	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	3050B	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	3050B	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	3050B	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	3050B	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	3050B	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	3050B	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	3050B	
620-10021-13	2023-FD-01	Total/NA	Solid	3050B	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	3050B	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	3050B	
MB 410-349123/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-349123/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	3050B	
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	3050B	
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	3050B	

Metals

Prep Batch: 349150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	3050B	
MB 410-349150/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-349150/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	3050B	
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	3050B	
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	3050B	

Prep Batch: 349462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	7471A	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	7471A	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	7471A	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	7471A	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	7471A	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	7471A	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	7471A	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	7471A	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	7471A	
MB 410-349462/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-349462/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	7471A	
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	7471A	
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	7471A	

Prep Batch: 349464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	7471A	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	7471A	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	7471A	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	7471A	
620-10021-13	2023-FD-01	Total/NA	Solid	7471A	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	7471A	
MB 410-349464/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-349464/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	7471A	
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	7471A	
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	7471A	

Analysis Batch: 349684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	7471B	349462
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	7471B	349462
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	7471B	349462
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	7471B	349462
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	7471B	349462
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	7471B	349462
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	7471B	349462
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	7471B	349462
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	7471B	349464
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	7471B	349464

Metals (Continued)

Analysis Batch: 349684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	7471B	349464
620-10021-13	2023-FD-01	Total/NA	Solid	7471B	349464
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	7471B	349464
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	7471B	349462
MB 410-349462/1-A	Method Blank	Total/NA	Solid	7471B	349462
MB 410-349464/1-A	Method Blank	Total/NA	Solid	7471B	349464
LCS 410-349462/2-A	Lab Control Sample	Total/NA	Solid	7471B	349462
LCS 410-349464/2-A	Lab Control Sample	Total/NA	Solid	7471B	349464
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	7471B	349462
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	7471B	349462
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	7471B	349464
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	7471B	349462

Analysis Batch: 349904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	6010D	349123
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	6010D	349123
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	6010D	349123
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	6010D	349123
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	6010D	349123
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	6010D	349123
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	6010D	349123
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	6010D	349123
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	6010D	349123
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	6010D	349123
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	6010D	349123
620-10021-13	2023-FD-01	Total/NA	Solid	6010D	349123
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	6010D	349123
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
MB 410-349123/1-A	Method Blank	Total/NA	Solid	6010D	349123
MB 410-349150/1-A	Method Blank	Total/NA	Solid	6010D	349150
LCS 410-349123/2-A	Lab Control Sample	Total/NA	Solid	6010D	349123
LCS 410-349150/2-A	Lab Control Sample	Total/NA	Solid	6010D	349150
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	6010D	349123

Analysis Batch: 350833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
MB 410-349150/1-A	Method Blank	Total/NA	Solid	6010D	349150
LCS 410-349150/2-A	Lab Control Sample	Total/NA	Solid	6010D	349150
620-10021-5 MS	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-5 MSD	2023-SB-02-0810'	Total/NA	Solid	6010D	349150

Metals (Continued)

Analysis Batch: 350833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-15 MS	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-15 MSD	2023-MW-01-0204'	Total/NA	Solid	6010D	349123
620-10021-5 DU	2023-SB-02-0810'	Total/NA	Solid	6010D	349150
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	6010D	349123

General Chemistry

Analysis Batch: 20133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10021-1	2023-SB-02-0002'	Total/NA	Solid	Moisture	
620-10021-2	2023-SB-02-0204'	Total/NA	Solid	Moisture	
620-10021-3	2023-SB-02-0406'	Total/NA	Solid	Moisture	
620-10021-4	2023-SB-02-0608'	Total/NA	Solid	Moisture	
620-10021-5	2023-SB-02-0810'	Total/NA	Solid	Moisture	
620-10021-6	2023-SB-02-1012'	Total/NA	Solid	Moisture	
620-10021-7	2023-SB-01-0002'	Total/NA	Solid	Moisture	
620-10021-8	2023-SB-01-0204'	Total/NA	Solid	Moisture	
620-10021-9	2023-SB-01-0406'	Total/NA	Solid	Moisture	
620-10021-10	2023-SB-01-0608'	Total/NA	Solid	Moisture	
620-10021-11	2023-SB-01-0810'	Total/NA	Solid	Moisture	
620-10021-12	2023-SB-01-1012'	Total/NA	Solid	Moisture	
620-10021-13	2023-FD-01	Total/NA	Solid	Moisture	
620-10021-14	2023-MW-01-0002'	Total/NA	Solid	Moisture	
620-10021-15	2023-MW-01-0204'	Total/NA	Solid	Moisture	
620-10021-1 DU	2023-SB-02-0002'	Total/NA	Solid	Moisture	
620-10021-15 DU	2023-MW-01-0204'	Total/NA	Solid	Moisture	

Client Sample ID: 2023-SB-02-0002' — Lab Sample ID: 620-10021-1

Date Collected: 02/27/23 10:30 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0002' — Lab Sample ID: 620-10021-1

Date Collected: 02/27/23 10:30 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 87.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 18:49
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 18:18
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		5	20386	JS	EET NE	03/09/23 14:20
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 10:32
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/02/23 23:21
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 01:55
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:49
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:15

Client Sample ID: 2023-SB-02-0204' — Lab Sample ID: 620-10021-2

Date Collected: 02/27/23 10:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0204' — Lab Sample ID: 620-10021-2

Date Collected: 02/27/23 10:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 19:15
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 18:14

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-02-0204' Lab Sample ID: 620-10021-2

Date Collected: 02/27/23 10:35 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 11:11
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/02/23 23:38
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:06
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:46
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:17

Client Sample ID: 2023-SB-02-0406' Lab Sample ID: 620-10021-3

Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0406' Lab Sample ID: 620-10021-3

Date Collected: 02/27/23 10:40 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 19:41
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 18:42
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 11:51
Total/NA	Prep	3540C			20272	PRB	EET NE	03/03/23 15:24
Total/NA	Analysis	8082		1	20289	SFL	EET NE	03/06/23 14:55
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:17
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:43
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:24

Client Sample ID: 2023-SB-02-0608' Lab Sample ID: 620-10021-4

Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0608' Lab Sample ID: 620-10021-4

Date Collected: 02/27/23 10:45 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 20:06
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 19:11
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 12:30
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 00:12
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:28
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:39
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:26

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/02/23 22:56
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 19:39
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 13:10

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-02-0810' Lab Sample ID: 620-10021-5

Date Collected: 02/27/23 10:50 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 84.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 00:30
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:39
Total/NA	Prep	3050B			349150	UAMX	ELLE	03/01/23 12:43
Total/NA	Analysis	6010D		1	350833	S4PD	ELLE	03/06/23 15:29
Total/NA	Prep	3050B			349150	UAMX	ELLE	03/01/23 12:43
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 07:26
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:41

Client Sample ID: 2023-SB-02-1012' Lab Sample ID: 620-10021-6

Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-02-1012' Lab Sample ID: 620-10021-6

Date Collected: 02/27/23 10:55 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 20:58
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 20:08
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 13:49
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 00:47
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 02:50
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:36
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:28

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0002' Lab Sample ID: 620-10021-7

Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0002' Lab Sample ID: 620-10021-7

Date Collected: 02/27/23 12:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 94.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 21:23
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 17:50
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 14:28
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		5	20222	SFL	EET NE	03/03/23 01:04
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:01
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:33
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:30

Client Sample ID: 2023-SB-01-0204' Lab Sample ID: 620-10021-8

Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0204' Lab Sample ID: 620-10021-8

Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 21:49
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 22:01
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 15:49

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0204' Lab Sample ID: 620-10021-8

Date Collected: 02/27/23 12:05 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 91.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		5	20222	SFL	EET NE	03/03/23 01:21
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:12
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:30
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:32

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0406' Lab Sample ID: 620-10021-9

Date Collected: 02/27/23 12:10 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 22:15
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 22:30
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 16:28
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 01:39
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:23
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:17
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:34

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0608' Lab Sample ID: 620-10021-10

Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0608' Lab Sample ID: 620-10021-10

Date Collected: 02/27/23 12:15 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 82.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:01
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 22:40
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 20:36
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 17:08
Total/NA	Prep	3540C			20161	BJJ	EET NE	02/28/23 15:09
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 01:56
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:46
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:14
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:56

Client Sample ID: 2023-SB-01-0810' Lab Sample ID: 620-10021-11

Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-0810' Lab Sample ID: 620-10021-11

Date Collected: 02/27/23 12:20 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 23:06
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 21:04
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 17:47

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-01-0810' — Lab Sample ID: 620-10021-11

Date Collected: 02/27/23 12:20 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 02:13
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 03:57
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:11
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 14:58

Client Sample ID: 2023-SB-01-1012' — Lab Sample ID: 620-10021-12

Date Collected: 02/27/23 12:25 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-SB-01-1012' — Lab Sample ID: 620-10021-12

Date Collected: 02/27/23 12:25 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 23:31
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20317	JS	EET NE	03/07/23 21:32
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 18:26
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 02:30
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:08
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:01
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 15:04

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10021-13

Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10021-13

Date Collected: 02/27/23 08:00 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 85.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 23:57
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 18:46
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 19:06
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 02:47
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:19
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:04
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 15:02

Client Sample ID: 2023-MW-01-0002' Lab Sample ID: 620-10021-14

Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-MW-01-0002' Lab Sample ID: 620-10021-14

Date Collected: 02/27/23 13:30 **Matrix: Solid**
Date Received: 02/27/23 16:50 **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20238	CLR	EET NE	03/02/23 17:46
Total/NA	Analysis	8260C		1	20239	CLR	EET NE	03/02/23 23:20
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 19:14
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 19:45

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01-0002' — Lab Sample ID: 620-10021-14

Date Collected: 02/27/23 13:30 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 92.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		2	20222	SFL	EET NE	03/03/23 03:05
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:30
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 02:07
Total/NA	Prep	7471A			349464	UAMX	ELLE	03/02/23 08:18
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 15:00

Client Sample ID: 2023-MW-01-0204' — Lab Sample ID: 620-10021-15

Date Collected: 02/27/23 13:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	660281	MAN	EET BUF	03/02/23 09:40
Total/NA	Analysis	Moisture		1	20133	DWC	EET NE	02/28/23 09:15

Client Sample ID: 2023-MW-01-0204' — Lab Sample ID: 620-10021-15

Date Collected: 02/27/23 13:35 — **Matrix: Solid**
Date Received: 02/27/23 16:50 — **Percent Solids: 80.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	03/01/23 00:46
Total/NA	Prep	3546			20217	BMS	EET NE	03/02/23 10:19
Total/NA	Analysis	8270D		1	20349	JS	EET NE	03/08/23 19:43
Total/NA	Prep	5035A_H			660132	JLS	EET BUF	03/01/23 07:14
Total/NA	Analysis	MAVPH		1	660138	JLS	EET BUF	03/01/23 20:24
Total/NA	Prep	3540C			20162	BJJ	EET NE	02/28/23 15:12
Total/NA	Analysis	8082		1	20222	SFL	EET NE	03/03/23 03:22
Total/NA	Prep	537 (mod)			349094	D5VP	ELLE	03/01/23 10:57
Total/NA	Cleanup	Extract Aliquot			349172	D5VP	ELLE	03/01/23 13:26
Total/NA	Analysis	EPA 537 (Mod)		1	352453	PY4D	ELLE	03/11/23 04:41
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	350833	S4PD	ELLE	03/06/23 17:15
Total/NA	Prep	3050B			349123	UAMX	ELLE	03/01/23 11:49
Total/NA	Analysis	6010D		1	349904	S4PD	ELLE	03/03/23 01:17
Total/NA	Prep	7471A			349462	UAMX	ELLE	03/02/23 08:13
Total/NA	Analysis	7471B		1	349684	UEFS	ELLE	03/02/23 13:37

Lab Chronicle

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: Trip Blank
Lab Sample ID: 620-10021-16

Date Collected: 02/27/23 00:00
Matrix: Solid

Date Received: 02/27/23 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20132	KFS	EET NE	02/27/23 18:02
Total/NA	Prep	5035			20151	CLR	EET NE	02/28/23 11:02
Total/NA	Analysis	8260C		1	20152	CLR	EET NE	02/28/23 17:56

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23 *
Kentucky (DW)	State	90029	12-31-22 *
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-22 *
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-22 *
Maryland	State	294	03-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22 *
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-11-23
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-23
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10021-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10021-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10021-1	2023-SB-02-0002'	Solid	02/27/23 10:30	02/27/23 16:50
620-10021-2	2023-SB-02-0204'	Solid	02/27/23 10:35	02/27/23 16:50
620-10021-3	2023-SB-02-0406'	Solid	02/27/23 10:40	02/27/23 16:50
620-10021-4	2023-SB-02-0608'	Solid	02/27/23 10:45	02/27/23 16:50
620-10021-5	2023-SB-02-0810'	Solid	02/27/23 10:50	02/27/23 16:50
620-10021-6	2023-SB-02-1012'	Solid	02/27/23 10:55	02/27/23 16:50
620-10021-7	2023-SB-01-0002'	Solid	02/27/23 12:00	02/27/23 16:50
620-10021-8	2023-SB-01-0204'	Solid	02/27/23 12:05	02/27/23 16:50
620-10021-9	2023-SB-01-0406'	Solid	02/27/23 12:10	02/27/23 16:50
620-10021-10	2023-SB-01-0608'	Solid	02/27/23 12:15	02/27/23 16:50
620-10021-11	2023-SB-01-0810'	Solid	02/27/23 12:20	02/27/23 16:50
620-10021-12	2023-SB-01-1012'	Solid	02/27/23 12:25	02/27/23 16:50
620-10021-13	2023-FD-01	Solid	02/27/23 08:00	02/27/23 16:50
620-10021-14	2023-MW-01-0002'	Solid	02/27/23 13:30	02/27/23 16:50
620-10021-15	2023-MW-01-0204'	Solid	02/27/23 13:35	02/27/23 16:50
620-10021-16	Trip Blank	Solid	02/27/23 00:00	02/27/23 16:50

10021

Chain of Custody Record

eurofins | Environment Testing

620-10021 Chain of Custody

	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 1
	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 17

Bridget Fortier			
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): Standard		
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone: 978 359 9651	PO #: 500001.002		
Email: bfortier@nobis-group com	WO #:		
Project Name: American Tissue Mill	Project #:		
Site: Templeton, MA	SSOW#:		

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							P		F					
01	2023-SB-02-0002'	2/27/23	10 30	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023-SB-02-0204'		10:35		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023-SB-02-0406'		10:40		Solid			✓	✓	✓	✓	✓	✓	7	
04	2023-SB-02-0608'		10 45		Solid			✓	✓	✓	✓	✓	✓	7	
05	2023-SB-02-0810'		10.50		Solid			✓	✓	✓	✓	✓	✓	7	
06	2023-SB-02-1012'		10 55		Solid			✓	✓	✓	✓	✓	✓	7	
07	2023-SB-01-0002'		12:00		Solid			✓	✓	✓	✓	✓	✓	7	
08	2023-SB-01-0204'		12.05		Solid			✓	✓	✓	✓	✓	✓	7	
09	2023-SB-01-0406'		12:10		Solid			✓	✓	✓	✓	✓	✓	7	
10	2023-SB-01-0608'		12:15		Solid			✓	✓	✓	✓	✓	✓	7	
11	2023-SB-01-0810'	↓	12:20	↓	Solid			✓	✓	✓	✓	✓	✓	7	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III IV, Other (specify) EQUIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2/27/23 14:00	Company	Received by:	Date/Time: 2/27/23 4:40	Company
Relinquished by:	Date/Time: 2/27/23 16:50	Company	Received by:	Date/Time: 2/27/23 16:50	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.
Cooler Temperature(s) °C and Other Remarks:	3.4 +0.2 3.6 #6

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3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

(0021)

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF + KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.2
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 2 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested			
City: Lowell	TAT Requested (days): Standard			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978 399 9651	PO #: 500001.002			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
Preservation Code:							F, J		F					
2023-SB-01-1012'	2/27/23	12:25	G	Solid			✓	✓	✓	✓	✓	✓	7	
2023-FD-01		08:00		Solid			✓	✓	✓	✓	✓	✓	7	
2023-MW-01-0002'		13:30		Solid			✓	✓	✓	✓	✓	✓	7	
2023-MW-01-0204'		13:35		Solid			✓	✓	✓	✓	✓	✓	7	
TRIP BLANK	~~2/27~~			Solid			✓						2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EQuIS EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		2/27/23 14:00			2/27/23 14:00	
2		2/27/23 16:50			2/27/23 16:50	ENE
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 2.4 +0.2 IR#6

Ver 06/08/2021

3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8451.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/8/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-02-0002' (620-10021-1)	2/27/23	10:30 Eastern		Solid			X	X	2	
2023-SB-02-0204' (620-10021-2)	2/27/23	10:35 Eastern		Solid			X	X	2	
2023-SB-02-0406' (620-10021-3)	2/27/23	10:40 Eastern		Solid			X	X	2	
2023-SB-02-0608' (620-10021-4)	2/27/23	10:45 Eastern		Solid			X	X	2	
2023-SB-02-0810' (620-10021-5)	2/27/23	10:50 Eastern		Solid			X	X	2	
2023-SB-02-1012' (620-10021-6)	2/27/23	10:55 Eastern		Solid			X	X	2	
2023-SB-01-0002' (620-10021-7)	2/27/23	12:00 Eastern		Solid			X	X	2	
2023-SB-01-0204' (620-10021-8)	2/27/23	12:05 Eastern		Solid			X	X	2	
2023-SB-01-0406' (620-10021-9)	2/27/23	12:10 Eastern		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	[signature]	2/27/23 17:40	ET	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2/28/23 9:41	Company ECET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4

Ver: 06/08/2021

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8451.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 2425 New Holland Pike,	Due Date Requested: 3/8/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-01-0608' (620-10021-10)	2/27/23	12:15 Eastern		Solid			X	X	2	
2023-SB-01-0810' (620-10021-11)	2/27/23	12:20 Eastern		Solid			X	X	2	
2023-SB-01-1012' (620-10021-12)	2/27/23	12:25 Eastern		Solid			X	X	2	
2023-FD-01 (620-10021-13)	2/27/23	08:00 Eastern		Solid			X	X	2	
2023-MW-01-0002' (620-10021-14)	2/27/23	13:30 Eastern		Solid			X	X	2	
2023-MW-01-0204' (620-10021-15)	2/27/23	13:35 Eastern		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 2/27/23 12:40	Company: EWET	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 2/28/23 9:41	Company: EWET
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4		

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8453.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/8/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc Standard Targets and Carbon Ranges MAVPH	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-02-0002' (620-10021-1)	2/27/23	10:30 Eastern		Solid			X	X	1	
2023-SB-02-0204' (620-10021-2)	2/27/23	10:35 Eastern		Solid			X	X	1	
2023-SB-02-0406' (620-10021-3)	2/27/23	10:40 Eastern		Solid			X	X	1	
2023-SB-02-0608' (620-10021-4)	2/27/23	10:45 Eastern		Solid			X	X	1	
2023-SB-02-0810' (620-10021-5)	2/27/23	10:50 Eastern		Solid			X	X	1	
2023-SB-02-1012' (620-10021-6)	2/27/23	10:55 Eastern		Solid			X	X	1	
2023-SB-01-0002' (620-10021-7)	2/27/23	12:00 Eastern		Solid			X	X	1	
2023-SB-01-0204' (620-10021-8)	2/27/23	12:05 Eastern		Solid			X	X	1	
2023-SB-01-0406' (620-10021-9)	2/27/23	12:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		2/27/23 12:39	EUF	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					2-28-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 TCC

Ver: 06/08/2021

3/14/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8453.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10021-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/8/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc Standard Targets and Carbon Ranges MAVPH	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-01-0608' (620-10021-10)	2/27/23	12:15 Eastern		Solid			X	X	1	
2023-SB-01-0810' (620-10021-11)	2/27/23	12:20 Eastern		Solid			X	X	1	
2023-SB-01-1012' (620-10021-12)	2/27/23	12:25 Eastern		Solid			X	X	1	
2023-FD-01 (620-10021-13)	2/27/23	08:00 Eastern		Solid			X	X	1	
2023-MW-01-0002' (620-10021-14)	2/27/23	13:30 Eastern		Solid			X	X	1	
2023-MW-01-0204' (620-10021-15)	2/27/23	13:35 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 2/27/23 17:39	Company Eur E	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10021-1

Login Number: 10021
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10021-1

Login Number: 10021
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 02/28/23 11:44 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10021-1

Login Number: 10021
List Number: 3
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 02/28/23 12:46 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 3/28/2023 5:04:35 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10486-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

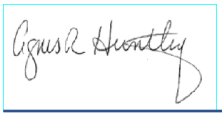
See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10486-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10486-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10486-1

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 03/28/2023

Case Narrative

Client: Nobis Engineering, Inc. Job ID: 620-10486-1
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10486-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10486-1

Receipt
The sample was received on 3/27/2023 3:33 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

GC Semi VOA
Method 8082: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: 2023-SB-12-0001 (620-10486-1). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogate was reported off the confirmation column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10486-1

Client Sample ID: 2023-SB-12-0001

Lab Sample ID: 620-10486-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	9.08		0.248	0.193	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-12-0001 **Lab Sample ID: 620-10486-1**
Date Collected: 03/24/23 12:00 **Matrix: Solid**
Date Received: 03/27/23 15:33 **Percent Solids: 79.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.248	0.179	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1221	ND		0.248	0.0733	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1232	ND		0.248	0.0687	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1242	ND		0.248	0.0392	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1248	ND		0.248	0.0776	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1254	**9.08**		0.248	0.193	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1262	ND		0.248	0.0578	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1260	ND		0.248	0.0534	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10
PCB-1268	ND		0.248	0.0529	mg/Kg	☼	03/27/23 14:51	03/28/23 14:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/27/23 14:51*	*03/28/23 14:08*	*10*
Tetrachloro-m-xylene	*103*		*30 - 150*	*03/27/23 14:51*	*03/28/23 14:08*	*10*
DCB Decachlorobiphenyl (Surr)	*178*	*S1+*	*30 - 150*	*03/27/23 14:51*	*03/28/23 14:08*	*10*
DCB Decachlorobiphenyl (Surr)	*139*		*30 - 150*	*03/27/23 14:51*	*03/28/23 14:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**20.6**		0.1	0.1	%			03/28/23 14:38	1
Percent Solids (EPA Moisture)	**79.4**		0.1	0.1	%			03/28/23 14:38	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10486-1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10486-1	2023-SB-12-0001	92	103	178 S1+	139
LCS 620-20843/2-A	Lab Control Sample	82	84	111	91
LCSD 620-20843/3-A	Lab Control Sample Dup	86	88	101	90
MB 620-20843/1-A	Method Blank	89	91	124	98

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20843/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20852 — **Prep Batch: 20843**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/27/23 13:39	03/28/23 12:53	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/27/23 13:39	03/28/23 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/27/23 13:39*	*03/28/23 12:53*	*1*
Tetrachloro-m-xylene	*91*		*30 - 150*	*03/27/23 13:39*	*03/28/23 12:53*	*1*
DCB Decachlorobiphenyl (Surr)	*124*		*30 - 150*	*03/27/23 13:39*	*03/28/23 12:53*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*30 - 150*	*03/27/23 13:39*	*03/28/23 12:53*	*1*

Lab Sample ID: LCS 620-20843/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20852 — **Prep Batch: 20843**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1667		mg/Kg		100	40 - 140		
PCB-1016			0.167	0.1680		mg/Kg		101	40 - 140		
PCB-1260			0.167	0.1866		mg/Kg		112	40 - 140		
PCB-1260			0.167	0.1688		mg/Kg		101	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*30 - 150*
Tetrachloro-m-xylene	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*111*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*

Lab Sample ID: LCSD 620-20843/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 20852 — **Prep Batch: 20843**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1724		mg/Kg		103	40 - 140	3	30
PCB-1016			0.167	0.1618		mg/Kg		97	40 - 140	4	30
PCB-1260			0.167	0.1841		mg/Kg		110	40 - 140	1	30
PCB-1260			0.167	0.1719		mg/Kg		103	40 - 140	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*30 - 150*
Tetrachloro-m-xylene	*88*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*

QC Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10486-1

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10486-1 DU
Matrix: Solid
Analysis Batch: 20873

Client Sample ID: 2023-SB-12-0001
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	20.6			19.8		%				4	5
Percent Solids	79.4			80.2		%				1	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10486-1

GC Semi VOA

Prep Batch: 20843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10486-1	2023-SB-12-0001	Total/NA	Solid	3540C	
MB 620-20843/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20843/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20843/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 20852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10486-1	2023-SB-12-0001	Total/NA	Solid	8082	20843
MB 620-20843/1-A	Method Blank	Total/NA	Solid	8082	20843
LCS 620-20843/2-A	Lab Control Sample	Total/NA	Solid	8082	20843
LCSD 620-20843/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20843

General Chemistry

Analysis Batch: 20873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10486-1	2023-SB-12-0001	Total/NA	Solid	Moisture	
620-10486-1 DU	2023-SB-12-0001	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10486-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-12-0001 Lab Sample ID: 620-10486-1

Date Collected: 03/24/23 12:00 **Matrix: Solid**
Date Received: 03/27/23 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	20873	PRB	EET NE	03/28/23 14:38

Client Sample ID: 2023-SB-12-0001 Lab Sample ID: 620-10486-1

Date Collected: 03/24/23 12:00 **Matrix: Solid**
Date Received: 03/27/23 15:33 **Percent Solids: 79.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			20843	BMS	EET NE	03/27/23 14:51
Total/NA	Analysis	8082		10	20852	SFL	EET NE	03/28/23 14:08

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10486-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10486-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
Moisture	Percent Moisture	EPA	EET NE
3540C	Soxhlet Extraction	SW846	EET NE

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10486-1	2023-SB-12-0001	Solid	03/24/23 12:00	03/27/23 15:33

10486

620-10486 Chain of Custody

CHAIN OF CUSTODY RECORD

ıım Analytical

Page 1 of 1

Special Handling:

☐ Standard TAT - 7 to 10 business days

☑ Rush TAT - Date Needed 24 h

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Nobis Engineering Inc. , 585 Middlesex St, Lowell, MA
Denis McGrath
Telephone #: 978-758-3744
Project Mgr: Denis McGrath

Invoice To: Nobis Engineering Inc. , 585 Middlesex St, Lowell, MA
P O No: S00001 002 Quote #:

Project No: S00001 002
Site Name: American Tissue Mill
Location: Templeton State: MA
Sampler(s): Klementina Mato

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: PCBs 8082(Soxhlet)	Check if chlorinated
01	2023-SB-12-0001	3/24/2023	12:00 ~~AM~~ PM	G	SO		1			x	☐
											☐
											☐
											☐
											☐
											☐
											☐
											☐
											☐
											☐

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☑ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
Klementina Mato	Basement Fridge	3/24/23	14:00	Observed 2.0
		3/27/23	1305	Correction Factor +0.2
		3/27/23	1533	Corrected 2.2
				IR ID # 6

☑ EDD format: Equis EDD
☑ E-mail to: dmcgrath@nobis-group com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Sample shipping address: 11 Almgren Drive • Agawam, MA 01001 • 413-789-9018 • www.EurofinsUS.com/Spectrum

Rev Nov 2016

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3/28/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10486-1

Login Number: 10486
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 3/31/2023 2:35:15 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10149-1

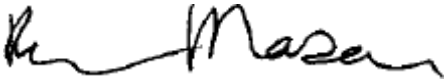
Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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3/31/2023 2:35:15 PM

Authorized for release by
Becky Mason, Project Manager II
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Designee for
Agnes Huntley, Project Manager
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^3+	Reporting Limit Check Standard is outside acceptance limits, high biased
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10149-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10149-1 through 620-10149-34

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☑	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ☑ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** Project Manager II

Printed Name: Becky Mason **Date:** 03/31/2023

Job ID: 620-10149-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10149-1

Receipt
The samples were received on 3/7/2023 4:41 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4º C.

GC/MS VOA
Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: 1,1,2-Trichloroethane.
(CCVIS 620-20473/3)

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-20472 and analytical batch 620-20473 recovered outside control limits for the following analytes: Chloroethane and Bromomethane, which has been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20275 and 620-20472 and analytical batch 620-20473 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 620-20518 recovered outside control limits but were greater than 10% for the following analytes: 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, and Dichlorodifluoromethane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The associated samples are: (LCS 620-20516/1-A) and (LCSD 620-20516/2-A).

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: Tert-butyl ethyl ether, Isopropyl ether, Methyl tert-butyl ether, 2-Methyl-2-propanol, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, and 1,4-Dichlorobenzene. (CCVIS 620-20518/3)

Method 8260C: Internal standard (ISTD) response for the following samples were outside control limits: 2023-MW-08-0002' (620-10149-1), 2023-MW-08-0810' (620-10149-5), 2023-SB-10-0002' (620-10149-7), 2023-SB-10-0204' (620-10149-8) and 2023-SB-10-0406' (620-10149-9). The samples were re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following samples: 2023-MW-08-0002' (620-10149-1), 2023-MW-08-0810' (620-10149-5), 2023-SB-10-0002' (620-10149-7), 2023-SB-10-0204' (620-10149-8) and 2023-SB-10-0406' (620-10149-9). The samples show evidence of matrix interference.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20572 and analytical batch 620-20544 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,1,2,2-Tetrachloroethane, Chlorobenzene, 1,1,1,2-Tetrachloroethane, 2-Methyl-2-propanol, Tetrahydrofuran, Tert-butyl ethyl ether, Isopropyl ether, Methyl tert-butyl ether, and Tert-amyl methyl ether. (CCVIS 620-20544/3)

Method 8260C: Internal standard (ISTD) response for the following samples were outside control limits: 2023-SB-11-0204' (620-10149-14), 2023-SB-11-0406' (620-10149-15), 2023-SB-11-0608' (620-10149-16), 2023-SB-09-0406' (620-10149-21), 2023-MW-09-0002' (620-10149-25) and 2023-MW-09-0204' (620-10149-26). The samples were re-extracted and/or re-analyzed and ISTD

Job ID: 620-10149-1 (Continued)

Laboratory: Eurofins New England (Continued)

response was outside control limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following samples: 2023-SB-11-0204' (620-10149-14), 2023-SB-11-0406' (620-10149-15), 2023-SB-11-0608' (620-10149-16), 2023-SB-09-0406' (620-10149-21), 2023-MW-09-0002' (620-10149-25) and 2023-MW-09-0204' (620-10149-26). The samples show evidence of matrix interference.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 620-20616 and analytical batch 620-20617 recovered outside control limits for the following analyte: Dichlorodifluoromethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: Internal standard (ISTD) response for the following sample was outside control limits: 2023-MW-09-0608' (620-10149-28). The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260C: Internal standard responses were outside of acceptance limits for the following sample: 2023-MW-09-0608' (620-10149-28). The sample shows evidence of matrix interference.

Method 8260C: The laboratory control sample (LCS) for preparation batch 620-20675 and analytical batch 620-20676 recovered outside control limits for the following analyte: Chloroethane, which has been identified as a poor performing analyte when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for preparation batch 620-20675 and analytical batch 620-20676 recovered outside control limits for the following analytes: Chloroethane and Bromomethane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20616 and analytical batch 620-20617 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20675 and analytical batch 620-20676 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-20342 and 620-20675 and analytical batch 620-20676 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20342 and 620-20616 and analytical batch 620-20617 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 620-20626 recovered above the upper control limit for Aniline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 620-20626/5).

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20660/5) gives a high

Job ID: 620-10149-1 (Continued)

Laboratory: Eurofins New England (Continued)

probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 4,6-Dinitro-2-methylphenol, Benzidine, Hexachlorocyclopentadiene and Pentachloronitrobenzene.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-20629 and analytical batch 620-20660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20699/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Aniline, Benzidine, Benzoic acid and Pentachloronitrobenzene.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20686 and analytical batch 620-20699 recovered outside control limits for the following analyte: Benzoic acid. MCP allows for <10% of analytes to fall outside of control limits. The affected target analyte recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had it been present. Since the affected target compound was not detected in the samples, the data have been reported and qualified.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 2023-SB-11-0002' (620-10149-13). These results have been reported and qualified.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20738/6) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene, 4,6-Dinitro-2-methylphenol, Aniline, Benzoic acid, Diethyl phthalate and Di-n-octyl phthalate.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20685 and analytical batch 620-20738 recovered outside control limits for the following analytes: Benzidine and Benzoic acid. MCP allows for <10% of analytes to fall outside of control limits. The affected target analytes recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-20685 and analytical batch 620-20738 recovered outside control limits for the following analytes: Benzidine and Benzoic acid.

Method 8270D: The matrix spike (MS) recovery of Benzidine for preparation batch 620-20685 and analytical batch 620-20738 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected because the matrix spike duplicate (MSD) was within acceptance criteria. The MS/MSD precision was also outside of method parameters.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-20762/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Benzidine, Diethyl phthalate and Pentachloronitrobenzene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH: The method blank for preparation batch 480-661094 and analytical batch 480-661095 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method MAVPH: The following Trap and Gas Chromatographic column was used for the analysis of MAVPH for the affected samples: 2023-MW-08-0002' (620-10149-1), 2023-MW-08-0204' (620-10149-2), 2023-MW-08-0406' (620-10149-3), 2023-MW-08-0608'

Job ID: 620-10149-1 (Continued)

Laboratory: Eurofins New England (Continued)

(620-10149-4), 2023-MW-08-0810' (620-10149-5), 2023-MW-08-1012' (620-10149-6), 2023-SB-10-0002' (620-10149-7), 2023-SB-10-0204' (620-10149-8), 2023-SB-10-0406' (620-10149-9), 2023-SB-10-0608' (620-10149-10), 2023-SB-10-0810' (620-10149-11), 2023-SB-10-1012' (620-10149-12), 2023-SB-10-1012' (620-10149-12[MS]), 2023-SB-10-1012' (620-10149-12[MSD]), 2023-SB-11-0002' (620-10149-13), 2023-SB-11-0204' (620-10149-14), 2023-SB-11-0406' (620-10149-15), 2023-SB-11-0608' (620-10149-16), 2023-SB-11-0810' (620-10149-17) and 2023-SB-11-1012' (620-10149-18) 105-m x 0.53-mm I.D., 3.0-µm film RTX-502.2 column (Restek) OI Analytical 4560 7cm Carbopack custom purge trap, Modified BTEX/MTBE “M”Trap

Method MAVPH: The following Trap and Gas Chromatographic column was used for the analysis of MAVPH for the affected samples: 2023-SB-09-0002' (620-10149-19), 2023-SB-09-0204' (620-10149-20), 2023-SB-09-0406' (620-10149-21), 2023-SB-09-0608' (620-10149-22), 2023-SB-09-0810' (620-10149-23), 2023-SB-09-1012' (620-10149-24), 2023-MW-09-0002' (620-10149-25), 2023-MW-09-0204' (620-10149-26), 2023-MW-09-0406' (620-10149-27), 2023-MW-09-0406' (620-10149-27[MS]), 2023-MW-09-0406' (620-10149-27[MSD]), 2023-MW-09-0608' (620-10149-28), 2023-MW-09-0810' (620-10149-29), 2023-MW-09-1012' (620-10149-30), 2023-FD-08 (620-10149-31), 2023-FD-09 (620-10149-32) and 2023-MW-03-1012' (620-10149-34) 105-m x 0.53-mm I.D., 3.0-µm film RTX-502.2 column (Restek) OI Analytical 4560 7cm Carbopack custom purge trap, Modified BTEX/MTBE “M”Trap

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082: DCB Decachlorobiphenyl (Surr) precision for the following sample was outside control limits: 2023-SB-09-0204' (620-10149-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: 2023-SB-09-0002' (620-10149-19), 2023-SB-09-0406' (620-10149-21) and 2023-SB-09-1012' (620-10149-24). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogate was reported off the confirmation column.

Method 8082: DCB Decachlorobiphenyl (Surr) precision for the following sample was outside control limits: 2023-MW-09-0002' (620-10149-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010D: The following samples were diluted due to the nature of the sample matrix: 2023-SB-10-1012' (620-10149-12), 2023-SB-11-0002' (620-10149-13), 2023-SB-11-0810' (620-10149-17), 2023-SB-11-1012' (620-10149-18), 2023-SB-09-0608' (620-10149-22), 2023-SB-09-0810' (620-10149-23), 2023-MW-09-0810' (620-10149-29), 2023-MW-09-1012' (620-10149-30) and 2023-MW-03-1012' (620-10149-34). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method 537 (modified): The recovery for target analyte 10:2 FTS is above the QC acceptance limit in the closing continuing calibration verification standard. Since the result is high and the target analyte is not detected in 2023-MW-09-0204' (620-10149-26), 2023-MW-09-0406' (620-10149-27), 2023-MW-09-0608' (620-10149-28), 2023-MW-09-0810' (620-10149-29), 2023-MW-09-1012' (620-10149-30), 2023-FD-08 (620-10149-31), 2023-FD-09 (620-10149-32) and 2023-MW-03-1012' (620-10149-34), the data are reported.

Method 537 (modified): The recovery for target analyte: 10:2 FTS is outside the QC acceptance limits in the opening continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following sample: 2023-MW-08-0204' (620-10149-2), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0002'

Lab Sample ID: 620-10149-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3-Trichlorobenzene	0.00551	J *3	0.00579	0.00489	mg/Kg	1	☼	8260C	Total/NA
1-Methylnaphthalene	0.250		0.0679	0.0570	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.236		0.0679	0.0502	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.220		0.0679	0.0446	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.257		0.0679	0.0393	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.755		0.0679	0.0382	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.424		0.0679	0.0486	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.751		0.0679	0.0563	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.220		0.0679	0.0531	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.553		0.0679	0.0528	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.317		0.170	0.0433	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.0924	J	0.170	0.0445	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.01		0.0679	0.0384	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.116		0.0679	0.0518	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.0708	J	0.170	0.0589	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.391		0.336	0.0359	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.95		0.0679	0.0398	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.254		0.0679	0.0576	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.189		0.0679	0.0652	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.532		0.0679	0.0385	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.83		0.0679	0.0375	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	1.03		0.283	0.145	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	0.257	J	0.283	0.121	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	0.102	B	0.0567	0.0385	mg/Kg	1	☼	MAVPH	Total/NA
o-Xylene	0.0355	J	0.0567	0.0113	mg/Kg	1	☼	MAVPH	Total/NA
Toluene	0.0130	J	0.0567	0.0113	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	1.04		0.283	0.145	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.152	J	0.283	0.0397	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.444		0.283	0.121	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.913		0.0212	0.0165	mg/Kg	1	☼	8082	Total/NA
Arsenic	11.7		3.09	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	32.7		0.515	0.155	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.222	J	0.515	0.103	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.222	J	0.515	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.77		1.55	0.361	mg/Kg	1	☼	6010D	Total/NA
Lead	35.4		1.55	0.618	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.09		1.03	0.268	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.93		1.03	0.443	mg/Kg	1	☼	6010D	Total/NA
Zinc	37.4		2.06	0.825	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0628		0.0609	0.0203	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-08-0204'

Lab Sample ID: 620-10149-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	1.03		0.352	0.242	mg/Kg	1	☼	8270D	Total/NA
Perfluorohexadecanoic acid	0.209	J	0.607	0.202	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Perfluorooctadecanoic acid	0.340	J ^2	0.607	0.202	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	4.03		2.25	1.05	mg/Kg	1	☼	6010D	Total/NA
Barium	15.1		0.375	0.113	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.206	J	0.375	0.0750	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.18		1.13	0.263	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-08-0204' (Continued)

Lab Sample ID: 620-10149-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.68		1.13	0.450	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.01		0.750	0.195	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.29	J	2.25	0.975	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.15		0.750	0.323	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.1		1.50	0.600	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0301	J	0.0613	0.0204	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-08-0406'

Lab Sample ID: 620-10149-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.291		0.183	0.0465	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.209	J	0.282	0.144	mg/Kg	1		MA VPH SUM	Total/NA
C5-C8 Aliphatics (unadjusted)	0.209	J	0.282	0.144	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0301		0.0223	0.0174	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.01	J	2.64	1.23	mg/Kg	1	☼	6010D	Total/NA
Barium	13.5		0.440	0.132	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.368	J	0.440	0.0881	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.30		1.32	0.308	mg/Kg	1	☼	6010D	Total/NA
Lead	6.93		1.32	0.529	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.31		0.881	0.229	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.49	J	4.40	1.32	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.85	J	2.64	1.15	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.98		0.881	0.379	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.5		1.76	0.705	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0534	J	0.0677	0.0226	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-08-0608'

Lab Sample ID: 620-10149-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	12.4		0.448	0.134	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.218	J	0.448	0.0896	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.13		1.34	0.314	mg/Kg	1	☼	6010D	Total/NA
Lead	3.91		1.34	0.538	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.17		0.896	0.233	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.37	J	2.69	1.16	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.83		0.896	0.385	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.2		1.79	0.717	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0255	J	0.0650	0.0217	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-08-0810'

Lab Sample ID: 620-10149-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0246	J *3	0.0473	0.0106	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.00257	J *3	0.00946	0.00254	mg/Kg	1	☼	8260C	Total/NA
Naphthalene	0.0371	J B	0.0460	0.0313	mg/Kg	1	☼	MAVPH	Total/NA
Barium	12.1		0.406	0.122	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.149	J	0.406	0.0812	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.89		1.22	0.284	mg/Kg	1	☼	6010D	Total/NA
Lead	3.94		1.22	0.487	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.69		0.812	0.211	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.96	J	2.44	1.06	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.41		0.812	0.349	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-08-0810' (Continued)
Lab Sample ID: 620-10149-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	16.5		1.62	0.650	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-08-1012'
Lab Sample ID: 620-10149-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.227		0.190	0.0484	mg/Kg	1	☼	8270D	Total/NA
Arsenic	1.74	J	2.73	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	12.7		0.455	0.136	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.110	J	0.455	0.0910	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.82		1.36	0.318	mg/Kg	1	☼	6010D	Total/NA
Lead	3.17		1.36	0.546	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.76		0.910	0.237	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.31	J	2.73	1.18	mg/Kg	1	☼	6010D	Total/NA
Vanadium	5.88		0.910	0.391	mg/Kg	1	☼	6010D	Total/NA
Zinc	11.7		1.82	0.728	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-10-0002'
Lab Sample ID: 620-10149-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0381	J *3	0.0664	0.0149	mg/Kg	1	☼	8260C	Total/NA
Acenaphthylene	0.229		0.0743	0.0488	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.143		0.0743	0.0430	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.218		0.0743	0.0418	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.260		0.0743	0.0532	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.151		0.0743	0.0616	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.224		0.0743	0.0581	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.181		0.0743	0.0578	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.255		0.186	0.0474	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.252		0.0743	0.0420	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0664	J	0.0743	0.0567	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.567		0.368	0.0393	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.169		0.0743	0.0436	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.150		0.0743	0.0631	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.112		0.0743	0.0421	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.373		0.0743	0.0410	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.148		0.0204	0.0159	mg/Kg	1	☼	8082	Total/NA
Perfluorooctanesulfonic acid	0.448	J	0.676	0.225	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	4.62		2.75	1.28	mg/Kg	1	☼	6010D	Total/NA
Barium	90.7		0.458	0.137	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.439	J	0.458	0.0916	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.318	J	0.458	0.0916	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.56		1.37	0.321	mg/Kg	1	☼	6010D	Total/NA
Lead	30.8		1.37	0.550	mg/Kg	1	☼	6010D	Total/NA
Nickel	6.90		0.916	0.238	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.93	J	2.75	1.19	mg/Kg	1	☼	6010D	Total/NA
Vanadium	12.4		0.916	0.394	mg/Kg	1	☼	6010D	Total/NA
Zinc	106		1.83	0.733	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0395	J	0.0644	0.0215	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0204'

Lab Sample ID: 620-10149-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	0.0724	J	0.0771	0.0648	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.0604	J	0.0771	0.0570	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0693	J	0.0771	0.0506	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0470	J	0.0771	0.0446	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.176		0.0771	0.0434	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.175		0.0771	0.0552	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.259		0.0771	0.0639	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.173		0.0771	0.0602	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.187		0.0771	0.0600	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.307		0.0771	0.0436	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0687	J	0.0771	0.0589	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	5.90		0.763	0.0816	mg/Kg	2	☼	8270D	Total/NA
Fluoranthene	0.413		0.0771	0.0452	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.153		0.0771	0.0654	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.293		0.0771	0.0437	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.422		0.0771	0.0426	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	4.28		0.331	0.169	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	1.33		0.331	0.141	mg/Kg	1		MA VPH SUM	Total/NA
Ethylbenzene	0.0503	J	0.0661	0.0132	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	4.28		0.331	0.169	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.425		0.331	0.0463	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	1.81		0.331	0.141	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0221	J	0.0237	0.0185	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.0211	J	0.0237	0.00510	mg/Kg	1	☼	8082	Total/NA
Perfluorohexanoic acid	0.238	J I	0.688	0.229	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Perfluorooctanesulfonic acid	0.414	J	0.688	0.229	ug/Kg	1	☼	EPA 537 (Mod)	Total/NA
Arsenic	8.14		2.75	1.28	mg/Kg	1	☼	6010D	Total/NA
Barium	282		0.458	0.138	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.835		0.458	0.0917	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.326	J	0.458	0.0917	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.64		1.38	0.321	mg/Kg	1	☼	6010D	Total/NA
Lead	65.0		1.38	0.550	mg/Kg	1	☼	6010D	Total/NA
Nickel	16.4		0.917	0.238	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.63	J	2.75	1.19	mg/Kg	1	☼	6010D	Total/NA
Vanadium	14.5		0.917	0.394	mg/Kg	1	☼	6010D	Total/NA
Zinc	148		1.83	0.733	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0572	J	0.0681	0.0227	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-10-0406'

Lab Sample ID: 620-10149-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.327	E *3	0.0621	0.0139	mg/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	0.0620	*3	0.0124	0.00494	mg/Kg	1	☼	8260C	Total/NA
Acetone - RA	0.0162	J B	0.0531	0.0119	mg/Kg	1	☼	8260C	Total/NA
Chrysene	0.0475	J	0.0761	0.0430	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0848		0.0761	0.0446	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0899		0.0761	0.0420	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.181	J	0.281	0.144	mg/Kg	1		MA VPH SUM	Total/NA
C5-C8 Aliphatics (unadjusted)	0.181	J	0.281	0.144	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	7.56		2.59	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	240		0.431	0.129	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-10-0406' (Continued)

Lab Sample ID: 620-10149-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.567		0.431	0.0863	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.376	J	0.431	0.0863	mg/Kg	1	☼	6010D	Total/NA
Chromium	13.1		1.29	0.302	mg/Kg	1	☼	6010D	Total/NA
Lead	99.4		1.29	0.518	mg/Kg	1	☼	6010D	Total/NA
Nickel	7.76		0.863	0.224	mg/Kg	1	☼	6010D	Total/NA
Thallium	1.75	J	2.59	1.12	mg/Kg	1	☼	6010D	Total/NA
Vanadium	13.4		0.863	0.371	mg/Kg	1	☼	6010D	Total/NA
Zinc	181		1.73	0.690	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0300	J	0.0694	0.0231	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-SB-10-0608'

Lab Sample ID: 620-10149-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0180	J	0.0513	0.0115	mg/Kg	1	☼	8260C	Total/NA
Arsenic	3.40	J	3.54	1.65	mg/Kg	1	☼	6010D	Total/NA
Barium	46.4		0.589	0.177	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.552	J	0.589	0.118	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.22		1.77	0.413	mg/Kg	1	☼	6010D	Total/NA
Lead	104		1.77	0.707	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.91		1.18	0.306	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.58		1.18	0.507	mg/Kg	1	☼	6010D	Total/NA
Zinc	23.0		2.36	0.943	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-10-0810'

Lab Sample ID: 620-10149-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	24.1		0.488	0.146	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.335	J	0.488	0.0976	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.69		1.46	0.342	mg/Kg	1	☼	6010D	Total/NA
Lead	3.98		1.46	0.586	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.29		0.976	0.254	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.96		0.976	0.420	mg/Kg	1	☼	6010D	Total/NA
Zinc	19.5		1.95	0.781	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-10-1012'

Lab Sample ID: 620-10149-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0118	J F1 B F2	0.0460	0.0103	mg/Kg	1	☼	8260C	Total/NA
Naphthalene	0.0388	J B	0.0509	0.0346	mg/Kg	1	☼	MAVPH	Total/NA
Arsenic	3.94		2.66	1.24	mg/Kg	1	☼	6010D	Total/NA
Barium	109	F1	0.443	0.133	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.62		0.443	0.0886	mg/Kg	1	☼	6010D	Total/NA
Chromium	31.2		1.33	0.310	mg/Kg	1	☼	6010D	Total/NA
Lead	10.1	F1	1.33	0.531	mg/Kg	1	☼	6010D	Total/NA
Nickel	15.6		0.886	0.230	mg/Kg	1	☼	6010D	Total/NA
Silver	0.433	J	0.886	0.354	mg/Kg	1	☼	6010D	Total/NA
Vanadium	50.8	F1	0.886	0.381	mg/Kg	1	☼	6010D	Total/NA
Zinc	65.9	F1	1.77	0.708	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-11-0002'

Lab Sample ID: 620-10149-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl benzyl phthalate	0.0492	J	0.340	0.0341	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-11-0002' (Continued) Lab Sample ID: 620-10149-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Di-n-butyl phthalate	0.150	J	0.340	0.0364	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.656		0.0182	0.0142	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.05		2.82	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	33.7		0.470	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.381	J	0.470	0.0941	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.68		1.41	0.329	mg/Kg	1	☼	6010D	Total/NA
Lead	4.67		1.41	0.564	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.38		0.941	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	14.5		0.941	0.404	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.0		1.88	0.752	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-11-0204' Lab Sample ID: 620-10149-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0393	J B *3	0.0519	0.0116	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.00529	J *3	0.0104	0.00278	mg/Kg	1	☼	8260C	Total/NA
Acetone - RA	0.0234	J *3	0.0290	0.00650	mg/Kg	1	☼	8260C	Total/NA
Methylene Chloride - RA	0.00243	J *3	0.00580	0.00155	mg/Kg	1	☼	8260C	Total/NA
1,2,3-Trichlorobenzene - RA	0.00247	J *3	0.00290	0.00245	mg/Kg	1	☼	8260C	Total/NA
Chrysene	0.0791		0.0763	0.0431	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	2.31		0.378	0.0404	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0720	J	0.0763	0.0447	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0783		0.0763	0.0433	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0767		0.0763	0.0421	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	1.86		0.275	0.141	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	0.436		0.275	0.118	mg/Kg	1		MA VPH SUM	Total/NA
Ethylbenzene	0.0210	J	0.0549	0.0110	mg/Kg	1	☼	MAVPH	Total/NA
o-Xylene	0.0220	J	0.0549	0.0110	mg/Kg	1	☼	MAVPH	Total/NA
C5-C8 Aliphatics (unadjusted)	1.86		0.275	0.141	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.143	J	0.275	0.0385	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.622		0.275	0.118	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0511		0.0225	0.0175	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.0186	J	0.0225	0.00483	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.14	J	3.42	1.60	mg/Kg	1	☼	6010D	Total/NA
Barium	17.9		0.571	0.171	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.381	J	0.571	0.114	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.80		1.71	0.399	mg/Kg	1	☼	6010D	Total/NA
Lead	5.93		1.71	0.685	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.87		1.14	0.297	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.62		1.14	0.491	mg/Kg	1	☼	6010D	Total/NA
Zinc	16.1		2.28	0.913	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-11-0406' Lab Sample ID: 620-10149-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - RA	0.0401	J *3	0.0554	0.0124	mg/Kg	1	☼	8260C	Total/NA
Di-n-butyl phthalate	0.0474	J	0.388	0.0415	mg/Kg	1	☼	8270D	Total/NA
Arsenic	1.66	J	2.82	1.31	mg/Kg	1	☼	6010D	Total/NA
Barium	21.1		0.469	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.262	J	0.469	0.0938	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.28		1.41	0.328	mg/Kg	1	☼	6010D	Total/NA
Lead	5.55		1.41	0.563	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-11-0406' (Continued) — Lab Sample ID: 620-10149-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	1.95		0.938	0.244	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.24		0.938	0.404	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.4		1.88	0.751	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-11-0608' — Lab Sample ID: 620-10149-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0172	J B	0.0548	0.0123	mg/Kg	1	☼	8260C	Total/NA
Acetone - RA	0.0122	J	0.0486	0.0109	mg/Kg	1	☼	8260C	Total/NA
Bis(2-ethylhexyl) phthalate	0.0559	J	0.184	0.0469	mg/Kg	1	☼	8270D	Total/NA
Di-n-butyl phthalate	0.0462	J	0.364	0.0390	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.261		0.0227	0.0177	mg/Kg	1	☼	8082	Total/NA
Arsenic	1.92	J	3.39	1.58	mg/Kg	1	☼	6010D	Total/NA
Barium	23.2		0.564	0.169	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.388	J	0.564	0.113	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.28		1.69	0.395	mg/Kg	1	☼	6010D	Total/NA
Lead	7.58		1.69	0.677	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.45		1.13	0.294	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.33		1.13	0.485	mg/Kg	1	☼	6010D	Total/NA
Zinc	13.4		2.26	0.903	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-11-0810' — Lab Sample ID: 620-10149-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.50		3.08	1.44	mg/Kg	1	☼	6010D	Total/NA
Barium	64.9		0.513	0.154	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.796		0.513	0.103	mg/Kg	1	☼	6010D	Total/NA
Chromium	17.5		1.54	0.359	mg/Kg	1	☼	6010D	Total/NA
Lead	6.66		1.54	0.616	mg/Kg	1	☼	6010D	Total/NA
Nickel	10.2		1.03	0.267	mg/Kg	1	☼	6010D	Total/NA
Vanadium	27.2		1.03	0.441	mg/Kg	1	☼	6010D	Total/NA
Zinc	34.4		2.05	0.821	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-11-1012' — Lab Sample ID: 620-10149-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0909		0.0261	0.0203	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.89	J	3.03	1.41	mg/Kg	1	☼	6010D	Total/NA
Barium	49.3		0.505	0.151	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.675		0.505	0.101	mg/Kg	1	☼	6010D	Total/NA
Chromium	15.4		1.51	0.353	mg/Kg	1	☼	6010D	Total/NA
Lead	6.14		1.51	0.606	mg/Kg	1	☼	6010D	Total/NA
Nickel	6.16		1.01	0.262	mg/Kg	1	☼	6010D	Total/NA
Vanadium	17.7		1.01	0.434	mg/Kg	1	☼	6010D	Total/NA
Zinc	22.0		2.02	0.807	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-09-0002' — Lab Sample ID: 620-10149-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.498		0.149	0.0977	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.368		0.149	0.0861	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.15		0.149	0.0836	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.31		0.149	0.106	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-09-0002' (Continued) Lab Sample ID: 620-10149-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	1.35		0.149	0.123	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.980		0.149	0.116	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.862		0.149	0.116	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.46		0.149	0.0841	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.343		0.149	0.114	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.00		0.149	0.0872	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.840		0.149	0.126	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.719		0.149	0.0843	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.63		0.149	0.0821	mg/Kg	1	☼	8270D	Total/NA
C9-C12 Aliphatics (adjusted)	0.210	J	0.305	0.131	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	0.0456	J	0.0611	0.0415	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.210	J	0.305	0.131	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.0703		0.0221	0.0172	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.0320		0.0221	0.00476	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.74		3.07	1.43	mg/Kg	1	☼	6010D	Total/NA
Barium	29.0		0.512	0.154	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.509	J	0.512	0.102	mg/Kg	1	☼	6010D	Total/NA
Chromium	11.8		1.54	0.359	mg/Kg	1	☼	6010D	Total/NA
Lead	10.1		1.54	0.615	mg/Kg	1	☼	6010D	Total/NA
Nickel	6.87		1.02	0.266	mg/Kg	1	☼	6010D	Total/NA
Vanadium	17.1		1.02	0.440	mg/Kg	1	☼	6010D	Total/NA
Zinc	22.3		2.05	0.819	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-09-0204' Lab Sample ID: 620-10149-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.640		0.355	0.233	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.488		0.355	0.206	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.38		0.355	0.200	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.46		0.355	0.254	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.23		0.355	0.294	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.34		0.355	0.277	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.14		0.355	0.276	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.265	J	0.889	0.226	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.75		0.355	0.201	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.417		0.355	0.271	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.92		0.355	0.208	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.968		0.355	0.301	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.939		0.355	0.201	mg/Kg	1	☼	8270D	Total/NA
Pyrene	3.79		0.355	0.196	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0320		0.0214	0.0167	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.21		2.83	1.32	mg/Kg	1	☼	6010D	Total/NA
Barium	28.8		0.471	0.141	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.396	J	0.471	0.0942	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.18		1.41	0.330	mg/Kg	1	☼	6010D	Total/NA
Lead	12.3		1.41	0.565	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.32		0.942	0.245	mg/Kg	1	☼	6010D	Total/NA
Vanadium	12.4		0.942	0.405	mg/Kg	1	☼	6010D	Total/NA
Zinc	21.3		1.88	0.754	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0406'

Lab Sample ID: 620-10149-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.00805	*3	0.00420	0.00380	mg/Kg	1	☼	8260C	Total/NA
Acetone - RA	0.0214	J *3	0.0605	0.0135	mg/Kg	1	☼	8260C	Total/NA
1-Methylnaphthalene	1.13		0.367	0.308	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.630		0.367	0.271	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.682		0.367	0.293	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	3.29		0.367	0.241	mg/Kg	1	☼	8270D	Total/NA
Anthracene	3.63		0.367	0.212	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	8.90		0.367	0.206	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.33		0.367	0.262	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	9.22		0.367	0.304	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	5.26		0.367	0.286	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	4.96		0.367	0.285	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.739	J	0.918	0.240	mg/Kg	1	☼	8270D	Total/NA
Chrysene	11.5		0.367	0.207	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	2.10		0.367	0.280	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.560	J	0.918	0.318	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	11.1		0.734	0.430	mg/Kg	2	☼	8270D	Total/NA
Fluorene	1.75		0.367	0.335	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	4.50		0.367	0.311	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	9.56		0.734	0.416	mg/Kg	2	☼	8270D	Total/NA
Pyrene	11.3		0.734	0.405	mg/Kg	2	☼	8270D	Total/NA
C9-C12 Aliphatics (adjusted)	0.170	J	0.384	0.164	mg/Kg	1		MA VPH SUM	Total/NA
Naphthalene	0.379		0.0768	0.0522	mg/Kg	1	☼	MAVPH	Total/NA
C9-C10 Aromatics	0.260	J	0.384	0.0538	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.430		0.384	0.164	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.416		0.0205	0.0159	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.0227		0.0205	0.00440	mg/Kg	1	☼	8082	Total/NA
Arsenic	3.45		2.96	1.38	mg/Kg	1	☼	6010D	Total/NA
Barium	24.4		0.494	0.148	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.318	J	0.494	0.0987	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.14		1.48	0.346	mg/Kg	1	☼	6010D	Total/NA
Lead	8.25		1.48	0.592	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.88		0.987	0.257	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.91		0.987	0.425	mg/Kg	1	☼	6010D	Total/NA
Zinc	14.7		1.97	0.790	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-09-0608'

Lab Sample ID: 620-10149-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0648	J	0.0801	0.0526	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0696	J	0.0801	0.0464	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.133		0.0801	0.0450	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.0882		0.0801	0.0573	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.0978		0.0801	0.0664	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.0630	J	0.0801	0.0626	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.0993		0.0801	0.0623	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.163		0.0801	0.0453	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.359		0.0801	0.0470	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.149		0.0801	0.0454	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.458		0.0801	0.0442	mg/Kg	1	☼	8270D	Total/NA
Arsenic	7.73		3.22	1.50	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-SB-09-0608' (Continued)

Lab Sample ID: 620-10149-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	75.6		0.536	0.161	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.09		0.536	0.107	mg/Kg	1	☼	6010D	Total/NA
Chromium	20.4		1.61	0.375	mg/Kg	1	☼	6010D	Total/NA
Lead	8.01		1.61	0.643	mg/Kg	1	☼	6010D	Total/NA
Nickel	11.9		1.07	0.279	mg/Kg	1	☼	6010D	Total/NA
Vanadium	33.9		1.07	0.461	mg/Kg	1	☼	6010D	Total/NA
Zinc	48.1		2.14	0.857	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-09-0810'

Lab Sample ID: 620-10149-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0939	J B	0.181	0.0406	mg/Kg	1	☼	8260C	Total/NA
tert-Butanol	0.116	J	0.363	0.0972	mg/Kg	1	☼	8260C	Total/NA
Ethanol	1.29	J	3.63	0.225	mg/Kg	1	☼	8260C	Total/NA
Arsenic	12.5		2.73	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	92.1		0.455	0.137	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.55		0.455	0.0910	mg/Kg	1	☼	6010D	Total/NA
Chromium	25.5		1.37	0.319	mg/Kg	1	☼	6010D	Total/NA
Lead	9.85		1.37	0.546	mg/Kg	1	☼	6010D	Total/NA
Nickel	15.6		0.910	0.237	mg/Kg	1	☼	6010D	Total/NA
Vanadium	45.4		0.910	0.391	mg/Kg	1	☼	6010D	Total/NA
Zinc	66.9	^5-	1.82	0.728	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-SB-09-1012'

Lab Sample ID: 620-10149-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.134		0.0786	0.0516	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.106		0.0786	0.0455	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.276		0.0786	0.0442	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.289		0.0786	0.0562	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.202		0.0786	0.0652	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.192		0.0786	0.0614	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.140		0.0786	0.0611	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.351		0.0786	0.0444	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0863		0.0786	0.0600	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.468		0.0786	0.0461	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.193		0.0786	0.0667	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.214		0.0786	0.0445	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.748		0.0786	0.0434	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.59		2.92	1.36	mg/Kg	1	☼	6010D	Total/NA
Barium	25.3		0.486	0.146	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.298	J	0.486	0.0972	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.27		1.46	0.340	mg/Kg	1	☼	6010D	Total/NA
Lead	6.78		1.46	0.583	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.78		0.972	0.253	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.98		0.972	0.418	mg/Kg	1	☼	6010D	Total/NA
Zinc	17.5	^5-	1.94	0.778	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-09-0002'

Lab Sample ID: 620-10149-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.0343	J B *3	0.0591	0.0132	mg/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-09-0002' (Continued) Lab Sample ID: 620-10149-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0843		0.0741	0.0487	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0602	J	0.0741	0.0429	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.276		0.0741	0.0417	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.280		0.0741	0.0530	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.433		0.0741	0.0614	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.274		0.0741	0.0579	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.368		0.0741	0.0577	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.487		0.0741	0.0419	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0988		0.0741	0.0565	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.527		0.0741	0.0434	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.240		0.0741	0.0629	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.426		0.0741	0.0420	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.589		0.0741	0.0409	mg/Kg	1	☼	8270D	Total/NA
C5-C8 Aliphatics (adjusted)	0.229	J	0.347	0.178	mg/Kg	1		MA VPH SUM	Total/NA
C9-C12 Aliphatics (adjusted)	0.185	J	0.347	0.149	mg/Kg	1		MA VPH SUM	Total/NA
C5-C8 Aliphatics (unadjusted)	0.229	J	0.347	0.178	mg/Kg	1	☼	MAVPH	Total/NA
C9-C12 Aliphatics (unadjusted)	0.185	J	0.347	0.149	mg/Kg	1	☼	MAVPH	Total/NA
PCB-1254	0.185		0.0215	0.0167	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.0707		0.0215	0.00462	mg/Kg	1	☼	8082	Total/NA
Arsenic	5.25		3.12	1.46	mg/Kg	1	☼	6010D	Total/NA
Barium	129		0.520	0.156	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.576		0.520	0.104	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.70		1.56	0.364	mg/Kg	1	☼	6010D	Total/NA
Lead	50.9		1.56	0.624	mg/Kg	1	☼	6010D	Total/NA
Nickel	6.52		1.04	0.270	mg/Kg	1	☼	6010D	Total/NA
Vanadium	12.7		1.04	0.447	mg/Kg	1	☼	6010D	Total/NA
Zinc	63.5		2.08	0.832	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0256	J	0.0652	0.0217	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-MW-09-0204' Lab Sample ID: 620-10149-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.0594	J	0.0681	0.0385	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.0894		0.0681	0.0399	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0687		0.0681	0.0386	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.0885		0.0681	0.0376	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.47		2.99	1.40	mg/Kg	1	☼	6010D	Total/NA
Barium	39.5		0.499	0.150	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.341	J	0.499	0.0998	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.14		1.50	0.349	mg/Kg	1	☼	6010D	Total/NA
Lead	10.2		1.50	0.599	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.67		0.998	0.260	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.95		0.998	0.429	mg/Kg	1	☼	6010D	Total/NA
Zinc	15.3		2.00	0.799	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-09-0406' Lab Sample ID: 620-10149-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.02		2.60	1.21	mg/Kg	1	☼	6010D	Total/NA
Barium	19.1		0.433	0.130	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.208	J	0.433	0.0867	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.93	B	1.30	0.303	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-MW-09-0406' (Continued)

Lab Sample ID: 620-10149-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.45	F1	1.30	0.520	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.94		0.867	0.225	mg/Kg	1	☼	6010D	Total/NA
Vanadium	7.09		0.867	0.373	mg/Kg	1	☼	6010D	Total/NA
Zinc	8.96		1.73	0.693	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-09-0608'

Lab Sample ID: 620-10149-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.86		2.52	1.17	mg/Kg	1	☼	6010D	Total/NA
Barium	15.8		0.419	0.126	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.190	J	0.419	0.0839	mg/Kg	1	☼	6010D	Total/NA
Chromium	4.22		1.26	0.294	mg/Kg	1	☼	6010D	Total/NA
Lead	2.49		1.26	0.503	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.86		0.839	0.218	mg/Kg	1	☼	6010D	Total/NA
Vanadium	6.76		0.839	0.361	mg/Kg	1	☼	6010D	Total/NA
Zinc	12.6		1.68	0.671	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-09-0810'

Lab Sample ID: 620-10149-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.33		2.72	1.27	mg/Kg	1	☼	6010D	Total/NA
Barium	53.6		0.453	0.136	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.847		0.453	0.0905	mg/Kg	1	☼	6010D	Total/NA
Chromium	15.3		1.36	0.317	mg/Kg	1	☼	6010D	Total/NA
Lead	5.90		1.36	0.543	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.03		0.905	0.235	mg/Kg	1	☼	6010D	Total/NA
Vanadium	25.4		0.905	0.389	mg/Kg	1	☼	6010D	Total/NA
Zinc	34.4		1.81	0.724	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-MW-09-1012'

Lab Sample ID: 620-10149-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.07		3.41	1.59	mg/Kg	1	☼	6010D	Total/NA
Barium	42.6		0.568	0.170	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.519	J	0.568	0.114	mg/Kg	1	☼	6010D	Total/NA
Chromium	12.1		1.70	0.397	mg/Kg	1	☼	6010D	Total/NA
Lead	4.77		1.70	0.681	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.52		1.14	0.295	mg/Kg	1	☼	6010D	Total/NA
Vanadium	18.4		1.14	0.488	mg/Kg	1	☼	6010D	Total/NA
Zinc	26.7		2.27	0.908	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: 2023-FD-08

Lab Sample ID: 620-10149-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate	0.171	J *1	0.185	0.0471	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0320		0.0221	0.0172	mg/Kg	1	☼	8082	Total/NA
Arsenic	2.77	J	3.02	1.41	mg/Kg	1	☼	6010D	Total/NA
Barium	12.6		0.504	0.151	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.491	J	0.504	0.101	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.40		1.51	0.353	mg/Kg	1	☼	6010D	Total/NA
Lead	8.56		1.51	0.604	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.95		1.01	0.262	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.76		1.01	0.433	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 2023-FD-08 (Continued)

Lab Sample ID: 620-10149-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	17.5		2.01	0.806	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0385	J	0.0629	0.0210	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: 2023-FD-09

Lab Sample ID: 620-10149-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.154		0.0790	0.0518	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.0987		0.0790	0.0457	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.280		0.0790	0.0444	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.283		0.0790	0.0565	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.268		0.0790	0.0655	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.219		0.0790	0.0617	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.195		0.0790	0.0614	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.356		0.0790	0.0446	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0841		0.0790	0.0603	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.417		0.0790	0.0463	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.190		0.0790	0.0670	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.236		0.0790	0.0447	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.731		0.0790	0.0436	mg/Kg	1	☼	8270D	Total/NA
PCB-1254	0.0310		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA
Arsenic	4.36		2.53	1.18	mg/Kg	1	☼	6010D	Total/NA
Barium	23.0		0.422	0.127	mg/Kg	1	☼	6010D	Total/NA
Beryllium	0.305	J	0.422	0.0844	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.33		1.27	0.296	mg/Kg	1	☼	6010D	Total/NA
Lead	6.18		1.27	0.507	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.30		0.844	0.220	mg/Kg	1	☼	6010D	Total/NA
Vanadium	8.91		0.844	0.363	mg/Kg	1	☼	6010D	Total/NA
Zinc	16.7		1.69	0.675	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: Trip Blank-08

Lab Sample ID: 620-10149-33

No Detections.

Client Sample ID: 2023-MW-03-1012'

Lab Sample ID: 620-10149-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.25		3.15	1.47	mg/Kg	1	☼	6010D	Total/NA
Barium	109		0.525	0.158	mg/Kg	1	☼	6010D	Total/NA
Beryllium	1.44		0.525	0.105	mg/Kg	1	☼	6010D	Total/NA
Chromium	32.0		1.58	0.368	mg/Kg	1	☼	6010D	Total/NA
Copper	27.8		2.10	0.809	mg/Kg	1	☼	6010D	Total/NA
Lead	10.2		1.58	0.630	mg/Kg	1	☼	6010D	Total/NA
Nickel	21.0		1.05	0.273	mg/Kg	1	☼	6010D	Total/NA
Silver	0.501	J	1.05	0.420	mg/Kg	1	☼	6010D	Total/NA
Vanadium	53.3		1.05	0.452	mg/Kg	1	☼	6010D	Total/NA
Zinc	74.6		2.10	0.840	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0002'
Date Collected: 03/06/23 08:45
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-1
Matrix: Solid
Percent Solids: 92.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00579	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Acetone	ND		0.0579	0.0130	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Acrylonitrile	ND		0.00579	0.00348	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Benzene	ND		0.00579	0.00387	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Bromobenzene	ND		0.00579	0.00386	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Bromochloromethane	ND		0.00579	0.00329	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Bromodichloromethane	ND		0.00579	0.00425	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Bromoform	ND		0.00579	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Bromomethane	ND	*+	0.0116	0.00722	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
2-Butanone (MEK)	ND		0.0116	0.00461	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
n-Butylbenzene	ND	*3	0.0116	0.00621	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
sec-Butylbenzene	ND		0.00579	0.00467	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
tert-Butylbenzene	ND		0.00579	0.00456	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Carbon disulfide	ND		0.0116	0.00407	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Carbon tetrachloride	ND		0.00579	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Chlorobenzene	ND		0.00579	0.00424	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Chloroethane	ND	*+	0.0116	0.00425	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Chloroform	ND		0.00579	0.00389	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Chloromethane	ND		0.0116	0.00445	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
2-Chlorotoluene	ND		0.00579	0.00461	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
4-Chlorotoluene	ND		0.00579	0.00503	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0116	0.00491	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Dibromochloromethane	ND		0.00579	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2-Dibromoethane (EDB)	ND		0.00579	0.00416	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Dibromomethane	ND		0.00579	0.00341	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2-Dichlorobenzene	ND	*3	0.00579	0.00538	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,3-Dichlorobenzene	ND		0.00579	0.00465	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,4-Dichlorobenzene	ND	*3	0.00579	0.00549	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Dichlorodifluoromethane (Freon 12)	ND		0.0116	0.00310	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,1-Dichloroethane	ND		0.00579	0.00393	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2-Dichloroethane	ND		0.00579	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,1-Dichloroethene	ND		0.00579	0.00354	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
cis-1,2-Dichloroethene	ND		0.00579	0.00335	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
trans-1,2-Dichloroethene	ND		0.00579	0.00360	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2-Dichloropropane	ND		0.00579	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,3-Dichloropropane	ND		0.00579	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
2,2-Dichloropropane	ND		0.00579	0.00400	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,1-Dichloropropene	ND		0.00579	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
cis-1,3-Dichloropropene	ND		0.00579	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
trans-1,3-Dichloropropene	ND		0.00579	0.00440	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Ethylbenzene	ND		0.00579	0.00414	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Hexachlorobutadiene	ND	*3	0.0116	0.00583	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
2-Hexanone (MBK)	ND		0.0116	0.00341	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Isopropylbenzene	ND		0.00579	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
4-Isopropyltoluene	ND	*3	0.00579	0.00569	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Methyl tert-butyl ether	ND		0.00579	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
4-Methyl-2-pentanone (MIBK)	ND		0.0116	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Methylene Chloride	ND		0.0116	0.00310	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Naphthalene	ND	*3	0.00579	0.00524	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1

Client Sample ID: 2023-MW-08-0002' **Lab Sample ID: 620-10149-1**
Date Collected: 03/06/23 08:45 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 92.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00579	0.00490	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Styrene	ND		0.00579	0.00448	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,1,1,2-Tetrachloroethane	ND		0.00579	0.00434	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,1,2,2-Tetrachloroethane	ND		0.00579	0.00531	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Tetrachloroethene	ND		0.00579	0.00322	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Toluene	ND		0.00579	0.00367	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2,3-Trichlorobenzene	**0.00551**	**J *3**	0.00579	0.00489	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2,4-Trichlorobenzene	ND		0.00579	0.00534	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,3,5-Trichlorobenzene	ND	*3	0.00579	0.00550	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,1,1-Trichloroethane	ND		0.00579	0.00395	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,1,2-Trichloroethane	ND		0.00579	0.00437	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Trichloroethene	ND		0.00579	0.00389	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Trichlorofluoromethane (Freon 11)	ND		0.00579	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2,3-Trichloropropane	ND		0.00579	0.00514	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,2,4-Trimethylbenzene	ND		0.00579	0.00490	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,3,5-Trimethylbenzene	ND		0.00579	0.00492	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Vinyl chloride	ND		0.00579	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
m,p-Xylene	ND		0.00579	0.00791	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
o-Xylene	ND		0.00579	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Tetrahydrofuran	ND		0.0116	0.00293	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Ethyl ether	ND		0.00579	0.00305	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Tert-amyl methyl ether	ND		0.00579	0.00458	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Ethyl tert-butyl ether	ND		0.00579	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
di-Isopropyl ether	ND		0.00579	0.00414	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
tert-Butanol	ND		0.116	0.0310	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,4-Dioxane	ND		0.116	0.0360	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
trans-1,4-Dichloro-2-butene	ND		0.0290	0.00427	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Ethanol	ND		1.16	0.0718	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
1,3-Dichloropropene, Total	ND		0.00579	0.00440	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1
Xylenes, Total	ND		0.0174	0.00579	mg/Kg	☼	03/13/23 09:42	03/13/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:12*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:12*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00524	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Acetone	ND		0.0524	0.0117	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Acrylonitrile	ND		0.00524	0.00314	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Benzene	ND		0.00524	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Bromobenzene	ND		0.00524	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Bromochloromethane	ND		0.00524	0.00297	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Bromodichloromethane	ND		0.00524	0.00384	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Bromoform	ND		0.00524	0.00400	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Bromomethane	ND		0.0105	0.00652	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
2-Butanone (MEK)	ND		0.0105	0.00417	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0002'
Date Collected: 03/06/23 08:45
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-1
Matrix: Solid
Percent Solids: 92.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0105	0.00561	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
sec-Butylbenzene	ND		0.00524	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
tert-Butylbenzene	ND		0.00524	0.00413	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Carbon disulfide	ND		0.0105	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Carbon tetrachloride	ND		0.00524	0.00330	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Chlorobenzene	ND		0.00524	0.00383	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Chloroethane	ND		0.0105	0.00384	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Chloroform	ND		0.00524	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Chloromethane	ND		0.0105	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
2-Chlorotoluene	ND		0.00524	0.00417	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
4-Chlorotoluene	ND		0.00524	0.00455	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.0105	0.00444	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Dibromochloromethane	ND		0.00524	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2-Dibromoethane (EDB)	ND		0.00524	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Dibromomethane	ND		0.00524	0.00308	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2-Dichlorobenzene	ND	*3	0.00524	0.00486	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,3-Dichlorobenzene	ND		0.00524	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,4-Dichlorobenzene	ND	*3	0.00524	0.00496	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0105	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,1-Dichloroethane	ND		0.00524	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2-Dichloroethane	ND		0.00524	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,1-Dichloroethene	ND		0.00524	0.00320	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
cis-1,2-Dichloroethene	ND		0.00524	0.00303	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
trans-1,2-Dichloroethene	ND		0.00524	0.00326	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2-Dichloropropane	ND		0.00524	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,3-Dichloropropane	ND		0.00524	0.00400	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
2,2-Dichloropropane	ND		0.00524	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,1-Dichloropropene	ND		0.00524	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
cis-1,3-Dichloropropene	ND		0.00524	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
trans-1,3-Dichloropropene	ND		0.00524	0.00398	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Ethylbenzene	ND		0.00524	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Hexachlorobutadiene	ND	*3	0.0105	0.00527	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
2-Hexanone (MBK)	ND		0.0105	0.00308	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Isopropylbenzene	ND		0.00524	0.00396	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
4-Isopropyltoluene	ND	*3	0.00524	0.00514	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Methyl tert-butyl ether	ND		0.00524	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00338	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Methylene Chloride	ND		0.0105	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Naphthalene	ND	*3	0.00524	0.00473	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
N-Propylbenzene	ND		0.00524	0.00443	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Styrene	ND		0.00524	0.00405	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,1,1,2-Tetrachloroethane	ND		0.00524	0.00393	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00524	0.00480	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Tetrachloroethene	ND		0.00524	0.00291	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Toluene	ND		0.00524	0.00332	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2,3-Trichlorobenzene	ND	*3	0.00524	0.00442	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2,4-Trichlorobenzene	ND		0.00524	0.00483	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,3,5-Trichlorobenzene	ND	*3	0.00524	0.00497	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,1,1-Trichloroethane	ND		0.00524	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1

Client Sample ID: 2023-MW-08-0002' **Lab Sample ID: 620-10149-1**
Date Collected: 03/06/23 08:45 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 92.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00524	0.00395	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Trichloroethene	ND		0.00524	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Trichlorofluoromethane (Freon 11)	ND		0.00524	0.00400	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2,3-Trichloropropane	ND		0.00524	0.00465	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,2,4-Trimethylbenzene	ND		0.00524	0.00443	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,3,5-Trimethylbenzene	ND		0.00524	0.00445	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Vinyl chloride	ND		0.00524	0.00319	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
m,p-Xylene	ND		0.00524	0.00715	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
o-Xylene	ND		0.00524	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Tetrahydrofuran	ND		0.0105	0.00265	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Ethyl ether	ND		0.00524	0.00275	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Tert-amyl methyl ether	ND		0.00524	0.00414	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Ethyl tert-butyl ether	ND		0.00524	0.00345	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
di-Isopropyl ether	ND		0.00524	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
tert-Butanol	ND		0.105	0.0281	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,4-Dioxane	ND		0.105	0.0326	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
trans-1,4-Dichloro-2-butene	ND		0.0262	0.00386	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Ethanol	ND		1.05	0.0649	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
1,3-Dichloropropene, Total	ND		0.00524	0.00398	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1
Xylenes, Total	ND		0.0157	0.00524	mg/Kg	☼	03/14/23 10:36	03/14/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:15*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:15*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.336	0.0598	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
1,2,4-Trichlorobenzene	ND		0.336	0.0770	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
1,2-Dichlorobenzene	ND		0.336	0.0648	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
1,3-Dichlorobenzene	ND		0.336	0.0814	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
1,4-Dichlorobenzene	ND		0.336	0.0791	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
1-Methylnaphthalene	**0.250**		0.0679	0.0570	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2,4,5-Trichlorophenol	ND		0.336	0.0385	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2,4,6-Trichlorophenol	ND		0.170	0.0415	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2,4-Dichlorophenol	ND		0.170	0.0677	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2,4-Dimethylphenol	ND		0.336	0.0493	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2,4-Dinitrophenol	ND		0.336	0.0884	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2,4-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2,6-Dinitrotoluene	ND		0.170	0.0398	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2-Chloronaphthalene	ND		0.336	0.0777	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2-Chlorophenol	ND		0.170	0.0695	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2-Methylnaphthalene	**0.236**		0.0679	0.0502	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2-Methylphenol	ND		0.336	0.0491	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2-Nitroaniline	ND		0.336	0.0320	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
2-Nitrophenol	ND		0.170	0.0604	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
3 & 4 Methylphenol	ND		0.336	0.0636	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
3,3'-Dichlorobenzidine	ND		0.336	0.0555	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0002'
Date Collected: 03/06/23 08:45
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-1
Matrix: Solid
Percent Solids: 92.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.336	0.0300	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
4,6-Dinitro-2-methylphenol	ND		0.336	0.0604	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
4-Bromophenyl phenyl ether	ND		0.336	0.0380	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
4-Chloro-3-methylphenol	ND		0.336	0.0658	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
4-Chloroaniline	ND		0.170	0.0258	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
4-Chlorophenyl phenyl ether	ND		0.336	0.0359	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
4-Nitroaniline	ND		0.170	0.0537	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
4-Nitrophenol	ND		0.336	0.117	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Acenaphthene	ND		0.0679	0.0542	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Acenaphthylene	**0.220**		0.0679	0.0446	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Acetophenone	ND		0.170	0.0414	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Aniline	ND		0.336	0.0258	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Anthracene	**0.257**		0.0679	0.0393	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Azobenzene/Diphenyldiazene	ND		0.336	0.0573	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzidine	ND		0.672	0.0995	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzo[a]anthracene	**0.755**		0.0679	0.0382	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzo[a]pyrene	**0.424**		0.0679	0.0486	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzo[b]fluoranthene	**0.751**		0.0679	0.0563	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzo[g,h,i]perylene	**0.220**		0.0679	0.0531	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzo[k]fluoranthene	**0.553**		0.0679	0.0528	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzoic acid	ND		0.336	0.231	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Benzyl alcohol	ND		0.336	0.0609	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Bis(2-chloroethoxy)methane	ND		0.336	0.0584	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Bis(2-chloroethyl)ether	ND		0.170	0.0556	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
bis (2-chloroisopropyl) ether	ND		0.170	0.0757	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Bis(2-ethylhexyl) phthalate	**0.317**		0.170	0.0433	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Butyl benzyl phthalate	ND		0.336	0.0337	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Carbazole	**0.0924**	**J**	0.170	0.0445	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Chrysene	**1.01**		0.0679	0.0384	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Dibenz(a,h)anthracene	**0.116**		0.0679	0.0518	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Dibenzofuran	**0.0708**	**J**	0.170	0.0589	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Diethyl phthalate	ND		0.336	0.0369	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Dimethyl phthalate	ND		0.336	0.0438	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Di-n-butyl phthalate	**0.391**		0.336	0.0359	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Di-n-octyl phthalate	ND		0.336	0.0555	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Fluoranthene	**1.95**		0.0679	0.0398	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Fluorene	ND		0.0679	0.0620	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Hexachlorobenzene	ND		0.170	0.0471	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Hexachlorobutadiene	ND		0.170	0.0848	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Hexachlorocyclopentadiene	ND		0.170	0.0650	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Hexachloroethane	ND		0.170	0.0668	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Indeno[1,2,3-cd]pyrene	**0.254**		0.0679	0.0576	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Isophorone	ND		0.170	0.0465	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Naphthalene	**0.189**		0.0679	0.0652	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Nitrobenzene	ND		0.170	0.0785	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
N-Nitrosodimethylamine	ND		0.170	0.0446	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
N-Nitrosodi-n-propylamine	ND		0.170	0.0677	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
N-Nitrosodiphenylamine	ND		0.336	0.0429	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Pentachloronitrobenzene	ND		0.336	0.0531	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1

Client Sample ID: 2023-MW-08-0002' **Lab Sample ID: 620-10149-1**
Date Collected: 03/06/23 08:45 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 92.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.336	0.137	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Phenanthrene	**0.532**		0.0679	0.0385	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Phenol	ND		0.336	0.0692	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Pyrene	**1.83**		0.0679	0.0375	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1
Pyridine	ND		0.336	0.0795	mg/Kg	☼	03/17/23 08:54	03/20/23 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*38*		*30 - 130*	*03/17/23 08:54*	*03/20/23 19:23*	*1*
2-Fluorophenol (Surr)	*34*		*15 - 110*	*03/17/23 08:54*	*03/20/23 19:23*	*1*
Nitrobenzene-d5 (Surr)	*31*		*30 - 130*	*03/17/23 08:54*	*03/20/23 19:23*	*1*
Phenol-d5 (Surr)	*31*		*15 - 110*	*03/17/23 08:54*	*03/20/23 19:23*	*1*
2,4,6-Tribromophenol (Surr)	*33*		*15 - 110*	*03/17/23 08:54*	*03/20/23 19:23*	*1*
Terphenyl-d14	*30*		*30 - 130*	*03/17/23 08:54*	*03/20/23 19:23*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**1.03**		0.283	0.145	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	**0.257**	**J**	0.283	0.121	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0567	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
Ethylbenzene	ND		0.0567	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
Methyl tert-butyl ether	ND		0.0567	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
Naphthalene	**0.102**	**B**	0.0567	0.0385	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
o-Xylene	**0.0355**	**J**	0.0567	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
Toluene	**0.0130**	**J**	0.0567	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
C5-C8 Aliphatics (unadjusted)	**1.04**		0.283	0.145	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
C9-C10 Aromatics	**0.152**	**J**	0.283	0.0397	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1
C9-C12 Aliphatics (unadjusted)	**0.444**		0.283	0.121	mg/Kg	☼	03/10/23 07:32	03/11/23 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/10/23 07:32*	*03/11/23 04:51*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/10/23 07:32*	*03/11/23 04:51*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0212	0.0153	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1221	ND		0.0212	0.00626	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1232	ND		0.0212	0.00587	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1242	ND		0.0212	0.00335	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1248	ND		0.0212	0.00662	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1254	**0.913**		0.0212	0.0165	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1262	ND		0.0212	0.00494	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1260	ND		0.0212	0.00456	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1
PCB-1268	ND		0.0212	0.00451	mg/Kg	☼	03/10/23 15:38	03/14/23 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*03/10/23 15:38*	*03/14/23 05:50*	*1*
Tetrachloro-m-xylene	*77*		*30 - 150*	*03/10/23 15:38*	*03/14/23 05:50*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0002'
Date Collected: 03/06/23 08:45
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-1
Matrix: Solid
Percent Solids: 92.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	136		30 - 150	03/10/23 15:38	03/14/23 05:50	1
DCB Decachlorobiphenyl (Surr)	100		30 - 150	03/10/23 15:38	03/14/23 05:50	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluoroheptanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorooctanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorononanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorodecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorotridecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorotetradecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorobutanesulfonic acid	ND		2.06	0.412	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorohexanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorooctanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
NEtFOSAA	ND		2.06	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
NMeFOSAA	ND		2.06	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
10:2 FTS	ND		2.06	0.618	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluoropentanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluoroheptanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorononanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorodecanesulfonic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.06	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorooctanesulfonamide	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorohexadecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorooctadecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorobutanoic acid	ND		2.06	0.825	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluoropentanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
NMeFOSE	ND		2.06	0.515	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
NMeFOSA	ND		2.06	0.515	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
NEtFOSE	ND		2.06	0.515	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
NEtFOSA	ND		2.06	0.515	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
HFPODA	ND		2.06	1.03	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
DONA	ND		3.09	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
9Cl-PF3ONS	ND		2.06	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
11Cl-PF3OUdS	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluorododecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
4:2 Fluorotelomer sulfonic acid	ND		2.06	0.618	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
Perfluoroundecanoic acid	ND		0.618	0.206	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
6:2 Fluorotelomer sulfonic acid	ND		2.06	0.618	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1
8:2 Fluorotelomer sulfonic acid	ND		3.09	0.618	ug/Kg	☼	03/13/23 07:31	03/22/23 20:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	86		10 - 200	03/13/23 07:31	03/22/23 20:27	1
M2-8:2 FTS	78		15 - 200	03/13/23 07:31	03/22/23 20:27	1
M2-6:2 FTS	83		10 - 200	03/13/23 07:31	03/22/23 20:27	1
13C5 PFHxA	82		10 - 174	03/13/23 07:31	03/22/23 20:27	1
13C4 PFHpA	79		10 - 178	03/13/23 07:31	03/22/23 20:27	1
13C8 PFOA	79		26 - 159	03/13/23 07:31	03/22/23 20:27	1

Client Sample ID: 2023-MW-08-0002' **Lab Sample ID: 620-10149-1**
Date Collected: 03/06/23 08:45 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 92.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	80		26 - 165	03/13/23 07:31	03/22/23 20:27	1
13C6 PFDA	80		26 - 161	03/13/23 07:31	03/22/23 20:27	1
13C7 PFUnA	74		12 - 173	03/13/23 07:31	03/22/23 20:27	1
13C2-PFDoDA	82		11 - 166	03/13/23 07:31	03/22/23 20:27	1
13C2 PFTeDA	82		10 - 169	03/13/23 07:31	03/22/23 20:27	1
13C3 PFBS	82		27 - 179	03/13/23 07:31	03/22/23 20:27	1
13C3 PFHxS	88		24 - 171	03/13/23 07:31	03/22/23 20:27	1
13C8 PFOS	87		41 - 154	03/13/23 07:31	03/22/23 20:27	1
d3-NMeFOSAA	60		10 - 178	03/13/23 07:31	03/22/23 20:27	1
d5-NEtFOSAA	64		10 - 193	03/13/23 07:31	03/22/23 20:27	1
13C8 FOSA	69		14 - 163	03/13/23 07:31	03/22/23 20:27	1
13C4 PFBA	75		28 - 153	03/13/23 07:31	03/22/23 20:27	1
13C5 PFPeA	75		24 - 161	03/13/23 07:31	03/22/23 20:27	1
d7-N-MeFOSE-M	75		10 - 179	03/13/23 07:31	03/22/23 20:27	1
d3-NMePFOSA	65		10 - 175	03/13/23 07:31	03/22/23 20:27	1
d9-N-EtFOSE-M	75		10 - 185	03/13/23 07:31	03/22/23 20:27	1
d5-NEtPFOSA	66		10 - 180	03/13/23 07:31	03/22/23 20:27	1
13C3 HFPO-DA	75		10 - 169	03/13/23 07:31	03/22/23 20:27	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.15	1.75	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Arsenic	**11.7**		3.09	1.44	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Barium	**32.7**		0.515	0.155	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Beryllium	**0.222**	**J**	0.515	0.103	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Cadmium	**0.222**	**J**	0.515	0.103	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Chromium	**7.77**		1.55	0.361	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Lead	**35.4**		1.55	0.618	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Nickel	**5.09**		1.03	0.268	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Selenium	ND		5.15	1.55	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Silver	ND		1.03	0.412	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Thallium	ND		3.09	1.34	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Vanadium	**9.93**		1.03	0.443	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1
Zinc	**37.4**		2.06	0.825	mg/Kg	☼	03/15/23 14:43	03/16/23 16:19	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0628**		0.0609	0.0203	mg/Kg	☼	03/10/23 05:20	03/13/23 13:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.6**		0.1	0.1	%			03/08/23 09:05	1
Percent Solids (EPA Moisture)	**92.4**		0.1	0.1	%			03/08/23 09:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0204'
Date Collected: 03/06/23 08:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-2
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00517	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Acetone	ND		0.0517	0.0116	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Acrylonitrile	ND		0.00517	0.00310	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Benzene	ND		0.00517	0.00345	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Bromobenzene	ND		0.00517	0.00344	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Bromochloromethane	ND		0.00517	0.00294	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Bromodichloromethane	ND		0.00517	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Bromoform	ND		0.00517	0.00395	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Bromomethane	ND	*+	0.0103	0.00644	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
2-Butanone (MEK)	ND		0.0103	0.00412	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
n-Butylbenzene	ND		0.0103	0.00554	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
sec-Butylbenzene	ND		0.00517	0.00417	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
tert-Butylbenzene	ND		0.00517	0.00408	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Carbon disulfide	ND		0.0103	0.00363	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Carbon tetrachloride	ND		0.00517	0.00326	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Chlorobenzene	ND		0.00517	0.00379	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Chloroethane	ND	*+	0.0103	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Chloroform	ND		0.00517	0.00348	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Chloromethane	ND		0.0103	0.00397	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
2-Chlorotoluene	ND		0.00517	0.00412	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
4-Chlorotoluene	ND		0.00517	0.00449	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2-Dibromo-3-Chloropropane	ND		0.0103	0.00439	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Dibromochloromethane	ND		0.00517	0.00342	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2-Dibromoethane (EDB)	ND		0.00517	0.00371	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Dibromomethane	ND		0.00517	0.00304	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2-Dichlorobenzene	ND		0.00517	0.00480	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,3-Dichlorobenzene	ND		0.00517	0.00415	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,4-Dichlorobenzene	ND		0.00517	0.00490	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Dichlorodifluoromethane (Freon 12)	ND		0.0103	0.00277	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,1-Dichloroethane	ND		0.00517	0.00351	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2-Dichloroethane	ND		0.00517	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,1-Dichloroethene	ND		0.00517	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
cis-1,2-Dichloroethene	ND		0.00517	0.00299	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
trans-1,2-Dichloroethene	ND		0.00517	0.00322	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2-Dichloropropane	ND		0.00517	0.00342	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,3-Dichloropropane	ND		0.00517	0.00395	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
2,2-Dichloropropane	ND		0.00517	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,1-Dichloropropene	ND		0.00517	0.00352	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
cis-1,3-Dichloropropene	ND		0.00517	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
trans-1,3-Dichloropropene	ND		0.00517	0.00393	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Ethylbenzene	ND		0.00517	0.00369	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Hexachlorobutadiene	ND		0.0103	0.00520	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
2-Hexanone (MBK)	ND		0.0103	0.00304	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Isopropylbenzene	ND		0.00517	0.00391	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
4-Isopropyltoluene	ND		0.00517	0.00508	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Methyl tert-butyl ether	ND		0.00517	0.00298	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
4-Methyl-2-pentanone (MIBK)	ND		0.0103	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Methylene Chloride	ND		0.0103	0.00277	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Naphthalene	ND		0.00517	0.00468	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1

Client Sample ID: 2023-MW-08-0204' **Lab Sample ID: 620-10149-2**
Date Collected: 03/06/23 08:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00517	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Styrene	ND		0.00517	0.00400	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,1,1,2-Tetrachloroethane	ND		0.00517	0.00388	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,1,2,2-Tetrachloroethane	ND		0.00517	0.00474	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Tetrachloroethene	ND		0.00517	0.00288	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Toluene	ND		0.00517	0.00328	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2,3-Trichlorobenzene	ND		0.00517	0.00436	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2,4-Trichlorobenzene	ND		0.00517	0.00477	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,3,5-Trichlorobenzene	ND		0.00517	0.00491	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,1,1-Trichloroethane	ND		0.00517	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,1,2-Trichloroethane	ND		0.00517	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Trichloroethene	ND		0.00517	0.00348	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Trichlorofluoromethane (Freon 11)	ND		0.00517	0.00395	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2,3-Trichloropropane	ND		0.00517	0.00459	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,2,4-Trimethylbenzene	ND		0.00517	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,3,5-Trimethylbenzene	ND		0.00517	0.00440	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Vinyl chloride	ND		0.00517	0.00315	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
m,p-Xylene	ND		0.00517	0.00706	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
o-Xylene	ND		0.00517	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Tetrahydrofuran	ND		0.0103	0.00262	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Ethyl ether	ND		0.00517	0.00272	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Tert-amyl methyl ether	ND		0.00517	0.00409	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Ethyl tert-butyl ether	ND		0.00517	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
di-Isopropyl ether	ND		0.00517	0.00369	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
tert-Butanol	ND		0.103	0.0277	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,4-Dioxane	ND		0.103	0.0322	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
trans-1,4-Dichloro-2-butene	ND		0.0259	0.00382	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Ethanol	ND		1.03	0.0641	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
1,3-Dichloropropene, Total	ND		0.00517	0.00393	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1
Xylenes, Total	ND		0.0155	0.00517	mg/Kg	☼	03/13/23 09:42	03/13/23 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:38*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:38*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*03/13/23 09:42*	*03/13/23 17:38*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.352	0.0627	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
1,2,4-Trichlorobenzene	ND		0.352	0.0807	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
1,2-Dichlorobenzene	ND		0.352	0.0679	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
1,3-Dichlorobenzene	ND		0.352	0.0853	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
1,4-Dichlorobenzene	ND		0.352	0.0829	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
1-Methylnaphthalene	ND		0.0712	0.0598	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2,4,5-Trichlorophenol	ND		0.352	0.0404	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2,4,6-Trichlorophenol	ND		0.178	0.0436	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2,4-Dichlorophenol	ND		0.178	0.0710	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2,4-Dimethylphenol	ND		0.352	0.0517	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2,4-Dinitrophenol	ND		0.352	0.0927	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0204'
Date Collected: 03/06/23 08:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-2
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.178	0.0417	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2,6-Dinitrotoluene	ND		0.178	0.0417	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2-Chloronaphthalene	ND		0.352	0.0814	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2-Chlorophenol	ND		0.178	0.0729	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2-Methylnaphthalene	ND		0.0712	0.0526	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2-Methylphenol	ND		0.352	0.0515	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2-Nitroaniline	ND		0.352	0.0335	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
2-Nitrophenol	ND		0.178	0.0633	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
3 & 4 Methylphenol	ND		0.352	0.0667	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
3,3'-Dichlorobenzidine	ND		0.352	0.0582	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
3-Nitroaniline	ND		0.352	0.0315	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
4,6-Dinitro-2-methylphenol	ND		0.352	0.0633	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
4-Bromophenyl phenyl ether	ND		0.352	0.0398	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
4-Chloro-3-methylphenol	ND		0.352	0.0690	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
4-Chloroaniline	ND		0.178	0.0270	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
4-Chlorophenyl phenyl ether	ND		0.352	0.0377	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
4-Nitroaniline	ND		0.178	0.0563	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
4-Nitrophenol	ND		0.352	0.123	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Acenaphthene	ND		0.0712	0.0568	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Acenaphthylene	ND		0.0712	0.0468	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Acetophenone	ND		0.178	0.0434	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Aniline	ND		0.352	0.0270	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Anthracene	ND		0.0712	0.0412	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Azobenzene/Diphenyldiazene	ND		0.352	0.0601	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzidine	ND		0.705	0.104	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzo[a]anthracene	ND		0.0712	0.0400	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzo[a]pyrene	ND		0.0712	0.0509	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzo[b]fluoranthene	ND		0.0712	0.0590	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzo[g,h,i]perylene	ND		0.0712	0.0556	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzo[k]fluoranthene	ND		0.0712	0.0554	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzoic acid	**1.03**		0.352	0.242	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Benzyl alcohol	ND		0.352	0.0638	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Bis(2-chloroethoxy)methane	ND		0.352	0.0613	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Bis(2-chloroethyl)ether	ND		0.178	0.0583	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
bis (2-chloroisopropyl) ether	ND		0.178	0.0793	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Bis(2-ethylhexyl) phthalate	ND		0.178	0.0454	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Butyl benzyl phthalate	ND		0.352	0.0353	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Carbazole	ND		0.178	0.0466	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Chrysene	ND		0.0712	0.0402	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Dibenz(a,h)anthracene	ND		0.0712	0.0543	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Dibenzofuran	ND		0.178	0.0617	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Diethyl phthalate	ND		0.352	0.0386	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Dimethyl phthalate	ND		0.352	0.0459	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Di-n-butyl phthalate	ND		0.352	0.0377	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Di-n-octyl phthalate	ND		0.352	0.0582	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Fluoranthene	ND		0.0712	0.0417	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Fluorene	ND		0.0712	0.0650	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Hexachlorobenzene	ND		0.178	0.0494	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Hexachlorobutadiene	ND		0.178	0.0889	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1

Client Sample ID: 2023-MW-08-0204' **Lab Sample ID: 620-10149-2**
Date Collected: 03/06/23 08:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.178	0.0681	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Hexachloroethane	ND		0.178	0.0700	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Indeno[1,2,3-cd]pyrene	ND		0.0712	0.0604	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Isophorone	ND		0.178	0.0488	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Naphthalene	ND		0.0712	0.0683	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Nitrobenzene	ND		0.178	0.0823	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
N-Nitrosodimethylamine	ND		0.178	0.0468	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
N-Nitrosodi-n-propylamine	ND		0.178	0.0710	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
N-Nitrosodiphenylamine	ND		0.352	0.0449	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Pentachloronitrobenzene	ND		0.352	0.0556	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Pentachlorophenol	ND		0.352	0.144	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Phenanthrene	ND		0.0712	0.0404	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Phenol	ND		0.352	0.0726	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Pyrene	ND		0.0712	0.0393	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1
Pyridine	ND		0.352	0.0834	mg/Kg	☼	03/17/23 08:54	03/20/23 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*30 - 130*	*03/17/23 08:54*	*03/20/23 13:41*	*1*
2-Fluorophenol (Surr)	*75*		*15 - 110*	*03/17/23 08:54*	*03/20/23 13:41*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/17/23 08:54*	*03/20/23 13:41*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/17/23 08:54*	*03/20/23 13:41*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*	*03/17/23 08:54*	*03/20/23 13:41*	*1*
Terphenyl-d14	*63*		*30 - 130*	*03/17/23 08:54*	*03/20/23 13:41*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.113	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0530	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
Ethylbenzene	ND		0.0530	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
Methyl tert-butyl ether	ND		0.0530	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
Naphthalene	ND		0.0530	0.0361	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
o-Xylene	ND		0.0530	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
Toluene	ND		0.0530	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
C9-C10 Aromatics	ND		0.265	0.0371	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.113	mg/Kg	☼	03/10/23 07:32	03/11/23 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/10/23 07:32*	*03/11/23 05:30*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/10/23 07:32*	*03/11/23 05:30*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0208	0.0150	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1
PCB-1221	ND		0.0208	0.00615	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1
PCB-1232	ND		0.0208	0.00576	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1

Client Sample ID: 2023-MW-08-0204'
Date Collected: 03/06/23 08:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-2
Matrix: Solid
Percent Solids: 93.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0208	0.00329	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1
PCB-1248	ND		0.0208	0.00650	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1
PCB-1254	ND		0.0208	0.0162	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1
PCB-1262	ND		0.0208	0.00485	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1
PCB-1260	ND		0.0208	0.00447	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1
PCB-1268	ND		0.0208	0.00443	mg/Kg	☼	03/10/23 15:38	03/14/23 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:33*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:33*	*1*
DCB Decachlorobiphenyl (Surr)	*115*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:33*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:33*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluoroheptanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorooctanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorononanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorodecanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorotridecanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorotetradecanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorobutanesulfonic acid	ND		2.02	0.405	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorohexanesulfonic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorooctanesulfonic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
NEtFOSAA	ND		2.02	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
NMeFOSAA	ND		2.02	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
10:2 FTS	ND		2.02	0.607	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluoropentanesulfonic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluoroheptanesulfonic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorononanesulfonic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorodecanesulfonic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.02	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorooctanesulfonamide	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorohexadecanoic acid	**0.209**	**J**	0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorooctadecanoic acid	**0.340**	**J ^2**	0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorobutanoic acid	ND		2.02	0.810	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluoropentanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
NMeFOSE	ND		2.02	0.506	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
NMeFOSA	ND		2.02	0.506	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
NEtFOSE	ND		2.02	0.506	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
NEtFOSA	ND		2.02	0.506	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
HFPODA	ND		2.02	1.01	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
DONA	ND		3.04	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
9Cl-PF3ONS	ND		2.02	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
11Cl-PF3OUdS	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluorododecanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
4:2 Fluorotelomer sulfonic acid	ND		2.02	0.607	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
Perfluoroundecanoic acid	ND		0.607	0.202	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1

Client Sample ID: 2023-MW-08-0204' **Lab Sample ID: 620-10149-2**
Date Collected: 03/06/23 08:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.02	0.607	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1
8:2 Fluorotelomer sulfonic acid	ND		3.04	0.607	ug/Kg	☼	03/28/23 09:11	03/30/23 18:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*60*		*10 - 200*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
M2-8:2 FTS	*72*		*15 - 200*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
M2-6:2 FTS	*68*		*10 - 200*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C5 PFHxA	*59*		*10 - 174*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C4 PFHpA	*62*		*10 - 178*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C8 PFOA	*61*		*26 - 159*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C9 PFNA	*64*		*26 - 165*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C6 PFDA	*61*		*26 - 161*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C7 PFUnA	*64*		*12 - 173*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C2-PFDoDA	*68*		*11 - 166*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C2 PFTeDA	*69*		*10 - 169*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C3 PFHxS	*100*		*24 - 171*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C8 PFOS	*97*		*41 - 154*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
d3-NMeFOSAA	*13*		*10 - 178*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
d5-NEtFOSAA	*18*		*10 - 193*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C8 FOSA	*104*		*14 - 163*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C4 PFBA	*52*		*28 - 153*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C5 PFPeA	*53*		*24 - 161*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
d7-N-MeFOSE-M	*147*		*10 - 179*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
d3-NMePFOSA	*110*		*10 - 175*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
d9-N-EtFOSE-M	*162*		*10 - 185*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
d5-NEtPFOSA	*120*		*10 - 180*	*03/28/23 09:11*	*03/30/23 18:38*	*1*
13C3 HFPO-DA	*58*		*10 - 169*	*03/28/23 09:11*	*03/30/23 18:38*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.75	1.28	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Arsenic	**4.03**		2.25	1.05	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Barium	**15.1**		0.375	0.113	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Beryllium	**0.206**	**J**	0.375	0.0750	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Cadmium	ND		0.375	0.0750	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Chromium	**4.18**		1.13	0.263	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Lead	**3.68**		1.13	0.450	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Nickel	**2.01**		0.750	0.195	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Selenium	ND		3.75	1.13	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Silver	ND		0.750	0.300	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Thallium	**1.29**	**J**	2.25	0.975	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Vanadium	**7.15**		0.750	0.323	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1
Zinc	**13.1**		1.50	0.600	mg/Kg	☼	03/10/23 04:52	03/14/23 10:35	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0301**	**J**	0.0613	0.0204	mg/Kg	☼	03/10/23 05:20	03/13/23 13:38	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0204'
Date Collected: 03/06/23 08:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-2
Matrix: Solid
Percent Solids: 93.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.8		0.1	0.1	%			03/08/23 09:05	1
Percent Solids (EPA Moisture)	93.2		0.1	0.1	%			03/08/23 09:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0406'
Date Collected: 03/06/23 08:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-3
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00537	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Acetone	ND		0.0537	0.0120	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Acrylonitrile	ND		0.00537	0.00322	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Benzene	ND		0.00537	0.00359	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Bromobenzene	ND		0.00537	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Bromochloromethane	ND		0.00537	0.00305	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Bromodichloromethane	ND		0.00537	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Bromoform	ND		0.00537	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Bromomethane	ND	*+	0.0107	0.00669	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
2-Butanone (MEK)	ND		0.0107	0.00428	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
n-Butylbenzene	ND		0.0107	0.00576	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
sec-Butylbenzene	ND		0.00537	0.00433	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
tert-Butylbenzene	ND		0.00537	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Carbon disulfide	ND		0.0107	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Carbon tetrachloride	ND		0.00537	0.00338	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Chlorobenzene	ND		0.00537	0.00393	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Chloroethane	ND	*+	0.0107	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Chloroform	ND		0.00537	0.00361	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Chloromethane	ND		0.0107	0.00413	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
2-Chlorotoluene	ND		0.00537	0.00428	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
4-Chlorotoluene	ND		0.00537	0.00466	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2-Dibromo-3-Chloropropane	ND		0.0107	0.00456	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Dibromochloromethane	ND		0.00537	0.00356	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2-Dibromoethane (EDB)	ND		0.00537	0.00386	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Dibromomethane	ND		0.00537	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2-Dichlorobenzene	ND		0.00537	0.00499	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,3-Dichlorobenzene	ND		0.00537	0.00431	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,4-Dichlorobenzene	ND		0.00537	0.00509	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Dichlorodifluoromethane (Freon 12)	ND		0.0107	0.00288	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,1-Dichloroethane	ND		0.00537	0.00364	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2-Dichloroethane	ND		0.00537	0.00362	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,1-Dichloroethene	ND		0.00537	0.00329	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
cis-1,2-Dichloroethene	ND		0.00537	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
trans-1,2-Dichloroethene	ND		0.00537	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2-Dichloropropane	ND		0.00537	0.00356	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,3-Dichloropropane	ND		0.00537	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
2,2-Dichloropropane	ND		0.00537	0.00371	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,1-Dichloropropene	ND		0.00537	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
cis-1,3-Dichloropropene	ND		0.00537	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
trans-1,3-Dichloropropene	ND		0.00537	0.00408	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Ethylbenzene	ND		0.00537	0.00384	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Hexachlorobutadiene	ND		0.0107	0.00541	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
2-Hexanone (MBK)	ND		0.0107	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Isopropylbenzene	ND		0.00537	0.00406	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
4-Isopropyltoluene	ND		0.00537	0.00528	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Methyl tert-butyl ether	ND		0.00537	0.00309	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
4-Methyl-2-pentanone (MIBK)	ND		0.0107	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Methylene Chloride	ND		0.0107	0.00288	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Naphthalene	ND		0.00537	0.00486	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1

Client Sample ID: 2023-MW-08-0406' **Lab Sample ID: 620-10149-3**
Date Collected: 03/06/23 08:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00537	0.00455	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Styrene	ND		0.00537	0.00416	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,1,1,2-Tetrachloroethane	ND		0.00537	0.00403	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,1,2,2-Tetrachloroethane	ND		0.00537	0.00492	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Tetrachloroethene	ND		0.00537	0.00299	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Toluene	ND		0.00537	0.00341	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2,3-Trichlorobenzene	ND		0.00537	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2,4-Trichlorobenzene	ND		0.00537	0.00495	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,3,5-Trichlorobenzene	ND		0.00537	0.00510	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,1,1-Trichloroethane	ND		0.00537	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,1,2-Trichloroethane	ND		0.00537	0.00405	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Trichloroethene	ND		0.00537	0.00361	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Trichlorofluoromethane (Freon 11)	ND		0.00537	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2,3-Trichloropropane	ND		0.00537	0.00477	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,2,4-Trimethylbenzene	ND		0.00537	0.00455	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,3,5-Trimethylbenzene	ND		0.00537	0.00457	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Vinyl chloride	ND		0.00537	0.00328	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
m,p-Xylene	ND		0.00537	0.00734	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
o-Xylene	ND		0.00537	0.00392	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Tetrahydrofuran	ND		0.0107	0.00272	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Ethyl ether	ND		0.00537	0.00283	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Tert-amyl methyl ether	ND		0.00537	0.00424	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Ethyl tert-butyl ether	ND		0.00537	0.00354	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
di-Isopropyl ether	ND		0.00537	0.00384	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
tert-Butanol	ND		0.107	0.0288	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,4-Dioxane	ND		0.107	0.0334	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
trans-1,4-Dichloro-2-butene	ND		0.0269	0.00397	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Ethanol	ND		1.07	0.0666	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
1,3-Dichloropropene, Total	ND		0.00537	0.00408	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1
Xylenes, Total	ND		0.0161	0.00537	mg/Kg	☼	03/13/23 09:42	03/13/23 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/13/23 09:42*	*03/13/23 18:04*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/13/23 09:42*	*03/13/23 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/13/23 09:42*	*03/13/23 18:04*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*	*03/13/23 09:42*	*03/13/23 18:04*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.361	0.0643	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
1,2,4-Trichlorobenzene	ND		0.361	0.0828	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
1,2-Dichlorobenzene	ND		0.361	0.0696	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
1,3-Dichlorobenzene	ND		0.361	0.0875	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
1,4-Dichlorobenzene	ND		0.361	0.0851	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
1-Methylnaphthalene	ND		0.0730	0.0613	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2,4,5-Trichlorophenol	ND		0.361	0.0414	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2,4,6-Trichlorophenol	ND		0.183	0.0447	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2,4-Dichlorophenol	ND		0.183	0.0728	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2,4-Dimethylphenol	ND		0.361	0.0530	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2,4-Dinitrophenol	ND		0.361	0.0950	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0406'
Date Collected: 03/06/23 08:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-3
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.183	0.0428	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2,6-Dinitrotoluene	ND		0.183	0.0428	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2-Chloronaphthalene	ND		0.361	0.0835	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2-Chlorophenol	ND		0.183	0.0748	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2-Methylnaphthalene	ND		0.0730	0.0540	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2-Methylphenol	ND		0.361	0.0528	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2-Nitroaniline	ND		0.361	0.0344	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
2-Nitrophenol	ND		0.183	0.0649	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
3 & 4 Methylphenol	ND		0.361	0.0684	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
3,3'-Dichlorobenzidine	ND		0.361	0.0597	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
3-Nitroaniline	ND		0.361	0.0323	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
4,6-Dinitro-2-methylphenol	ND		0.361	0.0649	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
4-Bromophenyl phenyl ether	ND		0.361	0.0408	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
4-Chloro-3-methylphenol	ND		0.361	0.0707	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
4-Chloroaniline	ND		0.183	0.0277	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
4-Chlorophenyl phenyl ether	ND		0.361	0.0386	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
4-Nitroaniline	ND		0.183	0.0577	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
4-Nitrophenol	ND		0.361	0.126	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Acenaphthene	ND		0.0730	0.0582	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Acenaphthylene	ND		0.0730	0.0480	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Acetophenone	ND		0.183	0.0446	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Aniline	ND		0.361	0.0277	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Anthracene	ND		0.0730	0.0423	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Azobenzene/Diphenyldiazene	ND		0.361	0.0616	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzidine	ND		0.723	0.107	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzo[a]anthracene	ND		0.0730	0.0411	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzo[a]pyrene	ND		0.0730	0.0522	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzo[b]fluoranthene	ND		0.0730	0.0605	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzo[g,h,i]perylene	ND		0.0730	0.0570	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzo[k]fluoranthene	ND		0.0730	0.0568	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzoic acid	ND		0.361	0.249	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Benzyl alcohol	ND		0.361	0.0655	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Bis(2-chloroethoxy)methane	ND		0.361	0.0628	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Bis(2-chloroethyl)ether	ND		0.183	0.0598	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
bis (2-chloroisopropyl) ether	ND		0.183	0.0814	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Bis(2-ethylhexyl) phthalate	**0.291**		0.183	0.0465	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Butyl benzyl phthalate	ND		0.361	0.0362	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Carbazole	ND		0.183	0.0478	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Chrysene	ND		0.0730	0.0413	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Dibenz(a,h)anthracene	ND		0.0730	0.0557	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Dibenzofuran	ND		0.183	0.0633	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Diethyl phthalate	ND		0.361	0.0396	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Dimethyl phthalate	ND		0.361	0.0471	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Di-n-butyl phthalate	ND		0.361	0.0386	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Di-n-octyl phthalate	ND		0.361	0.0597	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Fluoranthene	ND		0.0730	0.0428	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Fluorene	ND		0.0730	0.0667	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Hexachlorobenzene	ND		0.183	0.0507	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Hexachlorobutadiene	ND		0.183	0.0912	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1

Client Sample ID: 2023-MW-08-0406' **Lab Sample ID: 620-10149-3**
Date Collected: 03/06/23 08:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.183	0.0699	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Hexachloroethane	ND		0.183	0.0718	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Indeno[1,2,3-cd]pyrene	ND		0.0730	0.0620	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Isophorone	ND		0.183	0.0500	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Naphthalene	ND		0.0730	0.0701	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Nitrobenzene	ND		0.183	0.0844	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
N-Nitrosodimethylamine	ND		0.183	0.0480	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
N-Nitrosodi-n-propylamine	ND		0.183	0.0728	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
N-Nitrosodiphenylamine	ND		0.361	0.0461	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Pentachloronitrobenzene	ND		0.361	0.0570	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Pentachlorophenol	ND		0.361	0.148	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Phenanthrene	ND		0.0730	0.0414	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Phenol	ND		0.361	0.0745	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Pyrene	ND		0.0730	0.0403	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1
Pyridine	ND		0.361	0.0855	mg/Kg	☼	03/17/23 08:54	03/20/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:58*	*1*
2-Fluorophenol (Surr)	*80*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:58*	*1*
Nitrobenzene-d5 (Surr)	*66*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:58*	*1*
Phenol-d5 (Surr)	*75*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:58*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:58*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:58*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.209**	**J**	0.282	0.144	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.282	0.121	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0564	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
Ethylbenzene	ND		0.0564	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
Methyl tert-butyl ether	ND		0.0564	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
Naphthalene	ND		0.0564	0.0384	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
o-Xylene	ND		0.0564	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
Toluene	ND		0.0564	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
C5-C8 Aliphatics (unadjusted)	**0.209**	**J**	0.282	0.144	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
C9-C10 Aromatics	ND		0.282	0.0395	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1
C9-C12 Aliphatics (unadjusted)	ND		0.282	0.121	mg/Kg	☼	03/10/23 07:32	03/11/23 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/10/23 07:32*	*03/11/23 06:09*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/10/23 07:32*	*03/11/23 06:09*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1
PCB-1221	ND		0.0223	0.00659	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1
PCB-1232	ND		0.0223	0.00618	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1

Client Sample ID: 2023-MW-08-0406' **Lab Sample ID: 620-10149-3**
Date Collected: 03/06/23 08:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00353	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1
PCB-1248	ND		0.0223	0.00697	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1
PCB-1254	**0.0301**		0.0223	0.0174	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1
PCB-1262	ND		0.0223	0.00520	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1
PCB-1260	ND		0.0223	0.00480	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1
PCB-1268	ND		0.0223	0.00475	mg/Kg	☼	03/10/23 15:38	03/14/23 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:52*	*1*
Tetrachloro-m-xylene	*75*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:52*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:52*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:52*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluoroheptanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorooctanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorononanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorodecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorotridecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorotetradecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorobutanesulfonic acid	ND		2.05	0.410	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorohexanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorooctanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
NEtFOSAA	ND		2.05	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
NMeFOSAA	ND		2.05	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
10:2 FTS	ND		2.05	0.615	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluoropentanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluoroheptanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorononanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorodecanesulfonic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.05	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorooctanesulfonamide	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorohexadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorooctadecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorobutanoic acid	ND		2.05	0.820	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluoropentanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
NMeFOSE	ND		2.05	0.513	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
NMeFOSA	ND		2.05	0.513	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
NEtFOSE	ND		2.05	0.513	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
NEtFOSA	ND		2.05	0.513	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
HFPODA	ND		2.05	1.03	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
DONA	ND		3.08	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
9Cl-PF3ONS	ND		2.05	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
11Cl-PF3OUdS	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluorododecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
4:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
Perfluoroundecanoic acid	ND		0.615	0.205	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1

Client Sample ID: 2023-MW-08-0406' **Lab Sample ID: 620-10149-3**
Date Collected: 03/06/23 08:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.05	0.615	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1
8:2 Fluorotelomer sulfonic acid	ND		3.08	0.615	ug/Kg	☼	03/13/23 07:31	03/22/23 20:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*33*		*10 - 200*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
M2-8:2 FTS	*31*		*15 - 200*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
M2-6:2 FTS	*34*		*10 - 200*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C5 PFHxA	*37*		*10 - 174*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C4 PFHpA	*38*		*10 - 178*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C8 PFOA	*39*		*26 - 159*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C9 PFNA	*42*		*26 - 165*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C6 PFDA	*39*		*26 - 161*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C7 PFUnA	*38*		*12 - 173*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C2-PFDoDA	*40*		*11 - 166*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C2 PFTeDA	*41*		*10 - 169*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C3 PFBS	*45*		*27 - 179*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C3 PFHxS	*47*		*24 - 171*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C8 PFOS	*50*		*41 - 154*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
d3-NMeFOSAA	*12*		*10 - 178*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
d5-NEtFOSAA	*13*		*10 - 193*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C8 FOSA	*85*		*14 - 163*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C4 PFBA	*37*		*28 - 153*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C5 PFPeA	*37*		*24 - 161*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
d7-N-MeFOSE-M	*84*		*10 - 179*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
d3-NMePFOSA	*76*		*10 - 175*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
d9-N-EtFOSE-M	*81*		*10 - 185*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/13/23 07:31*	*03/22/23 20:50*	*1*
13C3 HFPO-DA	*40*		*10 - 169*	*03/13/23 07:31*	*03/22/23 20:50*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.40	1.50	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Arsenic	**2.01**	**J**	2.64	1.23	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Barium	**13.5**		0.440	0.132	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Beryllium	**0.368**	**J**	0.440	0.0881	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Cadmium	ND		0.440	0.0881	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Chromium	**5.30**		1.32	0.308	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Lead	**6.93**		1.32	0.529	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Nickel	**2.31**		0.881	0.229	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Selenium	**1.49**	**J**	4.40	1.32	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Silver	ND		0.881	0.352	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Thallium	**1.85**	**J**	2.64	1.15	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Vanadium	**7.98**		0.881	0.379	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1
Zinc	**14.5**		1.76	0.705	mg/Kg	☼	03/10/23 04:52	03/14/23 10:38	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0534**	**J**	0.0677	0.0226	mg/Kg	☼	03/10/23 05:20	03/13/23 13:43	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0406'
Date Collected: 03/06/23 08:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-3
Matrix: Solid
Percent Solids: 88.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.1	0.1	%			03/08/23 09:05	1
Percent Solids (EPA Moisture)	88.7		0.1	0.1	%			03/08/23 09:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0608'
Date Collected: 03/06/23 09:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-4
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00582	0.00380	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Acetone	ND		0.0582	0.0130	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Acrylonitrile	ND		0.00582	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Benzene	ND		0.00582	0.00389	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Bromobenzene	ND		0.00582	0.00388	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Bromochloromethane	ND		0.00582	0.00331	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Bromodichloromethane	ND		0.00582	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Bromoform	ND		0.00582	0.00445	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Bromomethane	ND		0.0116	0.00726	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
2-Butanone (MEK)	ND		0.0116	0.00464	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
n-Butylbenzene	ND		0.0116	0.00624	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
sec-Butylbenzene	ND		0.00582	0.00469	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
tert-Butylbenzene	ND		0.00582	0.00459	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Carbon disulfide	ND		0.0116	0.00409	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Carbon tetrachloride	ND		0.00582	0.00367	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Chlorobenzene	ND		0.00582	0.00426	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Chloroethane	ND		0.0116	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Chloroform	ND		0.00582	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Chloromethane	ND		0.0116	0.00447	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
2-Chlorotoluene	ND		0.00582	0.00464	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
4-Chlorotoluene	ND		0.00582	0.00506	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2-Dibromo-3-Chloropropane	ND	*+	0.0116	0.00494	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Dibromochloromethane	ND		0.00582	0.00386	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2-Dibromoethane (EDB)	ND		0.00582	0.00418	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Dibromomethane	ND		0.00582	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2-Dichlorobenzene	ND		0.00582	0.00540	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,3-Dichlorobenzene	ND		0.00582	0.00467	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,4-Dichlorobenzene	ND		0.00582	0.00552	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0116	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,1-Dichloroethane	ND		0.00582	0.00395	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2-Dichloroethane	ND		0.00582	0.00393	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,1-Dichloroethene	ND		0.00582	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
cis-1,2-Dichloroethene	ND		0.00582	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
trans-1,2-Dichloroethene	ND		0.00582	0.00362	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2-Dichloropropane	ND		0.00582	0.00386	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,3-Dichloropropane	ND		0.00582	0.00445	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
2,2-Dichloropropane	ND		0.00582	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,1-Dichloropropene	ND		0.00582	0.00396	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
cis-1,3-Dichloropropene	ND		0.00582	0.00380	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
trans-1,3-Dichloropropene	ND		0.00582	0.00443	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Ethylbenzene	ND		0.00582	0.00416	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Hexachlorobutadiene	ND		0.0116	0.00586	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
2-Hexanone (MBK)	ND		0.0116	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Isopropylbenzene	ND		0.00582	0.00440	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
4-Isopropyltoluene	ND		0.00582	0.00572	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Methyl tert-butyl ether	ND		0.00582	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
4-Methyl-2-pentanone (MIBK)	ND		0.0116	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Methylene Chloride	ND		0.0116	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Naphthalene	ND		0.00582	0.00526	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1

Client Sample ID: 2023-MW-08-0608' **Lab Sample ID: 620-10149-4**
Date Collected: 03/06/23 09:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00582	0.00493	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Styrene	ND		0.00582	0.00451	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,1,1,2-Tetrachloroethane	ND		0.00582	0.00437	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00582	0.00533	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Tetrachloroethene	ND		0.00582	0.00324	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Toluene	ND		0.00582	0.00369	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2,3-Trichlorobenzene	ND		0.00582	0.00492	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2,4-Trichlorobenzene	ND		0.00582	0.00537	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,3,5-Trichlorobenzene	ND		0.00582	0.00553	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,1,1-Trichloroethane	ND		0.00582	0.00397	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,1,2-Trichloroethane	ND		0.00582	0.00439	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Trichloroethene	ND		0.00582	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Trichlorofluoromethane (Freon 11)	ND		0.00582	0.00445	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2,3-Trichloropropane	ND		0.00582	0.00517	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,2,4-Trimethylbenzene	ND		0.00582	0.00493	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,3,5-Trimethylbenzene	ND		0.00582	0.00495	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Vinyl chloride	ND		0.00582	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
m,p-Xylene	ND		0.00582	0.00796	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
o-Xylene	ND		0.00582	0.00425	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Tetrahydrofuran	ND		0.0116	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Ethyl ether	ND		0.00582	0.00306	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Tert-amyl methyl ether	ND		0.00582	0.00460	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Ethyl tert-butyl ether	ND		0.00582	0.00383	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
di-Isopropyl ether	ND		0.00582	0.00416	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
tert-Butanol	ND		0.116	0.0312	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,4-Dioxane	ND		0.116	0.0362	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
trans-1,4-Dichloro-2-butene	ND		0.0291	0.00430	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Ethanol	ND		1.16	0.0722	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
1,3-Dichloropropene, Total	ND		0.00582	0.00443	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1
Xylenes, Total	ND		0.0175	0.00582	mg/Kg	☼	03/14/23 10:36	03/14/23 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:41*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:41*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 14:41*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.365	0.0650	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
1,2,4-Trichlorobenzene	ND		0.365	0.0837	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
1,2-Dichlorobenzene	ND		0.365	0.0704	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
1,3-Dichlorobenzene	ND		0.365	0.0884	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
1,4-Dichlorobenzene	ND		0.365	0.0860	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
1-Methylnaphthalene	ND		0.0738	0.0620	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2,4,5-Trichlorophenol	ND		0.365	0.0418	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2,4,6-Trichlorophenol	ND		0.185	0.0452	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2,4-Dichlorophenol	ND		0.185	0.0736	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2,4-Dimethylphenol	ND		0.365	0.0536	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2,4-Dinitrophenol	ND		0.365	0.0961	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0608'
Date Collected: 03/06/23 09:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-4
Matrix: Solid
Percent Solids: 85.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.185	0.0433	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2,6-Dinitrotoluene	ND		0.185	0.0433	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2-Chloronaphthalene	ND		0.365	0.0844	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2-Chlorophenol	ND		0.185	0.0756	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2-Methylnaphthalene	ND		0.0738	0.0546	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2-Methylphenol	ND		0.365	0.0533	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2-Nitroaniline	ND		0.365	0.0347	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
2-Nitrophenol	ND		0.185	0.0656	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
3 & 4 Methylphenol	ND		0.365	0.0692	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
3,3'-Dichlorobenzidine	ND		0.365	0.0603	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
3-Nitroaniline	ND		0.365	0.0326	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
4,6-Dinitro-2-methylphenol	ND		0.365	0.0656	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
4-Bromophenyl phenyl ether	ND		0.365	0.0413	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
4-Chloro-3-methylphenol	ND		0.365	0.0715	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
4-Chloroaniline	ND		0.185	0.0280	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
4-Chlorophenyl phenyl ether	ND		0.365	0.0391	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
4-Nitroaniline	ND		0.185	0.0583	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
4-Nitrophenol	ND		0.365	0.127	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Acenaphthene	ND		0.0738	0.0589	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Acenaphthylene	ND		0.0738	0.0485	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Acetophenone	ND		0.185	0.0450	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Aniline	ND		0.365	0.0280	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Anthracene	ND		0.0738	0.0427	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Azobenzene/Diphenyldiazene	ND		0.365	0.0623	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzidine	ND		0.730	0.108	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzo[a]anthracene	ND		0.0738	0.0415	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzo[a]pyrene	ND		0.0738	0.0528	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzo[b]fluoranthene	ND		0.0738	0.0612	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzo[g,h,i]perylene	ND		0.0738	0.0577	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzo[k]fluoranthene	ND		0.0738	0.0574	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzoic acid	ND		0.365	0.251	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Benzyl alcohol	ND		0.365	0.0662	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Bis(2-chloroethoxy)methane	ND		0.365	0.0635	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Bis(2-chloroethyl)ether	ND		0.185	0.0604	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
bis (2-chloroisopropyl) ether	ND		0.185	0.0822	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Bis(2-ethylhexyl) phthalate	ND		0.185	0.0470	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Butyl benzyl phthalate	ND		0.365	0.0366	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Carbazole	ND		0.185	0.0484	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Chrysene	ND		0.0738	0.0417	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Dibenz(a,h)anthracene	ND		0.0738	0.0563	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Dibenzofuran	ND		0.185	0.0640	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Diethyl phthalate	ND		0.365	0.0401	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Dimethyl phthalate	ND		0.365	0.0476	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Di-n-butyl phthalate	ND		0.365	0.0391	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Di-n-octyl phthalate	ND		0.365	0.0603	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Fluoranthene	ND		0.0738	0.0433	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Fluorene	ND		0.0738	0.0674	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Hexachlorobenzene	ND		0.185	0.0512	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Hexachlorobutadiene	ND		0.185	0.0922	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1

Client Sample ID: 2023-MW-08-0608' **Lab Sample ID: 620-10149-4**
Date Collected: 03/06/23 09:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.185	0.0706	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Hexachloroethane	ND		0.185	0.0726	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Indeno[1,2,3-cd]pyrene	ND		0.0738	0.0626	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Isophorone	ND		0.185	0.0506	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Naphthalene	ND		0.0738	0.0708	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Nitrobenzene	ND		0.185	0.0853	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
N-Nitrosodimethylamine	ND		0.185	0.0485	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
N-Nitrosodi-n-propylamine	ND		0.185	0.0736	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
N-Nitrosodiphenylamine	ND		0.365	0.0466	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Pentachloronitrobenzene	ND		0.365	0.0577	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Pentachlorophenol	ND		0.365	0.149	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Phenanthrene	ND		0.0738	0.0418	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Phenol	ND		0.365	0.0753	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Pyrene	ND		0.0738	0.0407	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1
Pyridine	ND		0.365	0.0864	mg/Kg	☼	03/17/23 08:54	03/20/23 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*43*		*30 - 130*	*03/17/23 08:54*	*03/20/23 14:09*	*1*
2-Fluorophenol (Surr)	*70*		*15 - 110*	*03/17/23 08:54*	*03/20/23 14:09*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*03/17/23 08:54*	*03/20/23 14:09*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/17/23 08:54*	*03/20/23 14:09*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*15 - 110*	*03/17/23 08:54*	*03/20/23 14:09*	*1*
Terphenyl-d14	*63*		*30 - 130*	*03/17/23 08:54*	*03/20/23 14:09*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.284	0.145	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.284	0.121	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0568	0.0114	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
Ethylbenzene	ND		0.0568	0.0114	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
Methyl tert-butyl ether	ND		0.0568	0.0114	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
m,p-Xylene	ND		0.114	0.0114	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
Naphthalene	ND		0.0568	0.0386	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
o-Xylene	ND		0.0568	0.0114	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
Toluene	ND		0.0568	0.0114	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
C5-C8 Aliphatics (unadjusted)	ND		0.284	0.145	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
C9-C10 Aromatics	ND		0.284	0.0397	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1
C9-C12 Aliphatics (unadjusted)	ND		0.284	0.121	mg/Kg	☼	03/10/23 07:32	03/11/23 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/10/23 07:32*	*03/11/23 06:48*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/10/23 07:32*	*03/11/23 06:48*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0161	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1
PCB-1221	ND		0.0223	0.00659	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1
PCB-1232	ND		0.0223	0.00618	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1

Client Sample ID: 2023-MW-08-0608' **Lab Sample ID: 620-10149-4**
Date Collected: 03/06/23 09:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1
PCB-1248	ND		0.0223	0.00697	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1
PCB-1254	ND		0.0223	0.0174	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1
PCB-1262	ND		0.0223	0.00520	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1
PCB-1260	ND		0.0223	0.00480	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1
PCB-1268	ND		0.0223	0.00475	mg/Kg	☼	03/10/23 15:38	03/14/23 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/10/23 15:38*	*03/14/23 22:11*	*1*
Tetrachloro-m-xylene	*85*		*30 - 150*	*03/10/23 15:38*	*03/14/23 22:11*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*30 - 150*	*03/10/23 15:38*	*03/14/23 22:11*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*	*03/10/23 15:38*	*03/14/23 22:11*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluoroheptanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorooctanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorononanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorodecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorotridecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorotetradecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorobutanesulfonic acid	ND		2.35	0.470	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorohexanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorooctanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
NEtFOSAA	ND		2.35	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
NMeFOSAA	ND		2.35	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
10:2 FTS	ND		2.35	0.704	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluoropentanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluoroheptanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorononanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorodecanesulfonic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.35	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorooctanesulfonamide	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorohexadecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorooctadecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorobutanoic acid	ND		2.35	0.939	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluoropentanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
NMeFOSE	ND		2.35	0.587	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
NMeFOSA	ND		2.35	0.587	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
NEtFOSE	ND		2.35	0.587	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
NEtFOSA	ND		2.35	0.587	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
HFPODA	ND		2.35	1.17	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
DONA	ND		3.52	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
9Cl-PF3ONS	ND		2.35	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
11Cl-PF3OUdS	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluorododecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
4:2 Fluorotelomer sulfonic acid	ND		2.35	0.704	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
Perfluoroundecanoic acid	ND		0.704	0.235	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1

Client Sample ID: 2023-MW-08-0608' **Lab Sample ID: 620-10149-4**
Date Collected: 03/06/23 09:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.35	0.704	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1
8:2 Fluorotelomer sulfonic acid	ND		3.52	0.704	ug/Kg	☼	03/13/23 07:29	03/22/23 16:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
M2-6:2 FTS	*76*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C5 PFHxA	*69*		*10 - 174*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C4 PFHpA	*71*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C8 PFOA	*70*		*26 - 159*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C9 PFNA	*71*		*26 - 165*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C6 PFDA	*75*		*26 - 161*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C7 PFUnA	*76*		*12 - 173*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C2-PFDoDA	*72*		*11 - 166*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C2 PFTeDA	*75*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C3 PFBS	*82*		*27 - 179*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C3 PFHxS	*84*		*24 - 171*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C8 PFOS	*81*		*41 - 154*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
d3-NMeFOSAA	*18*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
d5-NEtFOSAA	*27*		*10 - 193*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C8 FOSA	*76*		*14 - 163*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C4 PFBA	*64*		*28 - 153*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C5 PFPeA	*67*		*24 - 161*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
d7-N-MeFOSE-M	*77*		*10 - 179*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
d3-NMePFOSA	*73*		*10 - 175*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
d9-N-EtFOSE-M	*73*		*10 - 185*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
d5-NEtPFOSA	*69*		*10 - 180*	*03/13/23 07:29*	*03/22/23 16:23*	*1*
13C3 HFPO-DA	*64*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.48	1.52	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Arsenic	ND		2.69	1.25	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Barium	**12.4**		0.448	0.134	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Beryllium	**0.218**	**J**	0.448	0.0896	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Cadmium	ND		0.448	0.0896	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Chromium	**5.13**		1.34	0.314	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Lead	**3.91**		1.34	0.538	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Nickel	**3.17**		0.896	0.233	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Selenium	ND		4.48	1.34	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Silver	ND		0.896	0.358	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Thallium	**1.37**	**J**	2.69	1.16	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Vanadium	**6.83**		0.896	0.385	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1
Zinc	**14.2**		1.79	0.717	mg/Kg	☼	03/10/23 04:52	03/14/23 10:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0255**	**J**	0.0650	0.0217	mg/Kg	☼	03/10/23 05:20	03/13/23 13:45	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0608'
Date Collected: 03/06/23 09:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-4
Matrix: Solid
Percent Solids: 85.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.8		0.1	0.1	%			03/08/23 09:05	1
Percent Solids (EPA Moisture)	85.2		0.1	0.1	%			03/08/23 09:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0810'
Date Collected: 03/06/23 09:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-5
Matrix: Solid
Percent Solids: 85.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00473	0.00309	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Acetone	**0.0246**	**J *3**	0.0473	0.0106	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Acrylonitrile	ND	*3	0.00473	0.00284	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Benzene	ND	*3	0.00473	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Bromobenzene	ND	*3	0.00473	0.00315	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Bromochloromethane	ND	*3	0.00473	0.00269	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Bromodichloromethane	ND	*3	0.00473	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Bromoform	ND	*3	0.00473	0.00362	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Bromomethane	ND	*3 *+	0.00946	0.00590	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
2-Butanone (MEK)	ND	*3	0.00946	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
n-Butylbenzene	ND	*3	0.00946	0.00507	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
sec-Butylbenzene	ND	*3	0.00473	0.00381	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
tert-Butylbenzene	ND	*3	0.00473	0.00373	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Carbon disulfide	ND	*3	0.00946	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Carbon tetrachloride	ND	*3	0.00473	0.00298	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Chlorobenzene	ND	*3	0.00473	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Chloroethane	ND	*3 *+	0.00946	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Chloroform	ND	*3	0.00473	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Chloromethane	ND	*3	0.00946	0.00363	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
2-Chlorotoluene	ND	*3	0.00473	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
4-Chlorotoluene	ND	*3	0.00473	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00946	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Dibromochloromethane	ND	*3	0.00473	0.00313	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2-Dibromoethane (EDB)	ND	*3	0.00473	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Dibromomethane	ND	*3	0.00473	0.00278	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2-Dichlorobenzene	ND	*3	0.00473	0.00439	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,3-Dichlorobenzene	ND	*3	0.00473	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,4-Dichlorobenzene	ND	*3	0.00473	0.00449	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.00946	0.00254	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,1-Dichloroethane	ND	*3	0.00473	0.00321	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2-Dichloroethane	ND	*3	0.00473	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,1-Dichloroethene	ND	*3	0.00473	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
cis-1,2-Dichloroethene	ND	*3	0.00473	0.00274	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
trans-1,2-Dichloroethene	ND	*3	0.00473	0.00294	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2-Dichloropropane	ND	*3	0.00473	0.00313	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,3-Dichloropropane	ND	*3	0.00473	0.00362	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
2,2-Dichloropropane	ND	*3	0.00473	0.00327	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,1-Dichloropropene	ND	*3	0.00473	0.00322	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
cis-1,3-Dichloropropene	ND	*3	0.00473	0.00309	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
trans-1,3-Dichloropropene	ND	*3	0.00473	0.00360	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Ethylbenzene	ND	*3	0.00473	0.00338	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Hexachlorobutadiene	ND	*3	0.00946	0.00476	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
2-Hexanone (MBK)	ND	*3	0.00946	0.00278	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Isopropylbenzene	ND	*3	0.00473	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
4-Isopropyltoluene	ND	*3	0.00473	0.00465	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Methyl tert-butyl ether	ND	*3	0.00473	0.00273	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00946	0.00306	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Methylene Chloride	**0.00257**	**J *3**	0.00946	0.00254	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Naphthalene	ND	*3	0.00473	0.00428	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1

Client Sample ID: 2023-MW-08-0810' **Lab Sample ID: 620-10149-5**
Date Collected: 03/06/23 09:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00473	0.00400	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Styrene	ND	*3	0.00473	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00473	0.00355	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00473	0.00433	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Tetrachloroethene	ND	*3	0.00473	0.00263	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Toluene	ND	*3	0.00473	0.00300	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2,3-Trichlorobenzene	ND	*3	0.00473	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2,4-Trichlorobenzene	ND	*3	0.00473	0.00436	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,3,5-Trichlorobenzene	ND	*3	0.00473	0.00450	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,1,1-Trichloroethane	ND	*3	0.00473	0.00323	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,1,2-Trichloroethane	ND	*3	0.00473	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Trichloroethene	ND	*3	0.00473	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00473	0.00362	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2,3-Trichloropropane	ND	*3	0.00473	0.00420	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,2,4-Trimethylbenzene	ND	*3	0.00473	0.00400	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,3,5-Trimethylbenzene	ND	*3	0.00473	0.00402	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Vinyl chloride	ND	*3	0.00473	0.00289	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
m,p-Xylene	ND	*3	0.00473	0.00646	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
o-Xylene	ND	*3	0.00473	0.00345	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Tetrahydrofuran	ND	*3	0.00946	0.00239	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Ethyl ether	ND	*3	0.00473	0.00249	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Tert-amyl methyl ether	ND	*3	0.00473	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Ethyl tert-butyl ether	ND	*3	0.00473	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
di-Isopropyl ether	ND	*3	0.00473	0.00338	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
tert-Butanol	ND	*3	0.0946	0.0254	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,4-Dioxane	ND	*3	0.0946	0.0294	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0237	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Ethanol	ND	*3	0.946	0.0587	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
1,3-Dichloropropene, Total	ND		0.00473	0.00360	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1
Xylenes, Total	ND		0.0142	0.00473	mg/Kg	☼	03/13/23 09:42	03/13/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*	*3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 18:56*	*1*
Toluene-d8 (Surr)	*105*	*3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 18:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 18:56*	*1*
Dibromofluoromethane (Surr)	*136*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 18:56*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00466	0.00304	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Acetone	ND		0.0466	0.0104	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Acrylonitrile	ND		0.00466	0.00280	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Benzene	ND		0.00466	0.00311	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Bromobenzene	ND		0.00466	0.00311	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Bromochloromethane	ND		0.00466	0.00265	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Bromodichloromethane	ND		0.00466	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Bromoform	ND		0.00466	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Bromomethane	ND		0.00933	0.00581	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
2-Butanone (MEK)	ND		0.00933	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0810'
Date Collected: 03/06/23 09:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-5
Matrix: Solid
Percent Solids: 85.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00933	0.00500	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
sec-Butylbenzene	ND		0.00466	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
tert-Butylbenzene	ND		0.00466	0.00367	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Carbon disulfide	ND		0.00933	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Carbon tetrachloride	ND		0.00466	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Chlorobenzene	ND		0.00466	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Chloroethane	ND		0.00933	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Chloroform	ND		0.00466	0.00313	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Chloromethane	ND		0.00933	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
2-Chlorotoluene	ND		0.00466	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
4-Chlorotoluene	ND		0.00466	0.00405	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.00933	0.00395	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Dibromochloromethane	ND		0.00466	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2-Dibromoethane (EDB)	ND		0.00466	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Dibromomethane	ND		0.00466	0.00274	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2-Dichlorobenzene	ND	*3	0.00466	0.00433	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,3-Dichlorobenzene	ND		0.00466	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,4-Dichlorobenzene	ND	*3	0.00466	0.00442	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00933	0.00250	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,1-Dichloroethane	ND		0.00466	0.00316	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2-Dichloroethane	ND		0.00466	0.00314	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,1-Dichloroethene	ND		0.00466	0.00285	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
cis-1,2-Dichloroethene	ND		0.00466	0.00270	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
trans-1,2-Dichloroethene	ND		0.00466	0.00290	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2-Dichloropropane	ND		0.00466	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,3-Dichloropropane	ND		0.00466	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
2,2-Dichloropropane	ND		0.00466	0.00322	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,1-Dichloropropene	ND		0.00466	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
cis-1,3-Dichloropropene	ND		0.00466	0.00304	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
trans-1,3-Dichloropropene	ND		0.00466	0.00354	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Ethylbenzene	ND		0.00466	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Hexachlorobutadiene	ND	*3	0.00933	0.00469	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
2-Hexanone (MBK)	ND		0.00933	0.00274	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Isopropylbenzene	ND		0.00466	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
4-Isopropyltoluene	ND	*3	0.00466	0.00458	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Methyl tert-butyl ether	ND		0.00466	0.00269	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		0.00933	0.00301	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Methylene Chloride	ND		0.00933	0.00250	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Naphthalene	ND	*3	0.00466	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
N-Propylbenzene	ND		0.00466	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Styrene	ND		0.00466	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,1,1,2-Tetrachloroethane	ND		0.00466	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00466	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Tetrachloroethene	ND		0.00466	0.00259	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Toluene	ND		0.00466	0.00296	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2,3-Trichlorobenzene	ND	*3	0.00466	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2,4-Trichlorobenzene	ND		0.00466	0.00430	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,3,5-Trichlorobenzene	ND	*3	0.00466	0.00443	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,1,1-Trichloroethane	ND		0.00466	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1

Client Sample ID: 2023-MW-08-0810' **Lab Sample ID: 620-10149-5**
Date Collected: 03/06/23 09:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00466	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Trichloroethene	ND		0.00466	0.00313	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Trichlorofluoromethane (Freon 11)	ND		0.00466	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2,3-Trichloropropane	ND		0.00466	0.00414	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,2,4-Trimethylbenzene	ND		0.00466	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,3,5-Trimethylbenzene	ND		0.00466	0.00396	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Vinyl chloride	ND		0.00466	0.00284	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
m,p-Xylene	ND		0.00466	0.00637	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
o-Xylene	ND		0.00466	0.00340	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Tetrahydrofuran	ND		0.00933	0.00236	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Ethyl ether	ND		0.00466	0.00245	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Tert-amyl methyl ether	ND		0.00466	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Ethyl tert-butyl ether	ND		0.00466	0.00307	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
di-Isopropyl ether	ND		0.00466	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
tert-Butanol	ND		0.0933	0.0250	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,4-Dioxane	ND		0.0933	0.0290	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
trans-1,4-Dichloro-2-butene	ND		0.0233	0.00344	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Ethanol	ND		0.933	0.0578	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
1,3-Dichloropropene, Total	ND		0.00466	0.00354	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1
Xylenes, Total	ND		0.0140	0.00466	mg/Kg	☼	03/14/23 10:36	03/14/23 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:07*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:07*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:07*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.384	0.0683	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
1,2,4-Trichlorobenzene	ND		0.384	0.0879	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
1,2-Dichlorobenzene	ND		0.384	0.0740	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
1,3-Dichlorobenzene	ND		0.384	0.0929	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
1,4-Dichlorobenzene	ND		0.384	0.0904	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
1-Methylnaphthalene	ND		0.0776	0.0651	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2,4,5-Trichlorophenol	ND		0.384	0.0440	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2,4,6-Trichlorophenol	ND		0.194	0.0474	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2,4-Dichlorophenol	ND		0.194	0.0773	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2,4-Dimethylphenol	ND		0.384	0.0563	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2,4-Dinitrophenol	ND		0.384	0.101	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2,4-Dinitrotoluene	ND		0.194	0.0455	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2,6-Dinitrotoluene	ND		0.194	0.0455	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2-Chloronaphthalene	ND		0.384	0.0887	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2-Chlorophenol	ND		0.194	0.0794	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2-Methylnaphthalene	ND		0.0776	0.0573	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2-Methylphenol	ND		0.384	0.0561	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2-Nitroaniline	ND		0.384	0.0365	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
2-Nitrophenol	ND		0.194	0.0690	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
3 & 4 Methylphenol	ND		0.384	0.0727	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
3,3'-Dichlorobenzidine	ND		0.384	0.0634	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1

Client: Nobis Engineering, Inc.
Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-08-0810'
Lab Sample ID: 620-10149-5
Date Collected: 03/06/23 09:05
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 85.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.384	0.0343	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
4,6-Dinitro-2-methylphenol	ND		0.384	0.0690	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
4-Bromophenyl phenyl ether	ND		0.384	0.0434	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
4-Chloro-3-methylphenol	ND		0.384	0.0751	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
4-Chloroaniline	ND		0.194	0.0294	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
4-Chlorophenyl phenyl ether	ND		0.384	0.0411	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
4-Nitroaniline	ND		0.194	0.0613	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
4-Nitrophenol	ND		0.384	0.134	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Acenaphthene	ND		0.0776	0.0619	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Acenaphthylene	ND		0.0776	0.0509	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Acetophenone	ND		0.194	0.0473	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Aniline	ND		0.384	0.0294	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Anthracene	ND		0.0776	0.0449	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Azobenzene/Diphenyldiazene	ND		0.384	0.0655	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzidine	ND		0.768	0.114	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzo[a]anthracene	ND		0.0776	0.0436	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzo[a]pyrene	ND		0.0776	0.0555	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzo[b]fluoranthene	ND		0.0776	0.0643	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzo[g,h,i]perylene	ND		0.0776	0.0606	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzo[k]fluoranthene	ND		0.0776	0.0604	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzoic acid	ND		0.384	0.264	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Benzyl alcohol	ND		0.384	0.0695	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Bis(2-chloroethoxy)methane	ND		0.384	0.0668	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Bis(2-chloroethyl)ether	ND		0.194	0.0635	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
bis (2-chloroisopropyl) ether	ND		0.194	0.0864	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Bis(2-ethylhexyl) phthalate	ND		0.194	0.0494	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Butyl benzyl phthalate	ND		0.384	0.0385	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Carbazole	ND		0.194	0.0508	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Chrysene	ND		0.0776	0.0438	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Dibenz(a,h)anthracene	ND		0.0776	0.0592	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Dibenzofuran	ND		0.194	0.0672	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Diethyl phthalate	ND		0.384	0.0421	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Dimethyl phthalate	ND		0.384	0.0500	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Di-n-butyl phthalate	ND		0.384	0.0411	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Di-n-octyl phthalate	ND		0.384	0.0634	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Fluoranthene	ND		0.0776	0.0455	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Fluorene	ND		0.0776	0.0708	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Hexachlorobenzene	ND		0.194	0.0538	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Hexachlorobutadiene	ND		0.194	0.0969	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Hexachlorocyclopentadiene	ND		0.194	0.0742	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Hexachloroethane	ND		0.194	0.0763	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0776	0.0658	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Isophorone	ND		0.194	0.0531	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Naphthalene	ND		0.0776	0.0744	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Nitrobenzene	ND		0.194	0.0897	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
N-Nitrosodimethylamine	ND		0.194	0.0509	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
N-Nitrosodi-n-propylamine	ND		0.194	0.0773	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
N-Nitrosodiphenylamine	ND		0.384	0.0490	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Pentachloronitrobenzene	ND		0.384	0.0606	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1

Client Sample ID: 2023-MW-08-0810' Lab Sample ID: 620-10149-5

Date Collected: 03/06/23 09:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.384	0.157	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Phenanthrene	ND		0.0776	0.0440	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Phenol	ND		0.384	0.0791	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Pyrene	ND		0.0776	0.0428	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1
Pyridine	ND		0.384	0.0908	mg/Kg	☼	03/17/23 08:54	03/20/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*30 - 130*	*03/17/23 08:54*	*03/20/23 14:37*	*1*
2-Fluorophenol (Surr)	*79*		*15 - 110*	*03/17/23 08:54*	*03/20/23 14:37*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/17/23 08:54*	*03/20/23 14:37*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/17/23 08:54*	*03/20/23 14:37*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/17/23 08:54*	*03/20/23 14:37*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/17/23 08:54*	*03/20/23 14:37*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.230	0.118	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.230	0.0984	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0460	0.00920	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
Ethylbenzene	ND		0.0460	0.00920	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
Methyl tert-butyl ether	ND		0.0460	0.00920	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
m,p-Xylene	ND		0.0920	0.00920	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
Naphthalene	**0.0371**	**J B**	0.0460	0.0313	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
o-Xylene	ND		0.0460	0.00920	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
Toluene	ND		0.0460	0.00920	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
C5-C8 Aliphatics (unadjusted)	ND		0.230	0.118	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
C9-C10 Aromatics	ND		0.230	0.0322	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1
C9-C12 Aliphatics (unadjusted)	ND		0.230	0.0984	mg/Kg	☼	03/10/23 07:32	03/11/23 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/10/23 07:32*	*03/11/23 08:07*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/10/23 07:32*	*03/11/23 08:07*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1221	ND		0.0225	0.00664	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1232	ND		0.0225	0.00623	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1242	ND		0.0225	0.00355	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1248	ND		0.0225	0.00702	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1254	ND		0.0225	0.0175	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1262	ND		0.0225	0.00524	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1260	ND		0.0225	0.00483	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1
PCB-1268	ND		0.0225	0.00479	mg/Kg	☼	03/10/23 15:38	03/14/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:10*	*1*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:10*	*1*

Client Sample ID: 2023-MW-08-0810'
Lab Sample ID: 620-10149-5
Date Collected: 03/06/23 09:05
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 85.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	99		30 - 150	03/10/23 15:38	03/14/23 17:10	1
DCB Decachlorobiphenyl (Surr)	105		30 - 150	03/10/23 15:38	03/14/23 17:10	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluoroheptanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorooctanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorononanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorodecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorotridecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorotetradecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorobutanesulfonic acid	ND		2.29	0.459	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorohexanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorooctanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
10:2 FTS	ND		2.29	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluoropentanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluoroheptanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorononanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorodecanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorooctanesulfonamide	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorohexadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorooctadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorobutanoic acid	ND		2.29	0.917	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluoropentanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
NMeFOSE	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
NMeFOSA	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
NEtFOSE	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
NEtFOSA	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
HFPODA	ND		2.29	1.15	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
DONA	ND		3.44	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
11Cl-PF3OUdS	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluorododecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
Perfluoroundecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 16:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	85		10 - 200	03/13/23 07:29	03/22/23 16:35	1
M2-8:2 FTS	83		15 - 200	03/13/23 07:29	03/22/23 16:35	1
M2-6:2 FTS	85		10 - 200	03/13/23 07:29	03/22/23 16:35	1
13C5 PFHxA	94		10 - 174	03/13/23 07:29	03/22/23 16:35	1
13C4 PFHpA	93		10 - 178	03/13/23 07:29	03/22/23 16:35	1
13C8 PFOA	90		26 - 159	03/13/23 07:29	03/22/23 16:35	1

Client Sample ID: 2023-MW-08-0810' Lab Sample ID: 620-10149-5

Date Collected: 03/06/23 09:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	91		26 - 165	03/13/23 07:29	03/22/23 16:35	1
13C6 PFDA	88		26 - 161	03/13/23 07:29	03/22/23 16:35	1
13C7 PFUnA	83		12 - 173	03/13/23 07:29	03/22/23 16:35	1
13C2-PFDoDA	82		11 - 166	03/13/23 07:29	03/22/23 16:35	1
13C2 PFTeDA	83		10 - 169	03/13/23 07:29	03/22/23 16:35	1
13C3 PFBS	84		27 - 179	03/13/23 07:29	03/22/23 16:35	1
13C3 PFHxS	85		24 - 171	03/13/23 07:29	03/22/23 16:35	1
13C8 PFOS	87		41 - 154	03/13/23 07:29	03/22/23 16:35	1
d3-NMeFOSAA	54		10 - 178	03/13/23 07:29	03/22/23 16:35	1
d5-NEtFOSAA	59		10 - 193	03/13/23 07:29	03/22/23 16:35	1
13C8 FOSA	79		14 - 163	03/13/23 07:29	03/22/23 16:35	1
13C4 PFBA	89		28 - 153	03/13/23 07:29	03/22/23 16:35	1
13C5 PFPeA	91		24 - 161	03/13/23 07:29	03/22/23 16:35	1
d7-N-MeFOSE-M	71		10 - 179	03/13/23 07:29	03/22/23 16:35	1
d3-NMePFOSA	76		10 - 175	03/13/23 07:29	03/22/23 16:35	1
d9-N-EtFOSE-M	71		10 - 185	03/13/23 07:29	03/22/23 16:35	1
d5-NEtPFOSA	78		10 - 180	03/13/23 07:29	03/22/23 16:35	1
13C3 HFPO-DA	86		10 - 169	03/13/23 07:29	03/22/23 16:35	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.06	1.38	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Arsenic	ND		2.44	1.14	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Barium	**12.1**		0.406	0.122	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Beryllium	**0.149**	**J**	0.406	0.0812	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Cadmium	ND		0.406	0.0812	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Chromium	**4.89**		1.22	0.284	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Lead	**3.94**		1.22	0.487	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Nickel	**2.69**		0.812	0.211	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Selenium	ND		4.06	1.22	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Silver	ND		0.812	0.325	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Thallium	**1.96**	**J**	2.44	1.06	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Vanadium	**6.41**		0.812	0.349	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1
Zinc	**16.5**		1.62	0.650	mg/Kg	☼	03/10/23 04:52	03/14/23 10:47	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0679	0.0226	mg/Kg	☼	03/10/23 05:20	03/13/23 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.5**		0.1	0.1	%			03/08/23 09:05	1
Percent Solids (EPA Moisture)	**85.5**		0.1	0.1	%			03/08/23 09:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-1012'
Date Collected: 03/06/23 09:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-6
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00574	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Acetone	ND		0.0574	0.0129	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Acrylonitrile	ND		0.00574	0.00344	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Benzene	ND		0.00574	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Bromobenzene	ND		0.00574	0.00382	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Bromochloromethane	ND		0.00574	0.00326	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Bromodichloromethane	ND		0.00574	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Bromoform	ND		0.00574	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Bromomethane	ND	*+	0.0115	0.00715	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
2-Butanone (MEK)	ND		0.0115	0.00457	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
n-Butylbenzene	ND		0.0115	0.00615	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
sec-Butylbenzene	ND		0.00574	0.00462	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
tert-Butylbenzene	ND		0.00574	0.00452	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Carbon disulfide	ND		0.0115	0.00403	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Carbon tetrachloride	ND		0.00574	0.00361	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Chlorobenzene	ND		0.00574	0.00420	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Chloroethane	ND	*+	0.0115	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Chloroform	ND		0.00574	0.00386	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Chloromethane	ND		0.0115	0.00441	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
2-Chlorotoluene	ND		0.00574	0.00457	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
4-Chlorotoluene	ND		0.00574	0.00498	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2-Dibromo-3-Chloropropane	ND		0.0115	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Dibromochloromethane	ND		0.00574	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2-Dibromoethane (EDB)	ND		0.00574	0.00412	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Dibromomethane	ND		0.00574	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2-Dichlorobenzene	ND		0.00574	0.00532	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,3-Dichlorobenzene	ND		0.00574	0.00460	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,4-Dichlorobenzene	ND		0.00574	0.00544	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Dichlorodifluoromethane (Freon 12)	ND		0.0115	0.00308	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,1-Dichloroethane	ND		0.00574	0.00389	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2-Dichloroethane	ND		0.00574	0.00387	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,1-Dichloroethene	ND		0.00574	0.00351	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
cis-1,2-Dichloroethene	ND		0.00574	0.00332	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
trans-1,2-Dichloroethene	ND		0.00574	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2-Dichloropropane	ND		0.00574	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,3-Dichloropropane	ND		0.00574	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
2,2-Dichloropropane	ND		0.00574	0.00396	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,1-Dichloropropene	ND		0.00574	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
cis-1,3-Dichloropropene	ND		0.00574	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
trans-1,3-Dichloropropene	ND		0.00574	0.00436	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Ethylbenzene	ND		0.00574	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Hexachlorobutadiene	ND		0.0115	0.00577	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
2-Hexanone (MBK)	ND		0.0115	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Isopropylbenzene	ND		0.00574	0.00434	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
4-Isopropyltoluene	ND		0.00574	0.00563	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Methyl tert-butyl ether	ND		0.00574	0.00330	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.0115	0.00371	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Methylene Chloride	ND		0.0115	0.00308	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Naphthalene	ND		0.00574	0.00519	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1

Client Sample ID: 2023-MW-08-1012' **Lab Sample ID: 620-10149-6**
Date Collected: 03/06/23 09:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 84.6**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00574	0.00485	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Styrene	ND		0.00574	0.00444	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,1,1,2-Tetrachloroethane	ND		0.00574	0.00430	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,1,2,2-Tetrachloroethane	ND		0.00574	0.00526	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Tetrachloroethene	ND		0.00574	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Toluene	ND		0.00574	0.00364	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2,3-Trichlorobenzene	ND		0.00574	0.00484	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2,4-Trichlorobenzene	ND		0.00574	0.00529	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,3,5-Trichlorobenzene	ND		0.00574	0.00545	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,1,1-Trichloroethane	ND		0.00574	0.00391	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,1,2-Trichloroethane	ND		0.00574	0.00433	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Trichloroethene	ND		0.00574	0.00386	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Trichlorofluoromethane (Freon 11)	ND		0.00574	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2,3-Trichloropropane	ND		0.00574	0.00509	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,2,4-Trimethylbenzene	ND		0.00574	0.00485	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,3,5-Trimethylbenzene	ND		0.00574	0.00488	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Vinyl chloride	ND		0.00574	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
m,p-Xylene	ND		0.00574	0.00784	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
o-Xylene	ND		0.00574	0.00419	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Tetrahydrofuran	ND		0.0115	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Ethyl ether	ND		0.00574	0.00302	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Tert-amyl methyl ether	ND		0.00574	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Ethyl tert-butyl ether	ND		0.00574	0.00378	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
di-Isopropyl ether	ND		0.00574	0.00410	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
tert-Butanol	ND		0.115	0.0308	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,4-Dioxane	ND		0.115	0.0357	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
trans-1,4-Dichloro-2-butene	ND		0.0287	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Ethanol	ND		1.15	0.0711	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
1,3-Dichloropropene, Total	ND		0.00574	0.00436	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1
Xylenes, Total	ND		0.0172	0.00574	mg/Kg	☼	03/13/23 09:42	03/13/23 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/13/23 09:42*	*03/13/23 19:22*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*03/13/23 09:42*	*03/13/23 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/13/23 09:42*	*03/13/23 19:22*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*03/13/23 09:42*	*03/13/23 19:22*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0669	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
1,2,4-Trichlorobenzene	ND		0.376	0.0861	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
1,2-Dichlorobenzene	ND		0.376	0.0725	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
1,3-Dichlorobenzene	ND		0.376	0.0910	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
1,4-Dichlorobenzene	ND		0.376	0.0885	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
1-Methylnaphthalene	ND		0.0760	0.0638	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2,4,6-Trichlorophenol	ND		0.190	0.0465	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2,4-Dichlorophenol	ND		0.190	0.0758	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2,4-Dimethylphenol	ND		0.376	0.0551	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2,4-Dinitrophenol	ND		0.376	0.0989	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-1012'
Date Collected: 03/06/23 09:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-6
Matrix: Solid
Percent Solids: 84.6

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2,6-Dinitrotoluene	ND		0.190	0.0445	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2-Chloronaphthalene	ND		0.376	0.0869	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2-Chlorophenol	ND		0.190	0.0778	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2-Methylnaphthalene	ND		0.0760	0.0562	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2-Methylphenol	ND		0.376	0.0549	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
2-Nitrophenol	ND		0.190	0.0676	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
3 & 4 Methylphenol	ND		0.376	0.0712	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
3,3'-Dichlorobenzidine	ND		0.376	0.0621	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
3-Nitroaniline	ND		0.376	0.0336	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0676	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
4-Bromophenyl phenyl ether	ND		0.376	0.0425	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
4-Chloro-3-methylphenol	ND		0.376	0.0736	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
4-Chloroaniline	ND		0.190	0.0288	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0402	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
4-Nitroaniline	ND		0.190	0.0600	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Acenaphthene	ND		0.0760	0.0606	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Acenaphthylene	ND		0.0760	0.0499	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Acetophenone	ND		0.190	0.0464	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Aniline	ND		0.376	0.0288	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Anthracene	ND		0.0760	0.0440	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0641	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzidine	ND		0.752	0.111	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzo[a]anthracene	ND		0.0760	0.0427	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzo[a]pyrene	ND		0.0760	0.0543	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzo[b]fluoranthene	ND		0.0760	0.0630	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzo[g,h,i]perylene	ND		0.0760	0.0594	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzo[k]fluoranthene	ND		0.0760	0.0591	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Benzyl alcohol	ND		0.376	0.0681	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0654	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Bis(2-chloroethyl)ether	ND		0.190	0.0622	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
bis (2-chloroisopropyl) ether	ND		0.190	0.0846	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Bis(2-ethylhexyl) phthalate	**0.227**		0.190	0.0484	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Butyl benzyl phthalate	ND		0.376	0.0377	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Carbazole	ND		0.190	0.0498	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Chrysene	ND		0.0760	0.0429	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Dibenz(a,h)anthracene	ND		0.0760	0.0580	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Dibenzofuran	ND		0.190	0.0658	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Diethyl phthalate	ND		0.376	0.0412	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Dimethyl phthalate	ND		0.376	0.0490	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Di-n-butyl phthalate	ND		0.376	0.0402	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Di-n-octyl phthalate	ND		0.376	0.0621	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Fluoranthene	ND		0.0760	0.0445	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Fluorene	ND		0.0760	0.0694	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Hexachlorobenzene	ND		0.190	0.0527	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Hexachlorobutadiene	ND		0.190	0.0949	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1

Client Sample ID: 2023-MW-08-1012' **Lab Sample ID: 620-10149-6**
Date Collected: 03/06/23 09:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 84.6**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.190	0.0727	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Hexachloroethane	ND		0.190	0.0747	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0760	0.0645	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Isophorone	ND		0.190	0.0521	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Naphthalene	ND		0.0760	0.0729	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Nitrobenzene	ND		0.190	0.0878	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
N-Nitrosodimethylamine	ND		0.190	0.0499	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
N-Nitrosodi-n-propylamine	ND		0.190	0.0758	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
N-Nitrosodiphenylamine	ND		0.376	0.0480	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Pentachloronitrobenzene	ND		0.376	0.0594	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Phenanthrene	ND		0.0760	0.0431	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Phenol	ND		0.376	0.0775	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Pyrene	ND		0.0760	0.0419	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1
Pyridine	ND		0.376	0.0890	mg/Kg	☼	03/17/23 08:54	03/20/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*03/17/23 08:54*	*03/20/23 18:26*	*1*
2-Fluorophenol (Surr)	*77*		*15 - 110*	*03/17/23 08:54*	*03/20/23 18:26*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/17/23 08:54*	*03/20/23 18:26*	*1*
Phenol-d5 (Surr)	*73*		*15 - 110*	*03/17/23 08:54*	*03/20/23 18:26*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*	*03/17/23 08:54*	*03/20/23 18:26*	*1*
Terphenyl-d14	*86*		*30 - 130*	*03/17/23 08:54*	*03/20/23 18:26*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.236	0.121	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.236	0.101	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0471	0.00943	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
Ethylbenzene	ND		0.0471	0.00943	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
Methyl tert-butyl ether	ND		0.0471	0.00943	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
m,p-Xylene	ND		0.0943	0.00943	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
Naphthalene	ND		0.0471	0.0321	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
o-Xylene	ND		0.0471	0.00943	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
Toluene	ND		0.0471	0.00943	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
C5-C8 Aliphatics (unadjusted)	ND		0.236	0.121	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
C9-C10 Aromatics	ND		0.236	0.0330	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1
C9-C12 Aliphatics (unadjusted)	ND		0.236	0.101	mg/Kg	☼	03/10/23 07:32	03/11/23 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*94*		*70 - 130*	*03/10/23 07:32*	*03/11/23 08:46*	*1*
a,a,a-Trifluorotoluene (pid)	*91*		*70 - 130*	*03/10/23 07:32*	*03/11/23 08:46*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0220	0.0159	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1
PCB-1221	ND		0.0220	0.00651	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1
PCB-1232	ND		0.0220	0.00610	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1

Client Sample ID: 2023-MW-08-1012' **Lab Sample ID: 620-10149-6**
Date Collected: 03/06/23 09:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 84.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0220	0.00348	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1
PCB-1248	ND		0.0220	0.00688	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1
PCB-1254	ND		0.0220	0.0171	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1
PCB-1262	ND		0.0220	0.00513	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1
PCB-1260	ND		0.0220	0.00474	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1
PCB-1268	ND		0.0220	0.00469	mg/Kg	☼	03/10/23 15:38	03/14/23 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:29*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:29*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:29*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:29*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluoroheptanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorooctanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorononanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorodecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorotridecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorotetradecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorobutanesulfonic acid	ND		2.19	0.438	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorohexanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorooctanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
NEtFOSAA	ND		2.19	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
NMeFOSAA	ND		2.19	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
10:2 FTS	ND		2.19	0.657	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluoropentanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluoroheptanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorononanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorodecanesulfonic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.19	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorooctanesulfonamide	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorohexadecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorooctadecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorobutanoic acid	ND		2.19	0.876	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluoropentanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
NMeFOSE	ND		2.19	0.548	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
NMeFOSA	ND		2.19	0.548	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
NEtFOSE	ND		2.19	0.548	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
NEtFOSA	ND		2.19	0.548	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
HFPODA	ND		2.19	1.10	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
DONA	ND		3.29	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
9Cl-PF3ONS	ND		2.19	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
11Cl-PF3OUdS	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluorododecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.19	0.657	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
Perfluoroundecanoic acid	ND		0.657	0.219	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1

Client Sample ID: 2023-MW-08-1012' **Lab Sample ID: 620-10149-6**
Date Collected: 03/06/23 09:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 84.6**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.19	0.657	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1
8:2 Fluorotelomer sulfonic acid	ND		3.29	0.657	ug/Kg	☼	03/13/23 07:29	03/22/23 16:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*84*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
M2-8:2 FTS	*84*		*15 - 200*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
M2-6:2 FTS	*90*		*10 - 200*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C5 PFHxA	*97*		*10 - 174*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C4 PFHpA	*100*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C8 PFOA	*92*		*26 - 159*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C9 PFNA	*96*		*26 - 165*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C6 PFDA	*91*		*26 - 161*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C7 PFUnA	*85*		*12 - 173*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C2-PFDoDA	*86*		*11 - 166*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C3 PFBS	*87*		*27 - 179*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C3 PFHxS	*91*		*24 - 171*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C8 PFOS	*90*		*41 - 154*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
d3-NMeFOSAA	*65*		*10 - 178*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
d5-NEtFOSAA	*66*		*10 - 193*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C8 FOSA	*80*		*14 - 163*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C4 PFBA	*89*		*28 - 153*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C5 PFPeA	*90*		*24 - 161*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
d7-N-MeFOSE-M	*81*		*10 - 179*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
d3-NMePFOSA	*70*		*10 - 175*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
d9-N-EtFOSE-M	*76*		*10 - 185*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
d5-NEtPFOSA	*74*		*10 - 180*	*03/13/23 07:29*	*03/22/23 16:46*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/13/23 07:29*	*03/22/23 16:46*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.55	1.55	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Arsenic	**1.74**	**J**	2.73	1.27	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Barium	**12.7**		0.455	0.136	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Beryllium	**0.110**	**J**	0.455	0.0910	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Cadmium	ND		0.455	0.0910	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Chromium	**4.82**		1.36	0.318	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Lead	**3.17**		1.36	0.546	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Nickel	**2.76**		0.910	0.237	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Selenium	ND		4.55	1.36	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Silver	ND		0.910	0.364	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Thallium	**1.31**	**J**	2.73	1.18	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Vanadium	**5.88**		0.910	0.391	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1
Zinc	**11.7**		1.82	0.728	mg/Kg	☼	03/10/23 04:52	03/14/23 10:41	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0687	0.0229	mg/Kg	☼	03/10/23 05:20	03/13/23 13:55	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-1012'
Date Collected: 03/06/23 09:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-6
Matrix: Solid
Percent Solids: 84.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.4		0.1	0.1	%			03/08/23 09:05	1
Percent Solids (EPA Moisture)	84.6		0.1	0.1	%			03/08/23 09:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0002'
Date Collected: 03/06/23 09:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-7
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00664	0.00433	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Acetone	**0.0381**	**J *3**	0.0664	0.0149	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Acrylonitrile	ND	*3	0.00664	0.00398	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Benzene	ND	*3	0.00664	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Bromobenzene	ND	*3	0.00664	0.00442	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Bromochloromethane	ND	*3	0.00664	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Bromodichloromethane	ND	*3	0.00664	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Bromoform	ND	*3	0.00664	0.00507	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Bromomethane	ND	*3 *+	0.0133	0.00827	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
2-Butanone (MEK)	ND	*3	0.0133	0.00528	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
n-Butylbenzene	ND	*3	0.0133	0.00712	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
sec-Butylbenzene	ND	*3	0.00664	0.00535	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
tert-Butylbenzene	ND	*3	0.00664	0.00523	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Carbon disulfide	ND	*3	0.0133	0.00466	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Carbon tetrachloride	ND	*3	0.00664	0.00418	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Chlorobenzene	ND	*3	0.00664	0.00486	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Chloroethane	ND	*3 *+	0.0133	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Chloroform	ND	*3	0.00664	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Chloromethane	ND	*3	0.0133	0.00510	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
2-Chlorotoluene	ND	*3	0.00664	0.00528	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
4-Chlorotoluene	ND	*3	0.00664	0.00576	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0133	0.00563	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Dibromochloromethane	ND	*3	0.00664	0.00440	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2-Dibromoethane (EDB)	ND	*3	0.00664	0.00477	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Dibromomethane	ND	*3	0.00664	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2-Dichlorobenzene	ND	*3	0.00664	0.00616	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,3-Dichlorobenzene	ND	*3	0.00664	0.00532	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,4-Dichlorobenzene	ND	*3	0.00664	0.00629	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0133	0.00356	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,1-Dichloroethane	ND	*3	0.00664	0.00450	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2-Dichloroethane	ND	*3	0.00664	0.00447	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,1-Dichloroethene	ND	*3	0.00664	0.00406	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
cis-1,2-Dichloroethene	ND	*3	0.00664	0.00384	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
trans-1,2-Dichloroethene	ND	*3	0.00664	0.00413	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2-Dichloropropane	ND	*3	0.00664	0.00440	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,3-Dichloropropane	ND	*3	0.00664	0.00507	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
2,2-Dichloropropane	ND	*3	0.00664	0.00458	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,1-Dichloropropene	ND	*3	0.00664	0.00451	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
cis-1,3-Dichloropropene	ND	*3	0.00664	0.00433	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
trans-1,3-Dichloropropene	ND	*3	0.00664	0.00505	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Ethylbenzene	ND	*3	0.00664	0.00474	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Hexachlorobutadiene	ND	*3	0.0133	0.00668	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
2-Hexanone (MBK)	ND	*3	0.0133	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Isopropylbenzene	ND	*3	0.00664	0.00502	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
4-Isopropyltoluene	ND	*3	0.00664	0.00652	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Methyl tert-butyl ether	ND	*3	0.00664	0.00382	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0133	0.00429	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Methylene Chloride	ND	*3	0.0133	0.00356	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Naphthalene	ND	*3	0.00664	0.00600	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1

Client Sample ID: 2023-SB-10-0002' **Lab Sample ID: 620-10149-7**
Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00664	0.00562	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Styrene	ND	*3	0.00664	0.00514	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00664	0.00498	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00664	0.00608	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Tetrachloroethene	ND	*3	0.00664	0.00369	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Toluene	ND	*3	0.00664	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2,3-Trichlorobenzene	ND	*3	0.00664	0.00560	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2,4-Trichlorobenzene	ND	*3	0.00664	0.00612	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,3,5-Trichlorobenzene	ND	*3	0.00664	0.00631	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,1,1-Trichloroethane	ND	*3	0.00664	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,1,2-Trichloroethane	ND	*3	0.00664	0.00501	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Trichloroethene	ND	*3	0.00664	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00664	0.00507	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2,3-Trichloropropane	ND	*3	0.00664	0.00590	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,2,4-Trimethylbenzene	ND	*3	0.00664	0.00562	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,3,5-Trimethylbenzene	ND	*3	0.00664	0.00564	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Vinyl chloride	ND	*3	0.00664	0.00405	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
m,p-Xylene	ND	*3	0.00664	0.00907	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
o-Xylene	ND	*3	0.00664	0.00485	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Tetrahydrofuran	ND	*3	0.0133	0.00336	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Ethyl ether	ND	*3	0.00664	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Tert-amyl methyl ether	ND	*3	0.00664	0.00524	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Ethyl tert-butyl ether	ND	*3	0.00664	0.00437	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
di-Isopropyl ether	ND	*3	0.00664	0.00474	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
tert-Butanol	ND	*3	0.133	0.0356	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,4-Dioxane	ND	*3	0.133	0.0413	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0332	0.00490	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Ethanol	ND	*3	1.33	0.0823	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
1,3-Dichloropropene, Total	ND		0.00664	0.00505	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1
Xylenes, Total	ND		0.0199	0.00664	mg/Kg	☼	03/13/23 09:42	03/13/23 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*	*3	*70 - 130*	*03/13/23 09:42*	*03/13/23 19:48*	*1*
Toluene-d8 (Surr)	*107*	*3	*70 - 130*	*03/13/23 09:42*	*03/13/23 19:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*133*	*S1+ *3	*70 - 130*	*03/13/23 09:42*	*03/13/23 19:48*	*1*
Dibromofluoromethane (Surr)	*137*	*S1+ *3	*70 - 130*	*03/13/23 09:42*	*03/13/23 19:48*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00549	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Acetone	ND		0.0549	0.0123	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Acrylonitrile	ND		0.00549	0.00329	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Benzene	ND		0.00549	0.00367	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Bromobenzene	ND		0.00549	0.00366	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Bromochloromethane	ND		0.00549	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Bromodichloromethane	ND		0.00549	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Bromoform	ND		0.00549	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Bromomethane	ND		0.0110	0.00684	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
2-Butanone (MEK)	ND		0.0110	0.00437	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1

Client Sample ID: 2023-SB-10-0002' **Lab Sample ID: 620-10149-7**
Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0110	0.00589	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
sec-Butylbenzene	ND		0.00549	0.00443	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
tert-Butylbenzene	ND		0.00549	0.00433	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Carbon disulfide	ND		0.0110	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Carbon tetrachloride	ND		0.00549	0.00346	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Chlorobenzene	ND		0.00549	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Chloroethane	ND		0.0110	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Chloroform	ND		0.00549	0.00369	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Chloromethane	ND		0.0110	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
2-Chlorotoluene	ND		0.00549	0.00437	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
4-Chlorotoluene	ND		0.00549	0.00477	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.0110	0.00466	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Dibromochloromethane	ND		0.00549	0.00364	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2-Dibromoethane (EDB)	ND		0.00549	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Dibromomethane	ND		0.00549	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2-Dichlorobenzene	ND	*3	0.00549	0.00510	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,3-Dichlorobenzene	ND		0.00549	0.00440	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,4-Dichlorobenzene	ND	*3	0.00549	0.00521	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0110	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,1-Dichloroethane	ND		0.00549	0.00372	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2-Dichloroethane	ND		0.00549	0.00370	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,1-Dichloroethene	ND		0.00549	0.00336	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
cis-1,2-Dichloroethene	ND		0.00549	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
trans-1,2-Dichloroethene	ND		0.00549	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2-Dichloropropane	ND		0.00549	0.00364	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,3-Dichloropropane	ND		0.00549	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
2,2-Dichloropropane	ND		0.00549	0.00379	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,1-Dichloropropene	ND		0.00549	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
cis-1,3-Dichloropropene	ND		0.00549	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
trans-1,3-Dichloropropene	ND		0.00549	0.00417	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Ethylbenzene	ND		0.00549	0.00392	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Hexachlorobutadiene	ND	*3	0.0110	0.00552	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
2-Hexanone (MBK)	ND		0.0110	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Isopropylbenzene	ND		0.00549	0.00415	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
4-Isopropyltoluene	ND	*3	0.00549	0.00539	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Methyl tert-butyl ether	ND		0.00549	0.00316	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Methylene Chloride	ND		0.0110	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Naphthalene	ND	*3	0.00549	0.00496	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
N-Propylbenzene	ND		0.00549	0.00465	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Styrene	ND		0.00549	0.00425	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,1,1,2-Tetrachloroethane	ND		0.00549	0.00412	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00549	0.00503	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Tetrachloroethene	ND		0.00549	0.00305	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Toluene	ND		0.00549	0.00348	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2,3-Trichlorobenzene	ND	*3	0.00549	0.00463	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2,4-Trichlorobenzene	ND		0.00549	0.00506	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,3,5-Trichlorobenzene	ND	*3	0.00549	0.00522	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,1,1-Trichloroethane	ND		0.00549	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1

Client Sample ID: 2023-SB-10-0002' **Lab Sample ID: 620-10149-7**
Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00549	0.00414	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Trichloroethene	ND		0.00549	0.00369	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Trichlorofluoromethane (Freon 11)	ND		0.00549	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2,3-Trichloropropane	ND		0.00549	0.00488	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,2,4-Trimethylbenzene	ND		0.00549	0.00465	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,3,5-Trimethylbenzene	ND		0.00549	0.00467	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Vinyl chloride	ND		0.00549	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
m,p-Xylene	ND		0.00549	0.00750	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
o-Xylene	ND		0.00549	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Tetrahydrofuran	ND		0.0110	0.00278	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Ethyl ether	ND		0.00549	0.00289	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Tert-amyl methyl ether	ND		0.00549	0.00434	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Ethyl tert-butyl ether	ND		0.00549	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
di-Isopropyl ether	ND		0.00549	0.00392	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
tert-Butanol	ND		0.110	0.0294	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,4-Dioxane	ND		0.110	0.0342	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
trans-1,4-Dichloro-2-butene	ND		0.0275	0.00405	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Ethanol	ND		1.10	0.0681	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
1,3-Dichloropropene, Total	ND		0.00549	0.00417	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1
Xylenes, Total	ND		0.0165	0.00549	mg/Kg	☼	03/14/23 10:36	03/14/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:33*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:33*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/14/23 10:36*	*03/14/23 15:33*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.368	0.0654	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
1,2,4-Trichlorobenzene	ND		0.368	0.0842	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
1,2-Dichlorobenzene	ND		0.368	0.0709	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
1,3-Dichlorobenzene	ND		0.368	0.0890	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
1,4-Dichlorobenzene	ND		0.368	0.0866	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
1-Methylnaphthalene	ND		0.0743	0.0624	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2,4,5-Trichlorophenol	ND		0.368	0.0421	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2,4,6-Trichlorophenol	ND		0.186	0.0455	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2,4-Dichlorophenol	ND		0.186	0.0741	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2,4-Dimethylphenol	ND		0.368	0.0539	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2,4-Dinitrophenol	ND		0.368	0.0967	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2,4-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2,6-Dinitrotoluene	ND		0.186	0.0436	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2-Chloronaphthalene	ND		0.368	0.0850	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2-Chlorophenol	ND		0.186	0.0761	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2-Methylnaphthalene	ND		0.0743	0.0549	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2-Methylphenol	ND		0.368	0.0537	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2-Nitroaniline	ND		0.368	0.0350	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
2-Nitrophenol	ND		0.186	0.0661	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
3 & 4 Methylphenol	ND		0.368	0.0696	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
3,3'-Dichlorobenzidine	ND		0.368	0.0607	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1

Client Sample ID: 2023-SB-10-0002' **Lab Sample ID: 620-10149-7**
Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.368	0.0329	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
4,6-Dinitro-2-methylphenol	ND		0.368	0.0661	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
4-Bromophenyl phenyl ether	ND		0.368	0.0416	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
4-Chloro-3-methylphenol	ND		0.368	0.0720	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
4-Chloroaniline	ND		0.186	0.0282	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
4-Chlorophenyl phenyl ether	ND		0.368	0.0393	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
4-Nitroaniline	ND		0.186	0.0587	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
4-Nitrophenol	ND		0.368	0.128	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Acenaphthene	ND		0.0743	0.0593	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Acenaphthylene	**0.229**		0.0743	0.0488	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Acetophenone	ND		0.186	0.0454	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Aniline	ND		0.368	0.0282	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Anthracene	**0.143**		0.0743	0.0430	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Azobenzene/Diphenyldiazene	ND		0.368	0.0627	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzidine	ND		0.735	0.109	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzo[a]anthracene	**0.218**		0.0743	0.0418	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzo[a]pyrene	**0.260**		0.0743	0.0532	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzo[b]fluoranthene	**0.151**		0.0743	0.0616	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzo[g,h,i]perylene	**0.224**		0.0743	0.0581	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzo[k]fluoranthene	**0.181**		0.0743	0.0578	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzoic acid	ND		0.368	0.253	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Benzyl alcohol	ND		0.368	0.0666	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Bis(2-chloroethoxy)methane	ND		0.368	0.0640	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Bis(2-chloroethyl)ether	ND		0.186	0.0608	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0828	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Bis(2-ethylhexyl) phthalate	**0.255**		0.186	0.0474	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Butyl benzyl phthalate	ND		0.368	0.0369	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Carbazole	ND		0.186	0.0487	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Chrysene	**0.252**		0.0743	0.0420	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Dibenz(a,h)anthracene	**0.0664**	**J**	0.0743	0.0567	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Dibenzofuran	ND		0.186	0.0644	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Diethyl phthalate	ND		0.368	0.0403	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Dimethyl phthalate	ND		0.368	0.0479	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Di-n-butyl phthalate	**0.567**		0.368	0.0393	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Di-n-octyl phthalate	ND		0.368	0.0607	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Fluoranthene	**0.169**		0.0743	0.0436	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Fluorene	ND		0.0743	0.0679	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Hexachlorobenzene	ND		0.186	0.0516	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Hexachlorobutadiene	ND		0.186	0.0928	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Hexachlorocyclopentadiene	ND		0.186	0.0711	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Hexachloroethane	ND		0.186	0.0731	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Indeno[1,2,3-cd]pyrene	**0.150**		0.0743	0.0631	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Isophorone	ND		0.186	0.0509	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Naphthalene	ND		0.0743	0.0713	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Nitrobenzene	ND		0.186	0.0859	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
N-Nitrosodimethylamine	ND		0.186	0.0488	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0741	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
N-Nitrosodiphenylamine	ND		0.368	0.0469	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Pentachloronitrobenzene	ND		0.368	0.0581	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1

Client Sample ID: 2023-SB-10-0002' **Lab Sample ID: 620-10149-7**
Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.368	0.150	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Phenanthrene	**0.112**		0.0743	0.0421	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Phenol	ND		0.368	0.0758	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Pyrene	**0.373**		0.0743	0.0410	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1
Pyridine	ND		0.368	0.0870	mg/Kg	☼	03/17/23 08:54	03/20/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*30 - 130*	*03/17/23 08:54*	*03/20/23 19:51*	*1*
2-Fluorophenol (Surr)	*74*		*15 - 110*	*03/17/23 08:54*	*03/20/23 19:51*	*1*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/17/23 08:54*	*03/20/23 19:51*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/17/23 08:54*	*03/20/23 19:51*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*15 - 110*	*03/17/23 08:54*	*03/20/23 19:51*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/17/23 08:54*	*03/20/23 19:51*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.260	0.133	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.260	0.111	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0520	0.0104	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
Ethylbenzene	ND		0.0520	0.0104	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
Methyl tert-butyl ether	ND		0.0520	0.0104	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
m,p-Xylene	ND		0.104	0.0104	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
Naphthalene	ND		0.0520	0.0354	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
o-Xylene	ND		0.0520	0.0104	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
Toluene	ND		0.0520	0.0104	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
C5-C8 Aliphatics (unadjusted)	ND		0.260	0.133	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
C9-C10 Aromatics	ND		0.260	0.0364	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1
C9-C12 Aliphatics (unadjusted)	ND		0.260	0.111	mg/Kg	☼	03/10/23 07:32	03/11/23 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/10/23 07:32*	*03/11/23 09:25*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/10/23 07:32*	*03/11/23 09:25*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0204	0.0147	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1221	ND		0.0204	0.00603	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1232	ND		0.0204	0.00565	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1242	ND		0.0204	0.00322	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1248	ND		0.0204	0.00637	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1254	**0.148**		0.0204	0.0159	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1262	ND		0.0204	0.00475	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1260	ND		0.0204	0.00438	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1
PCB-1268	ND		0.0204	0.00434	mg/Kg	☼	03/10/23 15:38	03/14/23 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:48*	*1*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/10/23 15:38*	*03/14/23 17:48*	*1*

Client Sample ID: 2023-SB-10-0002' **Lab Sample ID: 620-10149-7**
Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	132		30 - 150	03/10/23 15:38	03/14/23 17:48	1
DCB Decachlorobiphenyl (Surr)	119		30 - 150	03/10/23 15:38	03/14/23 17:48	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluoroheptanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorooctanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorononanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorodecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorotridecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorotetradecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorobutanesulfonic acid	ND		2.25	0.451	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorohexanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorooctanesulfonic acid	**0.448**	**J**	0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
NEtFOSAA	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
NMeFOSAA	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
10:2 FTS	ND		2.25	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluoropentanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluoroheptanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorononanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorodecanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorooctanesulfonamide	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorohexadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorooctadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorobutanoic acid	ND		2.25	0.902	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluoropentanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
NMeFOSE	ND		2.25	0.564	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
NMeFOSA	ND		2.25	0.564	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
NEtFOSE	ND		2.25	0.564	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
NEtFOSA	ND		2.25	0.564	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
HFPODA	ND		2.25	1.13	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
DONA	ND		3.38	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
9Cl-PF3ONS	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
11Cl-PF3OUdS	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluorododecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
4:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
Perfluoroundecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
6:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 16:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	89		10 - 200	03/13/23 07:29	03/22/23 16:57	1
M2-8:2 FTS	86		15 - 200	03/13/23 07:29	03/22/23 16:57	1
M2-6:2 FTS	89		10 - 200	03/13/23 07:29	03/22/23 16:57	1
13C5 PFHxA	94		10 - 174	03/13/23 07:29	03/22/23 16:57	1
13C4 PFHpA	95		10 - 178	03/13/23 07:29	03/22/23 16:57	1
13C8 PFOA	94		26 - 159	03/13/23 07:29	03/22/23 16:57	1

Client Sample ID: 2023-SB-10-0002' **Lab Sample ID: 620-10149-7**
Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	90		26 - 165	03/13/23 07:29	03/22/23 16:57	1
13C6 PFDA	91		26 - 161	03/13/23 07:29	03/22/23 16:57	1
13C7 PFUnA	93		12 - 173	03/13/23 07:29	03/22/23 16:57	1
13C2-PFDoDA	87		11 - 166	03/13/23 07:29	03/22/23 16:57	1
13C2 PFTeDA	92		10 - 169	03/13/23 07:29	03/22/23 16:57	1
13C3 PFBS	88		27 - 179	03/13/23 07:29	03/22/23 16:57	1
13C3 PFHxS	92		24 - 171	03/13/23 07:29	03/22/23 16:57	1
13C8 PFOS	87		41 - 154	03/13/23 07:29	03/22/23 16:57	1
d3-NMeFOSAA	72		10 - 178	03/13/23 07:29	03/22/23 16:57	1
d5-NEtFOSAA	72		10 - 193	03/13/23 07:29	03/22/23 16:57	1
13C8 FOSA	83		14 - 163	03/13/23 07:29	03/22/23 16:57	1
13C4 PFBA	93		28 - 153	03/13/23 07:29	03/22/23 16:57	1
13C5 PFPeA	94		24 - 161	03/13/23 07:29	03/22/23 16:57	1
d7-N-MeFOSE-M	84		10 - 179	03/13/23 07:29	03/22/23 16:57	1
d3-NMePFOSA	80		10 - 175	03/13/23 07:29	03/22/23 16:57	1
d9-N-EtFOSE-M	81		10 - 185	03/13/23 07:29	03/22/23 16:57	1
d5-NEtPFOSA	80		10 - 180	03/13/23 07:29	03/22/23 16:57	1
13C3 HFPO-DA	90		10 - 169	03/13/23 07:29	03/22/23 16:57	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.58	1.56	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Arsenic	**4.62**		2.75	1.28	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Barium	**90.7**		0.458	0.137	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Beryllium	**0.439**	**J**	0.458	0.0916	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Cadmium	**0.318**	**J**	0.458	0.0916	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Chromium	**7.56**		1.37	0.321	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Lead	**30.8**		1.37	0.550	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Nickel	**6.90**		0.916	0.238	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Selenium	ND		4.58	1.37	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Silver	ND		0.916	0.367	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Thallium	**1.93**	**J**	2.75	1.19	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Vanadium	**12.4**		0.916	0.394	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1
Zinc	**106**		1.83	0.733	mg/Kg	☼	03/10/23 04:52	03/14/23 10:19	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0395**	**J**	0.0644	0.0215	mg/Kg	☼	03/10/23 05:20	03/13/23 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.3**		0.1	0.1	%			03/08/23 09:05	1
Percent Solids (EPA Moisture)	**88.7**		0.1	0.1	%			03/08/23 09:05	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0204'
Date Collected: 03/06/23 09:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-8
Matrix: Solid
Percent Solids: 83.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00573	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Acetone	ND		0.0573	0.0128	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Acrylonitrile	ND		0.00573	0.00344	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Benzene	ND		0.00573	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Bromobenzene	ND		0.00573	0.00382	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Bromochloromethane	ND		0.00573	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Bromodichloromethane	ND		0.00573	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Bromoform	ND		0.00573	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Bromomethane	ND	*+	0.0115	0.00714	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
2-Butanone (MEK)	ND		0.0115	0.00456	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
n-Butylbenzene	ND	*3	0.0115	0.00614	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
sec-Butylbenzene	ND		0.00573	0.00462	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
tert-Butylbenzene	ND		0.00573	0.00451	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Carbon disulfide	ND		0.0115	0.00402	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Carbon tetrachloride	ND		0.00573	0.00361	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Chlorobenzene	ND		0.00573	0.00419	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Chloroethane	ND	*+	0.0115	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Chloroform	ND		0.00573	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Chloromethane	ND		0.0115	0.00440	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
2-Chlorotoluene	ND		0.00573	0.00456	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
4-Chlorotoluene	ND		0.00573	0.00497	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0115	0.00486	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Dibromochloromethane	ND		0.00573	0.00379	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2-Dibromoethane (EDB)	ND		0.00573	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Dibromomethane	ND		0.00573	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2-Dichlorobenzene	ND	*3	0.00573	0.00532	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,3-Dichlorobenzene	ND		0.00573	0.00459	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,4-Dichlorobenzene	ND	*3	0.00573	0.00543	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Dichlorodifluoromethane (Freon 12)	ND		0.0115	0.00307	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,1-Dichloroethane	ND		0.00573	0.00388	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2-Dichloroethane	ND		0.00573	0.00386	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,1-Dichloroethene	ND		0.00573	0.00351	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
cis-1,2-Dichloroethene	ND		0.00573	0.00331	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
trans-1,2-Dichloroethene	ND		0.00573	0.00356	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2-Dichloropropane	ND		0.00573	0.00379	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,3-Dichloropropane	ND		0.00573	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
2,2-Dichloropropane	ND		0.00573	0.00395	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,1-Dichloropropene	ND		0.00573	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
cis-1,3-Dichloropropene	ND		0.00573	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
trans-1,3-Dichloropropene	ND		0.00573	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Ethylbenzene	ND		0.00573	0.00409	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Hexachlorobutadiene	ND	*3	0.0115	0.00576	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
2-Hexanone (MBK)	ND		0.0115	0.00337	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Isopropylbenzene	ND		0.00573	0.00433	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
4-Isopropyltoluene	ND	*3	0.00573	0.00563	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Methyl tert-butyl ether	ND		0.00573	0.00330	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0115	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Methylene Chloride	ND		0.0115	0.00307	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Naphthalene	ND	*3	0.00573	0.00518	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1

Client Sample ID: 2023-SB-10-0204' **Lab Sample ID: 620-10149-8**
Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00573	0.00485	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Styrene	ND		0.00573	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,1,1,2-Tetrachloroethane	ND		0.00573	0.00430	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,1,2,2-Tetrachloroethane	ND		0.00573	0.00525	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Tetrachloroethene	ND		0.00573	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Toluene	ND		0.00573	0.00363	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2,3-Trichlorobenzene	ND	*3	0.00573	0.00484	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2,4-Trichlorobenzene	ND		0.00573	0.00528	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,3,5-Trichlorobenzene	ND	*3	0.00573	0.00544	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,1,1-Trichloroethane	ND		0.00573	0.00391	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,1,2-Trichloroethane	ND		0.00573	0.00432	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Trichloroethene	ND		0.00573	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Trichlorofluoromethane (Freon 11)	ND		0.00573	0.00438	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2,3-Trichloropropane	ND		0.00573	0.00509	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,2,4-Trimethylbenzene	ND		0.00573	0.00485	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,3,5-Trimethylbenzene	ND		0.00573	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Vinyl chloride	ND		0.00573	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
m,p-Xylene	ND		0.00573	0.00783	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
o-Xylene	ND		0.00573	0.00418	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Tetrahydrofuran	ND		0.0115	0.00290	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Ethyl ether	ND		0.00573	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Tert-amyl methyl ether	ND		0.00573	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Ethyl tert-butyl ether	ND		0.00573	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
di-Isopropyl ether	ND		0.00573	0.00409	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
tert-Butanol	ND		0.115	0.0307	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,4-Dioxane	ND		0.115	0.0356	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
trans-1,4-Dichloro-2-butene	ND		0.0286	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Ethanol	ND		1.15	0.0710	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
1,3-Dichloropropene, Total	ND		0.00573	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1
Xylenes, Total	ND		0.0172	0.00573	mg/Kg	☼	03/13/23 09:42	03/13/23 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*03/13/23 09:42*	*03/13/23 20:14*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/13/23 09:42*	*03/13/23 20:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/13/23 09:42*	*03/13/23 20:14*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*	*03/13/23 09:42*	*03/13/23 20:14*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00530	0.00345	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Acetone	ND	*3	0.0530	0.0119	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Acrylonitrile	ND	*3	0.00530	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Benzene	ND	*3	0.00530	0.00354	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Bromobenzene	ND	*3	0.00530	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Bromochloromethane	ND	*3	0.00530	0.00301	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Bromodichloromethane	ND	*3	0.00530	0.00389	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Bromoform	ND	*3	0.00530	0.00405	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Bromomethane	ND	*3	0.0106	0.00660	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
2-Butanone (MEK)	ND	*3	0.0106	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0204'
Date Collected: 03/06/23 09:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-8
Matrix: Solid
Percent Solids: 83.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0106	0.00568	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
sec-Butylbenzene	ND	*3	0.00530	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
tert-Butylbenzene	ND	*3	0.00530	0.00417	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Carbon disulfide	ND	*3	0.0106	0.00372	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Carbon tetrachloride	ND	*3	0.00530	0.00334	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Chlorobenzene	ND	*3	0.00530	0.00388	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Chloroethane	ND	*3	0.0106	0.00389	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Chloroform	ND	*3	0.00530	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Chloromethane	ND	*3	0.0106	0.00407	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
2-Chlorotoluene	ND	*3	0.00530	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
4-Chlorotoluene	ND	*3	0.00530	0.00460	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.0106	0.00449	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Dibromochloromethane	ND	*3	0.00530	0.00351	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2-Dibromoethane (EDB)	ND	*3	0.00530	0.00380	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Dibromomethane	ND	*3	0.00530	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2-Dichlorobenzene	ND	*3	0.00530	0.00492	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,3-Dichlorobenzene	ND	*3	0.00530	0.00425	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,4-Dichlorobenzene	ND	*3	0.00530	0.00502	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0106	0.00284	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,1-Dichloroethane	ND	*3	0.00530	0.00359	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2-Dichloroethane	ND	*3	0.00530	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,1-Dichloroethene	ND	*3	0.00530	0.00324	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
cis-1,2-Dichloroethene	ND	*3	0.00530	0.00306	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
trans-1,2-Dichloroethene	ND	*3	0.00530	0.00330	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2-Dichloropropane	ND	*3	0.00530	0.00351	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,3-Dichloropropane	ND	*3	0.00530	0.00405	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
2,2-Dichloropropane	ND	*3	0.00530	0.00366	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,1-Dichloropropene	ND	*3	0.00530	0.00360	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
cis-1,3-Dichloropropene	ND	*3	0.00530	0.00345	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
trans-1,3-Dichloropropene	ND	*3	0.00530	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Ethylbenzene	ND	*3	0.00530	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Hexachlorobutadiene	ND	*3	0.0106	0.00533	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
2-Hexanone (MBK)	ND	*3	0.0106	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Isopropylbenzene	ND	*3	0.00530	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
4-Isopropyltoluene	ND	*3	0.00530	0.00520	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Methyl tert-butyl ether	ND	*3	0.00530	0.00305	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0106	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Methylene Chloride	ND	*3	0.0106	0.00284	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Naphthalene	ND	*3	0.00530	0.00479	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
N-Propylbenzene	ND	*3	0.00530	0.00448	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Styrene	ND	*3	0.00530	0.00410	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00530	0.00397	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,1,2,2-Tetrachloroethane	ND	*3 *+	0.00530	0.00485	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Tetrachloroethene	ND	*3	0.00530	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Toluene	ND	*3	0.00530	0.00336	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2,3-Trichlorobenzene	ND	*3	0.00530	0.00447	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2,4-Trichlorobenzene	ND	*3	0.00530	0.00488	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,3,5-Trichlorobenzene	ND	*3	0.00530	0.00503	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,1,1-Trichloroethane	ND	*3	0.00530	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1

Client Sample ID: 2023-SB-10-0204' **Lab Sample ID: 620-10149-8**
Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00530	0.00399	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Trichloroethene	ND	*3	0.00530	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00530	0.00405	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2,3-Trichloropropane	ND	*3	0.00530	0.00470	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,2,4-Trimethylbenzene	ND	*3	0.00530	0.00448	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,3,5-Trimethylbenzene	ND	*3	0.00530	0.00450	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Vinyl chloride	ND	*3	0.00530	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
m,p-Xylene	ND	*3	0.00530	0.00724	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
o-Xylene	ND	*3	0.00530	0.00387	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Tetrahydrofuran	ND	*3	0.0106	0.00268	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Ethyl ether	ND	*3	0.00530	0.00279	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Tert-amyl methyl ether	ND	*3	0.00530	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Ethyl tert-butyl ether	ND	*3	0.00530	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
di-Isopropyl ether	ND	*3	0.00530	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
tert-Butanol	ND	*3	0.106	0.0284	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,4-Dioxane	ND	*3	0.106	0.0330	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0265	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Ethanol	ND	*3	1.06	0.0657	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
1,3-Dichloropropene, Total	ND		0.00530	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1
Xylenes, Total	ND		0.0159	0.00530	mg/Kg	☼	03/14/23 10:36	03/14/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	**3 S1-*	*70 - 130*	*03/14/23 10:36*	*03/14/23 15:59*	*1*
Toluene-d8 (Surr)	*92*	**3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*196*	**3 S1+*	*70 - 130*	*03/14/23 10:36*	*03/14/23 15:59*	*1*
Dibromofluoromethane (Surr)	*176*	**3 S1+*	*70 - 130*	*03/14/23 10:36*	*03/14/23 15:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.382	0.0679	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
1,2,4-Trichlorobenzene	ND		0.382	0.0874	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
1,2-Dichlorobenzene	ND		0.382	0.0735	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
1,3-Dichlorobenzene	ND		0.382	0.0924	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
1,4-Dichlorobenzene	ND		0.382	0.0898	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
1-Methylnaphthalene	**0.0724**	**J**	0.0771	0.0648	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2,4,5-Trichlorophenol	ND		0.382	0.0437	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2,4,6-Trichlorophenol	ND		0.193	0.0472	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2,4-Dichlorophenol	ND		0.193	0.0769	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2,4-Dimethylphenol	ND		0.382	0.0560	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2,4-Dinitrophenol	ND		0.382	0.100	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2,4-Dinitrotoluene	ND		0.193	0.0452	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2,6-Dinitrotoluene	ND		0.193	0.0452	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2-Chloronaphthalene	ND		0.382	0.0882	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2-Chlorophenol	ND		0.193	0.0790	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2-Methylnaphthalene	**0.0604**	**J**	0.0771	0.0570	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2-Methylphenol	ND		0.382	0.0557	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2-Nitroaniline	ND		0.382	0.0363	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
2-Nitrophenol	ND		0.193	0.0686	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
3 & 4 Methylphenol	ND		0.382	0.0723	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
3,3'-Dichlorobenzidine	ND		0.382	0.0630	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1

Client Sample ID: 2023-SB-10-0204'
Date Collected: 03/06/23 09:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-8
Matrix: Solid
Percent Solids: 83.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.382	0.0341	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
4,6-Dinitro-2-methylphenol	ND		0.382	0.0686	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
4-Bromophenyl phenyl ether	ND		0.382	0.0431	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
4-Chloro-3-methylphenol	ND		0.382	0.0747	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
4-Chloroaniline	ND		0.193	0.0293	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
4-Chlorophenyl phenyl ether	ND		0.382	0.0408	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
4-Nitroaniline	ND		0.193	0.0609	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
4-Nitrophenol	ND		0.382	0.133	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Acenaphthene	ND		0.0771	0.0615	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Acenaphthylene	**0.0693**	**J**	0.0771	0.0506	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Acetophenone	ND		0.193	0.0471	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Aniline	ND		0.382	0.0293	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Anthracene	**0.0470**	**J**	0.0771	0.0446	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Azobenzene/Diphenyldiazene	ND		0.382	0.0651	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzidine	ND		0.763	0.113	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzo[a]anthracene	**0.176**		0.0771	0.0434	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzo[a]pyrene	**0.175**		0.0771	0.0552	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzo[b]fluoranthene	**0.259**		0.0771	0.0639	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzo[g,h,i]perylene	**0.173**		0.0771	0.0602	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzo[k]fluoranthene	**0.187**		0.0771	0.0600	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzoic acid	ND		0.382	0.262	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Benzyl alcohol	ND		0.382	0.0691	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Bis(2-chloroethoxy)methane	ND		0.382	0.0664	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Bis(2-chloroethyl)ether	ND		0.193	0.0631	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
bis (2-chloroisopropyl) ether	ND		0.193	0.0859	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Bis(2-ethylhexyl) phthalate	ND		0.193	0.0491	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Butyl benzyl phthalate	ND		0.382	0.0383	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Carbazole	ND		0.193	0.0505	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Chrysene	**0.307**		0.0771	0.0436	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Dibenz(a,h)anthracene	**0.0687**	**J**	0.0771	0.0589	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Dibenzofuran	ND		0.193	0.0668	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Diethyl phthalate	ND		0.382	0.0419	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Dimethyl phthalate	ND		0.382	0.0497	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Di-n-butyl phthalate	**5.90**		0.763	0.0816	mg/Kg	☼	03/17/23 08:54	03/21/23 16:34	2
Di-n-octyl phthalate	ND		0.382	0.0630	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Fluoranthene	**0.413**		0.0771	0.0452	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Fluorene	ND		0.0771	0.0704	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Hexachlorobenzene	ND		0.193	0.0535	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Hexachlorobutadiene	ND		0.193	0.0963	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Hexachlorocyclopentadiene	ND		0.193	0.0738	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Hexachloroethane	ND		0.193	0.0759	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Indeno[1,2,3-cd]pyrene	**0.153**		0.0771	0.0654	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Isophorone	ND		0.193	0.0528	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Naphthalene	ND		0.0771	0.0740	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Nitrobenzene	ND		0.193	0.0892	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
N-Nitrosodimethylamine	ND		0.193	0.0506	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
N-Nitrosodi-n-propylamine	ND		0.193	0.0769	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
N-Nitrosodiphenylamine	ND		0.382	0.0487	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Pentachloronitrobenzene	ND		0.382	0.0602	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1

Client Sample ID: 2023-SB-10-0204' **Lab Sample ID: 620-10149-8**
Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.382	0.156	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Phenanthrene	**0.293**		0.0771	0.0437	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Phenol	ND		0.382	0.0786	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Pyrene	**0.422**		0.0771	0.0426	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1
Pyridine	ND		0.382	0.0903	mg/Kg	☼	03/17/23 08:54	03/20/23 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*30 - 130*	*03/17/23 08:54*	*03/20/23 18:55*	*1*
2-Fluorobiphenyl (Surr)	*60*		*30 - 130*	*03/17/23 08:54*	*03/21/23 16:34*	*2*
2-Fluorophenol (Surr)	*44*		*15 - 110*	*03/17/23 08:54*	*03/20/23 18:55*	*1*
2-Fluorophenol (Surr)	*43*		*15 - 110*	*03/17/23 08:54*	*03/21/23 16:34*	*2*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*	*03/17/23 08:54*	*03/20/23 18:55*	*1*
Nitrobenzene-d5 (Surr)	*62*		*30 - 130*	*03/17/23 08:54*	*03/21/23 16:34*	*2*
Phenol-d5 (Surr)	*51*		*15 - 110*	*03/17/23 08:54*	*03/20/23 18:55*	*1*
Phenol-d5 (Surr)	*49*		*15 - 110*	*03/17/23 08:54*	*03/21/23 16:34*	*2*
2,4,6-Tribromophenol (Surr)	*44*		*15 - 110*	*03/17/23 08:54*	*03/20/23 18:55*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*15 - 110*	*03/17/23 08:54*	*03/21/23 16:34*	*2*
Terphenyl-d14	*70*		*30 - 130*	*03/17/23 08:54*	*03/20/23 18:55*	*1*
Terphenyl-d14	*76*		*30 - 130*	*03/17/23 08:54*	*03/21/23 16:34*	*2*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**4.28**		0.331	0.169	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	**1.33**		0.331	0.141	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0661	0.0132	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
Ethylbenzene	**0.0503**	**J**	0.0661	0.0132	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
Methyl tert-butyl ether	ND		0.0661	0.0132	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
m,p-Xylene	ND		0.132	0.0132	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
Naphthalene	ND		0.0661	0.0450	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
o-Xylene	ND		0.0661	0.0132	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
Toluene	ND		0.0661	0.0132	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
C5-C8 Aliphatics (unadjusted)	**4.28**		0.331	0.169	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
C9-C10 Aromatics	**0.425**		0.331	0.0463	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1
C9-C12 Aliphatics (unadjusted)	**1.81**		0.331	0.141	mg/Kg	☼	03/10/23 07:32	03/11/23 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*102*		*70 - 130*	*03/10/23 07:32*	*03/11/23 10:05*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/10/23 07:32*	*03/11/23 10:05*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0237	0.0171	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1
PCB-1221	ND		0.0237	0.00701	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1
PCB-1232	ND		0.0237	0.00657	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1
PCB-1242	ND		0.0237	0.00375	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1
PCB-1248	ND		0.0237	0.00741	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1
PCB-1254	**0.0221**	**J**	0.0237	0.0185	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1
PCB-1262	ND		0.0237	0.00553	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1

Client Sample ID: 2023-SB-10-0204' **Lab Sample ID: 620-10149-8**
Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	**0.0211**	**J**	0.0237	0.00510	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1
PCB-1268	ND		0.0237	0.00505	mg/Kg	☼	03/10/23 15:38	03/14/23 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:07*	*1*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:07*	*1*
DCB Decachlorobiphenyl (Surr)	*119*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:07*	*1*
DCB Decachlorobiphenyl (Surr)	*116*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**0.238**	**J I**	0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluoroheptanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorooctanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorononanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorodecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorotridecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorotetradecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorobutanesulfonic acid	ND		2.29	0.458	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorohexanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorooctanesulfonic acid	**0.414**	**J**	0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
NEtFOSAA	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
NMeFOSAA	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
10:2 FTS	ND		2.29	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluoropentanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluoroheptanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorononanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorodecanesulfonic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorooctanesulfonamide	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorohexadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorooctadecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorobutanoic acid	ND		2.29	0.917	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluoropentanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
NMeFOSE	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
NMeFOSA	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
NEtFOSE	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
NEtFOSA	ND		2.29	0.573	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
HFPODA	ND		2.29	1.15	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
DONA	ND		3.44	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
9Cl-PF3ONS	ND		2.29	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
11Cl-PF3OUdS	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluorododecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
4:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
Perfluoroundecanoic acid	ND		0.688	0.229	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
6:2 Fluorotelomer sulfonic acid	ND		2.29	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1
8:2 Fluorotelomer sulfonic acid	ND		3.44	0.688	ug/Kg	☼	03/13/23 07:29	03/22/23 17:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*86*		*10 - 200*	*03/13/23 07:29*	*03/22/23 17:08*	*1*

Client Sample ID: 2023-SB-10-0204' Lab Sample ID: 620-10149-8

Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	90		15 - 200	03/13/23 07:29	03/22/23 17:08	1
M2-6:2 FTS	78		10 - 200	03/13/23 07:29	03/22/23 17:08	1
13C5 PFHxA	88		10 - 174	03/13/23 07:29	03/22/23 17:08	1
13C4 PFHpA	86		10 - 178	03/13/23 07:29	03/22/23 17:08	1
13C8 PFOA	85		26 - 159	03/13/23 07:29	03/22/23 17:08	1
13C9 PFNA	85		26 - 165	03/13/23 07:29	03/22/23 17:08	1
13C6 PFDA	84		26 - 161	03/13/23 07:29	03/22/23 17:08	1
13C7 PFUnA	86		12 - 173	03/13/23 07:29	03/22/23 17:08	1
13C2-PFDoDA	82		11 - 166	03/13/23 07:29	03/22/23 17:08	1
13C2 PFTeDA	99		10 - 169	03/13/23 07:29	03/22/23 17:08	1
13C3 PFBS	80		27 - 179	03/13/23 07:29	03/22/23 17:08	1
13C3 PFHxS	90		24 - 171	03/13/23 07:29	03/22/23 17:08	1
13C8 PFOS	83		41 - 154	03/13/23 07:29	03/22/23 17:08	1
d3-NMeFOSAA	62		10 - 178	03/13/23 07:29	03/22/23 17:08	1
d5-NEtFOSAA	69		10 - 193	03/13/23 07:29	03/22/23 17:08	1
13C8 FOSA	73		14 - 163	03/13/23 07:29	03/22/23 17:08	1
13C4 PFBA	84		28 - 153	03/13/23 07:29	03/22/23 17:08	1
13C5 PFPeA	81		24 - 161	03/13/23 07:29	03/22/23 17:08	1
d7-N-MeFOSE-M	86		10 - 179	03/13/23 07:29	03/22/23 17:08	1
d3-NMePFOSA	63		10 - 175	03/13/23 07:29	03/22/23 17:08	1
d9-N-EtFOSE-M	93		10 - 185	03/13/23 07:29	03/22/23 17:08	1
d5-NEtPFOSA	71		10 - 180	03/13/23 07:29	03/22/23 17:08	1
13C3 HFPO-DA	86		10 - 169	03/13/23 07:29	03/22/23 17:08	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.58	1.56	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Arsenic	**8.14**		2.75	1.28	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Barium	**282**		0.458	0.138	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Beryllium	**0.835**		0.458	0.0917	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Cadmium	**0.326**	**J**	0.458	0.0917	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Chromium	**9.64**		1.38	0.321	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Lead	**65.0**		1.38	0.550	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Nickel	**16.4**		0.917	0.238	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Selenium	ND		4.58	1.38	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Silver	ND		0.917	0.367	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Thallium	**1.63**	**J**	2.75	1.19	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Vanadium	**14.5**		0.917	0.394	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1
Zinc	**148**		1.83	0.733	mg/Kg	☼	03/10/23 04:52	03/14/23 10:22	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0572**	**J**	0.0681	0.0227	mg/Kg	☼	03/10/23 05:20	03/13/23 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.1**		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	**83.9**		0.1	0.1	%			03/09/23 09:42	1

Client Sample ID: 2023-SB-10-0406' **Lab Sample ID: 620-10149-9**
Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00621	0.00405	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Acetone	**0.327**	**E *3**	0.0621	0.0139	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Acrylonitrile	ND	*3	0.00621	0.00372	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Benzene	ND	*3	0.00621	0.00415	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Bromobenzene	ND	*3	0.00621	0.00413	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Bromochloromethane	ND	*3	0.00621	0.00352	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Bromodichloromethane	ND	*3	0.00621	0.00455	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Bromoform	ND	*3	0.00621	0.00474	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Bromomethane	ND	*3 *+	0.0124	0.00773	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
2-Butanone (MEK)	**0.0620**	***3**	0.0124	0.00494	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
n-Butylbenzene	ND	*3	0.0124	0.00665	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
sec-Butylbenzene	ND	*3	0.00621	0.00500	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
tert-Butylbenzene	ND	*3	0.00621	0.00489	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Carbon disulfide	ND	*3	0.0124	0.00436	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Carbon tetrachloride	ND	*3	0.00621	0.00391	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Chlorobenzene	ND	*3	0.00621	0.00454	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Chloroethane	ND	*3 *+	0.0124	0.00455	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Chloroform	ND	*3	0.00621	0.00417	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Chloromethane	ND	*3	0.0124	0.00477	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
2-Chlorotoluene	ND	*3	0.00621	0.00494	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
4-Chlorotoluene	ND	*3	0.00621	0.00539	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0124	0.00526	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Dibromochloromethane	ND	*3	0.00621	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2-Dibromoethane (EDB)	ND	*3	0.00621	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Dibromomethane	ND	*3	0.00621	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2-Dichlorobenzene	ND	*3	0.00621	0.00576	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,3-Dichlorobenzene	ND	*3	0.00621	0.00498	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,4-Dichlorobenzene	ND	*3	0.00621	0.00588	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Dichlorodifluoromethane (Freon 12)	ND	*3	0.0124	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,1-Dichloroethane	ND	*3	0.00621	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2-Dichloroethane	ND	*3	0.00621	0.00418	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,1-Dichloroethene	ND	*3	0.00621	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
cis-1,2-Dichloroethene	ND	*3	0.00621	0.00359	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
trans-1,2-Dichloroethene	ND	*3	0.00621	0.00386	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2-Dichloropropane	ND	*3	0.00621	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,3-Dichloropropane	ND	*3	0.00621	0.00474	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
2,2-Dichloropropane	ND	*3	0.00621	0.00428	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,1-Dichloropropene	ND	*3	0.00621	0.00422	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
cis-1,3-Dichloropropene	ND	*3	0.00621	0.00405	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
trans-1,3-Dichloropropene	ND	*3	0.00621	0.00472	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Ethylbenzene	ND	*3	0.00621	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Hexachlorobutadiene	ND	*3	0.0124	0.00624	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
2-Hexanone (MBK)	ND	*3	0.0124	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Isopropylbenzene	ND	*3	0.00621	0.00469	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
4-Isopropyltoluene	ND	*3	0.00621	0.00609	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Methyl tert-butyl ether	ND	*3	0.00621	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0124	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Methylene Chloride	ND	*3	0.0124	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Naphthalene	ND	*3	0.00621	0.00561	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1

Client Sample ID: 2023-SB-10-0406' **Lab Sample ID: 620-10149-9**
Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00621	0.00525	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Styrene	ND	*3	0.00621	0.00480	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00621	0.00465	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00621	0.00568	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Tetrachloroethene	ND	*3	0.00621	0.00345	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Toluene	ND	*3	0.00621	0.00393	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2,3-Trichlorobenzene	ND	*3	0.00621	0.00524	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2,4-Trichlorobenzene	ND	*3	0.00621	0.00572	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,3,5-Trichlorobenzene	ND	*3	0.00621	0.00590	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,1,1-Trichloroethane	ND	*3	0.00621	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,1,2-Trichloroethane	ND	*3	0.00621	0.00468	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Trichloroethene	ND	*3	0.00621	0.00417	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00621	0.00474	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2,3-Trichloropropane	ND	*3	0.00621	0.00551	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,2,4-Trimethylbenzene	ND	*3	0.00621	0.00525	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,3,5-Trimethylbenzene	ND	*3	0.00621	0.00527	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Vinyl chloride	ND	*3	0.00621	0.00379	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
m,p-Xylene	ND	*3	0.00621	0.00848	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
o-Xylene	ND	*3	0.00621	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Tetrahydrofuran	ND	*3	0.0124	0.00314	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Ethyl ether	ND	*3	0.00621	0.00326	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Tert-amyl methyl ether	ND	*3	0.00621	0.00490	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Ethyl tert-butyl ether	ND	*3	0.00621	0.00408	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
di-Isopropyl ether	ND	*3	0.00621	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
tert-Butanol	ND	*3	0.124	0.0333	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,4-Dioxane	ND	*3	0.124	0.0386	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0310	0.00458	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Ethanol	ND	*3	1.24	0.0770	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
1,3-Dichloropropene, Total	ND		0.00621	0.00472	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1
Xylenes, Total	ND		0.0186	0.00621	mg/Kg	☼	03/13/23 09:42	03/13/23 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1- *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 20:40*	*1*
Toluene-d8 (Surr)	*92*	*3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 20:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*197*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 20:40*	*1*
Dibromofluoromethane (Surr)	*190*	*S1+ *3*	*70 - 130*	*03/13/23 09:42*	*03/13/23 20:40*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00531	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Acetone	**0.0162**	**J B**	0.0531	0.0119	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Acrylonitrile	ND		0.00531	0.00319	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Benzene	ND		0.00531	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Bromobenzene	ND		0.00531	0.00354	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Bromochloromethane	ND		0.00531	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Bromodichloromethane	ND		0.00531	0.00390	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Bromoform	ND		0.00531	0.00406	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Bromomethane	ND		0.0106	0.00662	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
2-Butanone (MEK)	ND		0.0106	0.00423	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0406'
Date Collected: 03/06/23 10:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-9
Matrix: Solid
Percent Solids: 86.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0106	0.00570	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
sec-Butylbenzene	ND		0.00531	0.00428	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
tert-Butylbenzene	ND		0.00531	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Carbon disulfide	ND		0.0106	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Carbon tetrachloride	ND		0.00531	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Chlorobenzene	ND		0.00531	0.00389	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Chloroethane	ND		0.0106	0.00390	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Chloroform	ND		0.00531	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Chloromethane	ND		0.0106	0.00408	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
2-Chlorotoluene	ND		0.00531	0.00423	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
4-Chlorotoluene	ND		0.00531	0.00461	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.0106	0.00451	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Dibromochloromethane	ND		0.00531	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2-Dibromoethane (EDB)	ND		0.00531	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Dibromomethane	ND		0.00531	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2-Dichlorobenzene	ND	*3	0.00531	0.00493	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,3-Dichlorobenzene	ND		0.00531	0.00426	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,4-Dichlorobenzene	ND	*3	0.00531	0.00504	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0106	0.00285	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,1-Dichloroethane	ND		0.00531	0.00360	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2-Dichloroethane	ND		0.00531	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,1-Dichloroethene	ND		0.00531	0.00325	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
cis-1,2-Dichloroethene	ND		0.00531	0.00307	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
trans-1,2-Dichloroethene	ND		0.00531	0.00331	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2-Dichloropropane	ND		0.00531	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,3-Dichloropropane	ND		0.00531	0.00406	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
2,2-Dichloropropane	ND		0.00531	0.00367	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,1-Dichloropropene	ND		0.00531	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
cis-1,3-Dichloropropene	ND		0.00531	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
trans-1,3-Dichloropropene	ND		0.00531	0.00404	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Ethylbenzene	ND		0.00531	0.00379	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Hexachlorobutadiene	ND	*3	0.0106	0.00535	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
2-Hexanone (MBK)	ND		0.0106	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Isopropylbenzene	ND		0.00531	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
4-Isopropyltoluene	ND	*3	0.00531	0.00522	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Methyl tert-butyl ether	ND		0.00531	0.00306	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.0106	0.00343	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Methylene Chloride	ND		0.0106	0.00285	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Naphthalene	ND	*3	0.00531	0.00480	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
N-Propylbenzene	ND		0.00531	0.00450	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Styrene	ND		0.00531	0.00411	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,1,1,2-Tetrachloroethane	ND		0.00531	0.00399	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00531	0.00487	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Tetrachloroethene	ND		0.00531	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Toluene	ND		0.00531	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2,3-Trichlorobenzene	ND	*3	0.00531	0.00449	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2,4-Trichlorobenzene	ND		0.00531	0.00490	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,3,5-Trichlorobenzene	ND	*3	0.00531	0.00505	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,1,1-Trichloroethane	ND		0.00531	0.00362	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1

Client Sample ID: 2023-SB-10-0406' **Lab Sample ID: 620-10149-9**
Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00531	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Trichloroethene	ND		0.00531	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Trichlorofluoromethane (Freon 11)	ND		0.00531	0.00406	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2,3-Trichloropropane	ND		0.00531	0.00472	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,2,4-Trimethylbenzene	ND		0.00531	0.00450	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,3,5-Trimethylbenzene	ND		0.00531	0.00452	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Vinyl chloride	ND		0.00531	0.00324	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
m,p-Xylene	ND		0.00531	0.00726	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
o-Xylene	ND		0.00531	0.00388	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Tetrahydrofuran	ND		0.0106	0.00269	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Ethyl ether	ND		0.00531	0.00280	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Tert-amyl methyl ether	ND		0.00531	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Ethyl tert-butyl ether	ND		0.00531	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
di-Isopropyl ether	ND		0.00531	0.00379	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
tert-Butanol	ND		0.106	0.0285	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,4-Dioxane	ND		0.106	0.0331	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
trans-1,4-Dichloro-2-butene	ND		0.0266	0.00392	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Ethanol	ND		1.06	0.0659	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
1,3-Dichloropropene, Total	ND		0.00531	0.00404	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1
Xylenes, Total	ND		0.0159	0.00531	mg/Kg	☼	03/14/23 10:36	03/14/23 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*03/14/23 10:36*	*03/14/23 16:25*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*03/14/23 10:36*	*03/14/23 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/14/23 10:36*	*03/14/23 16:25*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/14/23 10:36*	*03/14/23 16:25*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.376	0.0670	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
1,2,4-Trichlorobenzene	ND		0.376	0.0862	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
1,2-Dichlorobenzene	ND		0.376	0.0726	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
1,3-Dichlorobenzene	ND		0.376	0.0911	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
1,4-Dichlorobenzene	ND		0.376	0.0886	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
1-Methylnaphthalene	ND		0.0761	0.0639	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2,4,5-Trichlorophenol	ND		0.376	0.0431	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2,4,6-Trichlorophenol	ND		0.191	0.0465	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2,4-Dichlorophenol	ND		0.191	0.0759	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2,4-Dimethylphenol	ND		0.376	0.0552	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2,4-Dinitrophenol	ND		0.376	0.0990	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2,4-Dinitrotoluene	ND		0.191	0.0446	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2,6-Dinitrotoluene	ND		0.191	0.0446	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2-Chloronaphthalene	ND		0.376	0.0870	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2-Chlorophenol	ND		0.191	0.0779	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2-Methylnaphthalene	ND		0.0761	0.0562	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2-Methylphenol	ND		0.376	0.0550	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2-Nitroaniline	ND		0.376	0.0358	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
2-Nitrophenol	ND		0.191	0.0676	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
3 & 4 Methylphenol	ND		0.376	0.0713	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
3,3'-Dichlorobenzidine	ND		0.376	0.0622	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1

Client Sample ID: 2023-SB-10-0406' **Lab Sample ID: 620-10149-9**
Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.376	0.0337	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
4,6-Dinitro-2-methylphenol	ND		0.376	0.0676	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
4-Bromophenyl phenyl ether	ND		0.376	0.0426	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
4-Chloro-3-methylphenol	ND		0.376	0.0737	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
4-Chloroaniline	ND		0.191	0.0289	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
4-Chlorophenyl phenyl ether	ND		0.376	0.0403	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
4-Nitroaniline	ND		0.191	0.0601	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
4-Nitrophenol	ND		0.376	0.131	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Acenaphthene	ND		0.0761	0.0607	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Acenaphthylene	ND		0.0761	0.0500	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Acetophenone	ND		0.191	0.0464	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Aniline	ND		0.376	0.0289	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Anthracene	ND		0.0761	0.0440	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Azobenzene/Diphenyldiazene	ND		0.376	0.0642	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzidine	ND		0.753	0.111	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzo[a]anthracene	ND		0.0761	0.0428	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzo[a]pyrene	ND		0.0761	0.0544	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzo[b]fluoranthene	ND		0.0761	0.0631	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzo[g,h,i]perylene	ND		0.0761	0.0594	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzo[k]fluoranthene	ND		0.0761	0.0592	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzoic acid	ND		0.376	0.259	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Benzyl alcohol	ND		0.376	0.0682	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Bis(2-chloroethoxy)methane	ND		0.376	0.0655	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Bis(2-chloroethyl)ether	ND		0.191	0.0623	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0848	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Bis(2-ethylhexyl) phthalate	ND		0.191	0.0485	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Butyl benzyl phthalate	ND		0.376	0.0378	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Carbazole	ND		0.191	0.0499	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Chrysene	**0.0475**	**J**	0.0761	0.0430	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Dibenz(a,h)anthracene	ND		0.0761	0.0581	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Dibenzofuran	ND		0.191	0.0659	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Diethyl phthalate	ND		0.376	0.0413	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Dimethyl phthalate	ND		0.376	0.0491	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Di-n-butyl phthalate	ND		0.376	0.0403	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Di-n-octyl phthalate	ND		0.376	0.0622	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Fluoranthene	**0.0848**		0.0761	0.0446	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Fluorene	ND		0.0761	0.0695	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Hexachlorobenzene	ND		0.191	0.0528	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Hexachlorobutadiene	ND		0.191	0.0950	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Hexachlorocyclopentadiene	ND		0.191	0.0728	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Hexachloroethane	ND		0.191	0.0748	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Indeno[1,2,3-cd]pyrene	ND		0.0761	0.0646	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Isophorone	ND		0.191	0.0521	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Naphthalene	ND		0.0761	0.0730	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Nitrobenzene	ND		0.191	0.0880	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
N-Nitrosodimethylamine	ND		0.191	0.0500	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0759	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
N-Nitrosodiphenylamine	ND		0.376	0.0480	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Pentachloronitrobenzene	ND		0.376	0.0594	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1

Client Sample ID: 2023-SB-10-0406' **Lab Sample ID: 620-10149-9**
Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.376	0.154	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Phenanthrene	ND		0.0761	0.0431	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Phenol	ND		0.376	0.0776	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Pyrene	**0.0899**		0.0761	0.0420	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1
Pyridine	ND		0.376	0.0891	mg/Kg	☼	03/17/23 08:54	03/20/23 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:01*	*1*
2-Fluorophenol (Surr)	*73*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:01*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:01*	*1*
Phenol-d5 (Surr)	*66*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:01*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:01*	*1*
Terphenyl-d14	*69*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:01*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.181**	**J**	0.281	0.144	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.281	0.120	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0563	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
Ethylbenzene	ND		0.0563	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
Methyl tert-butyl ether	ND		0.0563	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
m,p-Xylene	ND		0.113	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
Naphthalene	ND		0.0563	0.0383	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
o-Xylene	ND		0.0563	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
Toluene	ND		0.0563	0.0113	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
C5-C8 Aliphatics (unadjusted)	**0.181**	**J**	0.281	0.144	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
C9-C10 Aromatics	ND		0.281	0.0394	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1
C9-C12 Aliphatics (unadjusted)	ND		0.281	0.120	mg/Kg	☼	03/10/23 07:32	03/11/23 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/10/23 07:32*	*03/11/23 10:44*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/10/23 07:32*	*03/11/23 10:44*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0228	0.0164	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1221	ND		0.0228	0.00673	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1232	ND		0.0228	0.00631	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1242	ND		0.0228	0.00360	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1248	ND		0.0228	0.00712	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1254	ND		0.0228	0.0177	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1262	ND		0.0228	0.00531	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1260	ND		0.0228	0.00490	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1
PCB-1268	ND		0.0228	0.00485	mg/Kg	☼	03/10/23 15:38	03/14/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:26*	*1*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:26*	*1*

Client Sample ID: 2023-SB-10-0406' **Lab Sample ID: 620-10149-9**
Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	111		30 - 150	03/10/23 15:38	03/14/23 18:26	1
DCB Decachlorobiphenyl (Surr)	119		30 - 150	03/10/23 15:38	03/14/23 18:26	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluoroheptanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorooctanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorononanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorodecanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorotridecanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorotetradecanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorobutanesulfonic acid	ND		2.22	0.445	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorohexanesulfonic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorooctanesulfonic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
NEtFOSAA	ND		2.22	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
NMeFOSAA	ND		2.22	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
10:2 FTS	ND		2.22	0.667	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluoropentanesulfonic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluoroheptanesulfonic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorononanesulfonic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorodecanesulfonic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.22	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorooctanesulfonamide	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorohexadecanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorooctadecanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorobutanoic acid	ND		2.22	0.889	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluoropentanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
NMeFOSE	ND		2.22	0.556	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
NMeFOSA	ND		2.22	0.556	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
NEtFOSE	ND		2.22	0.556	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
NEtFOSA	ND		2.22	0.556	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
HFPODA	ND		2.22	1.11	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
DONA	ND		3.34	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
9Cl-PF3ONS	ND		2.22	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
11Cl-PF3OUdS	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluorododecanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
4:2 Fluorotelomer sulfonic acid	ND		2.22	0.667	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
Perfluoroundecanoic acid	ND		0.667	0.222	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
6:2 Fluorotelomer sulfonic acid	ND		2.22	0.667	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1
8:2 Fluorotelomer sulfonic acid	ND		3.34	0.667	ug/Kg	☼	03/13/23 07:29	03/22/23 17:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	95		10 - 200	03/13/23 07:29	03/22/23 17:30	1
M2-8:2 FTS	86		15 - 200	03/13/23 07:29	03/22/23 17:30	1
M2-6:2 FTS	86		10 - 200	03/13/23 07:29	03/22/23 17:30	1
13C5 PFHxA	95		10 - 174	03/13/23 07:29	03/22/23 17:30	1
13C4 PFHpA	94		10 - 178	03/13/23 07:29	03/22/23 17:30	1
13C8 PFOA	91		26 - 159	03/13/23 07:29	03/22/23 17:30	1

Client Sample ID: 2023-SB-10-0406' Lab Sample ID: 620-10149-9

Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	95		26 - 165	03/13/23 07:29	03/22/23 17:30	1
13C6 PFDA	90		26 - 161	03/13/23 07:29	03/22/23 17:30	1
13C7 PFUnA	87		12 - 173	03/13/23 07:29	03/22/23 17:30	1
13C2-PFDoDA	90		11 - 166	03/13/23 07:29	03/22/23 17:30	1
13C2 PFTeDA	100		10 - 169	03/13/23 07:29	03/22/23 17:30	1
13C3 PFBS	85		27 - 179	03/13/23 07:29	03/22/23 17:30	1
13C3 PFHxS	87		24 - 171	03/13/23 07:29	03/22/23 17:30	1
13C8 PFOS	90		41 - 154	03/13/23 07:29	03/22/23 17:30	1
d3-NMeFOSAA	77		10 - 178	03/13/23 07:29	03/22/23 17:30	1
d5-NEtFOSAA	78		10 - 193	03/13/23 07:29	03/22/23 17:30	1
13C8 FOSA	76		14 - 163	03/13/23 07:29	03/22/23 17:30	1
13C4 PFBA	92		28 - 153	03/13/23 07:29	03/22/23 17:30	1
13C5 PFPeA	93		24 - 161	03/13/23 07:29	03/22/23 17:30	1
d7-N-MeFOSE-M	82		10 - 179	03/13/23 07:29	03/22/23 17:30	1
d3-NMePFOSA	72		10 - 175	03/13/23 07:29	03/22/23 17:30	1
d9-N-EtFOSE-M	79		10 - 185	03/13/23 07:29	03/22/23 17:30	1
d5-NEtPFOSA	71		10 - 180	03/13/23 07:29	03/22/23 17:30	1
13C3 HFPO-DA	86		10 - 169	03/13/23 07:29	03/22/23 17:30	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.31	1.47	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Arsenic	**7.56**		2.59	1.21	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Barium	**240**		0.431	0.129	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Beryllium	**0.567**		0.431	0.0863	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Cadmium	**0.376**	**J**	0.431	0.0863	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Chromium	**13.1**		1.29	0.302	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Lead	**99.4**		1.29	0.518	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Nickel	**7.76**		0.863	0.224	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Selenium	ND		4.31	1.29	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Silver	ND		0.863	0.345	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Thallium	**1.75**	**J**	2.59	1.12	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Vanadium	**13.4**		0.863	0.371	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1
Zinc	**181**		1.73	0.690	mg/Kg	☼	03/10/23 04:52	03/14/23 10:51	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0300**	**J**	0.0694	0.0231	mg/Kg	☼	03/10/23 05:20	03/13/23 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.5**		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	**86.5**		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0608'
Date Collected: 03/06/23 10:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-10
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00513	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Acetone	**0.0180**	**J**	0.0513	0.0115	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Acrylonitrile	ND		0.00513	0.00308	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Benzene	ND		0.00513	0.00343	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Bromobenzene	ND		0.00513	0.00342	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Bromochloromethane	ND		0.00513	0.00291	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Bromodichloromethane	ND		0.00513	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Bromoform	ND		0.00513	0.00392	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Bromomethane	ND	*+	0.0103	0.00639	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
2-Butanone (MEK)	ND		0.0103	0.00408	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
n-Butylbenzene	ND		0.0103	0.00550	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
sec-Butylbenzene	ND		0.00513	0.00413	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
tert-Butylbenzene	ND		0.00513	0.00404	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Carbon disulfide	ND		0.0103	0.00360	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Carbon tetrachloride	ND		0.00513	0.00323	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Chlorobenzene	ND		0.00513	0.00376	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Chloroethane	ND	*+	0.0103	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Chloroform	ND		0.00513	0.00345	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Chloromethane	ND		0.0103	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
2-Chlorotoluene	ND		0.00513	0.00408	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
4-Chlorotoluene	ND		0.00513	0.00445	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2-Dibromo-3-Chloropropane	ND		0.0103	0.00435	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Dibromochloromethane	ND		0.00513	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2-Dibromoethane (EDB)	ND		0.00513	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Dibromomethane	ND		0.00513	0.00302	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2-Dichlorobenzene	ND		0.00513	0.00476	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,3-Dichlorobenzene	ND		0.00513	0.00411	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,4-Dichlorobenzene	ND		0.00513	0.00486	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Dichlorodifluoromethane (Freon 12)	ND		0.0103	0.00275	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,1-Dichloroethane	ND		0.00513	0.00348	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2-Dichloroethane	ND		0.00513	0.00346	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,1-Dichloroethene	ND		0.00513	0.00314	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
cis-1,2-Dichloroethene	ND		0.00513	0.00297	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
trans-1,2-Dichloroethene	ND		0.00513	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2-Dichloropropane	ND		0.00513	0.00340	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,3-Dichloropropane	ND		0.00513	0.00392	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
2,2-Dichloropropane	ND		0.00513	0.00354	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,1-Dichloropropene	ND		0.00513	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
cis-1,3-Dichloropropene	ND		0.00513	0.00334	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
trans-1,3-Dichloropropene	ND		0.00513	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Ethylbenzene	ND		0.00513	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Hexachlorobutadiene	ND		0.0103	0.00516	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
2-Hexanone (MBK)	ND		0.0103	0.00302	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Isopropylbenzene	ND		0.00513	0.00388	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
4-Isopropyltoluene	ND		0.00513	0.00504	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Methyl tert-butyl ether	ND		0.00513	0.00295	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0103	0.00331	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Methylene Chloride	ND		0.0103	0.00275	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Naphthalene	ND		0.00513	0.00464	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1

Client Sample ID: 2023-SB-10-0608' **Lab Sample ID: 620-10149-10**
Date Collected: 03/06/23 10:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00513	0.00434	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Styrene	ND		0.00513	0.00397	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,1,1,2-Tetrachloroethane	ND		0.00513	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,1,2,2-Tetrachloroethane	ND		0.00513	0.00470	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Tetrachloroethene	ND		0.00513	0.00285	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Toluene	ND		0.00513	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2,3-Trichlorobenzene	ND		0.00513	0.00433	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2,4-Trichlorobenzene	ND		0.00513	0.00473	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,3,5-Trichlorobenzene	ND		0.00513	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,1,1-Trichloroethane	ND		0.00513	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,1,2-Trichloroethane	ND		0.00513	0.00387	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Trichloroethene	ND		0.00513	0.00345	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00513	0.00392	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2,3-Trichloropropane	ND		0.00513	0.00456	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,2,4-Trimethylbenzene	ND		0.00513	0.00434	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,3,5-Trimethylbenzene	ND		0.00513	0.00436	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Vinyl chloride	ND		0.00513	0.00313	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
m,p-Xylene	ND		0.00513	0.00701	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
o-Xylene	ND		0.00513	0.00374	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Tetrahydrofuran	ND		0.0103	0.00260	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Ethyl ether	ND		0.00513	0.00270	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Tert-amyl methyl ether	ND		0.00513	0.00405	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Ethyl tert-butyl ether	ND		0.00513	0.00338	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
di-Isopropyl ether	ND		0.00513	0.00366	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
tert-Butanol	ND		0.103	0.0275	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,4-Dioxane	ND		0.103	0.0319	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
trans-1,4-Dichloro-2-butene	ND		0.0256	0.00379	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Ethanol	ND		1.03	0.0636	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
1,3-Dichloropropene, Total	ND		0.00513	0.00390	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1
Xylenes, Total	ND		0.0154	0.00513	mg/Kg	☼	03/13/23 09:42	03/13/23 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:06*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:06*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:06*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.398	0.0708	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
1,2,4-Trichlorobenzene	ND		0.398	0.0912	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
1,2-Dichlorobenzene	ND		0.398	0.0767	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
1,3-Dichlorobenzene	ND		0.398	0.0964	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
1,4-Dichlorobenzene	ND		0.398	0.0938	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
1-Methylnaphthalene	ND		0.0805	0.0676	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2,4,5-Trichlorophenol	ND		0.398	0.0456	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2,4,6-Trichlorophenol	ND		0.202	0.0492	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2,4-Dichlorophenol	ND		0.202	0.0802	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2,4-Dimethylphenol	ND		0.398	0.0584	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2,4-Dinitrophenol	ND		0.398	0.105	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0608'
Date Collected: 03/06/23 10:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-10
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.202	0.0472	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2,6-Dinitrotoluene	ND		0.202	0.0472	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2-Chloronaphthalene	ND		0.398	0.0921	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2-Chlorophenol	ND		0.202	0.0824	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2-Methylnaphthalene	ND		0.0805	0.0595	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2-Methylphenol	ND		0.398	0.0582	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2-Nitroaniline	ND		0.398	0.0379	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
2-Nitrophenol	ND		0.202	0.0716	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
3 & 4 Methylphenol	ND		0.398	0.0754	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
3,3'-Dichlorobenzidine	ND		0.398	0.0658	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
3-Nitroaniline	ND		0.398	0.0356	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
4,6-Dinitro-2-methylphenol	ND		0.398	0.0716	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
4-Bromophenyl phenyl ether	ND		0.398	0.0450	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
4-Chloro-3-methylphenol	ND		0.398	0.0780	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
4-Chloroaniline	ND		0.202	0.0305	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
4-Chlorophenyl phenyl ether	ND		0.398	0.0426	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
4-Nitroaniline	ND		0.202	0.0636	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
4-Nitrophenol	ND		0.398	0.139	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Acenaphthene	ND		0.0805	0.0642	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Acenaphthylene	ND		0.0805	0.0529	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Acetophenone	ND		0.202	0.0491	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Aniline	ND		0.398	0.0305	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Anthracene	ND		0.0805	0.0466	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Azobenzene/Diphenyldiazene	ND		0.398	0.0679	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzidine	ND		0.796	0.118	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzo[a]anthracene	ND		0.0805	0.0453	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzo[a]pyrene	ND		0.0805	0.0576	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzo[b]fluoranthene	ND		0.0805	0.0667	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzo[g,h,i]perylene	ND		0.0805	0.0629	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzo[k]fluoranthene	ND		0.0805	0.0626	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzoic acid	ND		0.398	0.274	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Benzyl alcohol	ND		0.398	0.0722	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Bis(2-chloroethoxy)methane	ND		0.398	0.0693	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Bis(2-chloroethyl)ether	ND		0.202	0.0659	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
bis (2-chloroisopropyl) ether	ND		0.202	0.0897	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Bis(2-ethylhexyl) phthalate	ND		0.202	0.0513	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Butyl benzyl phthalate	ND		0.398	0.0399	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Carbazole	ND		0.202	0.0527	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Chrysene	ND		0.0805	0.0455	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Dibenz(a,h)anthracene	ND		0.0805	0.0614	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Dibenzofuran	ND		0.202	0.0697	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Diethyl phthalate	ND		0.398	0.0437	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Dimethyl phthalate	ND		0.398	0.0519	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Di-n-butyl phthalate	ND		0.398	0.0426	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Di-n-octyl phthalate	ND		0.398	0.0658	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Fluoranthene	ND		0.0805	0.0472	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Fluorene	ND		0.0805	0.0735	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Hexachlorobenzene	ND		0.202	0.0559	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Hexachlorobutadiene	ND		0.202	0.101	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1

Client Sample ID: 2023-SB-10-0608' **Lab Sample ID: 620-10149-10**
Date Collected: 03/06/23 10:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.202	0.0770	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Hexachloroethane	ND		0.202	0.0792	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0805	0.0683	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Isophorone	ND		0.202	0.0551	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Naphthalene	ND		0.0805	0.0772	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Nitrobenzene	ND		0.202	0.0930	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
N-Nitrosodimethylamine	ND		0.202	0.0529	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
N-Nitrosodi-n-propylamine	ND		0.202	0.0802	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
N-Nitrosodiphenylamine	ND		0.398	0.0508	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Pentachloronitrobenzene	ND		0.398	0.0629	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Pentachlorophenol	ND		0.398	0.163	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Phenanthrene	ND		0.0805	0.0456	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Phenol	ND		0.398	0.0821	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Pyrene	ND		0.0805	0.0444	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1
Pyridine	ND		0.398	0.0942	mg/Kg	☼	03/17/23 08:54	03/20/23 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:29*	*1*
2-Fluorophenol (Surr)	*83*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:29*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:29*	*1*
Phenol-d5 (Surr)	*78*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:29*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/17/23 08:54*	*03/20/23 17:29*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/17/23 08:54*	*03/20/23 17:29*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.306	0.157	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.306	0.131	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0613	0.0123	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
Ethylbenzene	ND		0.0613	0.0123	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
Methyl tert-butyl ether	ND		0.0613	0.0123	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
m,p-Xylene	ND		0.123	0.0123	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
Naphthalene	ND		0.0613	0.0417	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
o-Xylene	ND		0.0613	0.0123	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
Toluene	ND		0.0613	0.0123	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
C5-C8 Aliphatics (unadjusted)	ND		0.306	0.157	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
C9-C10 Aromatics	ND		0.306	0.0429	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1
C9-C12 Aliphatics (unadjusted)	ND		0.306	0.131	mg/Kg	☼	03/10/23 07:32	03/11/23 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/10/23 07:32*	*03/11/23 11:23*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/10/23 07:32*	*03/11/23 11:23*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0235	0.0169	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1
PCB-1221	ND		0.0235	0.00694	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1
PCB-1232	ND		0.0235	0.00651	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1

Client Sample ID: 2023-SB-10-0608'
Lab Sample ID: 620-10149-10
Date Collected: 03/06/23 10:05
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 80.8

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0235	0.00371	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1
PCB-1248	ND		0.0235	0.00734	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1
PCB-1254	ND		0.0235	0.0183	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1
PCB-1262	ND		0.0235	0.00547	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1
PCB-1260	ND		0.0235	0.00505	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1
PCB-1268	ND		0.0235	0.00500	mg/Kg	☼	03/10/23 15:38	03/14/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:45*	*1*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:45*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:45*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*03/10/23 15:38*	*03/14/23 18:45*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluoroheptanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorooctanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorononanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorodecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorotridecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorotetradecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorobutanesulfonic acid	ND		2.36	0.471	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorohexanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorooctanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
NEtFOSAA	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
NMeFOSAA	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
10:2 FTS	ND		2.36	0.707	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluoropentanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluoroheptanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorononanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorodecanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorooctanesulfonamide	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorohexadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorooctadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorobutanoic acid	ND		2.36	0.943	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluoropentanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
NMeFOSE	ND		2.36	0.589	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
NMeFOSA	ND		2.36	0.589	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
NEtFOSE	ND		2.36	0.589	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
NEtFOSA	ND		2.36	0.589	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
HFPODA	ND		2.36	1.18	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
DONA	ND		3.54	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
9Cl-PF3ONS	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
11Cl-PF3OUdS	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluorododecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
4:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
Perfluoroundecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1

Client Sample ID: 2023-SB-10-0608' **Lab Sample ID: 620-10149-10**
Date Collected: 03/06/23 10:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1
8:2 Fluorotelomer sulfonic acid	ND		3.54	0.707	ug/Kg	☼	03/13/23 07:29	03/22/23 17:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*84*		*10 - 200*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
M2-8:2 FTS	*85*		*15 - 200*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
M2-6:2 FTS	*80*		*10 - 200*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C5 PFHxA	*87*		*10 - 174*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C4 PFHpA	*87*		*10 - 178*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C8 PFOA	*80*		*26 - 159*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C9 PFNA	*82*		*26 - 165*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C6 PFDA	*82*		*26 - 161*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C7 PFUnA	*83*		*12 - 173*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C2-PFDoDA	*84*		*11 - 166*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C2 PFTeDA	*97*		*10 - 169*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C3 PFBS	*76*		*27 - 179*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C3 PFHxS	*83*		*24 - 171*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C8 PFOS	*83*		*41 - 154*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
d3-NMeFOSAA	*59*		*10 - 178*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
d5-NEtFOSAA	*64*		*10 - 193*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C8 FOSA	*70*		*14 - 163*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C4 PFBA	*85*		*28 - 153*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C5 PFPeA	*84*		*24 - 161*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
d7-N-MeFOSE-M	*79*		*10 - 179*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
d3-NMePFOSA	*59*		*10 - 175*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
d9-N-EtFOSE-M	*82*		*10 - 185*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
d5-NEtPFOSA	*62*		*10 - 180*	*03/13/23 07:29*	*03/22/23 17:41*	*1*
13C3 HFPO-DA	*80*		*10 - 169*	*03/13/23 07:29*	*03/22/23 17:41*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.89	2.00	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Arsenic	**3.40**	**J**	3.54	1.65	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Barium	**46.4**		0.589	0.177	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Beryllium	**0.552**	**J**	0.589	0.118	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Cadmium	ND		0.589	0.118	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Chromium	**6.22**		1.77	0.413	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Lead	**104**		1.77	0.707	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Nickel	**2.91**		1.18	0.306	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Selenium	ND		5.89	1.77	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Silver	ND		1.18	0.471	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Thallium	ND		3.54	1.53	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Vanadium	**8.58**		1.18	0.507	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1
Zinc	**23.0**		2.36	0.943	mg/Kg	☼	03/14/23 09:00	03/15/23 23:08	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0707	0.0236	mg/Kg	☼	03/14/23 07:49	03/14/23 13:09	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0608'
Date Collected: 03/06/23 10:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-10
Matrix: Solid
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.2		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	80.8		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0810'
Date Collected: 03/06/23 10:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-11
Matrix: Solid
Percent Solids: 81.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00525	0.00342	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Acetone	ND		0.0525	0.0118	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Acrylonitrile	ND		0.00525	0.00315	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Benzene	ND		0.00525	0.00351	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Bromobenzene	ND		0.00525	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Bromochloromethane	ND		0.00525	0.00298	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Bromodichloromethane	ND		0.00525	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Bromoform	ND		0.00525	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Bromomethane	ND	*+	0.0105	0.00654	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
2-Butanone (MEK)	ND		0.0105	0.00418	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
n-Butylbenzene	ND		0.0105	0.00562	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
sec-Butylbenzene	ND		0.00525	0.00423	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
tert-Butylbenzene	ND		0.00525	0.00413	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Carbon disulfide	ND		0.0105	0.00368	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Carbon tetrachloride	ND		0.00525	0.00331	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Chlorobenzene	ND		0.00525	0.00384	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Chloroethane	ND	*+	0.0105	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Chloroform	ND		0.00525	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Chloromethane	ND		0.0105	0.00403	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
2-Chlorotoluene	ND		0.00525	0.00418	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
4-Chlorotoluene	ND		0.00525	0.00455	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00445	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Dibromochloromethane	ND		0.00525	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2-Dibromoethane (EDB)	ND		0.00525	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Dibromomethane	ND		0.00525	0.00309	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2-Dichlorobenzene	ND		0.00525	0.00487	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,3-Dichlorobenzene	ND		0.00525	0.00421	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,4-Dichlorobenzene	ND		0.00525	0.00497	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Dichlorodifluoromethane (Freon 12)	ND		0.0105	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,1-Dichloroethane	ND		0.00525	0.00356	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2-Dichloroethane	ND		0.00525	0.00354	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,1-Dichloroethene	ND		0.00525	0.00321	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
cis-1,2-Dichloroethene	ND		0.00525	0.00303	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
trans-1,2-Dichloroethene	ND		0.00525	0.00326	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2-Dichloropropane	ND		0.00525	0.00347	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,3-Dichloropropane	ND		0.00525	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
2,2-Dichloropropane	ND		0.00525	0.00362	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,1-Dichloropropene	ND		0.00525	0.00357	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
cis-1,3-Dichloropropene	ND		0.00525	0.00342	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
trans-1,3-Dichloropropene	ND		0.00525	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Ethylbenzene	ND		0.00525	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Hexachlorobutadiene	ND		0.0105	0.00528	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
2-Hexanone (MBK)	ND		0.0105	0.00309	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Isopropylbenzene	ND		0.00525	0.00397	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
4-Isopropyltoluene	ND		0.00525	0.00515	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Methyl tert-butyl ether	ND		0.00525	0.00302	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00339	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Methylene Chloride	ND		0.0105	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Naphthalene	ND		0.00525	0.00474	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1

Client Sample ID: 2023-SB-10-0810' **Lab Sample ID: 620-10149-11**
Date Collected: 03/06/23 10:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Styrene	ND		0.00525	0.00406	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,1,1,2-Tetrachloroethane	ND		0.00525	0.00394	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,1,2,2-Tetrachloroethane	ND		0.00525	0.00481	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Tetrachloroethene	ND		0.00525	0.00292	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Toluene	ND		0.00525	0.00333	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2,3-Trichlorobenzene	ND		0.00525	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2,4-Trichlorobenzene	ND		0.00525	0.00484	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,3,5-Trichlorobenzene	ND		0.00525	0.00498	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,1,1-Trichloroethane	ND		0.00525	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,1,2-Trichloroethane	ND		0.00525	0.00396	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Trichloroethene	ND		0.00525	0.00353	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Trichlorofluoromethane (Freon 11)	ND		0.00525	0.00401	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2,3-Trichloropropane	ND		0.00525	0.00466	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,2,4-Trimethylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,3,5-Trimethylbenzene	ND		0.00525	0.00446	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Vinyl chloride	ND		0.00525	0.00320	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
m,p-Xylene	ND		0.00525	0.00717	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
o-Xylene	ND		0.00525	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Tetrahydrofuran	ND		0.0105	0.00266	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Ethyl ether	ND		0.00525	0.00276	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Tert-amyl methyl ether	ND		0.00525	0.00415	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Ethyl tert-butyl ether	ND		0.00525	0.00345	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
di-Isopropyl ether	ND		0.00525	0.00375	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
tert-Butanol	ND		0.105	0.0281	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,4-Dioxane	ND		0.105	0.0326	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
trans-1,4-Dichloro-2-butene	ND		0.0262	0.00387	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Ethanol	ND		1.05	0.0651	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
1,3-Dichloropropene, Total	ND		0.00525	0.00399	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1
Xylenes, Total	ND		0.0157	0.00525	mg/Kg	☼	03/13/23 09:42	03/13/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:32*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:32*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:32*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.387	0.0688	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
1,2,4-Trichlorobenzene	ND		0.387	0.0886	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
1,2-Dichlorobenzene	ND		0.387	0.0745	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
1,3-Dichlorobenzene	ND		0.387	0.0936	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
1,4-Dichlorobenzene	ND		0.387	0.0911	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
1-Methylnaphthalene	ND		0.0782	0.0656	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2,4,5-Trichlorophenol	ND		0.387	0.0443	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2,4,6-Trichlorophenol	ND		0.196	0.0478	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2,4-Dichlorophenol	ND		0.196	0.0779	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2,4-Dimethylphenol	ND		0.387	0.0567	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2,4-Dinitrophenol	ND		0.387	0.102	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0810'
Date Collected: 03/06/23 10:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-11
Matrix: Solid
Percent Solids: 81.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.196	0.0458	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2,6-Dinitrotoluene	ND		0.196	0.0458	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2-Chloronaphthalene	ND		0.387	0.0894	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2-Chlorophenol	ND		0.196	0.0800	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2-Methylnaphthalene	ND		0.0782	0.0578	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2-Methylphenol	ND		0.387	0.0565	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2-Nitroaniline	ND		0.387	0.0368	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
2-Nitrophenol	ND		0.196	0.0695	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
3 & 4 Methylphenol	ND		0.387	0.0732	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
3,3'-Dichlorobenzidine	ND		0.387	0.0639	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
3-Nitroaniline	ND		0.387	0.0346	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
4,6-Dinitro-2-methylphenol	ND		0.387	0.0695	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
4-Bromophenyl phenyl ether	ND		0.387	0.0437	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
4-Chloro-3-methylphenol	ND		0.387	0.0757	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
4-Chloroaniline	ND		0.196	0.0297	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
4-Chlorophenyl phenyl ether	ND		0.387	0.0414	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
4-Nitroaniline	ND		0.196	0.0618	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
4-Nitrophenol	ND		0.387	0.135	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Acenaphthene	ND		0.0782	0.0624	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Acenaphthylene	ND		0.0782	0.0513	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Acetophenone	ND		0.196	0.0477	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Aniline	ND		0.387	0.0297	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Anthracene	ND		0.0782	0.0452	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Azobenzene/Diphenyldiazene	ND		0.387	0.0660	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzidine	ND		0.774	0.115	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzo[a]anthracene	ND		0.0782	0.0439	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzo[a]pyrene	ND		0.0782	0.0559	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzo[b]fluoranthene	ND		0.0782	0.0648	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzo[g,h,i]perylene	ND		0.0782	0.0611	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzo[k]fluoranthene	ND		0.0782	0.0608	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzoic acid	ND		0.387	0.266	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Benzyl alcohol	ND		0.387	0.0701	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Bis(2-chloroethoxy)methane	ND		0.387	0.0673	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Bis(2-chloroethyl)ether	ND		0.196	0.0640	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
bis (2-chloroisopropyl) ether	ND		0.196	0.0871	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Bis(2-ethylhexyl) phthalate	ND		0.196	0.0498	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Butyl benzyl phthalate	ND		0.387	0.0388	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Carbazole	ND		0.196	0.0512	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Chrysene	ND		0.0782	0.0442	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Dibenz(a,h)anthracene	ND		0.0782	0.0597	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Dibenzofuran	ND		0.196	0.0677	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Diethyl phthalate	ND		0.387	0.0424	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Dimethyl phthalate	ND		0.387	0.0504	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Di-n-butyl phthalate	ND		0.387	0.0414	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Di-n-octyl phthalate	ND		0.387	0.0639	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Fluoranthene	ND		0.0782	0.0458	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Fluorene	ND		0.0782	0.0714	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Hexachlorobenzene	ND		0.196	0.0543	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Hexachlorobutadiene	ND		0.196	0.0976	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1

Client Sample ID: 2023-SB-10-0810' **Lab Sample ID: 620-10149-11**
Date Collected: 03/06/23 10:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.196	0.0748	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Hexachloroethane	ND		0.196	0.0769	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0782	0.0663	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Isophorone	ND		0.196	0.0536	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Naphthalene	ND		0.0782	0.0750	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Nitrobenzene	ND		0.196	0.0904	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
N-Nitrosodimethylamine	ND		0.196	0.0513	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
N-Nitrosodi-n-propylamine	ND		0.196	0.0779	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
N-Nitrosodiphenylamine	ND		0.387	0.0493	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Pentachloronitrobenzene	ND		0.387	0.0611	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Pentachlorophenol	ND		0.387	0.158	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Phenanthrene	ND		0.0782	0.0443	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Phenol	ND		0.387	0.0797	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Pyrene	ND		0.0782	0.0431	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1
Pyridine	ND		0.387	0.0915	mg/Kg	☼	03/17/23 08:54	03/20/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*	*03/17/23 08:54*	*03/20/23 15:06*	*1*
2-Fluorophenol (Surr)	*92*		*15 - 110*	*03/17/23 08:54*	*03/20/23 15:06*	*1*
Nitrobenzene-d5 (Surr)	*77*		*30 - 130*	*03/17/23 08:54*	*03/20/23 15:06*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/17/23 08:54*	*03/20/23 15:06*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/17/23 08:54*	*03/20/23 15:06*	*1*
Terphenyl-d14	*100*		*30 - 130*	*03/17/23 08:54*	*03/20/23 15:06*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.264	0.135	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.264	0.113	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0528	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
Ethylbenzene	ND		0.0528	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
Methyl tert-butyl ether	ND		0.0528	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
Naphthalene	ND		0.0528	0.0359	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
o-Xylene	ND		0.0528	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
Toluene	ND		0.0528	0.0106	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
C5-C8 Aliphatics (unadjusted)	ND		0.264	0.135	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
C9-C10 Aromatics	ND		0.264	0.0370	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1
C9-C12 Aliphatics (unadjusted)	ND		0.264	0.113	mg/Kg	☼	03/10/23 07:32	03/11/23 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/10/23 07:32*	*03/11/23 12:03*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/10/23 07:32*	*03/11/23 12:03*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0160	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1
PCB-1221	ND		0.0223	0.00658	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1
PCB-1232	ND		0.0223	0.00617	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1

Client Sample ID: 2023-SB-10-0810' **Lab Sample ID: 620-10149-11**
Date Collected: 03/06/23 10:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1
PCB-1248	ND		0.0223	0.00696	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1
PCB-1254	ND		0.0223	0.0173	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1
PCB-1262	ND		0.0223	0.00519	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1
PCB-1260	ND		0.0223	0.00479	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1
PCB-1268	ND		0.0223	0.00474	mg/Kg	☼	03/10/23 15:38	03/14/23 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:03*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:03*	*1*
DCB Decachlorobiphenyl (Surr)	*119*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:03*	*1*
DCB Decachlorobiphenyl (Surr)	*118*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:03*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluoroheptanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorooctanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorononanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorodecanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorotridecanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorotetradecanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorobutanesulfonic acid	ND		2.42	0.483	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorohexanesulfonic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorooctanesulfonic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
NEtFOSAA	ND		2.42	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
NMeFOSAA	ND		2.42	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
10:2 FTS	ND		2.42	0.725	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluoropentanesulfonic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluoroheptanesulfonic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorononanesulfonic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorodecanesulfonic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.42	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorooctanesulfonamide	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorohexadecanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorooctadecanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorobutanoic acid	ND		2.42	0.967	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluoropentanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
NMeFOSE	ND		2.42	0.604	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
NMeFOSA	ND		2.42	0.604	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
NEtFOSE	ND		2.42	0.604	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
NEtFOSA	ND		2.42	0.604	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
HFPODA	ND		2.42	1.21	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
DONA	ND		3.63	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
9Cl-PF3ONS	ND		2.42	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
11Cl-PF3OUdS	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluorododecanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
4:2 Fluorotelomer sulfonic acid	ND		2.42	0.725	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
Perfluoroundecanoic acid	ND		0.725	0.242	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1

Client Sample ID: 2023-SB-10-0810' **Lab Sample ID: 620-10149-11**
Date Collected: 03/06/23 10:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.42	0.725	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1
8:2 Fluorotelomer sulfonic acid	ND		3.63	0.725	ug/Kg	☼	03/13/23 07:29	03/22/23 17:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*93*		*10 - 200*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
M2-8:2 FTS	*82*		*15 - 200*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
M2-6:2 FTS	*90*		*10 - 200*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C5 PFHxA	*96*		*10 - 174*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C4 PFHpA	*96*		*10 - 178*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C8 PFOA	*95*		*26 - 159*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C9 PFNA	*96*		*26 - 165*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C6 PFDA	*88*		*26 - 161*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C7 PFUnA	*91*		*12 - 173*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C2-PFDoDA	*91*		*11 - 166*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C2 PFTeDA	*90*		*10 - 169*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C3 PFBS	*82*		*27 - 179*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C3 PFHxS	*88*		*24 - 171*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C8 PFOS	*92*		*41 - 154*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
d3-NMeFOSAA	*81*		*10 - 178*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
d5-NEtFOSAA	*79*		*10 - 193*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C8 FOSA	*86*		*14 - 163*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C4 PFBA	*96*		*28 - 153*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C5 PFPeA	*98*		*24 - 161*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
d7-N-MeFOSE-M	*85*		*10 - 179*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
d3-NMePFOSA	*86*		*10 - 175*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
d5-NEtPFOSA	*82*		*10 - 180*	*03/13/23 07:29*	*03/22/23 17:52*	*1*
13C3 HFPO-DA	*83*		*10 - 169*	*03/13/23 07:29*	*03/22/23 17:52*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.88	1.66	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Arsenic	ND		2.93	1.37	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Barium	**24.1**		0.488	0.146	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Beryllium	**0.335**	**J**	0.488	0.0976	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Cadmium	ND		0.488	0.0976	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Chromium	**5.69**		1.46	0.342	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Lead	**3.98**		1.46	0.586	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Nickel	**2.29**		0.976	0.254	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Selenium	ND		4.88	1.46	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Silver	ND		0.976	0.391	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Thallium	ND		2.93	1.27	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Vanadium	**6.96**		0.976	0.420	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1
Zinc	**19.5**		1.95	0.781	mg/Kg	☼	03/14/23 09:00	03/15/23 23:50	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0697	0.0232	mg/Kg	☼	03/14/23 07:49	03/14/23 13:26	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-0810'
Date Collected: 03/06/23 10:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-11
Matrix: Solid
Percent Solids: 81.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.1		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	81.9		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-1012'
Date Collected: 03/06/23 10:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-12
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1 F2	0.00460	0.00300	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Acetone	**0.0118**	**J F1 B F2**	0.0460	0.0103	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Acrylonitrile	ND	F1	0.00460	0.00276	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Benzene	ND	F2	0.00460	0.00307	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Bromobenzene	ND	F2	0.00460	0.00307	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Bromochloromethane	ND		0.00460	0.00261	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Bromodichloromethane	ND	F1 F2	0.00460	0.00338	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Bromoform	ND		0.00460	0.00352	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Bromomethane	ND	F1 F2	0.00920	0.00573	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
2-Butanone (MEK)	ND		0.00920	0.00366	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
n-Butylbenzene	ND	F1 F2	0.00920	0.00493	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
sec-Butylbenzene	ND	F1 F2	0.00460	0.00371	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
tert-Butylbenzene	ND	F2	0.00460	0.00363	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Carbon disulfide	ND	F1 F2	0.00920	0.00323	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Carbon tetrachloride	ND	F2	0.00460	0.00290	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Chlorobenzene	ND	F1 F2	0.00460	0.00337	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Chloroethane	ND	F1 F2	0.00920	0.00338	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Chloroform	ND	F2	0.00460	0.00309	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Chloromethane	ND	F1 F2	0.00920	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
2-Chlorotoluene	ND	F2	0.00460	0.00366	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
4-Chlorotoluene	ND	F2	0.00460	0.00399	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2-Dibromo-3-Chloropropane	ND	F2	0.00920	0.00390	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Dibromochloromethane	ND		0.00460	0.00305	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2-Dibromoethane (EDB)	ND		0.00460	0.00330	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Dibromomethane	ND		0.00460	0.00271	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2-Dichlorobenzene	ND	F2	0.00460	0.00427	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,3-Dichlorobenzene	ND	F2	0.00460	0.00369	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,4-Dichlorobenzene	ND	F1 F2	0.00460	0.00436	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Dichlorodifluoromethane (Freon 12)	ND	*- F1 F2	0.00920	0.00247	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,1-Dichloroethane	ND	F1 F2	0.00460	0.00312	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2-Dichloroethane	ND	F2	0.00460	0.00310	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,1-Dichloroethene	ND	F1 F2	0.00460	0.00282	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
cis-1,2-Dichloroethene	ND	F2	0.00460	0.00266	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
trans-1,2-Dichloroethene	ND	F1 F2	0.00460	0.00286	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2-Dichloropropane	ND	F1 F2	0.00460	0.00305	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,3-Dichloropropane	ND	F2	0.00460	0.00352	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
2,2-Dichloropropane	ND	F2	0.00460	0.00318	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,1-Dichloropropene	ND	F1 F2	0.00460	0.00313	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
cis-1,3-Dichloropropene	ND	F1 F2	0.00460	0.00300	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
trans-1,3-Dichloropropene	ND	F2	0.00460	0.00350	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Ethylbenzene	ND	F1 F2	0.00460	0.00329	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Hexachlorobutadiene	ND	F1 F2	0.00920	0.00463	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
2-Hexanone (MBK)	ND	F1 F2	0.00920	0.00271	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Isopropylbenzene	ND	F2	0.00460	0.00348	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
4-Isopropyltoluene	ND	F1 F2	0.00460	0.00452	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Methyl tert-butyl ether	ND	F1 F2	0.00460	0.00265	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
4-Methyl-2-pentanone (MIBK)	ND	F2	0.00920	0.00297	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Methylene Chloride	ND	F2	0.00920	0.00247	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Naphthalene	ND	F1 F2	0.00460	0.00416	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1

Client Sample ID: 2023-SB-10-1012' **Lab Sample ID: 620-10149-12**
Date Collected: 03/06/23 10:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	F1 F2	0.00460	0.00389	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Styrene	ND	F2	0.00460	0.00356	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,1,1,2-Tetrachloroethane	ND		0.00460	0.00345	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,1,2,2-Tetrachloroethane	ND	F1	0.00460	0.00422	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Tetrachloroethene	ND	F2	0.00460	0.00256	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Toluene	ND	F2	0.00460	0.00292	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2,3-Trichlorobenzene	ND	F1 F2	0.00460	0.00388	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2,4-Trichlorobenzene	ND	F1 F2	0.00460	0.00424	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,3,5-Trichlorobenzene	ND	F1 F2	0.00460	0.00437	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,1,1-Trichloroethane	ND	F2	0.00460	0.00314	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,1,2-Trichloroethane	ND	F1	0.00460	0.00347	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Trichloroethene	ND	F2	0.00460	0.00309	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Trichlorofluoromethane (Freon 11)	ND	F1 F2	0.00460	0.00352	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2,3-Trichloropropane	ND		0.00460	0.00409	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,2,4-Trimethylbenzene	ND	F2	0.00460	0.00389	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,3,5-Trimethylbenzene	ND	F2	0.00460	0.00391	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Vinyl chloride	ND	F1 F2	0.00460	0.00281	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
m,p-Xylene	ND	F1 F2	0.00460	0.00629	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
o-Xylene	ND	F2	0.00460	0.00336	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Tetrahydrofuran	ND	F1 F2	0.00920	0.00233	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Ethyl ether	ND	F2	0.00460	0.00242	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Tert-amyl methyl ether	ND	F2	0.00460	0.00364	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Ethyl tert-butyl ether	ND	F1 F2	0.00460	0.00303	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
di-Isopropyl ether	ND	F1 F2	0.00460	0.00329	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
tert-Butanol	ND	F2	0.0920	0.0247	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,4-Dioxane	ND		0.0920	0.0286	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
trans-1,4-Dichloro-2-butene	ND	F2	0.0230	0.00340	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Ethanol	ND	F1 F2	0.920	0.0571	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
1,3-Dichloropropene, Total	ND	F2	0.00460	0.00350	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1
Xylenes, Total	ND	F1 F2	0.0138	0.00460	mg/Kg	☼	03/16/23 16:25	03/16/23 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 23:24*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 23:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 23:24*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/16/23 16:25*	*03/16/23 23:24*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.396	0.0704	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
1,2,4-Trichlorobenzene	ND		0.396	0.0906	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
1,2-Dichlorobenzene	ND		0.396	0.0762	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
1,3-Dichlorobenzene	ND		0.396	0.0958	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
1,4-Dichlorobenzene	ND		0.396	0.0931	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
1-Methylnaphthalene	ND		0.0800	0.0671	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2,4,5-Trichlorophenol	ND		0.396	0.0453	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2,4,6-Trichlorophenol	ND		0.200	0.0489	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2,4-Dichlorophenol	ND		0.200	0.0797	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2,4-Dimethylphenol	ND		0.396	0.0580	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2,4-Dinitrophenol	ND		0.396	0.104	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-10-1012' **Lab Sample ID: 620-10149-12**
Date Collected: 03/06/23 10:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.200	0.0469	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2,6-Dinitrotoluene	ND		0.200	0.0469	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2-Chloronaphthalene	ND		0.396	0.0915	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2-Chlorophenol	ND		0.200	0.0819	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2-Methylnaphthalene	ND		0.0800	0.0591	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2-Methylphenol	ND		0.396	0.0578	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2-Nitroaniline	ND		0.396	0.0376	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
2-Nitrophenol	ND		0.200	0.0711	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
3 & 4 Methylphenol	ND		0.396	0.0749	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
3,3'-Dichlorobenzidine	ND		0.396	0.0653	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
3-Nitroaniline	ND		0.396	0.0354	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
4,6-Dinitro-2-methylphenol	ND		0.396	0.0711	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
4-Bromophenyl phenyl ether	ND		0.396	0.0447	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
4-Chloro-3-methylphenol	ND		0.396	0.0774	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
4-Chloroaniline	ND		0.200	0.0303	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
4-Chlorophenyl phenyl ether	ND		0.396	0.0423	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
4-Nitroaniline	ND		0.200	0.0632	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
4-Nitrophenol	ND		0.396	0.138	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Acenaphthene	ND		0.0800	0.0638	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Acenaphthylene	ND		0.0800	0.0525	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Acetophenone	ND		0.200	0.0488	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Aniline	ND		0.396	0.0303	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Anthracene	ND		0.0800	0.0463	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Azobenzene/Diphenyldiazene	ND		0.396	0.0675	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzidine	ND	F2	0.791	0.117	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzo[a]anthracene	ND		0.0800	0.0450	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzo[a]pyrene	ND		0.0800	0.0572	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzo[b]fluoranthene	ND		0.0800	0.0663	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzo[g,h,i]perylene	ND		0.0800	0.0625	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzo[k]fluoranthene	ND		0.0800	0.0622	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzoic acid	ND		0.396	0.272	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Benzyl alcohol	ND		0.396	0.0717	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Bis(2-chloroethoxy)methane	ND		0.396	0.0688	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Bis(2-chloroethyl)ether	ND		0.200	0.0655	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
bis (2-chloroisopropyl) ether	ND		0.200	0.0891	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Bis(2-ethylhexyl) phthalate	ND		0.200	0.0509	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Butyl benzyl phthalate	ND		0.396	0.0397	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Carbazole	ND		0.200	0.0524	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Chrysene	ND		0.0800	0.0452	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Dibenz(a,h)anthracene	ND		0.0800	0.0610	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Dibenzofuran	ND		0.200	0.0693	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Diethyl phthalate	ND		0.396	0.0434	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Dimethyl phthalate	ND		0.396	0.0515	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Di-n-butyl phthalate	ND		0.396	0.0423	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Di-n-octyl phthalate	ND		0.396	0.0653	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Fluoranthene	ND		0.0800	0.0469	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Fluorene	ND		0.0800	0.0730	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Hexachlorobenzene	ND		0.200	0.0555	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Hexachlorobutadiene	ND		0.200	0.0999	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1

Client Sample ID: 2023-SB-10-1012' **Lab Sample ID: 620-10149-12**
Date Collected: 03/06/23 10:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND	F1	0.200	0.0765	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Hexachloroethane	ND		0.200	0.0786	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0679	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Isophorone	ND		0.200	0.0548	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Naphthalene	ND		0.0800	0.0767	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Nitrobenzene	ND		0.200	0.0924	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
N-Nitrosodimethylamine	ND	F1 F2	0.200	0.0525	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
N-Nitrosodi-n-propylamine	ND		0.200	0.0797	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
N-Nitrosodiphenylamine	ND		0.396	0.0505	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Pentachloronitrobenzene	ND		0.396	0.0625	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Pentachlorophenol	ND		0.396	0.162	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Phenanthrene	ND		0.0800	0.0453	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Phenol	ND		0.396	0.0815	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Pyrene	ND		0.0800	0.0441	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1
Pyridine	ND		0.396	0.0936	mg/Kg	☼	03/17/23 08:54	03/20/23 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/17/23 08:54*	*03/20/23 15:34*	*1*
2-Fluorophenol (Surr)	*87*		*15 - 110*	*03/17/23 08:54*	*03/20/23 15:34*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/17/23 08:54*	*03/20/23 15:34*	*1*
Phenol-d5 (Surr)	*76*		*15 - 110*	*03/17/23 08:54*	*03/20/23 15:34*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*	*03/17/23 08:54*	*03/20/23 15:34*	*1*
Terphenyl-d14	*66*		*30 - 130*	*03/17/23 08:54*	*03/20/23 15:34*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.255	0.130	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.255	0.109	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0509	0.0102	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
Ethylbenzene	ND		0.0509	0.0102	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
Methyl tert-butyl ether	ND		0.0509	0.0102	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
m,p-Xylene	ND		0.102	0.0102	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
Naphthalene	**0.0388**	**J B**	0.0509	0.0346	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
o-Xylene	ND		0.0509	0.0102	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
Toluene	ND		0.0509	0.0102	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
C5-C8 Aliphatics (unadjusted)	ND		0.255	0.130	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
C9-C10 Aromatics	ND		0.255	0.0356	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1
C9-C12 Aliphatics (unadjusted)	ND		0.255	0.109	mg/Kg	☼	03/10/23 07:32	03/11/23 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/10/23 07:32*	*03/11/23 02:53*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/10/23 07:32*	*03/11/23 02:53*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0240	0.0173	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1
PCB-1221	ND		0.0240	0.00710	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1
PCB-1232	ND		0.0240	0.00665	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-1012'
Date Collected: 03/06/23 10:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-12
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0240	0.00380	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1
PCB-1248	ND		0.0240	0.00751	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1
PCB-1254	ND		0.0240	0.0187	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1
PCB-1262	ND		0.0240	0.00560	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1
PCB-1260	ND		0.0240	0.00517	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1
PCB-1268	ND		0.0240	0.00512	mg/Kg	☼	03/10/23 15:38	03/14/23 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:22*	*1*
Tetrachloro-m-xylene	*100*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:22*	*1*
DCB Decachlorobiphenyl (Surr)	*117*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:22*	*1*
DCB Decachlorobiphenyl (Surr)	*125*		*30 - 150*	*03/10/23 15:38*	*03/14/23 19:22*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluoroheptanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorooctanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorononanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorodecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorotridecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorotetradecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorobutanesulfonic acid	ND		2.33	0.466	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorohexanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorooctanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
NEtFOSAA	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
NMeFOSAA	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
10:2 FTS	ND		2.33	0.699	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluoropentanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluoroheptanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorononanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorodecanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorooctanesulfonamide	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorohexadecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorooctadecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorobutanoic acid	ND		2.33	0.931	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluoropentanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
NMeFOSE	ND		2.33	0.582	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
NMeFOSA	ND		2.33	0.582	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
NEtFOSE	ND		2.33	0.582	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
NEtFOSA	ND		2.33	0.582	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
HFPODA	ND		2.33	1.16	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
DONA	ND		3.49	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
9Cl-PF3ONS	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
11Cl-PF3OUdS	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluorododecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
4:2 Fluorotelomer sulfonic acid	ND		2.33	0.699	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
Perfluoroundecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1

Client Sample ID: 2023-SB-10-1012' Lab Sample ID: 620-10149-12

Date Collected: 03/06/23 10:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.33	0.699	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1
8:2 Fluorotelomer sulfonic acid	ND		3.49	0.699	ug/Kg	☼	03/13/23 07:29	03/22/23 18:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
M2-8:2 FTS	*83*		*15 - 200*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
M2-6:2 FTS	*98*		*10 - 200*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C5 PFHxA	*99*		*10 - 174*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C4 PFHpA	*106*		*10 - 178*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C8 PFOA	*98*		*26 - 159*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C9 PFNA	*101*		*26 - 165*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C6 PFDA	*94*		*26 - 161*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C7 PFUnA	*90*		*12 - 173*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C2-PFDoDA	*88*		*11 - 166*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C2 PFTeDA	*91*		*10 - 169*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C3 PFBS	*92*		*27 - 179*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C3 PFHxS	*96*		*24 - 171*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C8 PFOS	*96*		*41 - 154*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
d3-NMeFOSAA	*71*		*10 - 178*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
d5-NEtFOSAA	*70*		*10 - 193*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C8 FOSA	*84*		*14 - 163*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C4 PFBA	*97*		*28 - 153*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C5 PFPeA	*100*		*24 - 161*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
d7-N-MeFOSE-M	*83*		*10 - 179*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
d5-NEtPFOSA	*82*		*10 - 180*	*03/13/23 07:29*	*03/22/23 18:03*	*1*
13C3 HFPO-DA	*102*		*10 - 169*	*03/13/23 07:29*	*03/22/23 18:03*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	4.43	1.51	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Arsenic	**3.94**		2.66	1.24	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Barium	**109**	**F1**	0.443	0.133	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Beryllium	**1.62**		0.443	0.0886	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Cadmium	ND		0.443	0.0886	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Chromium	**31.2**		1.33	0.310	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Lead	**10.1**	**F1**	1.33	0.531	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Nickel	**15.6**		0.886	0.230	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Selenium	ND		4.43	1.33	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Silver	**0.433**	**J**	0.886	0.354	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Thallium	ND		26.6	11.5	mg/Kg	☼	03/14/23 09:00	03/15/23 21:09	10
Vanadium	**50.8**	**F1**	0.886	0.381	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1
Zinc	**65.9**	**F1**	1.77	0.708	mg/Kg	☼	03/14/23 09:00	03/15/23 20:39	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0696	0.0232	mg/Kg	☼	03/15/23 05:42	03/15/23 13:34	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-10-1012'
Date Collected: 03/06/23 10:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-12
Matrix: Solid
Percent Solids: 79.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.5		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	79.5		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0002'
Date Collected: 03/06/23 10:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-13
Matrix: Solid
Percent Solids: 95.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00477	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Acetone	ND		0.0477	0.0107	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Acrylonitrile	ND		0.00477	0.00286	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Benzene	ND		0.00477	0.00319	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Bromobenzene	ND		0.00477	0.00318	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Bromochloromethane	ND		0.00477	0.00271	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Bromodichloromethane	ND		0.00477	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Bromoform	ND		0.00477	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Bromomethane	ND	*+	0.00955	0.00595	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
2-Butanone (MEK)	ND		0.00955	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
n-Butylbenzene	ND		0.00955	0.00512	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
sec-Butylbenzene	ND		0.00477	0.00385	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
tert-Butylbenzene	ND		0.00477	0.00376	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Carbon disulfide	ND		0.00955	0.00335	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Carbon tetrachloride	ND		0.00477	0.00301	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Chlorobenzene	ND		0.00477	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Chloroethane	ND	*+	0.00955	0.00350	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Chloroform	ND		0.00477	0.00321	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Chloromethane	ND		0.00955	0.00367	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
2-Chlorotoluene	ND		0.00477	0.00380	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
4-Chlorotoluene	ND		0.00477	0.00414	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2-Dibromo-3-Chloropropane	ND		0.00955	0.00405	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Dibromochloromethane	ND		0.00477	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2-Dibromoethane (EDB)	ND		0.00477	0.00343	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Dibromomethane	ND		0.00477	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2-Dichlorobenzene	ND		0.00477	0.00443	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,3-Dichlorobenzene	ND		0.00477	0.00383	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,4-Dichlorobenzene	ND		0.00477	0.00453	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Dichlorodifluoromethane (Freon 12)	ND		0.00955	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,1-Dichloroethane	ND		0.00477	0.00324	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2-Dichloroethane	ND		0.00477	0.00322	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,1-Dichloroethene	ND		0.00477	0.00292	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
cis-1,2-Dichloroethene	ND		0.00477	0.00276	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
trans-1,2-Dichloroethene	ND		0.00477	0.00297	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2-Dichloropropane	ND		0.00477	0.00316	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,3-Dichloropropane	ND		0.00477	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
2,2-Dichloropropane	ND		0.00477	0.00329	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,1-Dichloropropene	ND		0.00477	0.00325	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
cis-1,3-Dichloropropene	ND		0.00477	0.00311	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
trans-1,3-Dichloropropene	ND		0.00477	0.00363	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Ethylbenzene	ND		0.00477	0.00341	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Hexachlorobutadiene	ND		0.00955	0.00480	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
2-Hexanone (MBK)	ND		0.00955	0.00281	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Isopropylbenzene	ND		0.00477	0.00361	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
4-Isopropyltoluene	ND		0.00477	0.00469	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Methyl tert-butyl ether	ND		0.00477	0.00275	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.00955	0.00308	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Methylene Chloride	ND		0.00955	0.00256	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Naphthalene	ND		0.00477	0.00432	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1

Client Sample ID: 2023-SB-11-0002' **Lab Sample ID: 620-10149-13**
Date Collected: 03/06/23 10:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 95.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00477	0.00404	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Styrene	ND		0.00477	0.00370	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,1,1,2-Tetrachloroethane	ND		0.00477	0.00358	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,1,2,2-Tetrachloroethane	ND		0.00477	0.00437	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Tetrachloroethene	ND		0.00477	0.00265	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Toluene	ND		0.00477	0.00303	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2,3-Trichlorobenzene	ND		0.00477	0.00403	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2,4-Trichlorobenzene	ND		0.00477	0.00440	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,3,5-Trichlorobenzene	ND		0.00477	0.00454	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,1,1-Trichloroethane	ND		0.00477	0.00326	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,1,2-Trichloroethane	ND		0.00477	0.00360	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Trichloroethene	ND		0.00477	0.00321	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Trichlorofluoromethane (Freon 11)	ND		0.00477	0.00365	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2,3-Trichloropropane	ND		0.00477	0.00424	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,2,4-Trimethylbenzene	ND		0.00477	0.00404	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,3,5-Trimethylbenzene	ND		0.00477	0.00406	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Vinyl chloride	ND		0.00477	0.00291	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
m,p-Xylene	ND		0.00477	0.00652	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
o-Xylene	ND		0.00477	0.00349	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Tetrahydrofuran	ND		0.00955	0.00242	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Ethyl ether	ND		0.00477	0.00251	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Tert-amyl methyl ether	ND		0.00477	0.00377	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Ethyl tert-butyl ether	ND		0.00477	0.00314	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
di-Isopropyl ether	ND		0.00477	0.00341	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
tert-Butanol	ND		0.0955	0.0256	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,4-Dioxane	ND		0.0955	0.0297	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
trans-1,4-Dichloro-2-butene	ND		0.0239	0.00352	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Ethanol	ND		0.955	0.0592	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
1,3-Dichloropropene, Total	ND		0.00477	0.00363	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1
Xylenes, Total	ND		0.0143	0.00477	mg/Kg	☼	03/13/23 09:42	03/13/23 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:58*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:58*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*	*03/13/23 09:42*	*03/13/23 21:58*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.340	0.0606	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
1,2,4-Trichlorobenzene	ND		0.340	0.0780	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
1,2-Dichlorobenzene	ND		0.340	0.0656	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
1,3-Dichlorobenzene	ND		0.340	0.0824	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
1,4-Dichlorobenzene	ND		0.340	0.0802	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
1-Methylnaphthalene	ND		0.0688	0.0578	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2,4,5-Trichlorophenol	ND		0.340	0.0390	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2,4,6-Trichlorophenol	ND		0.172	0.0421	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2,4-Dichlorophenol	ND		0.172	0.0686	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2,4-Dimethylphenol	ND		0.340	0.0499	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2,4-Dinitrophenol	ND		0.340	0.0895	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0002'
Date Collected: 03/06/23 10:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-13
Matrix: Solid
Percent Solids: 95.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2,6-Dinitrotoluene	ND		0.172	0.0403	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2-Chloronaphthalene	ND		0.340	0.0787	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2-Chlorophenol	ND		0.172	0.0705	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2-Methylnaphthalene	ND		0.0688	0.0509	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2-Methylphenol	ND		0.340	0.0497	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2-Nitroaniline	ND		0.340	0.0324	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
2-Nitrophenol	ND		0.172	0.0612	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
3 & 4 Methylphenol	ND		0.340	0.0645	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
3,3'-Dichlorobenzidine	ND		0.340	0.0562	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
3-Nitroaniline	ND		0.340	0.0304	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
4,6-Dinitro-2-methylphenol	ND		0.340	0.0612	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
4-Bromophenyl phenyl ether	ND		0.340	0.0385	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
4-Chloro-3-methylphenol	ND		0.340	0.0666	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
4-Chloroaniline	ND		0.172	0.0261	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
4-Chlorophenyl phenyl ether	ND		0.340	0.0364	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
4-Nitroaniline	ND		0.172	0.0544	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
4-Nitrophenol	ND		0.340	0.119	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Acenaphthene	ND		0.0688	0.0549	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Acenaphthylene	ND		0.0688	0.0452	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Acetophenone	ND		0.172	0.0420	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Aniline	ND		0.340	0.0261	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Anthracene	ND		0.0688	0.0398	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Azobenzene/Diphenyldiazene	ND		0.340	0.0581	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzidine	ND	*- *1	0.681	0.101	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzo[a]anthracene	ND		0.0688	0.0387	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzo[a]pyrene	ND		0.0688	0.0492	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzo[b]fluoranthene	ND		0.0688	0.0570	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzo[g,h,i]perylene	ND		0.0688	0.0537	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzo[k]fluoranthene	ND		0.0688	0.0535	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzoic acid	ND	*- *1	0.340	0.234	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Benzyl alcohol	ND		0.340	0.0617	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Bis(2-chloroethoxy)methane	ND		0.340	0.0592	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Bis(2-chloroethyl)ether	ND		0.172	0.0563	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
bis (2-chloroisopropyl) ether	ND		0.172	0.0766	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Bis(2-ethylhexyl) phthalate	ND		0.172	0.0438	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Butyl benzyl phthalate	**0.0492**	**J**	0.340	0.0341	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Carbazole	ND		0.172	0.0451	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Chrysene	ND		0.0688	0.0389	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Dibenz(a,h)anthracene	ND		0.0688	0.0525	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Dibenzofuran	ND		0.172	0.0596	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Diethyl phthalate	ND		0.340	0.0373	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Dimethyl phthalate	ND		0.340	0.0444	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Di-n-butyl phthalate	**0.150**	**J**	0.340	0.0364	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Di-n-octyl phthalate	ND		0.340	0.0562	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Fluoranthene	ND		0.0688	0.0403	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Fluorene	ND		0.0688	0.0628	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Hexachlorobenzene	ND		0.172	0.0478	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Hexachlorobutadiene	ND		0.172	0.0859	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1

Client Sample ID: 2023-SB-11-0002' **Lab Sample ID: 620-10149-13**
Date Collected: 03/06/23 10:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 95.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.172	0.0658	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Hexachloroethane	ND		0.172	0.0677	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Indeno[1,2,3-cd]pyrene	ND		0.0688	0.0584	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Isophorone	ND		0.172	0.0471	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Naphthalene	ND		0.0688	0.0660	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Nitrobenzene	ND		0.172	0.0795	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
N-Nitrosodimethylamine	ND		0.172	0.0452	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
N-Nitrosodi-n-propylamine	ND		0.172	0.0686	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
N-Nitrosodiphenylamine	ND		0.340	0.0434	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Pentachloronitrobenzene	ND		0.340	0.0537	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Pentachlorophenol	ND		0.340	0.139	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Phenanthrene	ND		0.0688	0.0390	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Phenol	ND		0.340	0.0701	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Pyrene	ND		0.0688	0.0380	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1
Pyridine	ND		0.340	0.0806	mg/Kg	☼	03/20/23 13:14	03/21/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*33*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:03*	*1*
2-Fluorophenol (Surr)	*31*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:03*	*1*
Nitrobenzene-d5 (Surr)	*19*	*S1-*	*30 - 130*	*03/20/23 13:14*	*03/21/23 17:03*	*1*
Phenol-d5 (Surr)	*38*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:03*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:03*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:03*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.247	0.127	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.247	0.106	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0495	0.00990	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
Ethylbenzene	ND		0.0495	0.00990	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
Methyl tert-butyl ether	ND		0.0495	0.00990	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
m,p-Xylene	ND		0.0990	0.00990	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
Naphthalene	ND		0.0495	0.0336	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
o-Xylene	ND		0.0495	0.00990	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
Toluene	ND		0.0495	0.00990	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
C5-C8 Aliphatics (unadjusted)	ND		0.247	0.127	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
C9-C10 Aromatics	ND		0.247	0.0346	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1
C9-C12 Aliphatics (unadjusted)	ND		0.247	0.106	mg/Kg	☼	03/10/23 07:32	03/11/23 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*	*03/10/23 07:32*	*03/11/23 12:42*	*1*
a,a,a-Trifluorotoluene (pid)	*91*		*70 - 130*	*03/10/23 07:32*	*03/11/23 12:42*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0182	0.0131	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1
PCB-1221	ND		0.0182	0.00538	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1
PCB-1232	ND		0.0182	0.00504	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1

Client Sample ID: 2023-SB-11-0002' **Lab Sample ID: 620-10149-13**
Date Collected: 03/06/23 10:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 95.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0182	0.00288	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1
PCB-1248	ND		0.0182	0.00569	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1
PCB-1254	**0.656**		0.0182	0.0142	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1
PCB-1262	ND		0.0182	0.00424	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1
PCB-1260	ND		0.0182	0.00392	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1
PCB-1268	ND		0.0182	0.00388	mg/Kg	☼	03/10/23 15:38	03/14/23 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*03/10/23 15:38*	*03/14/23 06:09*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*03/10/23 15:38*	*03/14/23 06:09*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*30 - 150*	*03/10/23 15:38*	*03/14/23 06:09*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*03/10/23 15:38*	*03/14/23 06:09*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluoroheptanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorooctanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorononanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorodecanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorotridecanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorotetradecanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorobutanesulfonic acid	ND		2.09	0.418	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorohexanesulfonic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorooctanesulfonic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
NEtFOSAA	ND		2.09	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
NMeFOSAA	ND		2.09	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
10:2 FTS	ND		2.09	0.626	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluoropentanesulfonic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluoroheptanesulfonic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorononanesulfonic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorodecanesulfonic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.09	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorooctanesulfonamide	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorohexadecanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorooctadecanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorobutanoic acid	ND		2.09	0.835	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluoropentanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
NMeFOSE	ND		2.09	0.522	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
NMeFOSA	ND		2.09	0.522	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
NEtFOSE	ND		2.09	0.522	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
NEtFOSA	ND		2.09	0.522	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
HFPODA	ND		2.09	1.04	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
DONA	ND		3.13	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
9Cl-PF3ONS	ND		2.09	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
11Cl-PF3OUdS	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluorododecanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
4:2 Fluorotelomer sulfonic acid	ND		2.09	0.626	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
Perfluoroundecanoic acid	ND		0.626	0.209	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1

Client Sample ID: 2023-SB-11-0002' **Lab Sample ID: 620-10149-13**
Date Collected: 03/06/23 10:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 95.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.09	0.626	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1
8:2 Fluorotelomer sulfonic acid	ND		3.13	0.626	ug/Kg	☼	03/13/23 07:29	03/22/23 18:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*80*		*10 - 200*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
M2-8:2 FTS	*81*		*15 - 200*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
M2-6:2 FTS	*78*		*10 - 200*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C5 PFHxA	*88*		*10 - 174*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C4 PFHpA	*84*		*10 - 178*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C8 PFOA	*86*		*26 - 159*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C9 PFNA	*86*		*26 - 165*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C6 PFDA	*87*		*26 - 161*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C7 PFUnA	*87*		*12 - 173*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C2-PFDoDA	*89*		*11 - 166*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C2 PFTeDA	*83*		*10 - 169*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C3 PFBS	*88*		*27 - 179*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C3 PFHxS	*93*		*24 - 171*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C8 PFOS	*90*		*41 - 154*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
d3-NMeFOSAA	*16*		*10 - 178*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
d5-NEtFOSAA	*21*		*10 - 193*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C8 FOSA	*74*		*14 - 163*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C4 PFBA	*77*		*28 - 153*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C5 PFPeA	*79*		*24 - 161*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
d7-N-MeFOSE-M	*79*		*10 - 179*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
d3-NMePFOSA	*66*		*10 - 175*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
d9-N-EtFOSE-M	*77*		*10 - 185*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
d5-NEtPFOSA	*67*		*10 - 180*	*03/13/23 07:29*	*03/22/23 18:36*	*1*
13C3 HFPO-DA	*77*		*10 - 169*	*03/13/23 07:29*	*03/22/23 18:36*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.70	1.60	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Arsenic	**3.05**		2.82	1.32	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Barium	**33.7**		0.470	0.141	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Beryllium	**0.381**	**J**	0.470	0.0941	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Cadmium	ND		0.470	0.0941	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Chromium	**7.68**		1.41	0.329	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Lead	**4.67**		1.41	0.564	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Nickel	**3.38**		0.941	0.245	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Selenium	ND		4.70	1.41	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Silver	ND		0.941	0.376	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Thallium	ND		28.2	12.2	mg/Kg	☼	03/14/23 09:00	03/15/23 22:01	10
Vanadium	**14.5**		0.941	0.404	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1
Zinc	**17.0**		1.88	0.752	mg/Kg	☼	03/14/23 09:00	03/15/23 21:57	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0597	0.0199	mg/Kg	☼	03/14/23 07:49	03/14/23 13:35	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0002'
Date Collected: 03/06/23 10:50
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-13
Matrix: Solid
Percent Solids: 95.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	4.2		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	95.8		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0204'
Date Collected: 03/06/23 10:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-14
Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00519	0.00338	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Acetone	**0.0393**	**J B *3**	0.0519	0.0116	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Acrylonitrile	ND	*3	0.00519	0.00311	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Benzene	ND	*3	0.00519	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Bromobenzene	ND	*3	0.00519	0.00346	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Bromochloromethane	ND	*3	0.00519	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Bromodichloromethane	ND	*3	0.00519	0.00381	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Bromoform	ND	*3	0.00519	0.00396	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Bromomethane	ND	*3	0.0104	0.00646	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
2-Butanone (MEK)	ND	*3	0.0104	0.00413	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
n-Butylbenzene	ND	*3	0.0104	0.00556	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
sec-Butylbenzene	ND	*3	0.00519	0.00418	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
tert-Butylbenzene	ND	*3	0.00519	0.00409	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Carbon disulfide	ND	*3	0.0104	0.00364	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Carbon tetrachloride	ND	*3	0.00519	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Chlorobenzene	ND	*3	0.00519	0.00380	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Chloroethane	ND	*3	0.0104	0.00381	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Chloroform	ND	*3	0.00519	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Chloromethane	ND	*3	0.0104	0.00398	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
2-Chlorotoluene	ND	*3	0.00519	0.00413	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
4-Chlorotoluene	ND	*3	0.00519	0.00450	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.0104	0.00440	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Dibromochloromethane	ND	*3	0.00519	0.00343	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2-Dibromoethane (EDB)	ND	*3	0.00519	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Dibromomethane	ND	*3	0.00519	0.00305	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2-Dichlorobenzene	ND	*3	0.00519	0.00481	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,3-Dichlorobenzene	ND	*3	0.00519	0.00416	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,4-Dichlorobenzene	ND	*3	0.00519	0.00492	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0104	0.00278	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,1-Dichloroethane	ND	*3	0.00519	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2-Dichloroethane	ND	*3	0.00519	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,1-Dichloroethene	ND	*3	0.00519	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
cis-1,2-Dichloroethene	ND	*3	0.00519	0.00300	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
trans-1,2-Dichloroethene	ND	*3	0.00519	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2-Dichloropropane	ND	*3	0.00519	0.00343	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,3-Dichloropropane	ND	*3	0.00519	0.00396	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
2,2-Dichloropropane	ND	*3	0.00519	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,1-Dichloropropene	ND	*3	0.00519	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
cis-1,3-Dichloropropene	ND	*3	0.00519	0.00338	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
trans-1,3-Dichloropropene	ND	*3	0.00519	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Ethylbenzene	ND	*3	0.00519	0.00370	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Hexachlorobutadiene	ND	*3	0.0104	0.00522	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
2-Hexanone (MBK)	ND	*3	0.0104	0.00305	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Isopropylbenzene	ND	*3	0.00519	0.00392	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
4-Isopropyltoluene	ND	*3	0.00519	0.00509	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Methyl tert-butyl ether	ND	*3	0.00519	0.00299	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0104	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Methylene Chloride	**0.00529**	**J *3**	0.0104	0.00278	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Naphthalene	ND	*3	0.00519	0.00469	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1

Client Sample ID: 2023-SB-11-0204' **Lab Sample ID: 620-10149-14**
Date Collected: 03/06/23 10:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00519	0.00439	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Styrene	ND	*3	0.00519	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00519	0.00389	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,1,2,2-Tetrachloroethane	ND	*3 *+	0.00519	0.00475	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Tetrachloroethene	ND	*3	0.00519	0.00288	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Toluene	ND	*3	0.00519	0.00329	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2,3-Trichlorobenzene	ND	*3	0.00519	0.00438	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2,4-Trichlorobenzene	ND	*3	0.00519	0.00478	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,3,5-Trichlorobenzene	ND	*3	0.00519	0.00493	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,1,1-Trichloroethane	ND	*3	0.00519	0.00354	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,1,2-Trichloroethane	ND	*3	0.00519	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Trichloroethene	ND	*3	0.00519	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00519	0.00396	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2,3-Trichloropropane	ND	*3	0.00519	0.00461	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,2,4-Trimethylbenzene	ND	*3	0.00519	0.00439	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,3,5-Trimethylbenzene	ND	*3	0.00519	0.00441	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Vinyl chloride	ND	*3	0.00519	0.00316	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
m,p-Xylene	ND	*3	0.00519	0.00709	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
o-Xylene	ND	*3	0.00519	0.00379	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Tetrahydrofuran	ND	*3	0.0104	0.00263	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Ethyl ether	ND	*3	0.00519	0.00273	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Tert-amyl methyl ether	ND	*3	0.00519	0.00410	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Ethyl tert-butyl ether	ND	*3	0.00519	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
di-Isopropyl ether	ND	*3	0.00519	0.00370	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
tert-Butanol	ND	*3	0.104	0.0278	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,4-Dioxane	ND	*3	0.104	0.0323	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0259	0.00383	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Ethanol	ND	*3	1.04	0.0643	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
1,3-Dichloropropene, Total	ND		0.00519	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1
Xylenes, Total	ND		0.0156	0.00519	mg/Kg	☼	03/14/23 10:36	03/14/23 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1- *3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 16:52*	*1*
Toluene-d8 (Surr)	*91*	*3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 16:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*165*	*S1+ *3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 16:52*	*1*
Dibromofluoromethane (Surr)	*161*	*S1+ *3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 16:52*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00290	0.00189	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Acetone	**0.0234**	**J *3**	0.0290	0.00650	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Acrylonitrile	ND	*3	0.00290	0.00174	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Benzene	ND	*3	0.00290	0.00194	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Bromobenzene	ND	*3	0.00290	0.00193	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Bromochloromethane	ND	*3	0.00290	0.00165	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Bromodichloromethane	ND	*3	0.00290	0.00213	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Bromoform	ND	*3	0.00290	0.00222	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Bromomethane	ND	*3	0.00580	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
2-Butanone (MEK)	ND	*3	0.00580	0.00231	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1

Client Sample ID: 2023-SB-11-0204' **Lab Sample ID: 620-10149-14**
Date Collected: 03/06/23 10:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00580	0.00311	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
sec-Butylbenzene	ND	*3	0.00290	0.00234	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
tert-Butylbenzene	ND	*3	0.00290	0.00229	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Carbon disulfide	ND	*3	0.00580	0.00204	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Carbon tetrachloride	ND	*3	0.00290	0.00183	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Chlorobenzene	ND	*3	0.00290	0.00212	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Chloroethane	ND	*3	0.00580	0.00213	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Chloroform	ND	*3	0.00290	0.00195	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Chloromethane	ND	*3	0.00580	0.00223	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
2-Chlorotoluene	ND	*3	0.00290	0.00231	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
4-Chlorotoluene	ND	*3	0.00290	0.00252	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00580	0.00246	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Dibromochloromethane	ND	*3	0.00290	0.00192	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2-Dibromoethane (EDB)	ND	*3	0.00290	0.00208	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Dibromomethane	ND	*3	0.00290	0.00171	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2-Dichlorobenzene	ND	*3	0.00290	0.00269	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,3-Dichlorobenzene	ND	*3	0.00290	0.00233	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,4-Dichlorobenzene	ND	*3	0.00290	0.00275	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.00580	0.00155	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,1-Dichloroethane	ND	*3	0.00290	0.00197	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2-Dichloroethane	ND	*3	0.00290	0.00195	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,1-Dichloroethene	ND	*3	0.00290	0.00177	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
cis-1,2-Dichloroethene	ND	*3	0.00290	0.00168	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
trans-1,2-Dichloroethene	ND	*3	0.00290	0.00180	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2-Dichloropropane	ND	*3	0.00290	0.00192	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,3-Dichloropropane	ND	*3	0.00290	0.00222	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
2,2-Dichloropropane	ND	*3	0.00290	0.00200	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,1-Dichloropropene	ND	*3	0.00290	0.00197	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
cis-1,3-Dichloropropene	ND	*3	0.00290	0.00189	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
trans-1,3-Dichloropropene	ND	*3	0.00290	0.00220	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Ethylbenzene	ND	*3	0.00290	0.00207	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Hexachlorobutadiene	ND	*3	0.00580	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
2-Hexanone (MBK)	ND	*3	0.00580	0.00171	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Isopropylbenzene	ND	*3	0.00290	0.00219	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
4-Isopropyltoluene	ND	*3	0.00290	0.00285	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Methyl tert-butyl ether	ND	*3	0.00290	0.00167	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.00580	0.00187	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Methylene Chloride	**0.00243**	**J *3**	0.00580	0.00155	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Naphthalene	ND	*3	0.00290	0.00262	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
N-Propylbenzene	ND	*3	0.00290	0.00245	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Styrene	ND	*3	0.00290	0.00224	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00290	0.00217	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00290	0.00266	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Tetrachloroethene	ND	*3	0.00290	0.00161	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Toluene	ND	*3	0.00290	0.00184	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2,3-Trichlorobenzene	**0.00247**	**J *3**	0.00290	0.00245	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2,4-Trichlorobenzene	ND	*3	0.00290	0.00267	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,3,5-Trichlorobenzene	ND	*3	0.00290	0.00275	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,1,1-Trichloroethane	ND	*3	0.00290	0.00198	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1

Client Sample ID: 2023-SB-11-0204' **Lab Sample ID: 620-10149-14**
Date Collected: 03/06/23 10:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00290	0.00219	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Trichloroethene	ND	*3	0.00290	0.00195	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00290	0.00222	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2,3-Trichloropropane	ND	*3	0.00290	0.00258	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,2,4-Trimethylbenzene	ND	*3	0.00290	0.00245	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,3,5-Trimethylbenzene	ND	*3	0.00290	0.00246	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Vinyl chloride	ND	*3	0.00290	0.00177	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
m,p-Xylene	ND	*3	0.00290	0.00396	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
o-Xylene	ND	*3	0.00290	0.00212	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Tetrahydrofuran	ND	*3	0.00580	0.00147	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Ethyl ether	ND	*3	0.00290	0.00153	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Tert-amyl methyl ether	ND	*3	0.00290	0.00229	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Ethyl tert-butyl ether	ND	*3	0.00290	0.00191	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
di-Isopropyl ether	ND	*3	0.00290	0.00207	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
tert-Butanol	ND	*3	0.0580	0.0155	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,4-Dioxane	ND	*3	0.0580	0.0180	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0145	0.00214	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Ethanol	ND	*3	0.580	0.0360	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
1,3-Dichloropropene, Total	ND		0.00290	0.00220	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1
Xylenes, Total	ND		0.00870	0.00290	mg/Kg	☼	03/15/23 12:58	03/15/23 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*59*	**3 S1-*	*70 - 130*	*03/15/23 12:58*	*03/15/23 14:42*	*1*
Toluene-d8 (Surr)	*91*	**3*	*70 - 130*	*03/15/23 12:58*	*03/15/23 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*146*	**3 S1+*	*70 - 130*	*03/15/23 12:58*	*03/15/23 14:42*	*1*
Dibromofluoromethane (Surr)	*138*	**3 S1+*	*70 - 130*	*03/15/23 12:58*	*03/15/23 14:42*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.378	0.0672	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
1,2,4-Trichlorobenzene	ND		0.378	0.0865	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
1,2-Dichlorobenzene	ND		0.378	0.0728	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
1,3-Dichlorobenzene	ND		0.378	0.0914	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
1,4-Dichlorobenzene	ND		0.378	0.0889	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
1-Methylnaphthalene	ND		0.0763	0.0641	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2,4,5-Trichlorophenol	ND		0.378	0.0433	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2,4,6-Trichlorophenol	ND		0.191	0.0467	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2,4-Dichlorophenol	ND		0.191	0.0761	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2,4-Dimethylphenol	ND		0.378	0.0554	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2,4-Dinitrophenol	ND		0.378	0.0993	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2,4-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2,6-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2-Chloronaphthalene	ND		0.378	0.0873	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2-Chlorophenol	ND		0.191	0.0782	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2-Methylnaphthalene	ND		0.0763	0.0564	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2-Methylphenol	ND		0.378	0.0552	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2-Nitroaniline	ND		0.378	0.0359	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
2-Nitrophenol	ND		0.191	0.0679	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
3 & 4 Methylphenol	ND		0.378	0.0715	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
3,3'-Dichlorobenzidine	ND		0.378	0.0624	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0204'
Date Collected: 03/06/23 10:55
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-14
Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.378	0.0338	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
4,6-Dinitro-2-methylphenol	ND		0.378	0.0679	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
4-Bromophenyl phenyl ether	ND		0.378	0.0427	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
4-Chloro-3-methylphenol	ND		0.378	0.0739	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
4-Chloroaniline	ND		0.191	0.0290	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
4-Chlorophenyl phenyl ether	ND		0.378	0.0404	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
4-Nitroaniline	ND		0.191	0.0603	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
4-Nitrophenol	ND		0.378	0.132	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Acenaphthene	ND		0.0763	0.0609	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Acenaphthylene	ND		0.0763	0.0501	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Acetophenone	ND		0.191	0.0466	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Aniline	ND		0.378	0.0290	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Anthracene	ND		0.0763	0.0442	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Azobenzene/Diphenyldiazene	ND		0.378	0.0644	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzidine	ND	*- *1	0.755	0.112	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzo[a]anthracene	ND		0.0763	0.0429	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzo[a]pyrene	ND		0.0763	0.0546	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzo[b]fluoranthene	ND		0.0763	0.0633	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzo[g,h,i]perylene	ND		0.0763	0.0596	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzo[k]fluoranthene	ND		0.0763	0.0594	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzoic acid	ND	*- *1	0.378	0.260	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Benzyl alcohol	ND		0.378	0.0684	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Bis(2-chloroethoxy)methane	ND		0.378	0.0657	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Bis(2-chloroethyl)ether	ND		0.191	0.0625	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0850	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Bis(2-ethylhexyl) phthalate	ND		0.191	0.0486	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Butyl benzyl phthalate	ND		0.378	0.0379	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Carbazole	ND		0.191	0.0500	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Chrysene	**0.0791**		0.0763	0.0431	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Dibenz(a,h)anthracene	ND		0.0763	0.0582	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Dibenzofuran	ND		0.191	0.0661	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Diethyl phthalate	ND		0.378	0.0414	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Dimethyl phthalate	ND		0.378	0.0492	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Di-n-butyl phthalate	**2.31**		0.378	0.0404	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Di-n-octyl phthalate	ND		0.378	0.0624	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Fluoranthene	**0.0720**	**J**	0.0763	0.0447	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Fluorene	ND		0.0763	0.0697	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Hexachlorobenzene	ND		0.191	0.0530	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Hexachlorobutadiene	ND		0.191	0.0953	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Hexachlorocyclopentadiene	ND		0.191	0.0730	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Hexachloroethane	ND		0.191	0.0751	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Indeno[1,2,3-cd]pyrene	ND		0.0763	0.0648	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Isophorone	ND		0.191	0.0523	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Naphthalene	ND		0.0763	0.0732	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Nitrobenzene	ND		0.191	0.0882	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
N-Nitrosodimethylamine	ND		0.191	0.0501	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0761	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
N-Nitrosodiphenylamine	ND		0.378	0.0482	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Pentachloronitrobenzene	ND		0.378	0.0596	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1

Client Sample ID: 2023-SB-11-0204' **Lab Sample ID: 620-10149-14**
Date Collected: 03/06/23 10:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.378	0.154	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Phenanthrene	**0.0783**		0.0763	0.0433	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Phenol	ND		0.378	0.0778	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Pyrene	**0.0767**		0.0763	0.0421	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1
Pyridine	ND		0.378	0.0894	mg/Kg	☼	03/20/23 13:14	03/21/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:31*	*1*
2-Fluorophenol (Surr)	*44*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:31*	*1*
Nitrobenzene-d5 (Surr)	*32*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:31*	*1*
Phenol-d5 (Surr)	*49*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:31*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:31*	*1*
Terphenyl-d14	*71*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:31*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**1.86**		0.275	0.141	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	**0.436**		0.275	0.118	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0549	0.0110	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
Ethylbenzene	**0.0210**	**J**	0.0549	0.0110	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
Methyl tert-butyl ether	ND		0.0549	0.0110	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
m,p-Xylene	ND		0.110	0.0110	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
Naphthalene	ND		0.0549	0.0374	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
o-Xylene	**0.0220**	**J**	0.0549	0.0110	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
Toluene	ND		0.0549	0.0110	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
C5-C8 Aliphatics (unadjusted)	**1.86**		0.275	0.141	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
C9-C10 Aromatics	**0.143**	**J**	0.275	0.0385	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1
C9-C12 Aliphatics (unadjusted)	**0.622**		0.275	0.118	mg/Kg	☼	03/10/23 07:32	03/11/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/10/23 07:32*	*03/11/23 13:21*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/10/23 07:32*	*03/11/23 13:21*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1221	ND		0.0225	0.00664	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1232	ND		0.0225	0.00623	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1242	ND		0.0225	0.00355	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1248	ND		0.0225	0.00702	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1254	**0.0511**		0.0225	0.0175	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1262	ND		0.0225	0.00524	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1260	**0.0186**	**J**	0.0225	0.00483	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1
PCB-1268	ND		0.0225	0.00479	mg/Kg	☼	03/10/23 15:38	03/14/23 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/10/23 15:38*	*03/14/23 20:18*	*1*
Tetrachloro-m-xylene	*87*		*30 - 150*	*03/10/23 15:38*	*03/14/23 20:18*	*1*

Client Sample ID: 2023-SB-11-0204' **Lab Sample ID: 620-10149-14**
Date Collected: 03/06/23 10:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	119		30 - 150	03/10/23 15:38	03/14/23 20:18	1
DCB Decachlorobiphenyl (Surr)	106		30 - 150	03/10/23 15:38	03/14/23 20:18	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluoroheptanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorooctanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorononanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorodecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorotridecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorotetradecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorobutanesulfonic acid	ND		2.14	0.427	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorohexanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorooctanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
NEtFOSAA	ND		2.14	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
NMeFOSAA	ND		2.14	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
10:2 FTS	ND		2.14	0.641	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluoropentanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluoroheptanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorononanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorodecanesulfonic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.14	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorooctanesulfonamide	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorohexadecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorooctadecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorobutanoic acid	ND		2.14	0.854	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluoropentanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
NMeFOSE	ND		2.14	0.534	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
NMeFOSA	ND		2.14	0.534	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
NEtFOSE	ND		2.14	0.534	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
NEtFOSA	ND		2.14	0.534	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
HFPODA	ND		2.14	1.07	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
DONA	ND		3.20	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
9Cl-PF3ONS	ND		2.14	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
11Cl-PF3OUdS	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluorododecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
4:2 Fluorotelomer sulfonic acid	ND		2.14	0.641	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
Perfluoroundecanoic acid	ND		0.641	0.214	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
6:2 Fluorotelomer sulfonic acid	ND		2.14	0.641	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1
8:2 Fluorotelomer sulfonic acid	ND		3.20	0.641	ug/Kg	☼	03/13/23 07:29	03/22/23 18:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	91		10 - 200	03/13/23 07:29	03/22/23 18:48	1
M2-8:2 FTS	90		15 - 200	03/13/23 07:29	03/22/23 18:48	1
M2-6:2 FTS	80		10 - 200	03/13/23 07:29	03/22/23 18:48	1
13C5 PFHxA	98		10 - 174	03/13/23 07:29	03/22/23 18:48	1
13C4 PFHpA	98		10 - 178	03/13/23 07:29	03/22/23 18:48	1
13C8 PFOA	96		26 - 159	03/13/23 07:29	03/22/23 18:48	1

Client Sample ID: 2023-SB-11-0204' **Lab Sample ID: 620-10149-14**
Date Collected: 03/06/23 10:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	95		26 - 165	03/13/23 07:29	03/22/23 18:48	1
13C6 PFDA	90		26 - 161	03/13/23 07:29	03/22/23 18:48	1
13C7 PFUnA	90		12 - 173	03/13/23 07:29	03/22/23 18:48	1
13C2-PFDoDA	87		11 - 166	03/13/23 07:29	03/22/23 18:48	1
13C2 PFTeDA	89		10 - 169	03/13/23 07:29	03/22/23 18:48	1
13C3 PFBS	88		27 - 179	03/13/23 07:29	03/22/23 18:48	1
13C3 PFHxS	91		24 - 171	03/13/23 07:29	03/22/23 18:48	1
13C8 PFOS	91		41 - 154	03/13/23 07:29	03/22/23 18:48	1
d3-NMeFOSAA	68		10 - 178	03/13/23 07:29	03/22/23 18:48	1
d5-NEtFOSAA	72		10 - 193	03/13/23 07:29	03/22/23 18:48	1
13C8 FOSA	83		14 - 163	03/13/23 07:29	03/22/23 18:48	1
13C4 PFBA	91		28 - 153	03/13/23 07:29	03/22/23 18:48	1
13C5 PFPeA	92		24 - 161	03/13/23 07:29	03/22/23 18:48	1
d7-N-MeFOSE-M	82		10 - 179	03/13/23 07:29	03/22/23 18:48	1
d3-NMePFOSA	81		10 - 175	03/13/23 07:29	03/22/23 18:48	1
d9-N-EtFOSE-M	78		10 - 185	03/13/23 07:29	03/22/23 18:48	1
d5-NEtPFOSA	81		10 - 180	03/13/23 07:29	03/22/23 18:48	1
13C3 HFPO-DA	85		10 - 169	03/13/23 07:29	03/22/23 18:48	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.71	1.94	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Arsenic	**3.14**	**J**	3.42	1.60	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Barium	**17.9**		0.571	0.171	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Beryllium	**0.381**	**J**	0.571	0.114	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Cadmium	ND		0.571	0.114	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Chromium	**4.80**		1.71	0.399	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Lead	**5.93**		1.71	0.685	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Nickel	**2.87**		1.14	0.297	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Selenium	ND		5.71	1.71	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Silver	ND		1.14	0.456	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Thallium	ND		3.42	1.48	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Vanadium	**6.62**		1.14	0.491	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1
Zinc	**16.1**		2.28	0.913	mg/Kg	☼	03/14/23 09:00	03/15/23 21:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0698	0.0233	mg/Kg	☼	03/14/23 07:49	03/14/23 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	**85.9**		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0406'
Date Collected: 03/06/23 11:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-15
Matrix: Solid
Percent Solids: 83.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00488	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Acetone	ND		0.0488	0.0109	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Acrylonitrile	ND		0.00488	0.00293	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Benzene	ND		0.00488	0.00326	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Bromobenzene	ND		0.00488	0.00325	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Bromochloromethane	ND		0.00488	0.00277	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Bromodichloromethane	ND		0.00488	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Bromoform	ND		0.00488	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Bromomethane	ND		0.00975	0.00608	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
2-Butanone (MEK)	ND		0.00975	0.00388	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
n-Butylbenzene	ND	*3	0.00975	0.00523	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
sec-Butylbenzene	ND		0.00488	0.00393	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
tert-Butylbenzene	ND		0.00488	0.00384	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Carbon disulfide	ND		0.00975	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Carbon tetrachloride	ND		0.00488	0.00307	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Chlorobenzene	ND		0.00488	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Chloroethane	ND		0.00975	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Chloroform	ND		0.00488	0.00328	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Chloromethane	ND		0.00975	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
2-Chlorotoluene	ND		0.00488	0.00388	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
4-Chlorotoluene	ND		0.00488	0.00423	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.00975	0.00414	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Dibromochloromethane	ND		0.00488	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2-Dibromoethane (EDB)	ND		0.00488	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Dibromomethane	ND		0.00488	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2-Dichlorobenzene	ND	*3	0.00488	0.00453	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,3-Dichlorobenzene	ND		0.00488	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,4-Dichlorobenzene	ND	*3	0.00488	0.00462	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00975	0.00261	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,1-Dichloroethane	ND		0.00488	0.00331	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2-Dichloroethane	ND		0.00488	0.00329	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,1-Dichloroethene	ND		0.00488	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
cis-1,2-Dichloroethene	ND		0.00488	0.00282	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
trans-1,2-Dichloroethene	ND		0.00488	0.00303	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2-Dichloropropane	ND		0.00488	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,3-Dichloropropane	ND		0.00488	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
2,2-Dichloropropane	ND		0.00488	0.00336	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,1-Dichloropropene	ND		0.00488	0.00332	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
cis-1,3-Dichloropropene	ND		0.00488	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
trans-1,3-Dichloropropene	ND		0.00488	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Ethylbenzene	ND		0.00488	0.00348	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Hexachlorobutadiene	ND	*3	0.00975	0.00491	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
2-Hexanone (MBK)	ND		0.00975	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Isopropylbenzene	ND		0.00488	0.00369	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
4-Isopropyltoluene	ND	*3	0.00488	0.00479	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Methyl tert-butyl ether	ND		0.00488	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.00975	0.00315	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Methylene Chloride	ND		0.00975	0.00261	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Naphthalene	ND	*3	0.00488	0.00441	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1

Client Sample ID: 2023-SB-11-0406' **Lab Sample ID: 620-10149-15**
Date Collected: 03/06/23 11:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00488	0.00413	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Styrene	ND		0.00488	0.00377	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,1,1,2-Tetrachloroethane	ND		0.00488	0.00366	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00488	0.00447	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Tetrachloroethene	ND		0.00488	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Toluene	ND		0.00488	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2,3-Trichlorobenzene	ND	*3	0.00488	0.00412	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2,4-Trichlorobenzene	ND		0.00488	0.00450	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,3,5-Trichlorobenzene	ND	*3	0.00488	0.00463	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,1,1-Trichloroethane	ND		0.00488	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,1,2-Trichloroethane	ND		0.00488	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Trichloroethene	ND		0.00488	0.00328	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00488	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2,3-Trichloropropane	ND		0.00488	0.00433	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,2,4-Trimethylbenzene	ND		0.00488	0.00413	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,3,5-Trimethylbenzene	ND		0.00488	0.00415	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Vinyl chloride	ND		0.00488	0.00297	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
m,p-Xylene	ND		0.00488	0.00666	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
o-Xylene	ND		0.00488	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Tetrahydrofuran	ND		0.00975	0.00247	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Ethyl ether	ND		0.00488	0.00257	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Tert-amyl methyl ether	ND		0.00488	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Ethyl tert-butyl ether	ND		0.00488	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
di-Isopropyl ether	ND		0.00488	0.00348	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
tert-Butanol	ND		0.0975	0.0261	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,4-Dioxane	ND		0.0975	0.0303	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
trans-1,4-Dichloro-2-butene	ND		0.0244	0.00360	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Ethanol	ND		0.975	0.0605	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
1,3-Dichloropropene, Total	ND		0.00488	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1
Xylenes, Total	ND		0.0146	0.00488	mg/Kg	☼	03/14/23 10:36	03/14/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:18*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:18*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:18*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00554	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Acetone	**0.0401**	**J *3**	0.0554	0.0124	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Acrylonitrile	ND	*3	0.00554	0.00332	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Benzene	ND	*3	0.00554	0.00370	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Bromobenzene	ND	*3	0.00554	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Bromochloromethane	ND	*3	0.00554	0.00314	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Bromodichloromethane	ND	*3	0.00554	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Bromoform	ND	*3	0.00554	0.00423	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Bromomethane	ND	*3	0.0111	0.00690	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
2-Butanone (MEK)	ND	*3	0.0111	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0406'
Date Collected: 03/06/23 11:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-15
Matrix: Solid
Percent Solids: 83.9

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0111	0.00593	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
sec-Butylbenzene	ND	*3	0.00554	0.00446	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
tert-Butylbenzene	ND	*3	0.00554	0.00436	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Carbon disulfide	ND	*3	0.0111	0.00389	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Carbon tetrachloride	ND	*3	0.00554	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Chlorobenzene	ND	*3	0.00554	0.00405	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Chloroethane	ND	*3	0.0111	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Chloroform	ND	*3	0.00554	0.00372	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Chloromethane	ND	*3	0.0111	0.00425	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
2-Chlorotoluene	ND	*3	0.00554	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
4-Chlorotoluene	ND	*3	0.00554	0.00481	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0111	0.00469	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Dibromochloromethane	ND	*3	0.00554	0.00366	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2-Dibromoethane (EDB)	ND	*3	0.00554	0.00398	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Dibromomethane	ND	*3	0.00554	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2-Dichlorobenzene	ND	*3	0.00554	0.00514	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,3-Dichlorobenzene	ND	*3	0.00554	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,4-Dichlorobenzene	ND	*3	0.00554	0.00525	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0111	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,1-Dichloroethane	ND	*3	0.00554	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2-Dichloroethane	ND	*3	0.00554	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,1-Dichloroethene	ND	*3	0.00554	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
cis-1,2-Dichloroethene	ND	*3	0.00554	0.00320	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
trans-1,2-Dichloroethene	ND	*3	0.00554	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2-Dichloropropane	ND	*3	0.00554	0.00366	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,3-Dichloropropane	ND	*3	0.00554	0.00423	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
2,2-Dichloropropane	ND	*3	0.00554	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,1-Dichloropropene	ND	*3	0.00554	0.00376	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
cis-1,3-Dichloropropene	ND	*3	0.00554	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
trans-1,3-Dichloropropene	ND	*3	0.00554	0.00421	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Ethylbenzene	ND	*3	0.00554	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Hexachlorobutadiene	ND	*3	0.0111	0.00557	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
2-Hexanone (MBK)	ND	*3	0.0111	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Isopropylbenzene	ND	*3	0.00554	0.00419	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
4-Isopropyltoluene	ND	*3	0.00554	0.00544	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Methyl tert-butyl ether	ND	*3	0.00554	0.00319	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0111	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Methylene Chloride	ND	*3	0.0111	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Naphthalene	ND	*3	0.00554	0.00500	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
N-Propylbenzene	ND	*3	0.00554	0.00468	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Styrene	ND	*3	0.00554	0.00429	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00554	0.00415	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00554	0.00507	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Tetrachloroethene	ND	*3	0.00554	0.00308	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Toluene	ND	*3	0.00554	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2,3-Trichlorobenzene	ND	*3	0.00554	0.00467	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2,4-Trichlorobenzene	ND	*3	0.00554	0.00510	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,3,5-Trichlorobenzene	ND	*3	0.00554	0.00526	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,1,1-Trichloroethane	ND	*3	0.00554	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1

Client Sample ID: 2023-SB-11-0406' **Lab Sample ID: 620-10149-15**
Date Collected: 03/06/23 11:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00554	0.00417	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Trichloroethene	ND	*3	0.00554	0.00372	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00554	0.00423	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2,3-Trichloropropane	ND	*3	0.00554	0.00492	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,2,4-Trimethylbenzene	ND	*3	0.00554	0.00468	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,3,5-Trimethylbenzene	ND	*3	0.00554	0.00471	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Vinyl chloride	ND	*3	0.00554	0.00338	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
m,p-Xylene	ND	*3	0.00554	0.00756	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
o-Xylene	ND	*3	0.00554	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Tetrahydrofuran	ND	*3	0.0111	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Ethyl ether	ND	*3	0.00554	0.00291	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Tert-amyl methyl ether	ND	*3	0.00554	0.00437	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Ethyl tert-butyl ether	ND	*3	0.00554	0.00364	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
di-Isopropyl ether	ND	*3	0.00554	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
tert-Butanol	ND	*3	0.111	0.0297	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,4-Dioxane	ND	*3	0.111	0.0344	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0277	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Ethanol	ND	*3	1.11	0.0686	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
1,3-Dichloropropene, Total	ND		0.00554	0.00421	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1
Xylenes, Total	ND		0.0166	0.00554	mg/Kg	☼	03/15/23 12:58	03/15/23 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 15:07*	*1*
Toluene-d8 (Surr)	*93*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 15:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*	*3 S1+	*70 - 130*	*03/15/23 12:58*	*03/15/23 15:07*	*1*
Dibromofluoromethane (Surr)	*126*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 15:07*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.388	0.0691	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
1,2,4-Trichlorobenzene	ND		0.388	0.0889	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
1,2-Dichlorobenzene	ND		0.388	0.0748	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
1,3-Dichlorobenzene	ND		0.388	0.0940	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
1,4-Dichlorobenzene	ND		0.388	0.0914	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
1-Methylnaphthalene	ND		0.0785	0.0659	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2,4,5-Trichlorophenol	ND		0.388	0.0445	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2,4,6-Trichlorophenol	ND		0.196	0.0480	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2,4-Dichlorophenol	ND		0.196	0.0782	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2,4-Dimethylphenol	ND		0.388	0.0569	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2,4-Dinitrophenol	ND		0.388	0.102	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2,4-Dinitrotoluene	ND		0.196	0.0460	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2,6-Dinitrotoluene	ND		0.196	0.0460	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2-Chloronaphthalene	ND		0.388	0.0898	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2-Chlorophenol	ND		0.196	0.0804	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2-Methylnaphthalene	ND		0.0785	0.0580	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2-Methylphenol	ND		0.388	0.0567	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2-Nitroaniline	ND		0.388	0.0369	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
2-Nitrophenol	ND		0.196	0.0698	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
3 & 4 Methylphenol	ND		0.388	0.0735	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
3,3'-Dichlorobenzidine	ND		0.388	0.0641	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0406'
Date Collected: 03/06/23 11:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-15
Matrix: Solid
Percent Solids: 83.9

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.388	0.0347	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
4,6-Dinitro-2-methylphenol	ND		0.388	0.0698	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
4-Bromophenyl phenyl ether	ND		0.388	0.0439	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
4-Chloro-3-methylphenol	ND		0.388	0.0760	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
4-Chloroaniline	ND		0.196	0.0298	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
4-Chlorophenyl phenyl ether	ND		0.388	0.0415	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
4-Nitroaniline	ND		0.196	0.0620	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
4-Nitrophenol	ND		0.388	0.135	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Acenaphthene	ND		0.0785	0.0626	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Acenaphthylene	ND		0.0785	0.0515	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Acetophenone	ND		0.196	0.0479	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Aniline	ND		0.388	0.0298	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Anthracene	ND		0.0785	0.0454	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Azobenzene/Diphenyldiazene	ND		0.388	0.0662	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzidine	ND	*- *1	0.776	0.115	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzo[a]anthracene	ND		0.0785	0.0441	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzo[a]pyrene	ND		0.0785	0.0561	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzo[b]fluoranthene	ND		0.0785	0.0651	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzo[g,h,i]perylene	ND		0.0785	0.0613	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzo[k]fluoranthene	ND		0.0785	0.0611	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzoic acid	ND	*- *1	0.388	0.267	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Benzyl alcohol	ND		0.388	0.0704	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Bis(2-chloroethoxy)methane	ND		0.388	0.0675	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Bis(2-chloroethyl)ether	ND		0.196	0.0642	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
bis (2-chloroisopropyl) ether	ND		0.196	0.0874	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Bis(2-ethylhexyl) phthalate	ND		0.196	0.0500	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Butyl benzyl phthalate	ND		0.388	0.0389	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Carbazole	ND		0.196	0.0514	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Chrysene	ND		0.0785	0.0444	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Dibenz(a,h)anthracene	ND		0.0785	0.0599	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Dibenzofuran	ND		0.196	0.0680	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Diethyl phthalate	ND		0.388	0.0426	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Dimethyl phthalate	ND		0.388	0.0506	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Di-n-butyl phthalate	**0.0474**	**J**	0.388	0.0415	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Di-n-octyl phthalate	ND		0.388	0.0641	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Fluoranthene	ND		0.0785	0.0460	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Fluorene	ND		0.0785	0.0716	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Hexachlorobenzene	ND		0.196	0.0545	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Hexachlorobutadiene	ND		0.196	0.0980	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Hexachlorocyclopentadiene	ND		0.196	0.0751	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Hexachloroethane	ND		0.196	0.0772	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0785	0.0666	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Isophorone	ND		0.196	0.0538	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Naphthalene	ND		0.0785	0.0753	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Nitrobenzene	ND		0.196	0.0907	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
N-Nitrosodimethylamine	ND		0.196	0.0515	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
N-Nitrosodi-n-propylamine	ND		0.196	0.0782	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
N-Nitrosodiphenylamine	ND		0.388	0.0495	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Pentachloronitrobenzene	ND		0.388	0.0613	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1

Client Sample ID: 2023-SB-11-0406' **Lab Sample ID: 620-10149-15**
Date Collected: 03/06/23 11:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.388	0.159	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Phenanthrene	ND		0.0785	0.0445	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Phenol	ND		0.388	0.0800	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Pyrene	ND		0.0785	0.0433	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1
Pyridine	ND		0.388	0.0919	mg/Kg	☼	03/20/23 13:14	03/21/23 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:59*	*1*
2-Fluorophenol (Surr)	*48*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:59*	*1*
Nitrobenzene-d5 (Surr)	*34*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:59*	*1*
Phenol-d5 (Surr)	*51*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:59*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*15 - 110*	*03/20/23 13:14*	*03/21/23 17:59*	*1*
Terphenyl-d14	*71*		*30 - 130*	*03/20/23 13:14*	*03/21/23 17:59*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.268	0.137	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.268	0.115	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0536	0.0107	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
Ethylbenzene	ND		0.0536	0.0107	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
Methyl tert-butyl ether	ND		0.0536	0.0107	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
m,p-Xylene	ND		0.107	0.0107	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
Naphthalene	ND		0.0536	0.0364	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
o-Xylene	ND		0.0536	0.0107	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
Toluene	ND		0.0536	0.0107	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
C5-C8 Aliphatics (unadjusted)	ND		0.268	0.137	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
C9-C10 Aromatics	ND		0.268	0.0375	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1
C9-C12 Aliphatics (unadjusted)	ND		0.268	0.115	mg/Kg	☼	03/10/23 07:32	03/11/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/10/23 07:32*	*03/11/23 14:01*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/10/23 07:32*	*03/11/23 14:01*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0225	0.0162	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1221	ND		0.0225	0.00664	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1232	ND		0.0225	0.00623	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1242	ND		0.0225	0.00355	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1248	ND		0.0225	0.00703	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1254	ND		0.0225	0.0175	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1262	ND		0.0225	0.00524	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1260	ND		0.0225	0.00483	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1
PCB-1268	ND		0.0225	0.00479	mg/Kg	☼	03/10/23 15:38	03/14/23 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*03/10/23 15:38*	*03/14/23 20:37*	*1*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/10/23 15:38*	*03/14/23 20:37*	*1*

Client Sample ID: 2023-SB-11-0406' **Lab Sample ID: 620-10149-15**
Date Collected: 03/06/23 11:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	103		30 - 150	03/10/23 15:38	03/14/23 20:37	1
DCB Decachlorobiphenyl (Surr)	107		30 - 150	03/10/23 15:38	03/14/23 20:37	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluoroheptanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorooctanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorononanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorodecanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorotridecanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorotetradecanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorobutanesulfonic acid	ND		2.31	0.463	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorohexanesulfonic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorooctanesulfonic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
NEtFOSAA	ND		2.31	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
NMeFOSAA	ND		2.31	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
10:2 FTS	ND		2.31	0.694	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluoropentanesulfonic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluoroheptanesulfonic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorononanesulfonic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorodecanesulfonic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.31	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorooctanesulfonamide	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorohexadecanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorooctadecanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorobutanoic acid	ND		2.31	0.926	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluoropentanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
NMeFOSE	ND		2.31	0.579	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
NMeFOSA	ND		2.31	0.579	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
NEtFOSE	ND		2.31	0.579	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
NEtFOSA	ND		2.31	0.579	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
HFPODA	ND		2.31	1.16	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
DONA	ND		3.47	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
9Cl-PF3ONS	ND		2.31	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
11Cl-PF3OUdS	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluorododecanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
4:2 Fluorotelomer sulfonic acid	ND		2.31	0.694	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
Perfluoroundecanoic acid	ND		0.694	0.231	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
6:2 Fluorotelomer sulfonic acid	ND		2.31	0.694	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1
8:2 Fluorotelomer sulfonic acid	ND		3.47	0.694	ug/Kg	☼	03/13/23 07:29	03/22/23 18:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	88		10 - 200	03/13/23 07:29	03/22/23 18:59	1
M2-8:2 FTS	80		15 - 200	03/13/23 07:29	03/22/23 18:59	1
M2-6:2 FTS	88		10 - 200	03/13/23 07:29	03/22/23 18:59	1
13C5 PFHxA	84		10 - 174	03/13/23 07:29	03/22/23 18:59	1
13C4 PFHpA	89		10 - 178	03/13/23 07:29	03/22/23 18:59	1
13C8 PFOA	84		26 - 159	03/13/23 07:29	03/22/23 18:59	1

Client Sample ID: 2023-SB-11-0406' **Lab Sample ID: 620-10149-15**
Date Collected: 03/06/23 11:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	79		26 - 165	03/13/23 07:29	03/22/23 18:59	1
13C6 PFDA	85		26 - 161	03/13/23 07:29	03/22/23 18:59	1
13C7 PFUnA	80		12 - 173	03/13/23 07:29	03/22/23 18:59	1
13C2-PFDoDA	80		11 - 166	03/13/23 07:29	03/22/23 18:59	1
13C2 PFTeDA	81		10 - 169	03/13/23 07:29	03/22/23 18:59	1
13C3 PFBS	87		27 - 179	03/13/23 07:29	03/22/23 18:59	1
13C3 PFHxS	89		24 - 171	03/13/23 07:29	03/22/23 18:59	1
13C8 PFOS	91		41 - 154	03/13/23 07:29	03/22/23 18:59	1
d3-NMeFOSAA	34		10 - 178	03/13/23 07:29	03/22/23 18:59	1
d5-NEtFOSAA	34		10 - 193	03/13/23 07:29	03/22/23 18:59	1
13C8 FOSA	72		14 - 163	03/13/23 07:29	03/22/23 18:59	1
13C4 PFBA	76		28 - 153	03/13/23 07:29	03/22/23 18:59	1
13C5 PFPeA	78		24 - 161	03/13/23 07:29	03/22/23 18:59	1
d7-N-MeFOSE-M	72		10 - 179	03/13/23 07:29	03/22/23 18:59	1
d3-NMePFOSA	64		10 - 175	03/13/23 07:29	03/22/23 18:59	1
d9-N-EtFOSE-M	67		10 - 185	03/13/23 07:29	03/22/23 18:59	1
d5-NEtPFOSA	64		10 - 180	03/13/23 07:29	03/22/23 18:59	1
13C3 HFPO-DA	73		10 - 169	03/13/23 07:29	03/22/23 18:59	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.69	1.60	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Arsenic	**1.66**	**J**	2.82	1.31	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Barium	**21.1**		0.469	0.141	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Beryllium	**0.262**	**J**	0.469	0.0938	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Cadmium	ND		0.469	0.0938	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Chromium	**5.28**		1.41	0.328	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Lead	**5.55**		1.41	0.563	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Nickel	**1.95**		0.938	0.244	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Selenium	ND		4.69	1.41	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Silver	ND		0.938	0.375	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Thallium	ND		2.82	1.22	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Vanadium	**6.24**		0.938	0.404	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1
Zinc	**15.4**		1.88	0.751	mg/Kg	☼	03/14/23 09:00	03/15/23 22:39	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0715	0.0238	mg/Kg	☼	03/14/23 07:49	03/14/23 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.1**		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	**83.9**		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0608'
Date Collected: 03/06/23 11:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-16
Matrix: Solid
Percent Solids: 87.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00548	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Acetone	**0.0172**	**J B**	0.0548	0.0123	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Acrylonitrile	ND		0.00548	0.00329	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Benzene	ND		0.00548	0.00366	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Bromobenzene	ND		0.00548	0.00365	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Bromochloromethane	ND		0.00548	0.00311	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Bromodichloromethane	ND		0.00548	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Bromoform	ND		0.00548	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Bromomethane	ND		0.0110	0.00683	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
2-Butanone (MEK)	ND		0.0110	0.00436	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
n-Butylbenzene	ND	*3	0.0110	0.00587	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
sec-Butylbenzene	ND		0.00548	0.00442	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
tert-Butylbenzene	ND		0.00548	0.00432	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Carbon disulfide	ND		0.0110	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Carbon tetrachloride	ND		0.00548	0.00345	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Chlorobenzene	ND		0.00548	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Chloroethane	ND		0.0110	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Chloroform	ND		0.00548	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Chloromethane	ND		0.0110	0.00421	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
2-Chlorotoluene	ND		0.00548	0.00436	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
4-Chlorotoluene	ND		0.00548	0.00476	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.0110	0.00465	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Dibromochloromethane	ND		0.00548	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2-Dibromoethane (EDB)	ND		0.00548	0.00393	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Dibromomethane	ND		0.00548	0.00322	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2-Dichlorobenzene	ND	*3	0.00548	0.00509	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,3-Dichlorobenzene	ND		0.00548	0.00439	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,4-Dichlorobenzene	ND	*3	0.00548	0.00519	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0110	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,1-Dichloroethane	ND		0.00548	0.00372	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2-Dichloroethane	ND		0.00548	0.00369	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,1-Dichloroethene	ND		0.00548	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
cis-1,2-Dichloroethene	ND		0.00548	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
trans-1,2-Dichloroethene	ND		0.00548	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2-Dichloropropane	ND		0.00548	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,3-Dichloropropane	ND		0.00548	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
2,2-Dichloropropane	ND		0.00548	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,1-Dichloropropene	ND		0.00548	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
cis-1,3-Dichloropropene	ND		0.00548	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
trans-1,3-Dichloropropene	ND		0.00548	0.00416	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Ethylbenzene	ND		0.00548	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Hexachlorobutadiene	ND	*3	0.0110	0.00551	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
2-Hexanone (MBK)	ND		0.0110	0.00322	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Isopropylbenzene	ND		0.00548	0.00414	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
4-Isopropyltoluene	ND	*3	0.00548	0.00538	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Methyl tert-butyl ether	ND		0.00548	0.00316	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0110	0.00354	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Methylene Chloride	ND		0.0110	0.00294	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Naphthalene	ND	*3	0.00548	0.00495	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1

Client Sample ID: 2023-SB-11-0608' **Lab Sample ID: 620-10149-16**
Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00548	0.00464	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Styrene	ND		0.00548	0.00424	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,1,1,2-Tetrachloroethane	ND		0.00548	0.00411	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00548	0.00502	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Tetrachloroethene	ND		0.00548	0.00305	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Toluene	ND		0.00548	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2,3-Trichlorobenzene	ND	*3	0.00548	0.00462	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2,4-Trichlorobenzene	ND		0.00548	0.00505	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,3,5-Trichlorobenzene	ND	*3	0.00548	0.00521	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,1,1-Trichloroethane	ND		0.00548	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,1,2-Trichloroethane	ND		0.00548	0.00413	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Trichloroethene	ND		0.00548	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Trichlorofluoromethane (Freon 11)	ND		0.00548	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2,3-Trichloropropane	ND		0.00548	0.00487	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,2,4-Trimethylbenzene	ND		0.00548	0.00464	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,3,5-Trimethylbenzene	ND		0.00548	0.00466	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Vinyl chloride	ND		0.00548	0.00334	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
m,p-Xylene	ND		0.00548	0.00749	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
o-Xylene	ND		0.00548	0.00400	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Tetrahydrofuran	ND		0.0110	0.00277	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Ethyl ether	ND		0.00548	0.00288	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Tert-amyl methyl ether	ND		0.00548	0.00433	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Ethyl tert-butyl ether	ND		0.00548	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
di-Isopropyl ether	ND		0.00548	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
tert-Butanol	ND		0.110	0.0294	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,4-Dioxane	ND		0.110	0.0341	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
trans-1,4-Dichloro-2-butene	ND		0.0274	0.00404	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Ethanol	ND		1.10	0.0679	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
1,3-Dichloropropene, Total	ND		0.00548	0.00416	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1
Xylenes, Total	ND		0.0164	0.00548	mg/Kg	☼	03/14/23 10:36	03/14/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:43*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:43*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/14/23 10:36*	*03/14/23 17:43*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00486	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Acetone	**0.0122**	**J**	0.0486	0.0109	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Acrylonitrile	ND		0.00486	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Benzene	ND		0.00486	0.00325	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Bromobenzene	ND		0.00486	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Bromochloromethane	ND		0.00486	0.00276	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Bromodichloromethane	ND		0.00486	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Bromoform	ND		0.00486	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Bromomethane	ND		0.00972	0.00606	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
2-Butanone (MEK)	ND		0.00972	0.00387	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1

Client Sample ID: 2023-SB-11-0608' **Lab Sample ID: 620-10149-16**
Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.00972	0.00521	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
sec-Butylbenzene	ND		0.00486	0.00392	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
tert-Butylbenzene	ND		0.00486	0.00383	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Carbon disulfide	ND		0.00972	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Carbon tetrachloride	ND		0.00486	0.00306	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Chlorobenzene	ND		0.00486	0.00356	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Chloroethane	ND		0.00972	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Chloroform	ND		0.00486	0.00327	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Chloromethane	ND		0.00972	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
2-Chlorotoluene	ND		0.00486	0.00387	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
4-Chlorotoluene	ND		0.00486	0.00422	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.00972	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Dibromochloromethane	ND		0.00486	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2-Dibromoethane (EDB)	ND		0.00486	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Dibromomethane	ND		0.00486	0.00286	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2-Dichlorobenzene	ND	*3	0.00486	0.00451	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,3-Dichlorobenzene	ND		0.00486	0.00390	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,4-Dichlorobenzene	ND	*3	0.00486	0.00461	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00972	0.00261	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,1-Dichloroethane	ND		0.00486	0.00330	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2-Dichloroethane	ND		0.00486	0.00328	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,1-Dichloroethene	ND		0.00486	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
cis-1,2-Dichloroethene	ND		0.00486	0.00281	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
trans-1,2-Dichloroethene	ND		0.00486	0.00302	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2-Dichloropropane	ND		0.00486	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,3-Dichloropropane	ND		0.00486	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
2,2-Dichloropropane	ND		0.00486	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,1-Dichloropropene	ND		0.00486	0.00331	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
cis-1,3-Dichloropropene	ND		0.00486	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
trans-1,3-Dichloropropene	ND		0.00486	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Ethylbenzene	ND		0.00486	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Hexachlorobutadiene	ND	*3	0.00972	0.00489	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
2-Hexanone (MBK)	ND		0.00972	0.00286	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Isopropylbenzene	ND		0.00486	0.00367	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
4-Isopropyltoluene	ND	*3	0.00486	0.00477	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Methyl tert-butyl ether	ND		0.00486	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.00972	0.00314	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Methylene Chloride	ND		0.00972	0.00261	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Naphthalene	ND	*3	0.00486	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
N-Propylbenzene	ND		0.00486	0.00411	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Styrene	ND		0.00486	0.00376	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,1,1,2-Tetrachloroethane	ND		0.00486	0.00365	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,1,2,2-Tetrachloroethane	ND		0.00486	0.00445	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Tetrachloroethene	ND		0.00486	0.00270	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Toluene	ND		0.00486	0.00308	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2,3-Trichlorobenzene	ND	*3	0.00486	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2,4-Trichlorobenzene	ND		0.00486	0.00448	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,3,5-Trichlorobenzene	ND	*3	0.00486	0.00462	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,1,1-Trichloroethane	ND		0.00486	0.00331	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1

Client Sample ID: 2023-SB-11-0608' **Lab Sample ID: 620-10149-16**
Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00486	0.00366	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Trichloroethene	ND		0.00486	0.00327	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Trichlorofluoromethane (Freon 11)	ND		0.00486	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2,3-Trichloropropane	ND		0.00486	0.00432	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,2,4-Trimethylbenzene	ND		0.00486	0.00411	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,3,5-Trimethylbenzene	ND		0.00486	0.00413	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Vinyl chloride	ND		0.00486	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
m,p-Xylene	ND		0.00486	0.00664	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
o-Xylene	ND		0.00486	0.00355	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Tetrahydrofuran	ND		0.00972	0.00246	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Ethyl ether	ND		0.00486	0.00256	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Tert-amyl methyl ether	ND		0.00486	0.00384	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Ethyl tert-butyl ether	ND		0.00486	0.00320	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
di-Isopropyl ether	ND		0.00486	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
tert-Butanol	ND		0.0972	0.0261	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,4-Dioxane	ND		0.0972	0.0302	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
trans-1,4-Dichloro-2-butene	ND		0.0243	0.00359	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Ethanol	ND		0.972	0.0603	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
1,3-Dichloropropene, Total	ND		0.00486	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1
Xylenes, Total	ND		0.0146	0.00486	mg/Kg	☼	03/15/23 12:58	03/15/23 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:32*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:32*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:32*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.364	0.0648	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
1,2,4-Trichlorobenzene	ND		0.364	0.0835	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
1,2-Dichlorobenzene	ND		0.364	0.0702	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
1,3-Dichlorobenzene	ND		0.364	0.0882	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
1,4-Dichlorobenzene	ND		0.364	0.0858	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
1-Methylnaphthalene	ND		0.0736	0.0618	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2,4,5-Trichlorophenol	ND		0.364	0.0417	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2,4,6-Trichlorophenol	ND		0.184	0.0450	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2,4-Dichlorophenol	ND		0.184	0.0734	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2,4-Dimethylphenol	ND		0.364	0.0534	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2,4-Dinitrophenol	ND		0.364	0.0958	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2,4-Dinitrotoluene	ND		0.184	0.0432	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2,6-Dinitrotoluene	ND		0.184	0.0432	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2-Chloronaphthalene	ND		0.364	0.0842	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2-Chlorophenol	ND		0.184	0.0754	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2-Methylnaphthalene	ND		0.0736	0.0544	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2-Methylphenol	ND		0.364	0.0532	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2-Nitroaniline	ND		0.364	0.0347	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
2-Nitrophenol	ND		0.184	0.0655	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
3 & 4 Methylphenol	ND		0.364	0.0690	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
3,3'-Dichlorobenzidine	ND		0.364	0.0602	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1

Client Sample ID: 2023-SB-11-0608' **Lab Sample ID: 620-10149-16**
Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.364	0.0326	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
4,6-Dinitro-2-methylphenol	ND		0.364	0.0655	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
4-Bromophenyl phenyl ether	ND		0.364	0.0412	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
4-Chloro-3-methylphenol	ND		0.364	0.0713	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
4-Chloroaniline	ND		0.184	0.0279	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
4-Chlorophenyl phenyl ether	ND		0.364	0.0390	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
4-Nitroaniline	ND		0.184	0.0582	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
4-Nitrophenol	ND		0.364	0.127	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Acenaphthene	ND		0.0736	0.0587	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Acenaphthylene	ND		0.0736	0.0484	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Acetophenone	ND		0.184	0.0449	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Aniline	ND		0.364	0.0279	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Anthracene	ND		0.0736	0.0426	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Azobenzene/Diphenyldiazene	ND		0.364	0.0622	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzidine	ND	*- *1	0.729	0.108	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzo[a]anthracene	ND		0.0736	0.0414	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzo[a]pyrene	ND		0.0736	0.0527	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzo[b]fluoranthene	ND		0.0736	0.0611	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzo[g,h,i]perylene	ND		0.0736	0.0575	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzo[k]fluoranthene	ND		0.0736	0.0573	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzoic acid	ND	*- *1	0.364	0.251	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Benzyl alcohol	ND		0.364	0.0660	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Bis(2-chloroethoxy)methane	ND		0.364	0.0634	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Bis(2-chloroethyl)ether	ND		0.184	0.0603	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
bis (2-chloroisopropyl) ether	ND		0.184	0.0820	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Bis(2-ethylhexyl) phthalate	**0.0559**	**J**	0.184	0.0469	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Butyl benzyl phthalate	ND		0.364	0.0365	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Carbazole	ND		0.184	0.0482	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Chrysene	ND		0.0736	0.0416	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Dibenz(a,h)anthracene	ND		0.0736	0.0562	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Dibenzofuran	ND		0.184	0.0638	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Diethyl phthalate	ND		0.364	0.0400	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Dimethyl phthalate	ND		0.364	0.0475	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Di-n-butyl phthalate	**0.0462**	**J**	0.364	0.0390	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Di-n-octyl phthalate	ND		0.364	0.0602	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Fluoranthene	ND		0.0736	0.0432	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Fluorene	ND		0.0736	0.0672	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Hexachlorobenzene	ND		0.184	0.0511	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Hexachlorobutadiene	ND		0.184	0.0920	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Hexachlorocyclopentadiene	ND		0.184	0.0704	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Hexachloroethane	ND		0.184	0.0724	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0736	0.0625	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Isophorone	ND		0.184	0.0505	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Naphthalene	ND		0.0736	0.0707	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Nitrobenzene	ND		0.184	0.0851	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
N-Nitrosodimethylamine	ND		0.184	0.0484	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
N-Nitrosodi-n-propylamine	ND		0.184	0.0734	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
N-Nitrosodiphenylamine	ND		0.364	0.0465	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Pentachloronitrobenzene	ND		0.364	0.0575	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1

Client Sample ID: 2023-SB-11-0608' **Lab Sample ID: 620-10149-16**
Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.364	0.149	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Phenanthrene	ND		0.0736	0.0417	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Phenol	ND		0.364	0.0751	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Pyrene	ND		0.0736	0.0406	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1
Pyridine	ND		0.364	0.0862	mg/Kg	☼	03/20/23 13:14	03/21/23 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*03/20/23 13:14*	*03/21/23 18:27*	*1*
2-Fluorophenol (Surr)	*79*		*15 - 110*	*03/20/23 13:14*	*03/21/23 18:27*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/20/23 13:14*	*03/21/23 18:27*	*1*
Phenol-d5 (Surr)	*75*		*15 - 110*	*03/20/23 13:14*	*03/21/23 18:27*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*	*03/20/23 13:14*	*03/21/23 18:27*	*1*
Terphenyl-d14	*97*		*30 - 130*	*03/20/23 13:14*	*03/21/23 18:27*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.249	0.128	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.249	0.107	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0499	0.00998	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
Ethylbenzene	ND		0.0499	0.00998	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
Methyl tert-butyl ether	ND		0.0499	0.00998	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
m,p-Xylene	ND		0.0998	0.00998	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
Naphthalene	ND		0.0499	0.0339	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
o-Xylene	ND		0.0499	0.00998	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
Toluene	ND		0.0499	0.00998	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
C5-C8 Aliphatics (unadjusted)	ND		0.249	0.128	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
C9-C10 Aromatics	ND		0.249	0.0349	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1
C9-C12 Aliphatics (unadjusted)	ND		0.249	0.107	mg/Kg	☼	03/10/23 07:32	03/11/23 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/10/23 07:32*	*03/11/23 15:19*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/10/23 07:32*	*03/11/23 15:19*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0227	0.0164	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1221	ND		0.0227	0.00672	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1232	ND		0.0227	0.00630	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1242	ND		0.0227	0.00359	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1248	ND		0.0227	0.00710	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1254	**0.261**		0.0227	0.0177	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1262	ND		0.0227	0.00530	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1260	ND		0.0227	0.00489	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1
PCB-1268	ND		0.0227	0.00484	mg/Kg	☼	03/10/23 15:38	03/14/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/10/23 15:38*	*03/14/23 20:56*	*1*
Tetrachloro-m-xylene	*98*		*30 - 150*	*03/10/23 15:38*	*03/14/23 20:56*	*1*

Client Sample ID: 2023-SB-11-0608' **Lab Sample ID: 620-10149-16**
Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	117		30 - 150	03/10/23 15:38	03/14/23 20:56	1
DCB Decachlorobiphenyl (Surr)	121		30 - 150	03/10/23 15:38	03/14/23 20:56	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluoroheptanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorooctanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorononanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorodecanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorotridecanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorotetradecanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorobutanesulfonic acid	ND		2.17	0.434	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorohexanesulfonic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorooctanesulfonic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
NEtFOSAA	ND		2.17	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
NMeFOSAA	ND		2.17	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
10:2 FTS	ND		2.17	0.652	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluoropentanesulfonic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluoroheptanesulfonic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorononanesulfonic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorodecanesulfonic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.17	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorooctanesulfonamide	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorohexadecanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorooctadecanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorobutanoic acid	ND		2.17	0.869	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluoropentanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
NMeFOSE	ND		2.17	0.543	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
NMeFOSA	ND		2.17	0.543	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
NEtFOSE	ND		2.17	0.543	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
NEtFOSA	ND		2.17	0.543	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
HFPODA	ND		2.17	1.09	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
DONA	ND		3.26	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
9Cl-PF3ONS	ND		2.17	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
11Cl-PF3OUdS	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluorododecanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
4:2 Fluorotelomer sulfonic acid	ND		2.17	0.652	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
Perfluoroundecanoic acid	ND		0.652	0.217	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
6:2 Fluorotelomer sulfonic acid	ND		2.17	0.652	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1
8:2 Fluorotelomer sulfonic acid	ND		3.26	0.652	ug/Kg	☼	03/13/23 07:29	03/22/23 19:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	83		10 - 200	03/13/23 07:29	03/22/23 19:10	1
M2-8:2 FTS	85		15 - 200	03/13/23 07:29	03/22/23 19:10	1
M2-6:2 FTS	84		10 - 200	03/13/23 07:29	03/22/23 19:10	1
13C5 PFHxA	89		10 - 174	03/13/23 07:29	03/22/23 19:10	1
13C4 PFHpA	89		10 - 178	03/13/23 07:29	03/22/23 19:10	1
13C8 PFOA	85		26 - 159	03/13/23 07:29	03/22/23 19:10	1

Client Sample ID: 2023-SB-11-0608' **Lab Sample ID: 620-10149-16**
Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	85		26 - 165	03/13/23 07:29	03/22/23 19:10	1
13C6 PFDA	88		26 - 161	03/13/23 07:29	03/22/23 19:10	1
13C7 PFUnA	84		12 - 173	03/13/23 07:29	03/22/23 19:10	1
13C2-PFDoDA	86		11 - 166	03/13/23 07:29	03/22/23 19:10	1
13C2 PFTeDA	86		10 - 169	03/13/23 07:29	03/22/23 19:10	1
13C3 PFBS	87		27 - 179	03/13/23 07:29	03/22/23 19:10	1
13C3 PFHxS	88		24 - 171	03/13/23 07:29	03/22/23 19:10	1
13C8 PFOS	87		41 - 154	03/13/23 07:29	03/22/23 19:10	1
d3-NMeFOSAA	21		10 - 178	03/13/23 07:29	03/22/23 19:10	1
d5-NEtFOSAA	28		10 - 193	03/13/23 07:29	03/22/23 19:10	1
13C8 FOSA	81		14 - 163	03/13/23 07:29	03/22/23 19:10	1
13C4 PFBA	80		28 - 153	03/13/23 07:29	03/22/23 19:10	1
13C5 PFPeA	81		24 - 161	03/13/23 07:29	03/22/23 19:10	1
d7-N-MeFOSE-M	79		10 - 179	03/13/23 07:29	03/22/23 19:10	1
d3-NMePFOSA	81		10 - 175	03/13/23 07:29	03/22/23 19:10	1
d9-N-EtFOSE-M	75		10 - 185	03/13/23 07:29	03/22/23 19:10	1
d5-NEtPFOSA	80		10 - 180	03/13/23 07:29	03/22/23 19:10	1
13C3 HFPO-DA	83		10 - 169	03/13/23 07:29	03/22/23 19:10	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.64	1.92	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Arsenic	**1.92**	**J**	3.39	1.58	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Barium	**23.2**		0.564	0.169	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Beryllium	**0.388**	**J**	0.564	0.113	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Cadmium	ND		0.564	0.113	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Chromium	**8.28**		1.69	0.395	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Lead	**7.58**		1.69	0.677	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Nickel	**2.45**		1.13	0.294	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Selenium	ND		5.64	1.69	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Silver	ND		1.13	0.452	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Thallium	ND		3.39	1.47	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Vanadium	**6.33**		1.13	0.485	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1
Zinc	**13.4**		2.26	0.903	mg/Kg	☼	03/14/23 09:00	03/15/23 23:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0662	0.0221	mg/Kg	☼	03/14/23 07:49	03/14/23 13:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.3**		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	**87.7**		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0810'
Date Collected: 03/06/23 11:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-17
Matrix: Solid
Percent Solids: 86.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00495	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Acetone	ND		0.0495	0.0111	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Acrylonitrile	ND		0.00495	0.00297	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Benzene	ND		0.00495	0.00331	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Bromobenzene	ND		0.00495	0.00330	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Bromochloromethane	ND		0.00495	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Bromodichloromethane	ND		0.00495	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Bromoform	ND		0.00495	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Bromomethane	ND		0.00990	0.00617	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
2-Butanone (MEK)	ND		0.00990	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
n-Butylbenzene	ND		0.00990	0.00531	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
sec-Butylbenzene	ND		0.00495	0.00399	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
tert-Butylbenzene	ND		0.00495	0.00390	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Carbon disulfide	ND		0.00990	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Carbon tetrachloride	ND		0.00495	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Chlorobenzene	ND		0.00495	0.00362	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Chloroethane	ND		0.00990	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Chloroform	ND		0.00495	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Chloromethane	ND		0.00990	0.00380	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
2-Chlorotoluene	ND		0.00495	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
4-Chlorotoluene	ND		0.00495	0.00430	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2-Dibromo-3-Chloropropane	ND	*+	0.00990	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Dibromochloromethane	ND		0.00495	0.00328	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2-Dibromoethane (EDB)	ND		0.00495	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Dibromomethane	ND		0.00495	0.00291	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2-Dichlorobenzene	ND		0.00495	0.00459	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,3-Dichlorobenzene	ND		0.00495	0.00397	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,4-Dichlorobenzene	ND		0.00495	0.00469	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00990	0.00265	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,1-Dichloroethane	ND		0.00495	0.00336	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2-Dichloroethane	ND		0.00495	0.00334	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,1-Dichloroethene	ND		0.00495	0.00303	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
cis-1,2-Dichloroethene	ND		0.00495	0.00286	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
trans-1,2-Dichloroethene	ND		0.00495	0.00308	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2-Dichloropropane	ND		0.00495	0.00328	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,3-Dichloropropane	ND		0.00495	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
2,2-Dichloropropane	ND		0.00495	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,1-Dichloropropene	ND		0.00495	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
cis-1,3-Dichloropropene	ND		0.00495	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
trans-1,3-Dichloropropene	ND		0.00495	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Ethylbenzene	ND		0.00495	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Hexachlorobutadiene	ND		0.00990	0.00498	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
2-Hexanone (MBK)	ND		0.00990	0.00291	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Isopropylbenzene	ND		0.00495	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
4-Isopropyltoluene	ND		0.00495	0.00486	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Methyl tert-butyl ether	ND		0.00495	0.00285	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.00990	0.00320	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Methylene Chloride	ND		0.00990	0.00265	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Naphthalene	ND		0.00495	0.00447	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1

Client Sample ID: 2023-SB-11-0810' **Lab Sample ID: 620-10149-17**
Date Collected: 03/06/23 11:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00495	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Styrene	ND		0.00495	0.00383	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,1,1,2-Tetrachloroethane	ND		0.00495	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00495	0.00453	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Tetrachloroethene	ND		0.00495	0.00275	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Toluene	ND		0.00495	0.00314	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2,3-Trichlorobenzene	ND		0.00495	0.00418	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2,4-Trichlorobenzene	ND		0.00495	0.00456	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,3,5-Trichlorobenzene	ND		0.00495	0.00470	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,1,1-Trichloroethane	ND		0.00495	0.00338	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,1,2-Trichloroethane	ND		0.00495	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Trichloroethene	ND		0.00495	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Trichlorofluoromethane (Freon 11)	ND		0.00495	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2,3-Trichloropropane	ND		0.00495	0.00440	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,2,4-Trimethylbenzene	ND		0.00495	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,3,5-Trimethylbenzene	ND		0.00495	0.00421	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Vinyl chloride	ND		0.00495	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
m,p-Xylene	ND		0.00495	0.00676	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
o-Xylene	ND		0.00495	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Tetrahydrofuran	ND		0.00990	0.00250	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Ethyl ether	ND		0.00495	0.00260	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Tert-amyl methyl ether	ND		0.00495	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Ethyl tert-butyl ether	ND		0.00495	0.00326	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
di-Isopropyl ether	ND		0.00495	0.00353	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
tert-Butanol	ND		0.0990	0.0265	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,4-Dioxane	ND		0.0990	0.0308	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
trans-1,4-Dichloro-2-butene	ND		0.0247	0.00365	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Ethanol	ND		0.990	0.0614	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
1,3-Dichloropropene, Total	ND		0.00495	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1
Xylenes, Total	ND		0.0148	0.00495	mg/Kg	☼	03/14/23 10:36	03/14/23 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:09*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:09*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:09*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.377	0.0671	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
1,2,4-Trichlorobenzene	ND		0.377	0.0865	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
1,2-Dichlorobenzene	ND		0.377	0.0727	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
1,3-Dichlorobenzene	ND		0.377	0.0914	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
1,4-Dichlorobenzene	ND		0.377	0.0889	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
1-Methylnaphthalene	ND		0.0763	0.0640	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2,4,5-Trichlorophenol	ND		0.377	0.0432	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2,4,6-Trichlorophenol	ND		0.191	0.0467	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2,4-Dichlorophenol	ND		0.191	0.0761	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2,4-Dimethylphenol	ND		0.377	0.0554	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2,4-Dinitrophenol	ND		0.377	0.0993	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0810'
Date Collected: 03/06/23 11:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-17
Matrix: Solid
Percent Solids: 86.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2,6-Dinitrotoluene	ND		0.191	0.0447	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2-Chloronaphthalene	ND		0.377	0.0873	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2-Chlorophenol	ND		0.191	0.0781	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2-Methylnaphthalene	ND		0.0763	0.0564	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2-Methylphenol	ND		0.377	0.0551	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2-Nitroaniline	ND		0.377	0.0359	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
2-Nitrophenol	ND		0.191	0.0678	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
3 & 4 Methylphenol	ND		0.377	0.0715	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
3,3'-Dichlorobenzidine	ND		0.377	0.0623	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
3-Nitroaniline	ND		0.377	0.0337	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
4,6-Dinitro-2-methylphenol	ND		0.377	0.0678	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
4-Bromophenyl phenyl ether	ND		0.377	0.0427	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
4-Chloro-3-methylphenol	ND		0.377	0.0739	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
4-Chloroaniline	ND		0.191	0.0289	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
4-Chlorophenyl phenyl ether	ND		0.377	0.0404	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
4-Nitroaniline	ND		0.191	0.0603	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
4-Nitrophenol	ND		0.377	0.132	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Acenaphthene	ND		0.0763	0.0608	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Acenaphthylene	ND		0.0763	0.0501	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Acetophenone	ND		0.191	0.0466	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Aniline	ND		0.377	0.0289	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Anthracene	ND		0.0763	0.0441	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Azobenzene/Diphenyldiazene	ND		0.377	0.0644	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzidine	ND	*- *1	0.755	0.112	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzo[a]anthracene	ND		0.0763	0.0429	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzo[a]pyrene	ND		0.0763	0.0546	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzo[b]fluoranthene	ND		0.0763	0.0632	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzo[g,h,i]perylene	ND		0.0763	0.0596	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzo[k]fluoranthene	ND		0.0763	0.0594	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzoic acid	ND	*- *1	0.377	0.260	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Benzyl alcohol	ND		0.377	0.0684	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Bis(2-chloroethoxy)methane	ND		0.377	0.0657	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Bis(2-chloroethyl)ether	ND		0.191	0.0624	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
bis (2-chloroisopropyl) ether	ND		0.191	0.0850	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Bis(2-ethylhexyl) phthalate	ND		0.191	0.0486	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Butyl benzyl phthalate	ND		0.377	0.0379	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Carbazole	ND		0.191	0.0500	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Chrysene	ND		0.0763	0.0431	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Dibenz(a,h)anthracene	ND		0.0763	0.0582	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Dibenzofuran	ND		0.191	0.0661	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Diethyl phthalate	ND		0.377	0.0414	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Dimethyl phthalate	ND		0.377	0.0492	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Di-n-butyl phthalate	ND		0.377	0.0404	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Di-n-octyl phthalate	ND		0.377	0.0623	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Fluoranthene	ND		0.0763	0.0447	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Fluorene	ND		0.0763	0.0697	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Hexachlorobenzene	ND		0.191	0.0530	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Hexachlorobutadiene	ND		0.191	0.0953	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1

Client Sample ID: 2023-SB-11-0810' **Lab Sample ID: 620-10149-17**
Date Collected: 03/06/23 11:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.191	0.0730	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Hexachloroethane	ND		0.191	0.0750	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Indeno[1,2,3-cd]pyrene	ND		0.0763	0.0647	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Isophorone	ND		0.191	0.0523	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Naphthalene	ND		0.0763	0.0732	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Nitrobenzene	ND		0.191	0.0882	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
N-Nitrosodimethylamine	ND		0.191	0.0501	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
N-Nitrosodi-n-propylamine	ND		0.191	0.0761	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
N-Nitrosodiphenylamine	ND		0.377	0.0482	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Pentachloronitrobenzene	ND		0.377	0.0596	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Pentachlorophenol	ND		0.377	0.154	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Phenanthrene	ND		0.0763	0.0432	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Phenol	ND		0.377	0.0778	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Pyrene	ND		0.0763	0.0421	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1
Pyridine	ND		0.377	0.0893	mg/Kg	☼	03/20/23 13:14	03/21/23 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/20/23 13:14*	*03/21/23 18:56*	*1*
2-Fluorophenol (Surr)	*86*		*15 - 110*	*03/20/23 13:14*	*03/21/23 18:56*	*1*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*	*03/20/23 13:14*	*03/21/23 18:56*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/20/23 13:14*	*03/21/23 18:56*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/20/23 13:14*	*03/21/23 18:56*	*1*
Terphenyl-d14	*100*		*30 - 130*	*03/20/23 13:14*	*03/21/23 18:56*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.238	0.122	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.238	0.102	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0476	0.00953	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
Ethylbenzene	ND		0.0476	0.00953	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
Methyl tert-butyl ether	ND		0.0476	0.00953	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
m,p-Xylene	ND		0.0953	0.00953	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
Naphthalene	ND		0.0476	0.0324	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
o-Xylene	ND		0.0476	0.00953	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
Toluene	ND		0.0476	0.00953	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
C5-C8 Aliphatics (unadjusted)	ND		0.238	0.122	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
C9-C10 Aromatics	ND		0.238	0.0333	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1
C9-C12 Aliphatics (unadjusted)	ND		0.238	0.102	mg/Kg	☼	03/10/23 07:32	03/11/23 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/10/23 07:32*	*03/11/23 15:58*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/10/23 07:32*	*03/11/23 15:58*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0224	0.0162	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1
PCB-1221	ND		0.0224	0.00663	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1
PCB-1232	ND		0.0224	0.00622	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1

Client Sample ID: 2023-SB-11-0810'
Lab Sample ID: 620-10149-17
Date Collected: 03/06/23 11:10
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 86.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0224	0.00355	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1
PCB-1248	ND		0.0224	0.00701	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1
PCB-1254	ND		0.0224	0.0175	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1
PCB-1262	ND		0.0224	0.00523	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1
PCB-1260	ND		0.0224	0.00483	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1
PCB-1268	ND		0.0224	0.00478	mg/Kg	☼	03/10/23 15:38	03/14/23 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:15*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:15*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:15*	*1*
DCB Decachlorobiphenyl (Surr)	*123*		*30 - 150*	*03/10/23 15:38*	*03/14/23 21:15*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluoroheptanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorooctanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorononanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorodecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorotridecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorotetradecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorobutanesulfonic acid	ND		2.25	0.451	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorohexanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorooctanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
NEtFOSAA	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
NMeFOSAA	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
10:2 FTS	ND		2.25	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluoropentanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluoroheptanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorononanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorodecanesulfonic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorooctanesulfonamide	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorohexadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorooctadecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorobutanoic acid	ND		2.25	0.901	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluoropentanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
NMeFOSE	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
NMeFOSA	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
NEtFOSE	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
NEtFOSA	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
HFPODA	ND		2.25	1.13	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
DONA	ND		3.38	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
9Cl-PF3ONS	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
11Cl-PF3OUdS	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluorododecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
4:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
Perfluoroundecanoic acid	ND		0.676	0.225	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1

Client Sample ID: 2023-SB-11-0810' **Lab Sample ID: 620-10149-17**
Date Collected: 03/06/23 11:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.25	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.676	ug/Kg	☼	03/13/23 07:29	03/22/23 19:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*88*		*10 - 200*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
M2-8:2 FTS	*85*		*15 - 200*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
M2-6:2 FTS	*90*		*10 - 200*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C5 PFHxA	*99*		*10 - 174*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C4 PFHpA	*97*		*10 - 178*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C8 PFOA	*89*		*26 - 159*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C9 PFNA	*96*		*26 - 165*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C6 PFDA	*90*		*26 - 161*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C7 PFUnA	*85*		*12 - 173*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C2-PFDoDA	*89*		*11 - 166*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C2 PFTeDA	*86*		*10 - 169*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C3 PFBS	*86*		*27 - 179*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C3 PFHxS	*87*		*24 - 171*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C8 PFOS	*89*		*41 - 154*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
d3-NMeFOSAA	*44*		*10 - 178*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
d5-NEtFOSAA	*45*		*10 - 193*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C8 FOSA	*81*		*14 - 163*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C4 PFBA	*92*		*28 - 153*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C5 PFPeA	*91*		*24 - 161*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
d7-N-MeFOSE-M	*78*		*10 - 179*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
d9-N-EtFOSE-M	*76*		*10 - 185*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
d5-NEtPFOSA	*74*		*10 - 180*	*03/13/23 07:29*	*03/22/23 19:21*	*1*
13C3 HFPO-DA	*90*		*10 - 169*	*03/13/23 07:29*	*03/22/23 19:21*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.13	1.75	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Arsenic	**3.50**		3.08	1.44	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Barium	**64.9**		0.513	0.154	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Beryllium	**0.796**		0.513	0.103	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Cadmium	ND		0.513	0.103	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Chromium	**17.5**		1.54	0.359	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Lead	**6.66**		1.54	0.616	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Nickel	**10.2**		1.03	0.267	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Selenium	ND		5.13	1.54	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Silver	ND		1.03	0.411	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Thallium	ND		30.8	13.3	mg/Kg	☼	03/14/23 09:00	03/15/23 23:18	10
Vanadium	**27.2**		1.03	0.441	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1
Zinc	**34.4**		2.05	0.821	mg/Kg	☼	03/14/23 09:00	03/15/23 23:14	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0653	0.0218	mg/Kg	☼	03/14/23 07:49	03/14/23 13:45	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-0810'
Date Collected: 03/06/23 11:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-17
Matrix: Solid
Percent Solids: 86.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.8		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	86.2		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-1012'
Date Collected: 03/06/23 11:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-18
Matrix: Solid
Percent Solids: 76.2

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00450	0.00293	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Acetone	ND		0.0450	0.0101	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Acrylonitrile	ND		0.00450	0.00270	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Benzene	ND		0.00450	0.00301	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Bromobenzene	ND		0.00450	0.00300	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Bromochloromethane	ND		0.00450	0.00256	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Bromodichloromethane	ND		0.00450	0.00330	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Bromoform	ND		0.00450	0.00344	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Bromomethane	ND		0.00900	0.00561	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
2-Butanone (MEK)	ND		0.00900	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
n-Butylbenzene	ND		0.00900	0.00482	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
sec-Butylbenzene	ND		0.00450	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
tert-Butylbenzene	ND		0.00450	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Carbon disulfide	ND		0.00900	0.00316	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Carbon tetrachloride	ND		0.00450	0.00283	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Chlorobenzene	ND		0.00450	0.00329	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Chloroethane	ND		0.00900	0.00330	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Chloroform	ND		0.00450	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Chloromethane	ND		0.00900	0.00346	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
2-Chlorotoluene	ND		0.00450	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
4-Chlorotoluene	ND		0.00450	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2-Dibromo-3-Chloropropane	ND	*+	0.00900	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Dibromochloromethane	ND		0.00450	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2-Dibromoethane (EDB)	ND		0.00450	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Dibromomethane	ND		0.00450	0.00265	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2-Dichlorobenzene	ND		0.00450	0.00418	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,3-Dichlorobenzene	ND		0.00450	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,4-Dichlorobenzene	ND		0.00450	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00900	0.00241	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,1-Dichloroethane	ND		0.00450	0.00305	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2-Dichloroethane	ND		0.00450	0.00303	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,1-Dichloroethene	ND		0.00450	0.00275	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
cis-1,2-Dichloroethene	ND		0.00450	0.00260	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
trans-1,2-Dichloroethene	ND		0.00450	0.00280	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2-Dichloropropane	ND		0.00450	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,3-Dichloropropane	ND		0.00450	0.00344	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
2,2-Dichloropropane	ND		0.00450	0.00310	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,1-Dichloropropene	ND		0.00450	0.00306	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
cis-1,3-Dichloropropene	ND		0.00450	0.00293	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
trans-1,3-Dichloropropene	ND		0.00450	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Ethylbenzene	ND		0.00450	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Hexachlorobutadiene	ND		0.00900	0.00453	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
2-Hexanone (MBK)	ND		0.00900	0.00265	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Isopropylbenzene	ND		0.00450	0.00340	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
4-Isopropyltoluene	ND		0.00450	0.00442	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Methyl tert-butyl ether	ND		0.00450	0.00259	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.00900	0.00291	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Methylene Chloride	ND		0.00900	0.00241	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Naphthalene	ND		0.00450	0.00407	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1

Client Sample ID: 2023-SB-11-1012' **Lab Sample ID: 620-10149-18**
Date Collected: 03/06/23 11:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 76.2**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00450	0.00381	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Styrene	ND		0.00450	0.00348	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,1,1,2-Tetrachloroethane	ND		0.00450	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00450	0.00412	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Tetrachloroethene	ND		0.00450	0.00250	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Toluene	ND		0.00450	0.00285	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2,3-Trichlorobenzene	ND		0.00450	0.00380	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2,4-Trichlorobenzene	ND		0.00450	0.00415	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,3,5-Trichlorobenzene	ND		0.00450	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,1,1-Trichloroethane	ND		0.00450	0.00307	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,1,2-Trichloroethane	ND		0.00450	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Trichloroethene	ND		0.00450	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Trichlorofluoromethane (Freon 11)	ND		0.00450	0.00344	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2,3-Trichloropropane	ND		0.00450	0.00400	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,2,4-Trimethylbenzene	ND		0.00450	0.00381	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,3,5-Trimethylbenzene	ND		0.00450	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Vinyl chloride	ND		0.00450	0.00274	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
m,p-Xylene	ND		0.00450	0.00615	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
o-Xylene	ND		0.00450	0.00328	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Tetrahydrofuran	ND		0.00900	0.00228	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Ethyl ether	ND		0.00450	0.00237	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Tert-amyl methyl ether	ND		0.00450	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Ethyl tert-butyl ether	ND		0.00450	0.00296	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
di-Isopropyl ether	ND		0.00450	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
tert-Butanol	ND		0.0900	0.0241	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,4-Dioxane	ND		0.0900	0.0280	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
trans-1,4-Dichloro-2-butene	ND		0.0225	0.00332	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Ethanol	ND		0.900	0.0558	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
1,3-Dichloropropene, Total	ND		0.00450	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1
Xylenes, Total	ND		0.0135	0.00450	mg/Kg	☼	03/14/23 10:36	03/14/23 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:35*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:35*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/14/23 10:36*	*03/14/23 18:35*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.433	0.0770	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
1,2,4-Trichlorobenzene	ND		0.433	0.0991	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
1,2-Dichlorobenzene	ND		0.433	0.0834	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
1,3-Dichlorobenzene	ND		0.433	0.105	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
1,4-Dichlorobenzene	ND		0.433	0.102	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
1-Methylnaphthalene	ND		0.0874	0.0734	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2,4,5-Trichlorophenol	ND		0.433	0.0496	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2,4,6-Trichlorophenol	ND		0.219	0.0535	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2,4-Dichlorophenol	ND		0.219	0.0872	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2,4-Dimethylphenol	ND		0.433	0.0635	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2,4-Dinitrophenol	ND		0.433	0.114	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-1012'
Date Collected: 03/06/23 11:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-18
Matrix: Solid
Percent Solids: 76.2

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.219	0.0513	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2,6-Dinitrotoluene	ND		0.219	0.0513	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2-Chloronaphthalene	ND		0.433	0.100	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2-Chlorophenol	ND		0.219	0.0895	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2-Methylnaphthalene	ND		0.0874	0.0646	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2-Methylphenol	ND		0.433	0.0632	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2-Nitroaniline	ND		0.433	0.0412	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
2-Nitrophenol	ND		0.219	0.0777	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
3 & 4 Methylphenol	ND		0.433	0.0819	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
3,3'-Dichlorobenzidine	ND		0.433	0.0715	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
3-Nitroaniline	ND		0.433	0.0387	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
4,6-Dinitro-2-methylphenol	ND		0.433	0.0777	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
4-Bromophenyl phenyl ether	ND		0.433	0.0489	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
4-Chloro-3-methylphenol	ND		0.433	0.0847	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
4-Chloroaniline	ND		0.219	0.0332	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
4-Chlorophenyl phenyl ether	ND		0.433	0.0463	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
4-Nitroaniline	ND		0.219	0.0691	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
4-Nitrophenol	ND		0.433	0.151	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Acenaphthene	ND		0.0874	0.0697	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Acenaphthylene	ND		0.0874	0.0574	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Acetophenone	ND		0.219	0.0534	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Aniline	ND		0.433	0.0332	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Anthracene	ND		0.0874	0.0506	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Azobenzene/Diphenyldiazene	ND		0.433	0.0738	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzidine	ND	*- *1	0.865	0.128	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzo[a]anthracene	ND		0.0874	0.0492	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzo[a]pyrene	ND		0.0874	0.0625	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzo[b]fluoranthene	ND		0.0874	0.0725	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzo[g,h,i]perylene	ND		0.0874	0.0683	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzo[k]fluoranthene	ND		0.0874	0.0680	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzoic acid	ND	*- *1	0.433	0.298	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Benzyl alcohol	ND		0.433	0.0784	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Bis(2-chloroethoxy)methane	ND		0.433	0.0753	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Bis(2-chloroethyl)ether	ND		0.219	0.0716	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
bis (2-chloroisopropyl) ether	ND		0.219	0.0974	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Bis(2-ethylhexyl) phthalate	ND		0.219	0.0557	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Butyl benzyl phthalate	ND		0.433	0.0434	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Carbazole	ND		0.219	0.0573	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Chrysene	ND		0.0874	0.0494	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Dibenz(a,h)anthracene	ND		0.0874	0.0667	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Dibenzofuran	ND		0.219	0.0758	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Diethyl phthalate	ND		0.433	0.0475	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Dimethyl phthalate	ND		0.433	0.0564	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Di-n-butyl phthalate	ND		0.433	0.0463	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Di-n-octyl phthalate	ND		0.433	0.0715	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Fluoranthene	ND		0.0874	0.0513	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Fluorene	ND		0.0874	0.0798	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Hexachlorobenzene	ND		0.219	0.0607	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Hexachlorobutadiene	ND		0.219	0.109	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1

Client Sample ID: 2023-SB-11-1012' **Lab Sample ID: 620-10149-18**
Date Collected: 03/06/23 11:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 76.2**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.219	0.0836	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Hexachloroethane	ND		0.219	0.0860	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Indeno[1,2,3-cd]pyrene	ND		0.0874	0.0742	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Isophorone	ND		0.219	0.0599	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Naphthalene	ND		0.0874	0.0839	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Nitrobenzene	ND		0.219	0.101	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
N-Nitrosodimethylamine	ND		0.219	0.0574	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
N-Nitrosodi-n-propylamine	ND		0.219	0.0872	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
N-Nitrosodiphenylamine	ND		0.433	0.0552	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Pentachloronitrobenzene	ND		0.433	0.0683	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Pentachlorophenol	ND		0.433	0.177	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Phenanthrene	ND		0.0874	0.0496	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Phenol	ND		0.433	0.0892	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Pyrene	ND		0.0874	0.0482	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1
Pyridine	ND		0.433	0.102	mg/Kg	☼	03/20/23 13:14	03/21/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/20/23 13:14*	*03/21/23 19:24*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/20/23 13:14*	*03/21/23 19:24*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/20/23 13:14*	*03/21/23 19:24*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/20/23 13:14*	*03/21/23 19:24*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/20/23 13:14*	*03/21/23 19:24*	*1*
Terphenyl-d14	*79*		*30 - 130*	*03/20/23 13:14*	*03/21/23 19:24*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.239	0.122	mg/Kg			03/13/23 11:08	1
C9-C12 Aliphatics (adjusted)	ND		0.239	0.102	mg/Kg			03/13/23 11:08	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0478	0.00955	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
Ethylbenzene	ND		0.0478	0.00955	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
Methyl tert-butyl ether	ND		0.0478	0.00955	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
m,p-Xylene	ND		0.0955	0.00955	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
Naphthalene	ND		0.0478	0.0325	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
o-Xylene	ND		0.0478	0.00955	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
Toluene	ND		0.0478	0.00955	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
C5-C8 Aliphatics (unadjusted)	ND		0.239	0.122	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
C9-C10 Aromatics	ND		0.239	0.0334	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1
C9-C12 Aliphatics (unadjusted)	ND		0.239	0.102	mg/Kg	☼	03/10/23 07:32	03/11/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/10/23 07:32*	*03/11/23 16:38*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/10/23 07:32*	*03/11/23 16:38*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0261	0.0188	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1
PCB-1221	ND		0.0261	0.00770	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1
PCB-1232	ND		0.0261	0.00722	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1

Client Sample ID: 2023-SB-11-1012' **Lab Sample ID: 620-10149-18**
Date Collected: 03/06/23 11:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 76.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0261	0.00412	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1
PCB-1248	ND		0.0261	0.00814	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1
PCB-1254	**0.0909**		0.0261	0.0203	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1
PCB-1262	ND		0.0261	0.00607	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1
PCB-1260	ND		0.0261	0.00560	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1
PCB-1268	ND		0.0261	0.00555	mg/Kg	☼	03/10/23 15:43	03/14/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:07*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:07*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:07*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:07*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluoroheptanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorooctanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorononanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorodecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorotridecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorotetradecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorobutanesulfonic acid	ND		2.48	0.495	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorohexanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorooctanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
NEtFOSAA	ND		2.48	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
NMeFOSAA	ND		2.48	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
10:2 FTS	ND		2.48	0.743	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluoropentanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluoroheptanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorononanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorodecanesulfonic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.48	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorooctanesulfonamide	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorohexadecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorooctadecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorobutanoic acid	ND		2.48	0.990	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluoropentanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
NMeFOSE	ND		2.48	0.619	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
NMeFOSA	ND		2.48	0.619	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
NEtFOSE	ND		2.48	0.619	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
NEtFOSA	ND		2.48	0.619	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
HFPODA	ND		2.48	1.24	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
DONA	ND		3.71	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
9Cl-PF3ONS	ND		2.48	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
11Cl-PF3OUdS	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluorododecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
4:2 Fluorotelomer sulfonic acid	ND		2.48	0.743	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
Perfluoroundecanoic acid	ND		0.743	0.248	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1

Client Sample ID: 2023-SB-11-1012' **Lab Sample ID: 620-10149-18**
Date Collected: 03/06/23 11:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 76.2**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.48	0.743	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1
8:2 Fluorotelomer sulfonic acid	ND		3.71	0.743	ug/Kg	☼	03/13/23 07:29	03/22/23 19:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*83*		*10 - 200*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
M2-8:2 FTS	*73*		*15 - 200*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
M2-6:2 FTS	*81*		*10 - 200*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C5 PFHxA	*87*		*10 - 174*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C4 PFHpA	*87*		*10 - 178*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C8 PFOA	*86*		*26 - 159*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C9 PFNA	*87*		*26 - 165*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C6 PFDA	*84*		*26 - 161*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C7 PFUnA	*79*		*12 - 173*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C2-PFDoDA	*74*		*11 - 166*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C2 PFTeDA	*75*		*10 - 169*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C3 PFBS	*77*		*27 - 179*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C3 PFHxS	*80*		*24 - 171*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C8 PFOS	*76*		*41 - 154*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
d3-NMeFOSAA	*55*		*10 - 178*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
d5-NEtFOSAA	*58*		*10 - 193*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C8 FOSA	*72*		*14 - 163*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C4 PFBA	*83*		*28 - 153*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
d7-N-MeFOSE-M	*74*		*10 - 179*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
d3-NMePFOSA	*71*		*10 - 175*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
d9-N-EtFOSE-M	*70*		*10 - 185*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
d5-NEtPFOSA	*70*		*10 - 180*	*03/13/23 07:29*	*03/22/23 19:32*	*1*
13C3 HFPO-DA	*81*		*10 - 169*	*03/13/23 07:29*	*03/22/23 19:32*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.05	1.72	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Arsenic	**2.89**	**J**	3.03	1.41	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Barium	**49.3**		0.505	0.151	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Beryllium	**0.675**		0.505	0.101	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Cadmium	ND		0.505	0.101	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Chromium	**15.4**		1.51	0.353	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Lead	**6.14**		1.51	0.606	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Nickel	**6.16**		1.01	0.262	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Selenium	ND		5.05	1.51	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Silver	ND		1.01	0.404	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Thallium	ND		30.3	13.1	mg/Kg	☼	03/14/23 09:00	03/15/23 21:54	10
Vanadium	**17.7**		1.01	0.434	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1
Zinc	**22.0**		2.02	0.807	mg/Kg	☼	03/14/23 09:00	03/15/23 21:51	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0774	0.0258	mg/Kg	☼	03/14/23 07:49	03/14/23 13:41	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-11-1012'
Date Collected: 03/06/23 11:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-18
Matrix: Solid
Percent Solids: 76.2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	23.8		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	76.2		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0002'
Date Collected: 03/06/23 12:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-19
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00555	0.00362	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Acetone	ND		0.0555	0.0124	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Acrylonitrile	ND		0.00555	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Benzene	ND		0.00555	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Bromobenzene	ND		0.00555	0.00370	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Bromochloromethane	ND		0.00555	0.00316	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Bromodichloromethane	ND		0.00555	0.00408	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Bromoform	ND		0.00555	0.00424	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Bromomethane	ND		0.0111	0.00692	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
2-Butanone (MEK)	ND		0.0111	0.00442	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
n-Butylbenzene	ND		0.0111	0.00595	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
sec-Butylbenzene	ND		0.00555	0.00448	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
tert-Butylbenzene	ND		0.00555	0.00438	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Carbon disulfide	ND		0.0111	0.00390	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Carbon tetrachloride	ND		0.00555	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Chlorobenzene	ND		0.00555	0.00407	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Chloroethane	ND		0.0111	0.00408	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Chloroform	ND		0.00555	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Chloromethane	ND		0.0111	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
2-Chlorotoluene	ND		0.00555	0.00442	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
4-Chlorotoluene	ND		0.00555	0.00482	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2-Dibromo-3-Chloropropane	ND	*+	0.0111	0.00471	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Dibromochloromethane	ND		0.00555	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2-Dibromoethane (EDB)	ND		0.00555	0.00399	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Dibromomethane	ND		0.00555	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2-Dichlorobenzene	ND		0.00555	0.00516	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,3-Dichlorobenzene	ND		0.00555	0.00446	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,4-Dichlorobenzene	ND		0.00555	0.00527	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0111	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,1-Dichloroethane	ND		0.00555	0.00377	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2-Dichloroethane	ND		0.00555	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,1-Dichloroethene	ND		0.00555	0.00340	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
cis-1,2-Dichloroethene	ND		0.00555	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
trans-1,2-Dichloroethene	ND		0.00555	0.00346	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2-Dichloropropane	ND		0.00555	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,3-Dichloropropane	ND		0.00555	0.00424	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
2,2-Dichloropropane	ND		0.00555	0.00383	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,1-Dichloropropene	ND		0.00555	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
cis-1,3-Dichloropropene	ND		0.00555	0.00362	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
trans-1,3-Dichloropropene	ND		0.00555	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Ethylbenzene	ND		0.00555	0.00397	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Hexachlorobutadiene	ND		0.0111	0.00559	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
2-Hexanone (MBK)	ND		0.0111	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Isopropylbenzene	ND		0.00555	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
4-Isopropyltoluene	ND		0.00555	0.00545	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Methyl tert-butyl ether	ND		0.00555	0.00320	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
4-Methyl-2-pentanone (MIBK)	ND		0.0111	0.00359	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Methylene Chloride	ND		0.0111	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Naphthalene	ND		0.00555	0.00502	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1

Client Sample ID: 2023-SB-09-0002' **Lab Sample ID: 620-10149-19**
Date Collected: 03/06/23 12:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00555	0.00470	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Styrene	ND		0.00555	0.00430	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,1,1,2-Tetrachloroethane	ND		0.00555	0.00417	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00555	0.00509	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Tetrachloroethene	ND		0.00555	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Toluene	ND		0.00555	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2,3-Trichlorobenzene	ND		0.00555	0.00469	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2,4-Trichlorobenzene	ND		0.00555	0.00512	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,3,5-Trichlorobenzene	ND		0.00555	0.00528	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,1,1-Trichloroethane	ND		0.00555	0.00379	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,1,2-Trichloroethane	ND		0.00555	0.00419	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Trichloroethene	ND		0.00555	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Trichlorofluoromethane (Freon 11)	ND		0.00555	0.00424	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2,3-Trichloropropane	ND		0.00555	0.00493	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,2,4-Trimethylbenzene	ND		0.00555	0.00470	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,3,5-Trimethylbenzene	ND		0.00555	0.00472	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Vinyl chloride	ND		0.00555	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
m,p-Xylene	ND		0.00555	0.00759	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
o-Xylene	ND		0.00555	0.00406	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Tetrahydrofuran	ND		0.0111	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Ethyl ether	ND		0.00555	0.00292	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Tert-amyl methyl ether	ND		0.00555	0.00439	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Ethyl tert-butyl ether	ND		0.00555	0.00366	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
di-Isopropyl ether	ND		0.00555	0.00397	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
tert-Butanol	ND		0.111	0.0298	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,4-Dioxane	ND		0.111	0.0346	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
trans-1,4-Dichloro-2-butene	ND		0.0278	0.00410	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Ethanol	ND		1.11	0.0689	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
1,3-Dichloropropene, Total	ND		0.00555	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1
Xylenes, Total	ND		0.0167	0.00555	mg/Kg	☼	03/14/23 10:36	03/14/23 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:00*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:00*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:00*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.736	0.131	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
1,2,4-Trichlorobenzene	ND		0.736	0.169	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
1,2-Dichlorobenzene	ND		0.736	0.142	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
1,3-Dichlorobenzene	ND		0.736	0.178	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
1,4-Dichlorobenzene	ND		0.736	0.173	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
1-Methylnaphthalene	ND		0.149	0.125	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2,4,5-Trichlorophenol	ND		0.736	0.0843	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2,4,6-Trichlorophenol	ND		0.372	0.0910	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2,4-Dichlorophenol	ND		0.372	0.148	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2,4-Dimethylphenol	ND		0.736	0.108	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2,4-Dinitrophenol	ND		0.736	0.194	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0002'
Date Collected: 03/06/23 12:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-19
Matrix: Solid
Percent Solids: 88.7

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.372	0.0872	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2,6-Dinitrotoluene	ND		0.372	0.0872	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2-Chloronaphthalene	ND		0.736	0.170	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2-Chlorophenol	ND		0.372	0.152	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2-Methylnaphthalene	ND		0.149	0.110	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2-Methylphenol	ND		0.736	0.107	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2-Nitroaniline	ND		0.736	0.0700	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
2-Nitrophenol	ND		0.372	0.132	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
3 & 4 Methylphenol	ND		0.736	0.139	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
3,3'-Dichlorobenzidine	ND		0.736	0.122	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
3-Nitroaniline	ND		0.736	0.0658	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
4,6-Dinitro-2-methylphenol	ND		0.736	0.132	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
4-Bromophenyl phenyl ether	ND		0.736	0.0832	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
4-Chloro-3-methylphenol	ND		0.736	0.144	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
4-Chloroaniline	ND		0.372	0.0564	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
4-Chlorophenyl phenyl ether	ND		0.736	0.0787	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
4-Nitroaniline	ND		0.372	0.118	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
4-Nitrophenol	ND		0.736	0.256	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Acenaphthene	ND		0.149	0.119	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Acenaphthylene	**0.498**		0.149	0.0977	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Acetophenone	ND		0.372	0.0908	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Aniline	ND		0.736	0.0564	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Anthracene	**0.368**		0.149	0.0861	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Azobenzene/Diphenyldiazene	ND		0.736	0.126	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzidine	ND	*- *1	1.47	0.218	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzo[a]anthracene	**1.15**		0.149	0.0836	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzo[a]pyrene	**1.31**		0.149	0.106	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzo[b]fluoranthene	**1.35**		0.149	0.123	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzo[g,h,i]perylene	**0.980**		0.149	0.116	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzo[k]fluoranthene	**0.862**		0.149	0.116	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzoic acid	ND	*- *1	0.736	0.506	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Benzyl alcohol	ND		0.736	0.133	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Bis(2-chloroethoxy)methane	ND		0.736	0.128	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Bis(2-chloroethyl)ether	ND		0.372	0.122	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
bis (2-chloroisopropyl) ether	ND		0.372	0.166	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Bis(2-ethylhexyl) phthalate	ND		0.372	0.0948	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Butyl benzyl phthalate	ND		0.736	0.0738	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Carbazole	ND		0.372	0.0975	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Chrysene	**1.46**		0.149	0.0841	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Dibenz(a,h)anthracene	**0.343**		0.149	0.114	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Dibenzofuran	ND		0.372	0.129	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Diethyl phthalate	ND		0.736	0.0807	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Dimethyl phthalate	ND		0.736	0.0959	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Di-n-butyl phthalate	ND		0.736	0.0787	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Di-n-octyl phthalate	ND		0.736	0.122	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Fluoranthene	**2.00**		0.149	0.0872	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Fluorene	ND		0.149	0.136	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Hexachlorobenzene	ND		0.372	0.103	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Hexachlorobutadiene	ND		0.372	0.186	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1

Client Sample ID: 2023-SB-09-0002' **Lab Sample ID: 620-10149-19**
Date Collected: 03/06/23 12:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.372	0.142	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Hexachloroethane	ND		0.372	0.146	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Indeno[1,2,3-cd]pyrene	**0.840**		0.149	0.126	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Isophorone	ND		0.372	0.102	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Naphthalene	ND		0.149	0.143	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Nitrobenzene	ND		0.372	0.172	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
N-Nitrosodimethylamine	ND		0.372	0.0977	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
N-Nitrosodi-n-propylamine	ND		0.372	0.148	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
N-Nitrosodiphenylamine	ND		0.736	0.0939	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Pentachloronitrobenzene	ND		0.736	0.116	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Pentachlorophenol	ND		0.736	0.301	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Phenanthrene	**0.719**		0.149	0.0843	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Phenol	ND		0.736	0.152	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Pyrene	**2.63**		0.149	0.0821	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1
Pyridine	ND		0.736	0.174	mg/Kg	☼	03/20/23 13:14	03/21/23 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*	*03/20/23 13:14*	*03/21/23 19:52*	*1*
2-Fluorophenol (Surr)	*93*		*15 - 110*	*03/20/23 13:14*	*03/21/23 19:52*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/20/23 13:14*	*03/21/23 19:52*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/20/23 13:14*	*03/21/23 19:52*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/20/23 13:14*	*03/21/23 19:52*	*1*
Terphenyl-d14	*80*		*30 - 130*	*03/20/23 13:14*	*03/21/23 19:52*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.305	0.156	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	**0.210**	**J**	0.305	0.131	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0611	0.0122	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
Ethylbenzene	ND		0.0611	0.0122	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
Methyl tert-butyl ether	ND		0.0611	0.0122	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
m,p-Xylene	ND		0.122	0.0122	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
Naphthalene	**0.0456**	**J**	0.0611	0.0415	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
o-Xylene	ND		0.0611	0.0122	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
Toluene	ND		0.0611	0.0122	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
C5-C8 Aliphatics (unadjusted)	ND		0.305	0.156	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
C9-C10 Aromatics	ND		0.305	0.0427	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1
C9-C12 Aliphatics (unadjusted)	**0.210**	**J**	0.305	0.131	mg/Kg	☼	03/13/23 07:46	03/13/23 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/13/23 07:46*	*03/13/23 17:47*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/13/23 07:46*	*03/13/23 17:47*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0221	0.0159	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1
PCB-1221	ND		0.0221	0.00654	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1
PCB-1232	ND		0.0221	0.00613	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-0002' **Lab Sample ID: 620-10149-19**
Date Collected: 03/06/23 12:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0221	0.00350	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1
PCB-1248	ND		0.0221	0.00691	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1
PCB-1254	**0.0703**		0.0221	0.0172	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1
PCB-1262	ND		0.0221	0.00515	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1
PCB-1260	**0.0320**		0.0221	0.00476	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1
PCB-1268	ND		0.0221	0.00471	mg/Kg	☼	03/10/23 15:43	03/14/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:24*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:24*	*1*
DCB Decachlorobiphenyl (Surr)	*199*	*S1+*	*30 - 150*	*03/10/23 15:43*	*03/14/23 17:24*	*1*
DCB Decachlorobiphenyl (Surr)	*97*	*p*	*30 - 150*	*03/10/23 15:43*	*03/14/23 17:24*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluoroheptanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorooctanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorononanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorodecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorotridecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorotetradecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorobutanesulfonic acid	ND		2.23	0.446	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorohexanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorooctanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
NEtFOSAA	ND		2.23	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
NMeFOSAA	ND		2.23	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
10:2 FTS	ND		2.23	0.669	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluoropentanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluoroheptanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorononanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorodecanesulfonic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.23	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorooctanesulfonamide	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorohexadecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorooctadecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorobutanoic acid	ND		2.23	0.892	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluoropentanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
NMeFOSE	ND		2.23	0.558	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
NMeFOSA	ND		2.23	0.558	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
NEtFOSE	ND		2.23	0.558	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
NEtFOSA	ND		2.23	0.558	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
HFPODA	ND		2.23	1.12	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
DONA	ND		3.35	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
9Cl-PF3ONS	ND		2.23	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
11Cl-PF3OUdS	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluorododecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
4:2 Fluorotelomer sulfonic acid	ND		2.23	0.669	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
Perfluoroundecanoic acid	ND		0.669	0.223	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-0002' **Lab Sample ID: 620-10149-19**
Date Collected: 03/06/23 12:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.23	0.669	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1
8:2 Fluorotelomer sulfonic acid	ND		3.35	0.669	ug/Kg	☼	03/13/23 07:31	03/22/23 21:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*78*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
M2-8:2 FTS	*84*		*15 - 200*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
M2-6:2 FTS	*81*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C5 PFHxA	*87*		*10 - 174*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C4 PFHpA	*88*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C8 PFOA	*83*		*26 - 159*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C9 PFNA	*86*		*26 - 165*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C6 PFDA	*84*		*26 - 161*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C7 PFUnA	*84*		*12 - 173*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C2-PFDoDA	*88*		*11 - 166*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C2 PFTeDA	*83*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C3 PFBS	*81*		*27 - 179*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C3 PFHxS	*87*		*24 - 171*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C8 PFOS	*86*		*41 - 154*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
d3-NMeFOSAA	*27*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
d5-NEtFOSAA	*30*		*10 - 193*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C8 FOSA	*83*		*14 - 163*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C4 PFBA	*85*		*28 - 153*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
d7-N-MeFOSE-M	*81*		*10 - 179*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
d9-N-EtFOSE-M	*78*		*10 - 185*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
d5-NEtPFOSA	*79*		*10 - 180*	*03/13/23 07:31*	*03/22/23 21:01*	*1*
13C3 HFPO-DA	*87*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:01*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.12	1.74	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Arsenic	**3.74**		3.07	1.43	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Barium	**29.0**		0.512	0.154	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Beryllium	**0.509**	**J**	0.512	0.102	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Cadmium	ND		0.512	0.102	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Chromium	**11.8**		1.54	0.359	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Lead	**10.1**		1.54	0.615	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Nickel	**6.87**		1.02	0.266	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Selenium	ND		5.12	1.54	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Silver	ND		1.02	0.410	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Thallium	ND		3.07	1.33	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Vanadium	**17.1**		1.02	0.440	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1
Zinc	**22.3**		2.05	0.819	mg/Kg	☼	03/14/23 09:00	03/15/23 23:31	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0654	0.0218	mg/Kg	☼	03/14/23 07:49	03/14/23 13:28	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0002'
Date Collected: 03/06/23 12:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-19
Matrix: Solid
Percent Solids: 88.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.3		0.1	0.1	%			03/09/23 09:42	1
Percent Solids (EPA Moisture)	88.7		0.1	0.1	%			03/09/23 09:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0204'
Date Collected: 03/06/23 12:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-20
Matrix: Solid
Percent Solids: 93.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00539	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Acetone	ND		0.0539	0.0121	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Acrylonitrile	ND		0.00539	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Benzene	ND		0.00539	0.00360	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Bromobenzene	ND		0.00539	0.00359	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Bromochloromethane	ND		0.00539	0.00306	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Bromodichloromethane	ND		0.00539	0.00396	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Bromoform	ND		0.00539	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Bromomethane	ND		0.0108	0.00672	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
2-Butanone (MEK)	ND		0.0108	0.00429	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
n-Butylbenzene	ND		0.0108	0.00578	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
sec-Butylbenzene	ND		0.00539	0.00434	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
tert-Butylbenzene	ND		0.00539	0.00425	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Carbon disulfide	ND		0.0108	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Carbon tetrachloride	ND		0.00539	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Chlorobenzene	ND		0.00539	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Chloroethane	ND		0.0108	0.00396	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Chloroform	ND		0.00539	0.00362	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Chloromethane	ND		0.0108	0.00414	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
2-Chlorotoluene	ND		0.00539	0.00429	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
4-Chlorotoluene	ND		0.00539	0.00468	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2-Dibromo-3-Chloropropane	ND		0.0108	0.00457	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Dibromochloromethane	ND		0.00539	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2-Dibromoethane (EDB)	ND		0.00539	0.00387	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Dibromomethane	ND		0.00539	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2-Dichlorobenzene	ND		0.00539	0.00500	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,3-Dichlorobenzene	ND		0.00539	0.00432	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,4-Dichlorobenzene	ND		0.00539	0.00511	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0108	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,1-Dichloroethane	ND		0.00539	0.00365	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2-Dichloroethane	ND		0.00539	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,1-Dichloroethene	ND		0.00539	0.00330	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
cis-1,2-Dichloroethene	ND		0.00539	0.00312	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
trans-1,2-Dichloroethene	ND		0.00539	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2-Dichloropropane	ND		0.00539	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,3-Dichloropropane	ND		0.00539	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
2,2-Dichloropropane	ND		0.00539	0.00372	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,1-Dichloropropene	ND		0.00539	0.00367	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
cis-1,3-Dichloropropene	ND		0.00539	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
trans-1,3-Dichloropropene	ND		0.00539	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Ethylbenzene	ND		0.00539	0.00385	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Hexachlorobutadiene	ND		0.0108	0.00542	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
2-Hexanone (MBK)	ND		0.0108	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Isopropylbenzene	ND		0.00539	0.00407	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
4-Isopropyltoluene	ND		0.00539	0.00529	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Methyl tert-butyl ether	ND		0.00539	0.00310	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.0108	0.00348	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Methylene Chloride	ND		0.0108	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Naphthalene	ND		0.00539	0.00487	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1

Client Sample ID: 2023-SB-09-0204' **Lab Sample ID: 620-10149-20**
Date Collected: 03/06/23 12:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00539	0.00456	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Styrene	ND		0.00539	0.00417	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,1,1,2-Tetrachloroethane	ND		0.00539	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,1,2,2-Tetrachloroethane	ND		0.00539	0.00494	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Tetrachloroethene	ND		0.00539	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Toluene	ND		0.00539	0.00342	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2,3-Trichlorobenzene	ND		0.00539	0.00455	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2,4-Trichlorobenzene	ND		0.00539	0.00497	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,3,5-Trichlorobenzene	ND		0.00539	0.00512	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,1,1-Trichloroethane	ND		0.00539	0.00368	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,1,2-Trichloroethane	ND		0.00539	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Trichloroethene	ND		0.00539	0.00362	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Trichlorofluoromethane (Freon 11)	ND		0.00539	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2,3-Trichloropropane	ND		0.00539	0.00479	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,2,4-Trimethylbenzene	ND		0.00539	0.00456	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,3,5-Trimethylbenzene	ND		0.00539	0.00458	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Vinyl chloride	ND		0.00539	0.00329	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
m,p-Xylene	ND		0.00539	0.00736	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
o-Xylene	ND		0.00539	0.00393	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Tetrahydrofuran	ND		0.0108	0.00273	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Ethyl ether	ND		0.00539	0.00284	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Tert-amyl methyl ether	ND		0.00539	0.00426	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Ethyl tert-butyl ether	ND		0.00539	0.00355	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
di-Isopropyl ether	ND		0.00539	0.00385	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
tert-Butanol	ND		0.108	0.0289	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,4-Dioxane	ND		0.108	0.0335	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
trans-1,4-Dichloro-2-butene	ND		0.0270	0.00398	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Ethanol	ND		1.08	0.0668	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
1,3-Dichloropropene, Total	ND		0.00539	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1
Xylenes, Total	ND		0.0162	0.00539	mg/Kg	☼	03/15/23 12:58	03/15/23 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:57*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:57*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/15/23 12:58*	*03/15/23 15:57*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		1.76	0.313	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
1,2,4-Trichlorobenzene	ND		1.76	0.403	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
1,2-Dichlorobenzene	ND		1.76	0.339	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
1,3-Dichlorobenzene	ND		1.76	0.425	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
1,4-Dichlorobenzene	ND		1.76	0.414	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
1-Methylnaphthalene	ND		0.355	0.298	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2,4,5-Trichlorophenol	ND		1.76	0.201	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2,4,6-Trichlorophenol	ND		0.889	0.217	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2,4-Dichlorophenol	ND		0.889	0.354	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2,4-Dimethylphenol	ND		1.76	0.258	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2,4-Dinitrophenol	ND		1.76	0.462	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-0204' **Lab Sample ID: 620-10149-20**
Date Collected: 03/06/23 12:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.889	0.208	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2,6-Dinitrotoluene	ND		0.889	0.208	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2-Chloronaphthalene	ND		1.76	0.406	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2-Chlorophenol	ND		0.889	0.364	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2-Methylnaphthalene	ND		0.355	0.263	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2-Methylphenol	ND		1.76	0.257	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2-Nitroaniline	ND		1.76	0.167	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
2-Nitrophenol	ND		0.889	0.316	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
3 & 4 Methylphenol	ND		1.76	0.333	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
3,3'-Dichlorobenzidine	ND		1.76	0.290	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
3-Nitroaniline	ND		1.76	0.157	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
4,6-Dinitro-2-methylphenol	ND		1.76	0.316	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
4-Bromophenyl phenyl ether	ND		1.76	0.199	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
4-Chloro-3-methylphenol	ND		1.76	0.344	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
4-Chloroaniline	ND		0.889	0.135	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
4-Chlorophenyl phenyl ether	ND		1.76	0.188	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
4-Nitroaniline	ND		0.889	0.281	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
4-Nitrophenol	ND		1.76	0.612	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Acenaphthene	ND		0.355	0.283	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Acenaphthylene	**0.640**		0.355	0.233	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Acetophenone	ND		0.889	0.217	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Aniline	ND		1.76	0.135	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Anthracene	**0.488**		0.355	0.206	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Azobenzene/Diphenyldiazene	ND		1.76	0.300	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzidine	ND	*- *1	3.51	0.520	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzo[a]anthracene	**1.38**		0.355	0.200	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzo[a]pyrene	**1.46**		0.355	0.254	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzo[b]fluoranthene	**1.23**		0.355	0.294	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzo[g,h,i]perylene	**1.34**		0.355	0.277	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzo[k]fluoranthene	**1.14**		0.355	0.276	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzoic acid	ND	*- *1	1.76	1.21	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Benzyl alcohol	ND		1.76	0.318	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Bis(2-chloroethoxy)methane	ND		1.76	0.306	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Bis(2-chloroethyl)ether	ND		0.889	0.291	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
bis (2-chloroisopropyl) ether	ND		0.889	0.396	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Bis(2-ethylhexyl) phthalate	**0.265**	**J**	0.889	0.226	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Butyl benzyl phthalate	ND		1.76	0.176	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Carbazole	ND		0.889	0.233	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Chrysene	**1.75**		0.355	0.201	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Dibenz(a,h)anthracene	**0.417**		0.355	0.271	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Dibenzofuran	ND		0.889	0.308	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Diethyl phthalate	ND		1.76	0.193	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Dimethyl phthalate	ND		1.76	0.229	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Di-n-butyl phthalate	ND		1.76	0.188	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Di-n-octyl phthalate	ND		1.76	0.290	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Fluoranthene	**1.92**		0.355	0.208	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Fluorene	ND		0.355	0.324	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Hexachlorobenzene	ND		0.889	0.247	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Hexachlorobutadiene	ND		0.889	0.444	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1

Client Sample ID: 2023-SB-09-0204' **Lab Sample ID: 620-10149-20**
Date Collected: 03/06/23 12:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.889	0.340	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Hexachloroethane	ND		0.889	0.349	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Indeno[1,2,3-cd]pyrene	**0.968**		0.355	0.301	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Isophorone	ND		0.889	0.243	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Naphthalene	ND		0.355	0.341	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Nitrobenzene	ND		0.889	0.411	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
N-Nitrosodimethylamine	ND		0.889	0.233	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
N-Nitrosodi-n-propylamine	ND		0.889	0.354	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
N-Nitrosodiphenylamine	ND		1.76	0.224	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Pentachloronitrobenzene	ND		1.76	0.277	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Pentachlorophenol	ND		1.76	0.719	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Phenanthrene	**0.939**		0.355	0.201	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Phenol	ND		1.76	0.362	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Pyrene	**3.79**		0.355	0.196	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1
Pyridine	ND		1.76	0.416	mg/Kg	☼	03/20/23 13:14	03/21/23 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*03/20/23 13:14*	*03/21/23 20:20*	*1*
2-Fluorophenol (Surr)	*85*		*15 - 110*	*03/20/23 13:14*	*03/21/23 20:20*	*1*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/20/23 13:14*	*03/21/23 20:20*	*1*
Phenol-d5 (Surr)	*71*		*15 - 110*	*03/20/23 13:14*	*03/21/23 20:20*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 110*	*03/20/23 13:14*	*03/21/23 20:20*	*1*
Terphenyl-d14	*77*		*30 - 130*	*03/20/23 13:14*	*03/21/23 20:20*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.266	0.136	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.266	0.114	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
Ethylbenzene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
Methyl tert-butyl ether	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
m,p-Xylene	ND		0.107	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
Naphthalene	ND		0.0533	0.0362	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
o-Xylene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
Toluene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
C5-C8 Aliphatics (unadjusted)	ND		0.266	0.136	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
C9-C10 Aromatics	ND		0.266	0.0373	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1
C9-C12 Aliphatics (unadjusted)	ND		0.266	0.114	mg/Kg	☼	03/13/23 07:46	03/13/23 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/13/23 07:46*	*03/13/23 18:26*	*1*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*	*03/13/23 07:46*	*03/13/23 18:26*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0214	0.0154	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1
PCB-1221	ND		0.0214	0.00633	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1
PCB-1232	ND		0.0214	0.00594	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1

Client Sample ID: 2023-SB-09-0204' **Lab Sample ID: 620-10149-20**
Date Collected: 03/06/23 12:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0214	0.00339	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1
PCB-1248	ND		0.0214	0.00670	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1
PCB-1254	**0.0320**		0.0214	0.0167	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1
PCB-1262	ND		0.0214	0.00499	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1
PCB-1260	ND		0.0214	0.00461	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1
PCB-1268	ND		0.0214	0.00456	mg/Kg	☼	03/10/23 15:43	03/14/23 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*03/10/23 15:43*	*03/14/23 02:14*	*1*
Tetrachloro-m-xylene	*70*		*30 - 150*	*03/10/23 15:43*	*03/14/23 02:14*	*1*
DCB Decachlorobiphenyl (Surr)	*135*		*30 - 150*	*03/10/23 15:43*	*03/14/23 02:14*	*1*
DCB Decachlorobiphenyl (Surr)	*77*	*p*	*30 - 150*	*03/10/23 15:43*	*03/14/23 02:14*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluoroheptanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorooctanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorononanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorodecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorotridecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorotetradecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorobutanesulfonic acid	ND		2.01	0.402	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorohexanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorooctanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
NEtFOSAA	ND		2.01	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
NMeFOSAA	ND		2.01	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
10:2 FTS	ND		2.01	0.602	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluoropentanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluoroheptanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorononanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorodecanesulfonic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.01	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorooctanesulfonamide	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorohexadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorooctadecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorobutanoic acid	ND		2.01	0.803	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluoropentanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
NMeFOSE	ND		2.01	0.502	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
NMeFOSA	ND		2.01	0.502	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
NEtFOSE	ND		2.01	0.502	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
NEtFOSA	ND		2.01	0.502	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
HFPODA	ND		2.01	1.00	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
DONA	ND		3.01	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
9Cl-PF3ONS	ND		2.01	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
11Cl-PF3OUdS	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluorododecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
4:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
Perfluoroundecanoic acid	ND		0.602	0.201	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1

Client Sample ID: 2023-SB-09-0204' **Lab Sample ID: 620-10149-20**
Date Collected: 03/06/23 12:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.01	0.602	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1
8:2 Fluorotelomer sulfonic acid	ND		3.01	0.602	ug/Kg	☼	03/13/23 07:31	03/22/23 21:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*72*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
M2-8:2 FTS	*79*		*15 - 200*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
M2-6:2 FTS	*72*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C5 PFHxA	*74*		*10 - 174*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C4 PFHpA	*78*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C8 PFOA	*79*		*26 - 159*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C9 PFNA	*76*		*26 - 165*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C6 PFDA	*77*		*26 - 161*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C7 PFUnA	*77*		*12 - 173*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C2-PFDoDA	*82*		*11 - 166*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C2 PFTeDA	*81*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C3 PFBS	*83*		*27 - 179*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C3 PFHxS	*86*		*24 - 171*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C8 PFOS	*85*		*41 - 154*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
d3-NMeFOSAA	*19*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
d5-NEtFOSAA	*26*		*10 - 193*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C8 FOSA	*77*		*14 - 163*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C4 PFBA	*69*		*28 - 153*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C5 PFPeA	*75*		*24 - 161*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
d7-N-MeFOSE-M	*82*		*10 - 179*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
d3-NMePFOSA	*64*		*10 - 175*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
d9-N-EtFOSE-M	*79*		*10 - 185*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
d5-NEtPFOSA	*64*		*10 - 180*	*03/13/23 07:31*	*03/22/23 21:12*	*1*
13C3 HFPO-DA	*75*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:12*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.71	1.60	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Arsenic	**3.21**		2.83	1.32	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Barium	**28.8**		0.471	0.141	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Beryllium	**0.396**	**J**	0.471	0.0942	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Cadmium	ND		0.471	0.0942	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Chromium	**8.18**		1.41	0.330	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Lead	**12.3**		1.41	0.565	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Nickel	**4.32**		0.942	0.245	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Selenium	ND		4.71	1.41	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Silver	ND		0.942	0.377	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Thallium	ND		2.83	1.23	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Vanadium	**12.4**		0.942	0.405	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1
Zinc	**21.3**		1.88	0.754	mg/Kg	☼	03/14/23 09:00	03/16/23 00:06	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0645	0.0215	mg/Kg	☼	03/14/23 07:49	03/14/23 13:50	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0204'
Date Collected: 03/06/23 12:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-20
Matrix: Solid
Percent Solids: 93.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	6.9		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	93.1		0.1	0.1	%			03/10/23 08:54	1

Client Sample ID: 2023-SB-09-0406' **Lab Sample ID: 620-10149-21**
Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00420	0.00274	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Acetone	ND		0.0420	0.00942	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Acrylonitrile	ND		0.00420	0.00252	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Benzene	ND		0.00420	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Bromobenzene	ND		0.00420	0.00280	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Bromochloromethane	ND		0.00420	0.00239	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Bromodichloromethane	ND		0.00420	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Bromoform	ND		0.00420	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Bromomethane	ND		0.00841	0.00524	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
2-Butanone (MEK)	ND		0.00841	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
n-Butylbenzene	ND	*3	0.00841	0.00451	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
sec-Butylbenzene	ND		0.00420	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
tert-Butylbenzene	ND		0.00420	0.00331	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Carbon disulfide	ND		0.00841	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Carbon tetrachloride	ND		0.00420	0.00265	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Chlorobenzene	ND		0.00420	0.00308	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Chloroethane	ND		0.00841	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Chloroform	ND		0.00420	0.00283	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Chloromethane	ND		0.00841	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
2-Chlorotoluene	ND		0.00420	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
4-Chlorotoluene	ND		0.00420	0.00365	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.00841	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Dibromochloromethane	ND		0.00420	0.00278	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2-Dibromoethane (EDB)	ND		0.00420	0.00302	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Dibromomethane	ND		0.00420	0.00247	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2-Dichlorobenzene	ND	*3	0.00420	0.00390	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,3-Dichlorobenzene	ND		0.00420	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,4-Dichlorobenzene	ND	*3	0.00420	0.00399	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00841	0.00225	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,1-Dichloroethane	ND		0.00420	0.00285	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2-Dichloroethane	ND		0.00420	0.00283	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,1-Dichloroethene	ND		0.00420	0.00257	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
cis-1,2-Dichloroethene	ND		0.00420	0.00243	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
trans-1,2-Dichloroethene	ND		0.00420	0.00262	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2-Dichloropropane	ND		0.00420	0.00278	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,3-Dichloropropane	ND		0.00420	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
2,2-Dichloropropane	ND		0.00420	0.00290	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,1-Dichloropropene	ND		0.00420	0.00286	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
cis-1,3-Dichloropropene	ND		0.00420	0.00274	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
trans-1,3-Dichloropropene	ND		0.00420	0.00320	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Ethylbenzene	ND		0.00420	0.00300	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Hexachlorobutadiene	ND	*3	0.00841	0.00423	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
2-Hexanone (MBK)	ND		0.00841	0.00247	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Isopropylbenzene	ND		0.00420	0.00318	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
4-Isopropyltoluene	ND	*3	0.00420	0.00413	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Methyl tert-butyl ether	ND		0.00420	0.00242	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
4-Methyl-2-pentanone (MIBK)	ND		0.00841	0.00272	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Methylene Chloride	ND		0.00841	0.00225	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Naphthalene	**0.00805**	***3**	0.00420	0.00380	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1

Client Sample ID: 2023-SB-09-0406' **Lab Sample ID: 620-10149-21**
Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00420	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Styrene	ND		0.00420	0.00325	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,1,1,2-Tetrachloroethane	ND		0.00420	0.00315	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00420	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Tetrachloroethene	ND		0.00420	0.00234	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Toluene	ND		0.00420	0.00267	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2,3-Trichlorobenzene	ND	*3	0.00420	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2,4-Trichlorobenzene	ND		0.00420	0.00388	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,3,5-Trichlorobenzene	ND	*3	0.00420	0.00399	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,1,1-Trichloroethane	ND		0.00420	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,1,2-Trichloroethane	ND		0.00420	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Trichloroethene	ND		0.00420	0.00283	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Trichlorofluoromethane (Freon 11)	ND		0.00420	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2,3-Trichloropropane	ND		0.00420	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,2,4-Trimethylbenzene	ND		0.00420	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,3,5-Trimethylbenzene	ND		0.00420	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Vinyl chloride	ND		0.00420	0.00256	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
m,p-Xylene	ND		0.00420	0.00574	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
o-Xylene	ND		0.00420	0.00307	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Tetrahydrofuran	ND		0.00841	0.00213	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Ethyl ether	ND		0.00420	0.00221	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Tert-amyl methyl ether	ND		0.00420	0.00332	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Ethyl tert-butyl ether	ND		0.00420	0.00277	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
di-Isopropyl ether	ND		0.00420	0.00300	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
tert-Butanol	ND		0.0841	0.0225	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,4-Dioxane	ND		0.0841	0.0262	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
trans-1,4-Dichloro-2-butene	ND		0.0210	0.00310	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Ethanol	ND		0.841	0.0521	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
1,3-Dichloropropene, Total	ND		0.00420	0.00320	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1
Xylenes, Total	ND		0.0126	0.00420	mg/Kg	☼	03/14/23 10:36	03/14/23 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:53*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:53*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/14/23 10:36*	*03/14/23 19:53*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00605	0.00394	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Acetone	**0.0214**	**J *3**	0.0605	0.0135	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Acrylonitrile	ND	*3	0.00605	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Benzene	ND	*3	0.00605	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Bromobenzene	ND	*3	0.00605	0.00403	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Bromochloromethane	ND	*3	0.00605	0.00343	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Bromodichloromethane	ND	*3	0.00605	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Bromoform	ND	*3	0.00605	0.00462	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Bromomethane	ND	*3	0.0121	0.00754	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
2-Butanone (MEK)	ND	*3	0.0121	0.00481	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1

Client Sample ID: 2023-SB-09-0406' **Lab Sample ID: 620-10149-21**
Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0121	0.00648	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
sec-Butylbenzene	ND	*3	0.00605	0.00487	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
tert-Butylbenzene	ND	*3	0.00605	0.00477	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Carbon disulfide	ND	*3	0.0121	0.00425	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Carbon tetrachloride	ND	*3	0.00605	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Chlorobenzene	ND	*3	0.00605	0.00443	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Chloroethane	ND	*3	0.0121	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Chloroform	ND	*3	0.00605	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Chloromethane	ND	*3	0.0121	0.00464	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
2-Chlorotoluene	ND	*3	0.00605	0.00481	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
4-Chlorotoluene	ND	*3	0.00605	0.00525	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0121	0.00513	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Dibromochloromethane	ND	*3	0.00605	0.00400	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2-Dibromoethane (EDB)	ND	*3	0.00605	0.00434	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Dibromomethane	ND	*3	0.00605	0.00356	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2-Dichlorobenzene	ND	*3	0.00605	0.00561	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,3-Dichlorobenzene	ND	*3	0.00605	0.00485	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,4-Dichlorobenzene	ND	*3	0.00605	0.00573	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0121	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,1-Dichloroethane	ND	*3	0.00605	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2-Dichloroethane	ND	*3	0.00605	0.00408	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,1-Dichloroethene	ND	*3	0.00605	0.00370	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
cis-1,2-Dichloroethene	ND	*3	0.00605	0.00350	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
trans-1,2-Dichloroethene	ND	*3	0.00605	0.00376	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2-Dichloropropane	ND	*3	0.00605	0.00400	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,3-Dichloropropane	ND	*3	0.00605	0.00462	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
2,2-Dichloropropane	ND	*3	0.00605	0.00417	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,1-Dichloropropene	ND	*3	0.00605	0.00411	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
cis-1,3-Dichloropropene	ND	*3	0.00605	0.00394	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
trans-1,3-Dichloropropene	ND	*3	0.00605	0.00460	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Ethylbenzene	ND	*3	0.00605	0.00432	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Hexachlorobutadiene	ND	*3	0.0121	0.00608	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
2-Hexanone (MBK)	ND	*3	0.0121	0.00356	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Isopropylbenzene	ND	*3	0.00605	0.00457	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
4-Isopropyltoluene	ND	*3	0.00605	0.00594	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Methyl tert-butyl ether	ND	*3	0.00605	0.00348	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0121	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Methylene Chloride	ND	*3	0.0121	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Naphthalene	ND	*3	0.00605	0.00547	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
N-Propylbenzene	ND	*3	0.00605	0.00512	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Styrene	ND	*3	0.00605	0.00468	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00605	0.00454	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00605	0.00554	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Tetrachloroethene	ND	*3	0.00605	0.00336	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Toluene	ND	*3	0.00605	0.00383	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2,3-Trichlorobenzene	ND	*3	0.00605	0.00510	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2,4-Trichlorobenzene	ND	*3	0.00605	0.00558	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,3,5-Trichlorobenzene	ND	*3	0.00605	0.00575	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,1,1-Trichloroethane	ND	*3	0.00605	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1

Client Sample ID: 2023-SB-09-0406' **Lab Sample ID: 620-10149-21**
Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00605	0.00456	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Trichloroethene	ND	*3	0.00605	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00605	0.00462	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2,3-Trichloropropane	ND	*3	0.00605	0.00537	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,2,4-Trimethylbenzene	ND	*3	0.00605	0.00512	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,3,5-Trimethylbenzene	ND	*3	0.00605	0.00514	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Vinyl chloride	ND	*3	0.00605	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
m,p-Xylene	ND	*3	0.00605	0.00826	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
o-Xylene	ND	*3	0.00605	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Tetrahydrofuran	ND	*3	0.0121	0.00306	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Ethyl ether	ND	*3	0.00605	0.00318	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Tert-amyl methyl ether	ND	*3	0.00605	0.00478	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Ethyl tert-butyl ether	ND	*3	0.00605	0.00398	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
di-Isopropyl ether	ND	*3	0.00605	0.00432	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
tert-Butanol	ND	*3	0.121	0.0324	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,4-Dioxane	ND	*3	0.121	0.0376	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0302	0.00446	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Ethanol	ND	*3	1.21	0.0750	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
1,3-Dichloropropene, Total	ND		0.00605	0.00460	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1
Xylenes, Total	ND		0.0181	0.00605	mg/Kg	☼	03/15/23 12:58	03/15/23 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 16:23*	*1*
Toluene-d8 (Surr)	*93*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 16:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*141*	*3 S1+	*70 - 130*	*03/15/23 12:58*	*03/15/23 16:23*	*1*
Dibromofluoromethane (Surr)	*132*	*3 S1+	*70 - 130*	*03/15/23 12:58*	*03/15/23 16:23*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		1.81	0.323	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
1,2,4-Trichlorobenzene	ND		1.81	0.416	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
1,2-Dichlorobenzene	ND		1.81	0.350	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
1,3-Dichlorobenzene	ND		1.81	0.439	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
1,4-Dichlorobenzene	ND		1.81	0.427	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
1-Methylnaphthalene	**1.13**		0.367	0.308	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2,4,5-Trichlorophenol	ND		1.81	0.208	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2,4,6-Trichlorophenol	ND		0.918	0.224	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2,4-Dichlorophenol	ND		0.918	0.366	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2,4-Dimethylphenol	ND		1.81	0.266	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2,4-Dinitrophenol	ND		1.81	0.477	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2,4-Dinitrotoluene	ND		0.918	0.215	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2,6-Dinitrotoluene	ND		0.918	0.215	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2-Chloronaphthalene	ND		1.81	0.420	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2-Chlorophenol	ND		0.918	0.376	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2-Methylnaphthalene	**0.630**		0.367	0.271	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2-Methylphenol	ND		1.81	0.265	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2-Nitroaniline	ND		1.81	0.173	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
2-Nitrophenol	ND		0.918	0.326	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
3 & 4 Methylphenol	ND		1.81	0.344	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
3,3'-Dichlorobenzidine	ND		1.81	0.300	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1

Client Sample ID: 2023-SB-09-0406' **Lab Sample ID: 620-10149-21**
Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		1.81	0.162	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
4,6-Dinitro-2-methylphenol	ND		1.81	0.326	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
4-Bromophenyl phenyl ether	ND		1.81	0.205	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
4-Chloro-3-methylphenol	ND		1.81	0.355	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
4-Chloroaniline	ND		0.918	0.139	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
4-Chlorophenyl phenyl ether	ND		1.81	0.194	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
4-Nitroaniline	ND		0.918	0.290	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
4-Nitrophenol	ND		1.81	0.632	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Acenaphthene	**0.682**		0.367	0.293	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Acenaphthylene	**3.29**		0.367	0.241	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Acetophenone	ND		0.918	0.224	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Aniline	ND		1.81	0.139	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Anthracene	**3.63**		0.367	0.212	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Azobenzene/Diphenyldiazene	ND		1.81	0.310	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzidine	ND	*- *1	3.63	0.537	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzo[a]anthracene	**8.90**		0.367	0.206	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzo[a]pyrene	**8.33**		0.367	0.262	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzo[b]fluoranthene	**9.22**		0.367	0.304	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzo[g,h,i]perylene	**5.26**		0.367	0.286	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzo[k]fluoranthene	**4.96**		0.367	0.285	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzoic acid	ND	*- *1	1.81	1.25	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Benzyl alcohol	ND		1.81	0.329	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Bis(2-chloroethoxy)methane	ND		1.81	0.316	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Bis(2-chloroethyl)ether	ND		0.918	0.300	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
bis (2-chloroisopropyl) ether	ND		0.918	0.409	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Bis(2-ethylhexyl) phthalate	ND		0.918	0.234	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Butyl benzyl phthalate	ND		1.81	0.182	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Carbazole	**0.739**	**J**	0.918	0.240	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Chrysene	**11.5**		0.367	0.207	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Dibenz(a,h)anthracene	**2.10**		0.367	0.280	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Dibenzofuran	**0.560**	**J**	0.918	0.318	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Diethyl phthalate	ND		1.81	0.199	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Dimethyl phthalate	ND		1.81	0.236	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Di-n-butyl phthalate	ND		1.81	0.194	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Di-n-octyl phthalate	ND		1.81	0.300	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Fluoranthene	**11.1**		0.734	0.430	mg/Kg	☼	03/20/23 13:14	03/22/23 15:29	2
Fluorene	**1.75**		0.367	0.335	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Hexachlorobenzene	ND		0.918	0.255	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Hexachlorobutadiene	ND		0.918	0.458	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Hexachlorocyclopentadiene	ND		0.918	0.351	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Hexachloroethane	ND		0.918	0.361	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Indeno[1,2,3-cd]pyrene	**4.50**		0.367	0.311	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Isophorone	ND		0.918	0.251	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Naphthalene	ND		0.367	0.352	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Nitrobenzene	ND		0.918	0.424	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
N-Nitrosodimethylamine	ND		0.918	0.241	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
N-Nitrosodi-n-propylamine	ND		0.918	0.366	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
N-Nitrosodiphenylamine	ND		1.81	0.231	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Pentachloronitrobenzene	ND		1.81	0.286	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1

Client Sample ID: 2023-SB-09-0406' **Lab Sample ID: 620-10149-21**
Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.81	0.742	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Phenanthrene	**9.56**		0.734	0.416	mg/Kg	☼	03/20/23 13:14	03/22/23 15:29	2
Phenol	ND		1.81	0.374	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1
Pyrene	**11.3**		0.734	0.405	mg/Kg	☼	03/20/23 13:14	03/22/23 15:29	2
Pyridine	ND		1.81	0.429	mg/Kg	☼	03/20/23 13:14	03/21/23 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*30 - 130*	*03/20/23 13:14*	*03/21/23 20:49*	*1*
2-Fluorobiphenyl (Surr)	*48*		*30 - 130*	*03/20/23 13:14*	*03/22/23 15:29*	*2*
2-Fluorophenol (Surr)	*91*		*15 - 110*	*03/20/23 13:14*	*03/21/23 20:49*	*1*
2-Fluorophenol (Surr)	*66*		*15 - 110*	*03/20/23 13:14*	*03/22/23 15:29*	*2*
Nitrobenzene-d5 (Surr)	*82*		*30 - 130*	*03/20/23 13:14*	*03/21/23 20:49*	*1*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*	*03/20/23 13:14*	*03/22/23 15:29*	*2*
Phenol-d5 (Surr)	*81*		*15 - 110*	*03/20/23 13:14*	*03/21/23 20:49*	*1*
Phenol-d5 (Surr)	*59*		*15 - 110*	*03/20/23 13:14*	*03/22/23 15:29*	*2*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 110*	*03/20/23 13:14*	*03/21/23 20:49*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*03/20/23 13:14*	*03/22/23 15:29*	*2*
Terphenyl-d14	*73*		*30 - 130*	*03/20/23 13:14*	*03/21/23 20:49*	*1*
Terphenyl-d14	*33*		*30 - 130*	*03/20/23 13:14*	*03/22/23 15:29*	*2*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.384	0.197	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	**0.170**	**J**	0.384	0.164	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0768	0.0154	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
Ethylbenzene	ND		0.0768	0.0154	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
Methyl tert-butyl ether	ND		0.0768	0.0154	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
m,p-Xylene	ND		0.154	0.0154	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
Naphthalene	**0.379**		0.0768	0.0522	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
o-Xylene	ND		0.0768	0.0154	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
Toluene	ND		0.0768	0.0154	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
C5-C8 Aliphatics (unadjusted)	ND		0.384	0.197	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
C9-C10 Aromatics	**0.260**	**J**	0.384	0.0538	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1
C9-C12 Aliphatics (unadjusted)	**0.430**		0.384	0.164	mg/Kg	☼	03/13/23 07:46	03/13/23 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/13/23 07:46*	*03/13/23 19:05*	*1*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/13/23 07:46*	*03/13/23 19:05*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0205	0.0148	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1
PCB-1221	ND		0.0205	0.00605	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1
PCB-1232	ND		0.0205	0.00567	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1
PCB-1242	ND		0.0205	0.00323	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1
PCB-1248	ND		0.0205	0.00640	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1
PCB-1254	**0.416**		0.0205	0.0159	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1
PCB-1262	ND		0.0205	0.00477	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0406'
Date Collected: 03/06/23 12:20
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-21
Matrix: Solid
Percent Solids: 90.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	0.0227		0.0205	0.00440	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1
PCB-1268	ND		0.0205	0.00436	mg/Kg	☼	03/10/23 15:43	03/14/23 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*120*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:42*	*1*
Tetrachloro-m-xylene	*82*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:42*	*1*
DCB Decachlorobiphenyl (Surr)	*305*	*S1+*	*30 - 150*	*03/10/23 15:43*	*03/14/23 17:42*	*1*
DCB Decachlorobiphenyl (Surr)	*88*	*p*	*30 - 150*	*03/10/23 15:43*	*03/14/23 17:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluoroheptanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorooctanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorononanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorodecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorotridecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorotetradecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorobutanesulfonic acid	ND		2.11	0.421	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorohexanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorooctanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
NEtFOSAA	ND		2.11	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
NMeFOSAA	ND		2.11	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
10:2 FTS	ND		2.11	0.632	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluoropentanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluoroheptanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorononanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorodecanesulfonic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.11	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorooctanesulfonamide	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorohexadecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorooctadecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorobutanoic acid	ND		2.11	0.842	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluoropentanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
NMeFOSE	ND		2.11	0.527	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
NMeFOSA	ND		2.11	0.527	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
NEtFOSE	ND		2.11	0.527	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
NEtFOSA	ND		2.11	0.527	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
HFPODA	ND		2.11	1.05	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
DONA	ND		3.16	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
9Cl-PF3ONS	ND		2.11	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
11Cl-PF3OUdS	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluorododecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
4:2 Fluorotelomer sulfonic acid	ND		2.11	0.632	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
Perfluoroundecanoic acid	ND		0.632	0.211	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
6:2 Fluorotelomer sulfonic acid	ND		2.11	0.632	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1
8:2 Fluorotelomer sulfonic acid	ND		3.16	0.632	ug/Kg	☼	03/13/23 07:31	03/22/23 21:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*89*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:23*	*1*

Client Sample ID: 2023-SB-09-0406' **Lab Sample ID: 620-10149-21**
Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	96		15 - 200	03/13/23 07:31	03/22/23 21:23	1
M2-6:2 FTS	88		10 - 200	03/13/23 07:31	03/22/23 21:23	1
13C5 PFHxA	88		10 - 174	03/13/23 07:31	03/22/23 21:23	1
13C4 PFHpA	91		10 - 178	03/13/23 07:31	03/22/23 21:23	1
13C8 PFOA	85		26 - 159	03/13/23 07:31	03/22/23 21:23	1
13C9 PFNA	88		26 - 165	03/13/23 07:31	03/22/23 21:23	1
13C6 PFDA	83		26 - 161	03/13/23 07:31	03/22/23 21:23	1
13C7 PFUnA	78		12 - 173	03/13/23 07:31	03/22/23 21:23	1
13C2-PFDoDA	85		11 - 166	03/13/23 07:31	03/22/23 21:23	1
13C2 PFTeDA	92		10 - 169	03/13/23 07:31	03/22/23 21:23	1
13C3 PFBS	83		27 - 179	03/13/23 07:31	03/22/23 21:23	1
13C3 PFHxS	94		24 - 171	03/13/23 07:31	03/22/23 21:23	1
13C8 PFOS	92		41 - 154	03/13/23 07:31	03/22/23 21:23	1
d3-NMeFOSAA	29		10 - 178	03/13/23 07:31	03/22/23 21:23	1
d5-NEtFOSAA	33		10 - 193	03/13/23 07:31	03/22/23 21:23	1
13C8 FOSA	77		14 - 163	03/13/23 07:31	03/22/23 21:23	1
13C4 PFBA	82		28 - 153	03/13/23 07:31	03/22/23 21:23	1
13C5 PFPeA	88		24 - 161	03/13/23 07:31	03/22/23 21:23	1
d7-N-MeFOSE-M	86		10 - 179	03/13/23 07:31	03/22/23 21:23	1
d3-NMePFOSA	64		10 - 175	03/13/23 07:31	03/22/23 21:23	1
d9-N-EtFOSE-M	82		10 - 185	03/13/23 07:31	03/22/23 21:23	1
d5-NEtPFOSA	62		10 - 180	03/13/23 07:31	03/22/23 21:23	1
13C3 HFPO-DA	86		10 - 169	03/13/23 07:31	03/22/23 21:23	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.94	1.68	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Arsenic	**3.45**		2.96	1.38	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Barium	**24.4**		0.494	0.148	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Beryllium	**0.318**	**J**	0.494	0.0987	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Cadmium	ND		0.494	0.0987	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Chromium	**6.14**		1.48	0.346	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Lead	**8.25**		1.48	0.592	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Nickel	**3.88**		0.987	0.257	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Selenium	ND		4.94	1.48	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Silver	ND		0.987	0.395	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Thallium	ND		2.96	1.28	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Vanadium	**9.91**		0.987	0.425	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1
Zinc	**14.7**		1.97	0.790	mg/Kg	☼	03/14/23 09:00	03/15/23 22:26	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0622	0.0207	mg/Kg	☼	03/14/23 07:49	03/14/23 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.6**		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	**90.4**		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0608'
Date Collected: 03/06/23 12:25
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-22
Matrix: Solid
Percent Solids: 81.1

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00536	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Acetone	ND		0.0536	0.0120	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Acrylonitrile	ND		0.00536	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Benzene	ND		0.00536	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Bromobenzene	ND		0.00536	0.00357	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Bromochloromethane	ND		0.00536	0.00304	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Bromodichloromethane	ND		0.00536	0.00393	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Bromoform	ND		0.00536	0.00409	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Bromomethane	ND		0.0107	0.00667	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
2-Butanone (MEK)	ND		0.0107	0.00426	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
n-Butylbenzene	ND		0.0107	0.00574	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
sec-Butylbenzene	ND		0.00536	0.00432	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
tert-Butylbenzene	ND		0.00536	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Carbon disulfide	ND		0.0107	0.00376	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Carbon tetrachloride	ND		0.00536	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Chlorobenzene	ND		0.00536	0.00392	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Chloroethane	ND		0.0107	0.00393	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Chloroform	ND		0.00536	0.00360	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Chloromethane	ND		0.0107	0.00411	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
2-Chlorotoluene	ND		0.00536	0.00426	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
4-Chlorotoluene	ND		0.00536	0.00465	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2-Dibromo-3-Chloropropane	ND	*+	0.0107	0.00454	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Dibromochloromethane	ND		0.00536	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2-Dibromoethane (EDB)	ND		0.00536	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Dibromomethane	ND		0.00536	0.00315	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2-Dichlorobenzene	ND		0.00536	0.00497	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,3-Dichlorobenzene	ND		0.00536	0.00430	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,4-Dichlorobenzene	ND		0.00536	0.00508	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0107	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,1-Dichloroethane	ND		0.00536	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2-Dichloroethane	ND		0.00536	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,1-Dichloroethene	ND		0.00536	0.00328	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
cis-1,2-Dichloroethene	ND		0.00536	0.00310	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
trans-1,2-Dichloroethene	ND		0.00536	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2-Dichloropropane	ND		0.00536	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,3-Dichloropropane	ND		0.00536	0.00409	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
2,2-Dichloropropane	ND		0.00536	0.00370	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,1-Dichloropropene	ND		0.00536	0.00364	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
cis-1,3-Dichloropropene	ND		0.00536	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
trans-1,3-Dichloropropene	ND		0.00536	0.00407	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Ethylbenzene	ND		0.00536	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Hexachlorobutadiene	ND		0.0107	0.00539	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
2-Hexanone (MBK)	ND		0.0107	0.00315	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Isopropylbenzene	ND		0.00536	0.00405	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
4-Isopropyltoluene	ND		0.00536	0.00526	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Methyl tert-butyl ether	ND		0.00536	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		0.0107	0.00346	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Methylene Chloride	ND		0.0107	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Naphthalene	ND		0.00536	0.00484	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1

Client Sample ID: 2023-SB-09-0608' **Lab Sample ID: 620-10149-22**
Date Collected: 03/06/23 12:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.1**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00536	0.00453	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Styrene	ND		0.00536	0.00415	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,1,1,2-Tetrachloroethane	ND		0.00536	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00536	0.00491	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Tetrachloroethene	ND		0.00536	0.00298	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Toluene	ND		0.00536	0.00340	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2,3-Trichlorobenzene	ND		0.00536	0.00452	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2,4-Trichlorobenzene	ND		0.00536	0.00494	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,3,5-Trichlorobenzene	ND		0.00536	0.00509	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,1,1-Trichloroethane	ND		0.00536	0.00365	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,1,2-Trichloroethane	ND		0.00536	0.00404	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Trichloroethene	ND		0.00536	0.00360	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Trichlorofluoromethane (Freon 11)	ND		0.00536	0.00409	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2,3-Trichloropropane	ND		0.00536	0.00476	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,2,4-Trimethylbenzene	ND		0.00536	0.00453	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,3,5-Trimethylbenzene	ND		0.00536	0.00455	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Vinyl chloride	ND		0.00536	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
m,p-Xylene	ND		0.00536	0.00732	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
o-Xylene	ND		0.00536	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Tetrahydrofuran	ND		0.0107	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Ethyl ether	ND		0.00536	0.00282	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Tert-amyl methyl ether	ND		0.00536	0.00423	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Ethyl tert-butyl ether	ND		0.00536	0.00352	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
di-Isopropyl ether	ND		0.00536	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
tert-Butanol	ND		0.107	0.0287	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,4-Dioxane	ND		0.107	0.0333	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
trans-1,4-Dichloro-2-butene	ND		0.0268	0.00395	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Ethanol	ND		1.07	0.0664	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
1,3-Dichloropropene, Total	ND		0.00536	0.00407	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1
Xylenes, Total	ND		0.0161	0.00536	mg/Kg	☼	03/14/23 10:36	03/14/23 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:19*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:19*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:19*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.396	0.0705	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
1,2,4-Trichlorobenzene	ND		0.396	0.0908	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
1,2-Dichlorobenzene	ND		0.396	0.0764	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
1,3-Dichlorobenzene	ND		0.396	0.0960	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
1,4-Dichlorobenzene	ND		0.396	0.0933	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
1-Methylnaphthalene	ND		0.0801	0.0673	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2,4,5-Trichlorophenol	ND		0.396	0.0454	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2,4,6-Trichlorophenol	ND		0.201	0.0490	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2,4-Dichlorophenol	ND		0.201	0.0799	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2,4-Dimethylphenol	ND		0.396	0.0581	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2,4-Dinitrophenol	ND		0.396	0.104	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-0608' **Lab Sample ID: 620-10149-22**
Date Collected: 03/06/23 12:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2,6-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2-Chloronaphthalene	ND		0.396	0.0916	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2-Chlorophenol	ND		0.201	0.0820	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2-Methylnaphthalene	ND		0.0801	0.0592	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2-Methylphenol	ND		0.396	0.0579	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2-Nitroaniline	ND		0.396	0.0377	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
2-Nitrophenol	ND		0.201	0.0712	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
3 & 4 Methylphenol	ND		0.396	0.0751	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
3,3'-Dichlorobenzidine	ND		0.396	0.0655	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
3-Nitroaniline	ND		0.396	0.0354	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
4,6-Dinitro-2-methylphenol	ND		0.396	0.0712	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
4-Bromophenyl phenyl ether	ND		0.396	0.0448	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
4-Chloro-3-methylphenol	ND		0.396	0.0776	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
4-Chloroaniline	ND		0.201	0.0304	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
4-Chlorophenyl phenyl ether	ND		0.396	0.0424	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
4-Nitroaniline	ND		0.201	0.0633	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
4-Nitrophenol	ND		0.396	0.138	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Acenaphthene	ND		0.0801	0.0639	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Acenaphthylene	**0.0648**	**J**	0.0801	0.0526	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Acetophenone	ND		0.201	0.0489	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Aniline	ND		0.396	0.0304	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Anthracene	**0.0696**	**J**	0.0801	0.0464	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Azobenzene/Diphenyldiazene	ND		0.396	0.0676	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzidine	ND	*- *1	0.793	0.117	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzo[a]anthracene	**0.133**		0.0801	0.0450	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzo[a]pyrene	**0.0882**		0.0801	0.0573	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzo[b]fluoranthene	**0.0978**		0.0801	0.0664	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzo[g,h,i]perylene	**0.0630**	**J**	0.0801	0.0626	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzo[k]fluoranthene	**0.0993**		0.0801	0.0623	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzoic acid	ND	*- *1	0.396	0.273	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Benzyl alcohol	ND		0.396	0.0718	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Bis(2-chloroethoxy)methane	ND		0.396	0.0689	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Bis(2-chloroethyl)ether	ND		0.201	0.0656	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0892	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Bis(2-ethylhexyl) phthalate	ND		0.201	0.0510	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Butyl benzyl phthalate	ND		0.396	0.0398	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Carbazole	ND		0.201	0.0525	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Chrysene	**0.163**		0.0801	0.0453	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Dibenz(a,h)anthracene	ND		0.0801	0.0611	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Dibenzofuran	ND		0.201	0.0694	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Diethyl phthalate	ND		0.396	0.0435	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Dimethyl phthalate	ND		0.396	0.0516	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Di-n-butyl phthalate	ND		0.396	0.0424	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Di-n-octyl phthalate	ND		0.396	0.0655	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Fluoranthene	**0.359**		0.0801	0.0470	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Fluorene	ND		0.0801	0.0731	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Hexachlorobenzene	ND		0.201	0.0556	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1

Client Sample ID: 2023-SB-09-0608' **Lab Sample ID: 620-10149-22**
Date Collected: 03/06/23 12:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.1**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0766	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Hexachloroethane	ND		0.201	0.0788	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0801	0.0680	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Isophorone	ND		0.201	0.0549	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Naphthalene	ND		0.0801	0.0769	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Nitrobenzene	ND		0.201	0.0926	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
N-Nitrosodimethylamine	ND		0.201	0.0526	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0799	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
N-Nitrosodiphenylamine	ND		0.396	0.0506	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Pentachloronitrobenzene	ND		0.396	0.0626	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Pentachlorophenol	ND		0.396	0.162	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Phenanthrene	**0.149**		0.0801	0.0454	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Phenol	ND		0.396	0.0817	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Pyrene	**0.458**		0.0801	0.0442	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1
Pyridine	ND		0.396	0.0938	mg/Kg	☼	03/20/23 13:14	03/21/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*30 - 130*	*03/20/23 13:14*	*03/21/23 21:17*	*1*
2-Fluorophenol (Surr)	*89*		*15 - 110*	*03/20/23 13:14*	*03/21/23 21:17*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/20/23 13:14*	*03/21/23 21:17*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/20/23 13:14*	*03/21/23 21:17*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 110*	*03/20/23 13:14*	*03/21/23 21:17*	*1*
Terphenyl-d14	*70*		*30 - 130*	*03/20/23 13:14*	*03/21/23 21:17*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.265	0.136	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.265	0.113	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0530	0.0106	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
Ethylbenzene	ND		0.0530	0.0106	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
Methyl tert-butyl ether	ND		0.0530	0.0106	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
m,p-Xylene	ND		0.106	0.0106	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
Naphthalene	ND		0.0530	0.0360	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
o-Xylene	ND		0.0530	0.0106	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
Toluene	ND		0.0530	0.0106	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
C5-C8 Aliphatics (unadjusted)	ND		0.265	0.136	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
C9-C10 Aromatics	ND		0.265	0.0371	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1
C9-C12 Aliphatics (unadjusted)	ND		0.265	0.113	mg/Kg	☼	03/13/23 07:46	03/13/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/13/23 07:46*	*03/13/23 19:45*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/13/23 07:46*	*03/13/23 19:45*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1
PCB-1221	ND		0.0229	0.00675	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1
PCB-1232	ND		0.0229	0.00633	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1

Client Sample ID: 2023-SB-09-0608' **Lab Sample ID: 620-10149-22**
Date Collected: 03/06/23 12:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0229	0.00361	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1
PCB-1248	ND		0.0229	0.00714	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1
PCB-1254	ND		0.0229	0.0178	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1
PCB-1262	ND		0.0229	0.00533	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1
PCB-1260	ND		0.0229	0.00491	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1
PCB-1268	ND		0.0229	0.00487	mg/Kg	☼	03/10/23 15:43	03/13/23 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:35*	*1*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:35*	*1*
DCB Decachlorobiphenyl (Surr)	*126*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:35*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:35*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluoroheptanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorooctanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorononanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorodecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorotridecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorotetradecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorobutanesulfonic acid	ND		2.47	0.493	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorohexanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorooctanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
NEtFOSAA	ND		2.47	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
NMeFOSAA	ND		2.47	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
10:2 FTS	ND		2.47	0.740	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluoropentanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluoroheptanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorononanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorodecanesulfonic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.47	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorooctanesulfonamide	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorohexadecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorooctadecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorobutanoic acid	ND		2.47	0.986	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluoropentanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
NMeFOSE	ND		2.47	0.616	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
NMeFOSA	ND		2.47	0.616	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
NEtFOSE	ND		2.47	0.616	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
NEtFOSA	ND		2.47	0.616	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
HFPODA	ND		2.47	1.23	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
DONA	ND		3.70	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
9Cl-PF3ONS	ND		2.47	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
11Cl-PF3OUdS	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluorododecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.47	0.740	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
Perfluoroundecanoic acid	ND		0.740	0.247	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1

Client Sample ID: 2023-SB-09-0608' **Lab Sample ID: 620-10149-22**
Date Collected: 03/06/23 12:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.1**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.47	0.740	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.70	0.740	ug/Kg	☼	03/13/23 07:31	03/22/23 21:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*85*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
M2-8:2 FTS	*102*		*15 - 200*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
M2-6:2 FTS	*84*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C5 PFHxA	*93*		*10 - 174*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C4 PFHpA	*94*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C8 PFOA	*93*		*26 - 159*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C9 PFNA	*93*		*26 - 165*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C6 PFDA	*90*		*26 - 161*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C7 PFUnA	*87*		*12 - 173*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C2-PFDoDA	*92*		*11 - 166*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C2 PFTeDA	*91*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C3 PFBS	*88*		*27 - 179*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C3 PFHxS	*91*		*24 - 171*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C8 PFOS	*95*		*41 - 154*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
d3-NMeFOSAA	*22*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
d5-NEtFOSAA	*24*		*10 - 193*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C8 FOSA	*84*		*14 - 163*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C4 PFBA	*94*		*28 - 153*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C5 PFPeA	*94*		*24 - 161*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
d7-N-MeFOSE-M	*99*		*10 - 179*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
d3-NMePFOSA	*88*		*10 - 175*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
d9-N-EtFOSE-M	*95*		*10 - 185*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
d5-NEtPFOSA	*87*		*10 - 180*	*03/13/23 07:31*	*03/22/23 21:34*	*1*
13C3 HFPO-DA	*89*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:34*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.36	1.82	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Arsenic	**7.73**		3.22	1.50	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Barium	**75.6**		0.536	0.161	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Beryllium	**1.09**		0.536	0.107	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Cadmium	ND		0.536	0.107	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Chromium	**20.4**		1.61	0.375	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Lead	**8.01**		1.61	0.643	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Nickel	**11.9**		1.07	0.279	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Selenium	ND		5.36	1.61	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Silver	ND		1.07	0.429	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Thallium	ND		32.2	13.9	mg/Kg	☼	03/14/23 09:00	03/15/23 22:58	10
Vanadium	**33.9**		1.07	0.461	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1
Zinc	**48.1**		2.14	0.857	mg/Kg	☼	03/14/23 09:00	03/15/23 22:55	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0683	0.0228	mg/Kg	☼	03/14/23 07:49	03/14/23 13:16	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0608'
Date Collected: 03/06/23 12:25
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-22
Matrix: Solid
Percent Solids: 81.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	18.9		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	81.1		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0810'
Date Collected: 03/06/23 12:30
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-23
Matrix: Solid
Percent Solids: 78.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0181	0.0118	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Acetone	**0.0939**	**J B**	0.181	0.0406	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Acrylonitrile	ND		0.0181	0.0109	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Benzene	ND		0.0181	0.0121	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Bromobenzene	ND		0.0181	0.0121	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Bromochloromethane	ND		0.0181	0.0103	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Bromodichloromethane	ND		0.0181	0.0133	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Bromoform	ND		0.0181	0.0139	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Bromomethane	ND		0.0363	0.0226	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
2-Butanone (MEK)	ND		0.0363	0.0144	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
n-Butylbenzene	ND		0.0363	0.0194	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
sec-Butylbenzene	ND		0.0181	0.0146	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
tert-Butylbenzene	ND		0.0181	0.0143	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Carbon disulfide	ND		0.0363	0.0127	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Carbon tetrachloride	ND		0.0181	0.0114	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Chlorobenzene	ND		0.0181	0.0133	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Chloroethane	ND		0.0363	0.0133	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Chloroform	ND		0.0181	0.0122	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Chloromethane	ND		0.0363	0.0139	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
2-Chlorotoluene	ND		0.0181	0.0144	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
4-Chlorotoluene	ND		0.0181	0.0157	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2-Dibromo-3-Chloropropane	ND	*+	0.0363	0.0154	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Dibromochloromethane	ND		0.0181	0.0120	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2-Dibromoethane (EDB)	ND		0.0181	0.0130	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Dibromomethane	ND		0.0181	0.0107	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2-Dichlorobenzene	ND		0.0181	0.0168	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,3-Dichlorobenzene	ND		0.0181	0.0145	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,4-Dichlorobenzene	ND		0.0181	0.0172	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0363	0.00972	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,1-Dichloroethane	ND		0.0181	0.0123	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2-Dichloroethane	ND		0.0181	0.0122	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,1-Dichloroethene	ND		0.0181	0.0111	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
cis-1,2-Dichloroethene	ND		0.0181	0.0105	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
trans-1,2-Dichloroethene	ND		0.0181	0.0113	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2-Dichloropropane	ND		0.0181	0.0120	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,3-Dichloropropane	ND		0.0181	0.0139	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
2,2-Dichloropropane	ND		0.0181	0.0125	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,1-Dichloropropene	ND		0.0181	0.0123	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
cis-1,3-Dichloropropene	ND		0.0181	0.0118	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
trans-1,3-Dichloropropene	ND		0.0181	0.0138	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Ethylbenzene	ND		0.0181	0.0129	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Hexachlorobutadiene	ND		0.0363	0.0182	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
2-Hexanone (MBK)	ND		0.0363	0.0107	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Isopropylbenzene	ND		0.0181	0.0137	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
4-Isopropyltoluene	ND		0.0181	0.0178	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Methyl tert-butyl ether	ND		0.0181	0.0104	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0363	0.0117	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Methylene Chloride	ND		0.0363	0.00972	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Naphthalene	ND		0.0181	0.0164	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1

Client Sample ID: 2023-SB-09-0810' **Lab Sample ID: 620-10149-23**
Date Collected: 03/06/23 12:30 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 78.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.0181	0.0153	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Styrene	ND		0.0181	0.0140	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,1,1,2-Tetrachloroethane	ND		0.0181	0.0136	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,1,2,2-Tetrachloroethane	ND	*+	0.0181	0.0166	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Tetrachloroethene	ND		0.0181	0.0101	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Toluene	ND		0.0181	0.0115	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2,3-Trichlorobenzene	ND		0.0181	0.0153	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2,4-Trichlorobenzene	ND		0.0181	0.0167	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,3,5-Trichlorobenzene	ND		0.0181	0.0172	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,1,1-Trichloroethane	ND		0.0181	0.0124	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,1,2-Trichloroethane	ND		0.0181	0.0137	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Trichloroethene	ND		0.0181	0.0122	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Trichlorofluoromethane (Freon 11)	ND		0.0181	0.0139	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2,3-Trichloropropane	ND		0.0181	0.0161	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,2,4-Trimethylbenzene	ND		0.0181	0.0153	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,3,5-Trimethylbenzene	ND		0.0181	0.0154	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Vinyl chloride	ND		0.0181	0.0111	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
m,p-Xylene	ND		0.0181	0.0248	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
o-Xylene	ND		0.0181	0.0132	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Tetrahydrofuran	ND		0.0363	0.00918	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Ethyl ether	ND		0.0181	0.00954	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Tert-amyl methyl ether	ND		0.0181	0.0143	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Ethyl tert-butyl ether	ND		0.0181	0.0119	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
di-Isopropyl ether	ND		0.0181	0.0129	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
tert-Butanol	**0.116**	**J**	0.363	0.0972	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,4-Dioxane	ND		0.363	0.113	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
trans-1,4-Dichloro-2-butene	ND		0.0907	0.0134	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Ethanol	**1.29**	**J**	3.63	0.225	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
1,3-Dichloropropene, Total	ND		0.0181	0.0138	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1
Xylenes, Total	ND		0.0544	0.0181	mg/Kg	☼	03/14/23 10:36	03/14/23 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:45*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:45*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/14/23 10:36*	*03/14/23 20:45*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.413	0.0736	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
1,2,4-Trichlorobenzene	ND		0.413	0.0947	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
1,2-Dichlorobenzene	ND		0.413	0.0797	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
1,3-Dichlorobenzene	ND		0.413	0.100	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
1,4-Dichlorobenzene	ND		0.413	0.0974	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
1-Methylnaphthalene	ND		0.0836	0.0702	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2,4,5-Trichlorophenol	ND		0.413	0.0474	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2,4,6-Trichlorophenol	ND		0.209	0.0511	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2,4-Dichlorophenol	ND		0.209	0.0833	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2,4-Dimethylphenol	ND		0.413	0.0606	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2,4-Dinitrophenol	ND		0.413	0.109	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0810'
Date Collected: 03/06/23 12:30
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-23
Matrix: Solid
Percent Solids: 78.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2,6-Dinitrotoluene	ND		0.209	0.0490	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2-Chloronaphthalene	ND		0.413	0.0956	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2-Chlorophenol	ND		0.209	0.0856	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2-Methylnaphthalene	ND		0.0836	0.0618	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2-Methylphenol	ND		0.413	0.0604	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2-Nitroaniline	ND		0.413	0.0393	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
2-Nitrophenol	ND		0.209	0.0743	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
3 & 4 Methylphenol	ND		0.413	0.0783	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
3,3'-Dichlorobenzidine	ND		0.413	0.0683	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
3-Nitroaniline	ND		0.413	0.0370	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
4,6-Dinitro-2-methylphenol	ND		0.413	0.0743	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
4-Bromophenyl phenyl ether	ND		0.413	0.0467	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
4-Chloro-3-methylphenol	ND		0.413	0.0809	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
4-Chloroaniline	ND		0.209	0.0317	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
4-Chlorophenyl phenyl ether	ND		0.413	0.0442	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
4-Nitroaniline	ND		0.209	0.0660	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
4-Nitrophenol	ND		0.413	0.144	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Acenaphthene	ND		0.0836	0.0667	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Acenaphthylene	ND		0.0836	0.0549	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Acetophenone	ND		0.209	0.0510	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Aniline	ND		0.413	0.0317	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Anthracene	ND		0.0836	0.0484	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Azobenzene/Diphenyldiazene	ND		0.413	0.0705	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzidine	ND	*- *1	0.827	0.122	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzo[a]anthracene	ND		0.0836	0.0470	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzo[a]pyrene	ND		0.0836	0.0598	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzo[b]fluoranthene	ND		0.0836	0.0693	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzo[g,h,i]perylene	ND		0.0836	0.0653	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzo[k]fluoranthene	ND		0.0836	0.0650	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzoic acid	ND	*- *1	0.413	0.284	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Benzyl alcohol	ND		0.413	0.0749	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Bis(2-chloroethoxy)methane	ND		0.413	0.0719	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Bis(2-chloroethyl)ether	ND		0.209	0.0684	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
bis (2-chloroisopropyl) ether	ND		0.209	0.0931	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Bis(2-ethylhexyl) phthalate	ND		0.209	0.0533	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Butyl benzyl phthalate	ND		0.413	0.0415	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Carbazole	ND		0.209	0.0548	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Chrysene	ND		0.0836	0.0472	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Dibenz(a,h)anthracene	ND		0.0836	0.0638	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Dibenzofuran	ND		0.209	0.0724	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Diethyl phthalate	ND		0.413	0.0454	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Dimethyl phthalate	ND		0.413	0.0539	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Di-n-butyl phthalate	ND		0.413	0.0442	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Di-n-octyl phthalate	ND		0.413	0.0683	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Fluoranthene	ND		0.0836	0.0490	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Fluorene	ND		0.0836	0.0763	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Hexachlorobenzene	ND		0.209	0.0580	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Hexachlorobutadiene	ND		0.209	0.104	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1

Client Sample ID: 2023-SB-09-0810' **Lab Sample ID: 620-10149-23**
Date Collected: 03/06/23 12:30 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 78.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.209	0.0799	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Hexachloroethane	ND		0.209	0.0822	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0836	0.0709	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Isophorone	ND		0.209	0.0573	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Naphthalene	ND		0.0836	0.0802	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Nitrobenzene	ND		0.209	0.0966	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
N-Nitrosodimethylamine	ND		0.209	0.0549	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
N-Nitrosodi-n-propylamine	ND		0.209	0.0833	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
N-Nitrosodiphenylamine	ND		0.413	0.0528	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Pentachloronitrobenzene	ND		0.413	0.0653	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Pentachlorophenol	ND		0.413	0.169	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Phenanthrene	ND		0.0836	0.0474	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Phenol	ND		0.413	0.0852	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Pyrene	ND		0.0836	0.0461	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1
Pyridine	ND		0.413	0.0979	mg/Kg	☼	03/20/23 13:14	03/21/23 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*30 - 130*	*03/20/23 13:14*	*03/21/23 21:45*	*1*
2-Fluorophenol (Surr)	*98*		*15 - 110*	*03/20/23 13:14*	*03/21/23 21:45*	*1*
Nitrobenzene-d5 (Surr)	*114*		*30 - 130*	*03/20/23 13:14*	*03/21/23 21:45*	*1*
Phenol-d5 (Surr)	*96*		*15 - 110*	*03/20/23 13:14*	*03/21/23 21:45*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*	*03/20/23 13:14*	*03/21/23 21:45*	*1*
Terphenyl-d14	*101*		*30 - 130*	*03/20/23 13:14*	*03/21/23 21:45*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.338	0.173	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.338	0.145	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0675	0.0135	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
Ethylbenzene	ND		0.0675	0.0135	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
Methyl tert-butyl ether	ND		0.0675	0.0135	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
m,p-Xylene	ND		0.135	0.0135	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
Naphthalene	ND		0.0675	0.0459	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
o-Xylene	ND		0.0675	0.0135	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
Toluene	ND		0.0675	0.0135	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
C5-C8 Aliphatics (unadjusted)	ND		0.338	0.173	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
C9-C10 Aromatics	ND		0.338	0.0473	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1
C9-C12 Aliphatics (unadjusted)	ND		0.338	0.145	mg/Kg	☼	03/13/23 07:46	03/13/23 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/13/23 07:46*	*03/13/23 21:04*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/13/23 07:46*	*03/13/23 21:04*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0231	0.0167	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1
PCB-1221	ND		0.0231	0.00683	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1
PCB-1232	ND		0.0231	0.00641	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1

Client Sample ID: 2023-SB-09-0810'
Lab Sample ID: 620-10149-23
Date Collected: 03/06/23 12:30
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 78.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0231	0.00365	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1
PCB-1248	ND		0.0231	0.00723	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1
PCB-1254	ND		0.0231	0.0180	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1
PCB-1262	ND		0.0231	0.00539	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1
PCB-1260	ND		0.0231	0.00497	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1
PCB-1268	ND		0.0231	0.00493	mg/Kg	☼	03/10/23 15:43	03/13/23 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:53*	*1*
Tetrachloro-m-xylene	*61*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:53*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:53*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*03/10/23 15:43*	*03/13/23 22:53*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluoroheptanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorooctanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorononanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorodecanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorotridecanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorotetradecanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorobutanesulfonic acid	ND		2.32	0.463	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorohexanesulfonic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorooctanesulfonic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
NEtFOSAA	ND		2.32	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
NMeFOSAA	ND		2.32	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
10:2 FTS	ND		2.32	0.695	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluoropentanesulfonic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluoroheptanesulfonic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorononanesulfonic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorodecanesulfonic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.32	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorooctanesulfonamide	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorohexadecanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorooctadecanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorobutanoic acid	ND		2.32	0.927	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluoropentanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
NMeFOSE	ND		2.32	0.579	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
NMeFOSA	ND		2.32	0.579	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
NEtFOSE	ND		2.32	0.579	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
NEtFOSA	ND		2.32	0.579	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
HFPODA	ND		2.32	1.16	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
DONA	ND		3.48	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
9Cl-PF3ONS	ND		2.32	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
11Cl-PF3OUdS	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluorododecanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
4:2 Fluorotelomer sulfonic acid	ND		2.32	0.695	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
Perfluoroundecanoic acid	ND		0.695	0.232	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1

Client Sample ID: 2023-SB-09-0810' Lab Sample ID: 620-10149-23

Date Collected: 03/06/23 12:30 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 78.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.32	0.695	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1
8:2 Fluorotelomer sulfonic acid	ND		3.48	0.695	ug/Kg	☼	03/13/23 07:31	03/22/23 21:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*94*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
M2-8:2 FTS	*93*		*15 - 200*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
M2-6:2 FTS	*97*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C5 PFHxA	*97*		*10 - 174*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C8 PFOA	*97*		*26 - 159*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C9 PFNA	*94*		*26 - 165*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C6 PFDA	*90*		*26 - 161*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C7 PFUnA	*91*		*12 - 173*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C2-PFDoDA	*95*		*11 - 166*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C2 PFTeDA	*90*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C3 PFBS	*91*		*27 - 179*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C3 PFHxS	*93*		*24 - 171*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C8 PFOS	*91*		*41 - 154*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
d3-NMeFOSAA	*70*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
d5-NEtFOSAA	*70*		*10 - 193*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C8 FOSA	*84*		*14 - 163*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C4 PFBA	*98*		*28 - 153*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C5 PFPeA	*100*		*24 - 161*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
d7-N-MeFOSE-M	*85*		*10 - 179*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
d3-NMePFOSA	*85*		*10 - 175*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
d9-N-EtFOSE-M	*80*		*10 - 185*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
d5-NEtPFOSA	*86*		*10 - 180*	*03/13/23 07:31*	*03/22/23 21:45*	*1*
13C3 HFPO-DA	*88*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:45*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.55	1.55	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Arsenic	**12.5**		2.73	1.27	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Barium	**92.1**		0.455	0.137	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Beryllium	**1.55**		0.455	0.0910	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Cadmium	ND		0.455	0.0910	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Chromium	**25.5**		1.37	0.319	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Lead	**9.85**		1.37	0.546	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Nickel	**15.6**		0.910	0.237	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Selenium	ND		4.55	1.37	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Silver	ND	^3+	0.910	0.364	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Thallium	ND		27.3	11.8	mg/Kg	☼	03/14/23 05:45	03/14/23 17:48	10
Vanadium	**45.4**		0.910	0.391	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1
Zinc	**66.9**	**^5-**	1.82	0.728	mg/Kg	☼	03/14/23 05:45	03/14/23 17:44	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0706	0.0235	mg/Kg	☼	03/14/23 11:01	03/14/23 14:17	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-0810'
Date Collected: 03/06/23 12:30
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-23
Matrix: Solid
Percent Solids: 78.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	21.5		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	78.5		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-1012'
Date Collected: 03/06/23 12:35
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-24
Matrix: Solid
Percent Solids: 83.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00506	0.00330	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Acetone	ND		0.0506	0.0113	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Acrylonitrile	ND		0.00506	0.00304	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Benzene	ND		0.00506	0.00338	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Bromobenzene	ND		0.00506	0.00337	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Bromochloromethane	ND		0.00506	0.00287	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Bromodichloromethane	ND		0.00506	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Bromoform	ND		0.00506	0.00386	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Bromomethane	ND		0.0101	0.00630	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
n-Butylbenzene	ND		0.0101	0.00542	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
sec-Butylbenzene	ND		0.00506	0.00408	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
tert-Butylbenzene	ND		0.00506	0.00399	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Carbon disulfide	ND		0.0101	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Carbon tetrachloride	ND		0.00506	0.00319	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Chlorobenzene	ND		0.00506	0.00370	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Chloroethane	ND		0.0101	0.00371	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Chloroform	ND		0.00506	0.00340	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Chloromethane	ND		0.0101	0.00389	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
2-Chlorotoluene	ND		0.00506	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
4-Chlorotoluene	ND		0.00506	0.00439	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2-Dibromo-3-Chloropropane	ND	*+	0.0101	0.00429	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Dibromochloromethane	ND		0.00506	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2-Dibromoethane (EDB)	ND		0.00506	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Dibromomethane	ND		0.00506	0.00297	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2-Dichlorobenzene	ND		0.00506	0.00469	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,3-Dichlorobenzene	ND		0.00506	0.00406	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,4-Dichlorobenzene	ND		0.00506	0.00480	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,1-Dichloroethane	ND		0.00506	0.00343	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2-Dichloroethane	ND		0.00506	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,1-Dichloroethene	ND		0.00506	0.00310	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
cis-1,2-Dichloroethene	ND		0.00506	0.00292	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
trans-1,2-Dichloroethene	ND		0.00506	0.00315	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2-Dichloropropane	ND		0.00506	0.00335	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,3-Dichloropropane	ND		0.00506	0.00386	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
2,2-Dichloropropane	ND		0.00506	0.00349	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,1-Dichloropropene	ND		0.00506	0.00344	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
cis-1,3-Dichloropropene	ND		0.00506	0.00330	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
trans-1,3-Dichloropropene	ND		0.00506	0.00384	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Ethylbenzene	ND		0.00506	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Hexachlorobutadiene	ND		0.0101	0.00509	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Isopropylbenzene	ND		0.00506	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
4-Isopropyltoluene	ND		0.00506	0.00497	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Methyl tert-butyl ether	ND		0.00506	0.00291	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Naphthalene	ND		0.00506	0.00457	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1

Client Sample ID: 2023-SB-09-1012' **Lab Sample ID: 620-10149-24**
Date Collected: 03/06/23 12:35 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00506	0.00428	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Styrene	ND		0.00506	0.00392	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,1,1,2-Tetrachloroethane	ND		0.00506	0.00379	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00506	0.00463	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Tetrachloroethene	ND		0.00506	0.00281	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Toluene	ND		0.00506	0.00321	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2,3-Trichlorobenzene	ND		0.00506	0.00427	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2,4-Trichlorobenzene	ND		0.00506	0.00466	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,3,5-Trichlorobenzene	ND		0.00506	0.00481	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,1,1-Trichloroethane	ND		0.00506	0.00345	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,1,2-Trichloroethane	ND		0.00506	0.00381	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Trichloroethene	ND		0.00506	0.00340	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Trichlorofluoromethane (Freon 11)	ND		0.00506	0.00386	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2,3-Trichloropropane	ND		0.00506	0.00449	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,2,4-Trimethylbenzene	ND		0.00506	0.00428	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,3,5-Trimethylbenzene	ND		0.00506	0.00430	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Vinyl chloride	ND		0.00506	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
m,p-Xylene	ND		0.00506	0.00691	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
o-Xylene	ND		0.00506	0.00369	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Ethyl ether	ND		0.00506	0.00266	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Tert-amyl methyl ether	ND		0.00506	0.00400	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Ethyl tert-butyl ether	ND		0.00506	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
di-Isopropyl ether	ND		0.00506	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00373	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Ethanol	ND		1.01	0.0627	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
1,3-Dichloropropene, Total	ND		0.00506	0.00384	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1
Xylenes, Total	ND		0.0152	0.00506	mg/Kg	☼	03/14/23 10:36	03/14/23 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/14/23 10:36*	*03/14/23 21:11*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/14/23 10:36*	*03/14/23 21:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*03/14/23 10:36*	*03/14/23 21:11*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/14/23 10:36*	*03/14/23 21:11*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.389	0.0692	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
1,2,4-Trichlorobenzene	ND		0.389	0.0891	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
1,2-Dichlorobenzene	ND		0.389	0.0749	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
1,3-Dichlorobenzene	ND		0.389	0.0941	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
1,4-Dichlorobenzene	ND		0.389	0.0915	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
1-Methylnaphthalene	ND		0.0786	0.0660	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2,4,5-Trichlorophenol	ND		0.389	0.0445	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2,4,6-Trichlorophenol	ND		0.197	0.0481	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2,4-Dichlorophenol	ND		0.197	0.0783	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2,4-Dimethylphenol	ND		0.389	0.0570	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2,4-Dinitrophenol	ND		0.389	0.102	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-1012'
Date Collected: 03/06/23 12:35
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-24
Matrix: Solid
Percent Solids: 83.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.197	0.0461	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2,6-Dinitrotoluene	ND		0.197	0.0461	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2-Chloronaphthalene	ND		0.389	0.0899	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2-Chlorophenol	ND		0.197	0.0805	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2-Methylnaphthalene	ND		0.0786	0.0581	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2-Methylphenol	ND		0.389	0.0568	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2-Nitroaniline	ND		0.389	0.0370	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
2-Nitrophenol	ND		0.197	0.0699	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
3 & 4 Methylphenol	ND		0.389	0.0736	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
3,3'-Dichlorobenzidine	ND		0.389	0.0642	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
3-Nitroaniline	ND		0.389	0.0348	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
4,6-Dinitro-2-methylphenol	ND		0.389	0.0699	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
4-Bromophenyl phenyl ether	ND		0.389	0.0439	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
4-Chloro-3-methylphenol	ND		0.389	0.0761	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
4-Chloroaniline	ND		0.197	0.0298	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
4-Chlorophenyl phenyl ether	ND		0.389	0.0416	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
4-Nitroaniline	ND		0.197	0.0621	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
4-Nitrophenol	ND		0.389	0.135	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Acenaphthene	ND		0.0786	0.0627	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Acenaphthylene	**0.134**		0.0786	0.0516	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Acetophenone	ND		0.197	0.0480	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Aniline	ND		0.389	0.0298	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Anthracene	**0.106**		0.0786	0.0455	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Azobenzene/Diphenyldiazene	ND		0.389	0.0663	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzidine	ND	*- *1	0.778	0.115	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzo[a]anthracene	**0.276**		0.0786	0.0442	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzo[a]pyrene	**0.289**		0.0786	0.0562	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzo[b]fluoranthene	**0.202**		0.0786	0.0652	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzo[g,h,i]perylene	**0.192**		0.0786	0.0614	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzo[k]fluoranthene	**0.140**		0.0786	0.0611	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzoic acid	ND	*- *1	0.389	0.267	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Benzyl alcohol	ND		0.389	0.0705	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Bis(2-chloroethoxy)methane	ND		0.389	0.0676	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Bis(2-chloroethyl)ether	ND		0.197	0.0643	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
bis (2-chloroisopropyl) ether	ND		0.197	0.0875	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Bis(2-ethylhexyl) phthalate	ND		0.197	0.0501	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Butyl benzyl phthalate	ND		0.389	0.0390	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Carbazole	ND		0.197	0.0515	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Chrysene	**0.351**		0.0786	0.0444	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Dibenz(a,h)anthracene	**0.0863**		0.0786	0.0600	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Dibenzofuran	ND		0.197	0.0681	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Diethyl phthalate	ND		0.389	0.0427	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Dimethyl phthalate	ND		0.389	0.0507	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Di-n-butyl phthalate	ND		0.389	0.0416	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Di-n-octyl phthalate	ND		0.389	0.0642	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Fluoranthene	**0.468**		0.0786	0.0461	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Fluorene	ND		0.0786	0.0718	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Hexachlorobenzene	ND		0.197	0.0546	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Hexachlorobutadiene	ND		0.197	0.0981	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1

Client Sample ID: 2023-SB-09-1012' **Lab Sample ID: 620-10149-24**
Date Collected: 03/06/23 12:35 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.197	0.0752	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Hexachloroethane	ND		0.197	0.0773	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Indeno[1,2,3-cd]pyrene	**0.193**		0.0786	0.0667	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Isophorone	ND		0.197	0.0538	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Naphthalene	ND		0.0786	0.0754	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Nitrobenzene	ND		0.197	0.0908	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
N-Nitrosodimethylamine	ND		0.197	0.0516	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
N-Nitrosodi-n-propylamine	ND		0.197	0.0783	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
N-Nitrosodiphenylamine	ND		0.389	0.0496	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Pentachloronitrobenzene	ND		0.389	0.0614	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Pentachlorophenol	ND		0.389	0.159	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Phenanthrene	**0.214**		0.0786	0.0445	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Phenol	ND		0.389	0.0801	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Pyrene	**0.748**		0.0786	0.0434	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1
Pyridine	ND		0.389	0.0920	mg/Kg	☼	03/20/23 13:14	03/21/23 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*03/20/23 13:14*	*03/21/23 22:13*	*1*
2-Fluorophenol (Surr)	*65*		*15 - 110*	*03/20/23 13:14*	*03/21/23 22:13*	*1*
Nitrobenzene-d5 (Surr)	*58*		*30 - 130*	*03/20/23 13:14*	*03/21/23 22:13*	*1*
Phenol-d5 (Surr)	*62*		*15 - 110*	*03/20/23 13:14*	*03/21/23 22:13*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*15 - 110*	*03/20/23 13:14*	*03/21/23 22:13*	*1*
Terphenyl-d14	*50*		*30 - 130*	*03/20/23 13:14*	*03/21/23 22:13*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.272	0.139	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.272	0.116	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0544	0.0109	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
Ethylbenzene	ND		0.0544	0.0109	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
Methyl tert-butyl ether	ND		0.0544	0.0109	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
m,p-Xylene	ND		0.109	0.0109	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
Naphthalene	ND		0.0544	0.0370	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
o-Xylene	ND		0.0544	0.0109	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
Toluene	ND		0.0544	0.0109	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
C5-C8 Aliphatics (unadjusted)	ND		0.272	0.139	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
C9-C10 Aromatics	ND		0.272	0.0381	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1
C9-C12 Aliphatics (unadjusted)	ND		0.272	0.116	mg/Kg	☼	03/13/23 07:46	03/13/23 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/13/23 07:46*	*03/13/23 21:43*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/13/23 07:46*	*03/13/23 21:43*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0235	0.0169	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1
PCB-1221	ND		0.0235	0.00694	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1
PCB-1232	ND		0.0235	0.00651	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-1012' **Lab Sample ID: 620-10149-24**
Date Collected: 03/06/23 12:35 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0235	0.00371	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1
PCB-1248	ND		0.0235	0.00734	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1
PCB-1254	ND		0.0235	0.0183	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1
PCB-1262	ND		0.0235	0.00547	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1
PCB-1260	ND		0.0235	0.00505	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1
PCB-1268	ND		0.0235	0.00500	mg/Kg	☼	03/10/23 15:43	03/14/23 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:59*	*1*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/10/23 15:43*	*03/14/23 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*153*	*S1+*	*30 - 150*	*03/10/23 15:43*	*03/14/23 17:59*	*1*
DCB Decachlorobiphenyl (Surr)	*84*	*p*	*30 - 150*	*03/10/23 15:43*	*03/14/23 17:59*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluoroheptanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorooctanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorononanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorodecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorotridecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorotetradecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorobutanesulfonic acid	ND		2.34	0.468	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorohexanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorooctanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
NEtFOSAA	ND		2.34	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
NMeFOSAA	ND		2.34	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
10:2 FTS	ND		2.34	0.702	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluoropentanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluoroheptanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorononanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorodecanesulfonic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.34	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorooctanesulfonamide	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorohexadecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorooctadecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorobutanoic acid	ND		2.34	0.936	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluoropentanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
NMeFOSE	ND		2.34	0.585	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
NMeFOSA	ND		2.34	0.585	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
NEtFOSE	ND		2.34	0.585	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
NEtFOSA	ND		2.34	0.585	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
HFPODA	ND		2.34	1.17	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
DONA	ND		3.51	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
9Cl-PF3ONS	ND		2.34	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
11Cl-PF3OUdS	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluorododecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
4:2 Fluorotelomer sulfonic acid	ND		2.34	0.702	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
Perfluoroundecanoic acid	ND		0.702	0.234	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1

Client Sample ID: 2023-SB-09-1012' **Lab Sample ID: 620-10149-24**
Date Collected: 03/06/23 12:35 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.34	0.702	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1
8:2 Fluorotelomer sulfonic acid	ND		3.51	0.702	ug/Kg	☼	03/13/23 07:31	03/22/23 21:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*102*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
M2-8:2 FTS	*89*		*15 - 200*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
M2-6:2 FTS	*94*		*10 - 200*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C5 PFHxA	*101*		*10 - 174*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C4 PFHpA	*104*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C8 PFOA	*99*		*26 - 159*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C9 PFNA	*102*		*26 - 165*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C7 PFUnA	*95*		*12 - 173*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C2-PFDoDA	*94*		*11 - 166*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C2 PFTeDA	*94*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C3 PFBS	*96*		*27 - 179*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C3 PFHxS	*97*		*24 - 171*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C8 PFOS	*99*		*41 - 154*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
d3-NMeFOSAA	*64*		*10 - 178*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
d5-NEtFOSAA	*67*		*10 - 193*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C8 FOSA	*93*		*14 - 163*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C4 PFBA	*103*		*28 - 153*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C5 PFPeA	*103*		*24 - 161*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
d7-N-MeFOSE-M	*92*		*10 - 179*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
d3-NMePFOSA	*90*		*10 - 175*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
d9-N-EtFOSE-M	*90*		*10 - 185*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
d5-NEtPFOSA	*92*		*10 - 180*	*03/13/23 07:31*	*03/22/23 21:56*	*1*
13C3 HFPO-DA	*95*		*10 - 169*	*03/13/23 07:31*	*03/22/23 21:56*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.86	1.65	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Arsenic	**3.59**		2.92	1.36	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Barium	**25.3**		0.486	0.146	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Beryllium	**0.298**	**J**	0.486	0.0972	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Cadmium	ND		0.486	0.0972	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Chromium	**5.27**		1.46	0.340	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Lead	**6.78**		1.46	0.583	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Nickel	**2.78**		0.972	0.253	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Selenium	ND		4.86	1.46	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Silver	ND	^3+	0.972	0.389	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Thallium	ND		2.92	1.26	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Vanadium	**8.98**		0.972	0.418	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1
Zinc	**17.5**	**^5-**	1.94	0.778	mg/Kg	☼	03/14/23 05:45	03/14/23 17:51	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0689	0.0230	mg/Kg	☼	03/14/23 11:01	03/14/23 14:19	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-SB-09-1012'
Date Collected: 03/06/23 12:35
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-24
Matrix: Solid
Percent Solids: 83.0

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	17.0		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	83.0		0.1	0.1	%			03/10/23 08:54	1

Client Sample ID: 2023-MW-09-0002' **Lab Sample ID: 620-10149-25**
Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00591	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Acetone	**0.0343**	**J B *3**	0.0591	0.0132	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Acrylonitrile	ND	*3	0.00591	0.00355	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Benzene	ND	*3	0.00591	0.00395	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Bromobenzene	ND	*3	0.00591	0.00394	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Bromochloromethane	ND	*3	0.00591	0.00336	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Bromodichloromethane	ND	*3	0.00591	0.00434	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Bromoform	ND	*3	0.00591	0.00451	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Bromomethane	ND	*3	0.0118	0.00736	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
2-Butanone (MEK)	ND	*3	0.0118	0.00470	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
n-Butylbenzene	ND	*3	0.0118	0.00633	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
sec-Butylbenzene	ND	*3	0.00591	0.00476	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
tert-Butylbenzene	ND	*3	0.00591	0.00466	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Carbon disulfide	ND	*3	0.0118	0.00415	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Carbon tetrachloride	ND	*3	0.00591	0.00372	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Chlorobenzene	ND	*3	0.00591	0.00432	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Chloroethane	ND	*3	0.0118	0.00434	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Chloroform	ND	*3	0.00591	0.00397	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Chloromethane	ND	*3	0.0118	0.00454	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
2-Chlorotoluene	ND	*3	0.00591	0.00470	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
4-Chlorotoluene	ND	*3	0.00591	0.00513	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.0118	0.00501	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Dibromochloromethane	ND	*3	0.00591	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2-Dibromoethane (EDB)	ND	*3	0.00591	0.00424	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Dibromomethane	ND	*3	0.00591	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2-Dichlorobenzene	ND	*3	0.00591	0.00548	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,3-Dichlorobenzene	ND	*3	0.00591	0.00474	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,4-Dichlorobenzene	ND	*3	0.00591	0.00560	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0118	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,1-Dichloroethane	ND	*3	0.00591	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2-Dichloroethane	ND	*3	0.00591	0.00398	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,1-Dichloroethene	ND	*3	0.00591	0.00362	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
cis-1,2-Dichloroethene	ND	*3	0.00591	0.00342	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
trans-1,2-Dichloroethene	ND	*3	0.00591	0.00368	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2-Dichloropropane	ND	*3	0.00591	0.00391	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,3-Dichloropropane	ND	*3	0.00591	0.00451	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
2,2-Dichloropropane	ND	*3	0.00591	0.00408	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,1-Dichloropropene	ND	*3	0.00591	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
cis-1,3-Dichloropropene	ND	*3	0.00591	0.00385	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
trans-1,3-Dichloropropene	ND	*3	0.00591	0.00449	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Ethylbenzene	ND	*3	0.00591	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Hexachlorobutadiene	ND	*3	0.0118	0.00594	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
2-Hexanone (MBK)	ND	*3	0.0118	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Isopropylbenzene	ND	*3	0.00591	0.00447	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
4-Isopropyltoluene	ND	*3	0.00591	0.00580	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Methyl tert-butyl ether	ND	*3	0.00591	0.00340	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0118	0.00382	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Methylene Chloride	ND	*3	0.0118	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Naphthalene	ND	*3	0.00591	0.00534	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1

Client Sample ID: 2023-MW-09-0002' **Lab Sample ID: 620-10149-25**
Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00591	0.00500	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Styrene	ND	*3	0.00591	0.00457	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00591	0.00443	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,1,2,2-Tetrachloroethane	ND	*3 *+	0.00591	0.00541	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Tetrachloroethene	ND	*3	0.00591	0.00329	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Toluene	ND	*3	0.00591	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2,3-Trichlorobenzene	ND	*3	0.00591	0.00499	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2,4-Trichlorobenzene	ND	*3	0.00591	0.00545	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,3,5-Trichlorobenzene	ND	*3	0.00591	0.00561	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,1,1-Trichloroethane	ND	*3	0.00591	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,1,2-Trichloroethane	ND	*3	0.00591	0.00445	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Trichloroethene	ND	*3	0.00591	0.00397	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00591	0.00451	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2,3-Trichloropropane	ND	*3	0.00591	0.00525	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,2,4-Trimethylbenzene	ND	*3	0.00591	0.00500	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,3,5-Trimethylbenzene	ND	*3	0.00591	0.00502	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Vinyl chloride	ND	*3	0.00591	0.00360	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
m,p-Xylene	ND	*3	0.00591	0.00807	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
o-Xylene	ND	*3	0.00591	0.00431	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Tetrahydrofuran	ND	*3	0.0118	0.00299	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Ethyl ether	ND	*3	0.00591	0.00311	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Tert-amyl methyl ether	ND	*3	0.00591	0.00467	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Ethyl tert-butyl ether	ND	*3	0.00591	0.00389	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
di-Isopropyl ether	ND	*3	0.00591	0.00422	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
tert-Butanol	ND	*3	0.118	0.0317	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,4-Dioxane	ND	*3	0.118	0.0368	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0295	0.00436	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Ethanol	ND	*3	1.18	0.0733	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
1,3-Dichloropropene, Total	ND		0.00591	0.00449	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1
Xylenes, Total	ND		0.0177	0.00591	mg/Kg	☼	03/14/23 10:36	03/14/23 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*58*	*S1- *3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 21:37*	*1*
Toluene-d8 (Surr)	*89*	*3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 21:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*	*S1+ *3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 21:37*	*1*
Dibromofluoromethane (Surr)	*138*	*S1+ *3*	*70 - 130*	*03/14/23 10:36*	*03/14/23 21:37*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00558	0.00364	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Acetone	ND		0.0558	0.0125	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Acrylonitrile	ND		0.00558	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Benzene	ND		0.00558	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Bromobenzene	ND		0.00558	0.00372	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Bromochloromethane	ND		0.00558	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Bromodichloromethane	ND		0.00558	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Bromoform	ND		0.00558	0.00426	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Bromomethane	ND		0.0112	0.00696	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
2-Butanone (MEK)	ND		0.0112	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1

Client Sample ID: 2023-MW-09-0002' **Lab Sample ID: 620-10149-25**
Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0112	0.00598	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
sec-Butylbenzene	ND		0.00558	0.00450	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
tert-Butylbenzene	ND		0.00558	0.00440	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Carbon disulfide	ND		0.0112	0.00392	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Carbon tetrachloride	ND		0.00558	0.00352	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Chlorobenzene	ND		0.00558	0.00409	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Chloroethane	ND		0.0112	0.00410	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Chloroform	ND		0.00558	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Chloromethane	ND		0.0112	0.00429	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
2-Chlorotoluene	ND		0.00558	0.00444	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
4-Chlorotoluene	ND		0.00558	0.00485	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0112	0.00473	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Dibromochloromethane	ND		0.00558	0.00370	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2-Dibromoethane (EDB)	ND		0.00558	0.00401	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Dibromomethane	ND		0.00558	0.00328	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2-Dichlorobenzene	ND	*3	0.00558	0.00518	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,3-Dichlorobenzene	ND		0.00558	0.00448	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,4-Dichlorobenzene	ND	*3	0.00558	0.00529	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0112	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,1-Dichloroethane	ND		0.00558	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2-Dichloroethane	ND		0.00558	0.00376	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,1-Dichloroethene	ND		0.00558	0.00342	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
cis-1,2-Dichloroethene	ND		0.00558	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
trans-1,2-Dichloroethene	ND		0.00558	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2-Dichloropropane	ND		0.00558	0.00370	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,3-Dichloropropane	ND		0.00558	0.00426	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
2,2-Dichloropropane	ND		0.00558	0.00385	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,1-Dichloropropene	ND		0.00558	0.00380	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
cis-1,3-Dichloropropene	ND		0.00558	0.00364	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
trans-1,3-Dichloropropene	ND		0.00558	0.00424	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Ethylbenzene	ND		0.00558	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Hexachlorobutadiene	ND	*3	0.0112	0.00562	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
2-Hexanone (MBK)	ND		0.0112	0.00328	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Isopropylbenzene	ND		0.00558	0.00422	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
4-Isopropyltoluene	ND	*3	0.00558	0.00548	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Methyl tert-butyl ether	ND		0.00558	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
4-Methyl-2-pentanone (MIBK)	ND		0.0112	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Methylene Chloride	ND		0.0112	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Naphthalene	ND	*3	0.00558	0.00505	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
N-Propylbenzene	ND		0.00558	0.00472	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Styrene	ND		0.00558	0.00432	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,1,1,2-Tetrachloroethane	ND		0.00558	0.00419	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,1,2,2-Tetrachloroethane	ND		0.00558	0.00511	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Tetrachloroethene	ND		0.00558	0.00310	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Toluene	ND		0.00558	0.00354	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2,3-Trichlorobenzene	ND	*3	0.00558	0.00471	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2,4-Trichlorobenzene	ND		0.00558	0.00515	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,3,5-Trichlorobenzene	ND	*3	0.00558	0.00530	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,1,1-Trichloroethane	ND		0.00558	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09-0002' **Lab Sample ID: 620-10149-25**
Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.00558	0.00421	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Trichloroethene	ND		0.00558	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Trichlorofluoromethane (Freon 11)	ND		0.00558	0.00426	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2,3-Trichloropropane	ND		0.00558	0.00496	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,2,4-Trimethylbenzene	ND		0.00558	0.00472	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,3,5-Trimethylbenzene	ND		0.00558	0.00474	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Vinyl chloride	ND		0.00558	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
m,p-Xylene	ND		0.00558	0.00762	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
o-Xylene	ND		0.00558	0.00407	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Tetrahydrofuran	ND		0.0112	0.00282	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Ethyl ether	ND		0.00558	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Tert-amyl methyl ether	ND		0.00558	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Ethyl tert-butyl ether	ND		0.00558	0.00367	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
di-Isopropyl ether	ND		0.00558	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
tert-Butanol	ND		0.112	0.0299	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,4-Dioxane	ND		0.112	0.0347	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
trans-1,4-Dichloro-2-butene	ND		0.0279	0.00412	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Ethanol	ND		1.12	0.0692	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
1,3-Dichloropropene, Total	ND		0.00558	0.00424	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1
Xylenes, Total	ND		0.0167	0.00558	mg/Kg	☼	03/15/23 12:58	03/15/23 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*03/15/23 12:58*	*03/15/23 16:49*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*	*03/15/23 12:58*	*03/15/23 16:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/15/23 12:58*	*03/15/23 16:49*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*03/15/23 12:58*	*03/15/23 16:49*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.367	0.0652	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
1,2,4-Trichlorobenzene	ND		0.367	0.0840	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
1,2-Dichlorobenzene	ND		0.367	0.0707	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
1,3-Dichlorobenzene	ND		0.367	0.0888	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
1,4-Dichlorobenzene	ND		0.367	0.0863	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
1-Methylnaphthalene	ND		0.0741	0.0622	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2,4,5-Trichlorophenol	ND		0.367	0.0420	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2,4,6-Trichlorophenol	ND		0.186	0.0453	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2,4-Dichlorophenol	ND		0.186	0.0739	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2,4-Dimethylphenol	ND		0.367	0.0538	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2,4-Dinitrophenol	ND		0.367	0.0964	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2,4-Dinitrotoluene	ND		0.186	0.0434	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2,6-Dinitrotoluene	ND		0.186	0.0434	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2-Chloronaphthalene	ND		0.367	0.0848	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2-Chlorophenol	ND		0.186	0.0759	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2-Methylnaphthalene	ND		0.0741	0.0548	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2-Methylphenol	ND		0.367	0.0535	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2-Nitroaniline	ND		0.367	0.0349	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
2-Nitrophenol	ND		0.186	0.0659	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
3 & 4 Methylphenol	ND		0.367	0.0694	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
3,3'-Dichlorobenzidine	ND		0.367	0.0605	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0002'
Date Collected: 03/06/23 13:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-25
Matrix: Solid
Percent Solids: 89.0

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.367	0.0328	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
4,6-Dinitro-2-methylphenol	ND		0.367	0.0659	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
4-Bromophenyl phenyl ether	ND		0.367	0.0414	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
4-Chloro-3-methylphenol	ND		0.367	0.0718	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
4-Chloroaniline	ND		0.186	0.0281	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
4-Chlorophenyl phenyl ether	ND		0.367	0.0392	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
4-Nitroaniline	ND		0.186	0.0585	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
4-Nitrophenol	ND		0.367	0.128	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Acenaphthene	ND		0.0741	0.0591	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Acenaphthylene	**0.0843**		0.0741	0.0487	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Acetophenone	ND		0.186	0.0452	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Aniline	ND		0.367	0.0281	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Anthracene	**0.0602**	**J**	0.0741	0.0429	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Azobenzene/Diphenyldiazene	ND		0.367	0.0625	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzidine	ND	*- *1	0.733	0.109	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzo[a]anthracene	**0.276**		0.0741	0.0417	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzo[a]pyrene	**0.280**		0.0741	0.0530	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzo[b]fluoranthene	**0.433**		0.0741	0.0614	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzo[g,h,i]perylene	**0.274**		0.0741	0.0579	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzo[k]fluoranthene	**0.368**		0.0741	0.0577	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzoic acid	ND	*- *1	0.367	0.252	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Benzyl alcohol	ND		0.367	0.0664	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Bis(2-chloroethoxy)methane	ND		0.367	0.0638	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Bis(2-chloroethyl)ether	ND		0.186	0.0607	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
bis (2-chloroisopropyl) ether	ND		0.186	0.0825	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Bis(2-ethylhexyl) phthalate	ND		0.186	0.0472	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Butyl benzyl phthalate	ND		0.367	0.0368	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Carbazole	ND		0.186	0.0485	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Chrysene	**0.487**		0.0741	0.0419	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Dibenz(a,h)anthracene	**0.0988**		0.0741	0.0565	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Dibenzofuran	ND		0.186	0.0642	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Diethyl phthalate	ND		0.367	0.0402	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Dimethyl phthalate	ND		0.367	0.0478	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Di-n-butyl phthalate	ND		0.367	0.0392	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Di-n-octyl phthalate	ND		0.367	0.0605	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Fluoranthene	**0.527**		0.0741	0.0434	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Fluorene	ND		0.0741	0.0677	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Hexachlorobenzene	ND		0.186	0.0514	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Hexachlorobutadiene	ND		0.186	0.0925	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Hexachlorocyclopentadiene	ND		0.186	0.0709	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Hexachloroethane	ND		0.186	0.0729	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Indeno[1,2,3-cd]pyrene	**0.240**		0.0741	0.0629	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Isophorone	ND		0.186	0.0508	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Naphthalene	ND		0.0741	0.0711	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Nitrobenzene	ND		0.186	0.0857	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
N-Nitrosodimethylamine	ND		0.186	0.0487	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
N-Nitrosodi-n-propylamine	ND		0.186	0.0739	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
N-Nitrosodiphenylamine	ND		0.367	0.0468	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Pentachloronitrobenzene	ND		0.367	0.0579	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1

Client Sample ID: 2023-MW-09-0002' **Lab Sample ID: 620-10149-25**
Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.367	0.150	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Phenanthrene	**0.426**		0.0741	0.0420	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Phenol	ND		0.367	0.0755	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Pyrene	**0.589**		0.0741	0.0409	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1
Pyridine	ND		0.367	0.0868	mg/Kg	☼	03/20/23 13:14	03/22/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*30 - 130*	*03/20/23 13:14*	*03/22/23 19:42*	*1*
2-Fluorophenol (Surr)	*67*		*15 - 110*	*03/20/23 13:14*	*03/22/23 19:42*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*03/20/23 13:14*	*03/22/23 19:42*	*1*
Phenol-d5 (Surr)	*68*		*15 - 110*	*03/20/23 13:14*	*03/22/23 19:42*	*1*
2,4,6-Tribromophenol (Surr)	*50*		*15 - 110*	*03/20/23 13:14*	*03/22/23 19:42*	*1*
Terphenyl-d14	*61*		*30 - 130*	*03/20/23 13:14*	*03/22/23 19:42*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	**0.229**	**J**	0.347	0.178	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	**0.185**	**J**	0.347	0.149	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0695	0.0139	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
Ethylbenzene	ND		0.0695	0.0139	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
Methyl tert-butyl ether	ND		0.0695	0.0139	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
m,p-Xylene	ND		0.139	0.0139	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
Naphthalene	ND		0.0695	0.0472	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
o-Xylene	ND		0.0695	0.0139	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
Toluene	ND		0.0695	0.0139	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
C5-C8 Aliphatics (unadjusted)	**0.229**	**J**	0.347	0.178	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
C9-C10 Aromatics	ND		0.347	0.0486	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1
C9-C12 Aliphatics (unadjusted)	**0.185**	**J**	0.347	0.149	mg/Kg	☼	03/13/23 07:46	03/13/23 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*	*03/13/23 07:46*	*03/13/23 22:22*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/13/23 07:46*	*03/13/23 22:22*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0215	0.0155	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1221	ND		0.0215	0.00636	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1232	ND		0.0215	0.00596	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1242	ND		0.0215	0.00340	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1248	ND		0.0215	0.00672	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1254	**0.185**		0.0215	0.0167	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1262	ND		0.0215	0.00501	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1260	**0.0707**		0.0215	0.00462	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1
PCB-1268	ND		0.0215	0.00458	mg/Kg	☼	03/10/23 15:43	03/14/23 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*30 - 150*	*03/10/23 15:43*	*03/14/23 18:16*	*1*
Tetrachloro-m-xylene	*83*		*30 - 150*	*03/10/23 15:43*	*03/14/23 18:16*	*1*

Client Sample ID: 2023-MW-09-0002' **Lab Sample ID: 620-10149-25**
Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	132		30 - 150	03/10/23 15:43	03/14/23 18:16	1
DCB Decachlorobiphenyl (Surr)	72	p	30 - 150	03/10/23 15:43	03/14/23 18:16	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluoroheptanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorooctanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorononanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorodecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorotridecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorotetradecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorobutanesulfonic acid	ND		2.18	0.436	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorohexanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorooctanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
NEtFOSAA	ND		2.18	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
NMeFOSAA	ND		2.18	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
10:2 FTS	ND		2.18	0.654	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluoropentanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluoroheptanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorononanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorodecanesulfonic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.18	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorooctanesulfonamide	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorohexadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorooctadecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorobutanoic acid	ND		2.18	0.872	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluoropentanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
NMeFOSE	ND		2.18	0.545	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
NMeFOSA	ND		2.18	0.545	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
NEtFOSE	ND		2.18	0.545	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
NEtFOSA	ND		2.18	0.545	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
HFPODA	ND		2.18	1.09	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
DONA	ND		3.27	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
9Cl-PF3ONS	ND		2.18	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
11Cl-PF3OUdS	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluorododecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
4:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
Perfluoroundecanoic acid	ND		0.654	0.218	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
6:2 Fluorotelomer sulfonic acid	ND		2.18	0.654	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1
8:2 Fluorotelomer sulfonic acid	ND		3.27	0.654	ug/Kg	☼	03/13/23 07:31	03/22/23 22:07	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	80		10 - 200	03/13/23 07:31	03/22/23 22:07	1
M2-8:2 FTS	74		15 - 200	03/13/23 07:31	03/22/23 22:07	1
M2-6:2 FTS	77		10 - 200	03/13/23 07:31	03/22/23 22:07	1
13C5 PFHxA	88		10 - 174	03/13/23 07:31	03/22/23 22:07	1
13C4 PFHpA	91		10 - 178	03/13/23 07:31	03/22/23 22:07	1
13C8 PFOA	87		26 - 159	03/13/23 07:31	03/22/23 22:07	1

Client Sample ID: 2023-MW-09-0002' Lab Sample ID: 620-10149-25

Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	84		26 - 165	03/13/23 07:31	03/22/23 22:07	1
13C6 PFDA	80		26 - 161	03/13/23 07:31	03/22/23 22:07	1
13C7 PFUnA	81		12 - 173	03/13/23 07:31	03/22/23 22:07	1
13C2-PFDoDA	84		11 - 166	03/13/23 07:31	03/22/23 22:07	1
13C2 PFTeDA	78		10 - 169	03/13/23 07:31	03/22/23 22:07	1
13C3 PFBS	86		27 - 179	03/13/23 07:31	03/22/23 22:07	1
13C3 PFHxS	86		24 - 171	03/13/23 07:31	03/22/23 22:07	1
13C8 PFOS	85		41 - 154	03/13/23 07:31	03/22/23 22:07	1
d3-NMeFOSAA	23		10 - 178	03/13/23 07:31	03/22/23 22:07	1
d5-NEtFOSAA	28		10 - 193	03/13/23 07:31	03/22/23 22:07	1
13C8 FOSA	76		14 - 163	03/13/23 07:31	03/22/23 22:07	1
13C4 PFBA	81		28 - 153	03/13/23 07:31	03/22/23 22:07	1
13C5 PFPeA	88		24 - 161	03/13/23 07:31	03/22/23 22:07	1
d7-N-MeFOSE-M	79		10 - 179	03/13/23 07:31	03/22/23 22:07	1
d3-NMePFOSA	70		10 - 175	03/13/23 07:31	03/22/23 22:07	1
d9-N-EtFOSE-M	72		10 - 185	03/13/23 07:31	03/22/23 22:07	1
d5-NEtPFOSA	70		10 - 180	03/13/23 07:31	03/22/23 22:07	1
13C3 HFPO-DA	82		10 - 169	03/13/23 07:31	03/22/23 22:07	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.20	1.77	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Arsenic	**5.25**		3.12	1.46	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Barium	**129**		0.520	0.156	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Beryllium	**0.576**		0.520	0.104	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Cadmium	ND		0.520	0.104	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Chromium	**7.70**		1.56	0.364	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Lead	**50.9**		1.56	0.624	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Nickel	**6.52**		1.04	0.270	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Selenium	ND		5.20	1.56	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Silver	ND		1.04	0.416	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Thallium	ND		3.12	1.35	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Vanadium	**12.7**		1.04	0.447	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1
Zinc	**63.5**		2.08	0.832	mg/Kg	☼	03/14/23 09:00	03/15/23 21:28	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0256**	**J**	0.0652	0.0217	mg/Kg	☼	03/14/23 07:49	03/14/23 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.0**		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	**89.0**		0.1	0.1	%			03/10/23 08:54	1

Client Sample ID: 2023-MW-09-0204' **Lab Sample ID: 620-10149-26**
Date Collected: 03/06/23 13:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 94.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00475	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Acetone	ND		0.0475	0.0106	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Acrylonitrile	ND		0.00475	0.00285	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Benzene	ND		0.00475	0.00317	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Bromobenzene	ND		0.00475	0.00316	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Bromochloromethane	ND		0.00475	0.00270	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Bromodichloromethane	ND		0.00475	0.00348	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Bromoform	ND		0.00475	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Bromomethane	ND		0.00949	0.00591	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
2-Butanone (MEK)	ND		0.00949	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
n-Butylbenzene	ND	*3	0.00949	0.00509	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
sec-Butylbenzene	ND		0.00475	0.00383	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
tert-Butylbenzene	ND		0.00475	0.00374	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Carbon disulfide	ND		0.00949	0.00333	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Carbon tetrachloride	ND		0.00475	0.00299	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Chlorobenzene	ND		0.00475	0.00347	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Chloroethane	ND		0.00949	0.00348	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Chloroform	ND		0.00475	0.00319	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Chloromethane	ND		0.00949	0.00364	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
2-Chlorotoluene	ND		0.00475	0.00378	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
4-Chlorotoluene	ND		0.00475	0.00412	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2-Dibromo-3-Chloropropane	ND	*3 *+	0.00949	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Dibromochloromethane	ND		0.00475	0.00314	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2-Dibromoethane (EDB)	ND		0.00475	0.00341	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Dibromomethane	ND		0.00475	0.00279	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2-Dichlorobenzene	ND	*3	0.00475	0.00440	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,3-Dichlorobenzene	ND		0.00475	0.00381	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,4-Dichlorobenzene	ND	*3	0.00475	0.00450	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00949	0.00254	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,1-Dichloroethane	ND		0.00475	0.00322	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2-Dichloroethane	ND		0.00475	0.00320	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,1-Dichloroethene	ND		0.00475	0.00290	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
cis-1,2-Dichloroethene	ND		0.00475	0.00274	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
trans-1,2-Dichloroethene	ND		0.00475	0.00295	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2-Dichloropropane	ND		0.00475	0.00314	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,3-Dichloropropane	ND		0.00475	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
2,2-Dichloropropane	ND		0.00475	0.00327	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,1-Dichloropropene	ND		0.00475	0.00323	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
cis-1,3-Dichloropropene	ND		0.00475	0.00309	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
trans-1,3-Dichloropropene	ND		0.00475	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Ethylbenzene	ND		0.00475	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Hexachlorobutadiene	ND	*3	0.00949	0.00477	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
2-Hexanone (MBK)	ND		0.00949	0.00279	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Isopropylbenzene	ND		0.00475	0.00359	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
4-Isopropyltoluene	ND	*3	0.00475	0.00466	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Methyl tert-butyl ether	ND		0.00475	0.00273	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.00949	0.00307	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Methylene Chloride	ND		0.00949	0.00254	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Naphthalene	ND	*3	0.00475	0.00429	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09-0204' **Lab Sample ID: 620-10149-26**
Date Collected: 03/06/23 13:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 94.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00475	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Styrene	ND		0.00475	0.00367	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,1,1,2-Tetrachloroethane	ND		0.00475	0.00356	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,1,2,2-Tetrachloroethane	ND	*+	0.00475	0.00435	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Tetrachloroethene	ND		0.00475	0.00264	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Toluene	ND		0.00475	0.00301	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2,3-Trichlorobenzene	ND	*3	0.00475	0.00401	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2,4-Trichlorobenzene	ND		0.00475	0.00438	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,3,5-Trichlorobenzene	ND	*3	0.00475	0.00451	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,1,1-Trichloroethane	ND		0.00475	0.00324	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,1,2-Trichloroethane	ND		0.00475	0.00358	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Trichloroethene	ND		0.00475	0.00319	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Trichlorofluoromethane (Freon 11)	ND		0.00475	0.00363	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2,3-Trichloropropane	ND		0.00475	0.00421	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,2,4-Trimethylbenzene	ND		0.00475	0.00402	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,3,5-Trimethylbenzene	ND		0.00475	0.00403	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Vinyl chloride	ND		0.00475	0.00290	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
m,p-Xylene	ND		0.00475	0.00648	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
o-Xylene	ND		0.00475	0.00346	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Tetrahydrofuran	ND		0.00949	0.00240	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Ethyl ether	ND		0.00475	0.00250	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Tert-amyl methyl ether	ND		0.00475	0.00375	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Ethyl tert-butyl ether	ND		0.00475	0.00312	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
di-Isopropyl ether	ND		0.00475	0.00339	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
tert-Butanol	ND		0.0949	0.0254	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,4-Dioxane	ND		0.0949	0.0295	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
trans-1,4-Dichloro-2-butene	ND		0.0237	0.00350	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Ethanol	ND		0.949	0.0589	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
1,3-Dichloropropene, Total	ND		0.00475	0.00361	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1
Xylenes, Total	ND		0.0142	0.00475	mg/Kg	☼	03/14/23 10:36	03/14/23 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*03/14/23 10:36*	*03/14/23 22:02*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/14/23 10:36*	*03/14/23 22:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 22:02*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/14/23 10:36*	*03/14/23 22:02*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00585	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Acetone	ND	*3	0.0585	0.0131	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Acrylonitrile	ND	*3	0.00585	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Benzene	ND	*3	0.00585	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Bromobenzene	ND	*3	0.00585	0.00390	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Bromochloromethane	ND	*3	0.00585	0.00332	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Bromodichloromethane	ND	*3	0.00585	0.00429	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Bromoform	ND	*3	0.00585	0.00447	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Bromomethane	ND	*3	0.0117	0.00729	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
2-Butanone (MEK)	ND	*3	0.0117	0.00466	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0204'
Date Collected: 03/06/23 13:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-26
Matrix: Solid
Percent Solids: 94.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0117	0.00627	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
sec-Butylbenzene	ND	*3	0.00585	0.00472	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
tert-Butylbenzene	ND	*3	0.00585	0.00461	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Carbon disulfide	ND	*3	0.0117	0.00411	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Carbon tetrachloride	ND	*3	0.00585	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Chlorobenzene	ND	*3	0.00585	0.00428	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Chloroethane	ND	*3	0.0117	0.00429	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Chloroform	ND	*3	0.00585	0.00393	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Chloromethane	ND	*3	0.0117	0.00449	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
2-Chlorotoluene	ND	*3	0.00585	0.00466	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
4-Chlorotoluene	ND	*3	0.00585	0.00508	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0117	0.00496	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Dibromochloromethane	ND	*3	0.00585	0.00387	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2-Dibromoethane (EDB)	ND	*3	0.00585	0.00420	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Dibromomethane	ND	*3	0.00585	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2-Dichlorobenzene	ND	*3	0.00585	0.00543	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,3-Dichlorobenzene	ND	*3	0.00585	0.00469	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,4-Dichlorobenzene	ND	*3	0.00585	0.00555	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0117	0.00314	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,1-Dichloroethane	ND	*3	0.00585	0.00397	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2-Dichloroethane	ND	*3	0.00585	0.00394	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,1-Dichloroethene	ND	*3	0.00585	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
cis-1,2-Dichloroethene	ND	*3	0.00585	0.00338	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
trans-1,2-Dichloroethene	ND	*3	0.00585	0.00364	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2-Dichloropropane	ND	*3	0.00585	0.00387	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,3-Dichloropropane	ND	*3	0.00585	0.00447	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
2,2-Dichloropropane	ND	*3	0.00585	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,1-Dichloropropene	ND	*3	0.00585	0.00398	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
cis-1,3-Dichloropropene	ND	*3	0.00585	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
trans-1,3-Dichloropropene	ND	*3	0.00585	0.00445	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Ethylbenzene	ND	*3	0.00585	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Hexachlorobutadiene	ND	*3	0.0117	0.00589	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
2-Hexanone (MBK)	ND	*3	0.0117	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Isopropylbenzene	ND	*3	0.00585	0.00442	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
4-Isopropyltoluene	ND	*3	0.00585	0.00575	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Methyl tert-butyl ether	ND	*3	0.00585	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0117	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Methylene Chloride	ND	*3	0.0117	0.00314	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Naphthalene	ND	*3	0.00585	0.00529	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
N-Propylbenzene	ND	*3	0.00585	0.00495	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Styrene	ND	*3	0.00585	0.00453	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00585	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00585	0.00536	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Tetrachloroethene	ND	*3	0.00585	0.00325	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Toluene	ND	*3	0.00585	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2,3-Trichlorobenzene	ND	*3	0.00585	0.00494	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2,4-Trichlorobenzene	ND	*3	0.00585	0.00540	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,3,5-Trichlorobenzene	ND	*3	0.00585	0.00556	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,1,1-Trichloroethane	ND	*3	0.00585	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1

Client Sample ID: 2023-MW-09-0204' **Lab Sample ID: 620-10149-26**
Date Collected: 03/06/23 13:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 94.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00585	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Trichloroethene	ND	*3	0.00585	0.00393	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00585	0.00447	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2,3-Trichloropropane	ND	*3	0.00585	0.00520	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,2,4-Trimethylbenzene	ND	*3	0.00585	0.00495	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,3,5-Trimethylbenzene	ND	*3	0.00585	0.00497	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Vinyl chloride	ND	*3	0.00585	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
m,p-Xylene	ND	*3	0.00585	0.00799	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
o-Xylene	ND	*3	0.00585	0.00427	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Tetrahydrofuran	ND	*3	0.0117	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Ethyl ether	ND	*3	0.00585	0.00308	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Tert-amyl methyl ether	ND	*3	0.00585	0.00462	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Ethyl tert-butyl ether	ND	*3	0.00585	0.00385	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
di-Isopropyl ether	ND	*3	0.00585	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
tert-Butanol	ND	*3	0.117	0.0314	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,4-Dioxane	ND	*3	0.117	0.0364	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0293	0.00432	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Ethanol	ND	*3	1.17	0.0726	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
1,3-Dichloropropene, Total	ND		0.00585	0.00445	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1
Xylenes, Total	ND		0.0176	0.00585	mg/Kg	☼	03/15/23 12:58	03/15/23 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	**3 S1-*	*70 - 130*	*03/15/23 12:58*	*03/15/23 17:15*	*1*
Toluene-d8 (Surr)	*96*	**3*	*70 - 130*	*03/15/23 12:58*	*03/15/23 17:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*189*	**3 S1+*	*70 - 130*	*03/15/23 12:58*	*03/15/23 17:15*	*1*
Dibromofluoromethane (Surr)	*171*	**3 S1+*	*70 - 130*	*03/15/23 12:58*	*03/15/23 17:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.337	0.0600	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
1,2,4-Trichlorobenzene	ND		0.337	0.0772	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
1,2-Dichlorobenzene	ND		0.337	0.0650	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
1,3-Dichlorobenzene	ND		0.337	0.0816	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
1,4-Dichlorobenzene	ND		0.337	0.0794	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
1-Methylnaphthalene	ND		0.0681	0.0572	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2,4,5-Trichlorophenol	ND		0.337	0.0386	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2,4,6-Trichlorophenol	ND		0.171	0.0417	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2,4-Dichlorophenol	ND		0.171	0.0679	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2,4-Dimethylphenol	ND		0.337	0.0494	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2,4-Dinitrophenol	ND		0.337	0.0887	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2,4-Dinitrotoluene	ND		0.171	0.0399	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2,6-Dinitrotoluene	ND		0.171	0.0399	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2-Chloronaphthalene	ND		0.337	0.0779	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2-Chlorophenol	ND		0.171	0.0698	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2-Methylnaphthalene	ND		0.0681	0.0504	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2-Methylphenol	ND		0.337	0.0492	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2-Nitroaniline	ND		0.337	0.0321	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
2-Nitrophenol	ND		0.171	0.0606	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
3 & 4 Methylphenol	ND		0.337	0.0638	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
3,3'-Dichlorobenzidine	ND		0.337	0.0557	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0204'
Date Collected: 03/06/23 13:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-26
Matrix: Solid
Percent Solids: 94.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.337	0.0301	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
4,6-Dinitro-2-methylphenol	ND		0.337	0.0606	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
4-Bromophenyl phenyl ether	ND		0.337	0.0381	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
4-Chloro-3-methylphenol	ND		0.337	0.0660	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
4-Chloroaniline	ND		0.171	0.0258	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
4-Chlorophenyl phenyl ether	ND		0.337	0.0361	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
4-Nitroaniline	ND		0.171	0.0538	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
4-Nitrophenol	ND		0.337	0.117	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Acenaphthene	ND		0.0681	0.0543	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Acenaphthylene	ND		0.0681	0.0447	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Acetophenone	ND		0.171	0.0416	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Aniline	ND		0.337	0.0258	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Anthracene	ND		0.0681	0.0394	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Azobenzene/Diphenyldiazene	ND		0.337	0.0575	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzidine	ND	*- *1	0.674	0.0998	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzo[a]anthracene	ND		0.0681	0.0383	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzo[a]pyrene	ND		0.0681	0.0487	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzo[b]fluoranthene	ND		0.0681	0.0565	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzo[g,h,i]perylene	ND		0.0681	0.0532	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzo[k]fluoranthene	ND		0.0681	0.0530	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzoic acid	ND	*- *1	0.337	0.232	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Benzyl alcohol	ND		0.337	0.0611	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Bis(2-chloroethoxy)methane	ND		0.337	0.0586	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Bis(2-chloroethyl)ether	ND		0.171	0.0558	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
bis (2-chloroisopropyl) ether	ND		0.171	0.0759	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Bis(2-ethylhexyl) phthalate	ND		0.171	0.0434	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Butyl benzyl phthalate	ND		0.337	0.0338	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Carbazole	ND		0.171	0.0446	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Chrysene	**0.0594**	**J**	0.0681	0.0385	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Dibenz(a,h)anthracene	ND		0.0681	0.0520	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Dibenzofuran	ND		0.171	0.0590	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Diethyl phthalate	ND		0.337	0.0370	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Dimethyl phthalate	ND		0.337	0.0439	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Di-n-butyl phthalate	ND		0.337	0.0361	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Di-n-octyl phthalate	ND		0.337	0.0557	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Fluoranthene	**0.0894**		0.0681	0.0399	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Fluorene	ND		0.0681	0.0622	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Hexachlorobenzene	ND		0.171	0.0473	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Hexachlorobutadiene	ND		0.171	0.0851	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Hexachlorocyclopentadiene	ND		0.171	0.0652	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Hexachloroethane	ND		0.171	0.0670	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0681	0.0578	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Isophorone	ND		0.171	0.0467	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Naphthalene	ND		0.0681	0.0654	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Nitrobenzene	ND		0.171	0.0788	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
N-Nitrosodimethylamine	ND		0.171	0.0447	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
N-Nitrosodi-n-propylamine	ND		0.171	0.0679	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
N-Nitrosodiphenylamine	ND		0.337	0.0430	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Pentachloronitrobenzene	ND		0.337	0.0532	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1

Client Sample ID: 2023-MW-09-0204' **Lab Sample ID: 620-10149-26**
Date Collected: 03/06/23 13:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 94.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.337	0.138	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Phenanthrene	**0.0687**		0.0681	0.0386	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Phenol	ND		0.337	0.0695	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Pyrene	**0.0885**		0.0681	0.0376	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1
Pyridine	ND		0.337	0.0798	mg/Kg	☼	03/20/23 13:14	03/22/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*30 - 130*	*03/20/23 13:14*	*03/22/23 20:11*	*1*
2-Fluorophenol (Surr)	*65*		*15 - 110*	*03/20/23 13:14*	*03/22/23 20:11*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*	*03/20/23 13:14*	*03/22/23 20:11*	*1*
Phenol-d5 (Surr)	*67*		*15 - 110*	*03/20/23 13:14*	*03/22/23 20:11*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*15 - 110*	*03/20/23 13:14*	*03/22/23 20:11*	*1*
Terphenyl-d14	*68*		*30 - 130*	*03/20/23 13:14*	*03/22/23 20:11*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.286	0.147	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.286	0.122	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0572	0.0114	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
Ethylbenzene	ND		0.0572	0.0114	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
Methyl tert-butyl ether	ND		0.0572	0.0114	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
m,p-Xylene	ND		0.114	0.0114	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
Naphthalene	ND		0.0572	0.0389	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
o-Xylene	ND		0.0572	0.0114	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
Toluene	ND		0.0572	0.0114	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
C5-C8 Aliphatics (unadjusted)	ND		0.286	0.147	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
C9-C10 Aromatics	ND		0.286	0.0401	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1
C9-C12 Aliphatics (unadjusted)	ND		0.286	0.122	mg/Kg	☼	03/13/23 07:46	03/13/23 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*	*03/13/23 07:46*	*03/13/23 23:02*	*1*
a,a,a-Trifluorotoluene (pid)	*95*		*70 - 130*	*03/13/23 07:46*	*03/13/23 23:02*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0207	0.0149	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1221	ND		0.0207	0.00612	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1232	ND		0.0207	0.00574	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1242	ND		0.0207	0.00327	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1248	ND		0.0207	0.00647	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1254	ND		0.0207	0.0161	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1262	ND		0.0207	0.00482	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1260	ND		0.0207	0.00445	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1
PCB-1268	ND		0.0207	0.00441	mg/Kg	☼	03/10/23 15:43	03/13/23 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:10*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:10*	*1*

Client Sample ID: 2023-MW-09-0204' **Lab Sample ID: 620-10149-26**
Date Collected: 03/06/23 13:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 94.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	100		30 - 150	03/10/23 15:43	03/13/23 23:10	1
DCB Decachlorobiphenyl (Surr)	90		30 - 150	03/10/23 15:43	03/13/23 23:10	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluoroheptanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorooctanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorononanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorodecanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorotridecanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorotetradecanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorobutanesulfonic acid	ND		2.10	0.419	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorohexanesulfonic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorooctanesulfonic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
NEtFOSAA	ND		2.10	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
NMeFOSAA	ND		2.10	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
10:2 FTS	ND		2.10	0.629	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluoropentanesulfonic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluoroheptanesulfonic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorononanesulfonic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorodecanesulfonic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.10	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorooctanesulfonamide	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorohexadecanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorooctadecanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorobutanoic acid	ND		2.10	0.838	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluoropentanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
NMeFOSE	ND		2.10	0.524	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
NMeFOSA	ND		2.10	0.524	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
NEtFOSE	ND		2.10	0.524	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
NEtFOSA	ND		2.10	0.524	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
HFPODA	ND		2.10	1.05	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
DONA	ND		3.14	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
9Cl-PF3ONS	ND		2.10	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
11Cl-PF3OUdS	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluorododecanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
4:2 Fluorotelomer sulfonic acid	ND		2.10	0.629	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
Perfluoroundecanoic acid	ND		0.629	0.210	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
6:2 Fluorotelomer sulfonic acid	ND		2.10	0.629	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1
8:2 Fluorotelomer sulfonic acid	ND		3.14	0.629	ug/Kg	☼	03/13/23 07:31	03/22/23 22:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	85		10 - 200	03/13/23 07:31	03/22/23 22:29	1
M2-8:2 FTS	90		15 - 200	03/13/23 07:31	03/22/23 22:29	1
M2-6:2 FTS	82		10 - 200	03/13/23 07:31	03/22/23 22:29	1
13C5 PFHxA	90		10 - 174	03/13/23 07:31	03/22/23 22:29	1
13C4 PFHpA	91		10 - 178	03/13/23 07:31	03/22/23 22:29	1
13C8 PFOA	88		26 - 159	03/13/23 07:31	03/22/23 22:29	1

Client Sample ID: 2023-MW-09-0204' **Lab Sample ID: 620-10149-26**
Date Collected: 03/06/23 13:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 94.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	91		26 - 165	03/13/23 07:31	03/22/23 22:29	1
13C6 PFDA	88		26 - 161	03/13/23 07:31	03/22/23 22:29	1
13C7 PFUnA	83		12 - 173	03/13/23 07:31	03/22/23 22:29	1
13C2-PFDoDA	84		11 - 166	03/13/23 07:31	03/22/23 22:29	1
13C2 PFTeDA	88		10 - 169	03/13/23 07:31	03/22/23 22:29	1
13C3 PFBS	87		27 - 179	03/13/23 07:31	03/22/23 22:29	1
13C3 PFHxS	91		24 - 171	03/13/23 07:31	03/22/23 22:29	1
13C8 PFOS	93		41 - 154	03/13/23 07:31	03/22/23 22:29	1
d3-NMeFOSAA	34		10 - 178	03/13/23 07:31	03/22/23 22:29	1
d5-NEtFOSAA	39		10 - 193	03/13/23 07:31	03/22/23 22:29	1
13C8 FOSA	78		14 - 163	03/13/23 07:31	03/22/23 22:29	1
13C4 PFBA	82		28 - 153	03/13/23 07:31	03/22/23 22:29	1
13C5 PFPeA	83		24 - 161	03/13/23 07:31	03/22/23 22:29	1
d7-N-MeFOSE-M	77		10 - 179	03/13/23 07:31	03/22/23 22:29	1
d3-NMePFOSA	74		10 - 175	03/13/23 07:31	03/22/23 22:29	1
d9-N-EtFOSE-M	74		10 - 185	03/13/23 07:31	03/22/23 22:29	1
d5-NEtPFOSA	78		10 - 180	03/13/23 07:31	03/22/23 22:29	1
13C3 HFPO-DA	83		10 - 169	03/13/23 07:31	03/22/23 22:29	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.99	1.70	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Arsenic	**3.47**		2.99	1.40	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Barium	**39.5**		0.499	0.150	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Beryllium	**0.341**	**J**	0.499	0.0998	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Cadmium	ND		0.499	0.0998	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Chromium	**5.14**		1.50	0.349	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Lead	**10.2**		1.50	0.599	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Nickel	**2.67**		0.998	0.260	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Selenium	ND		4.99	1.50	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Silver	ND		0.998	0.399	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Thallium	ND		2.99	1.30	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Vanadium	**7.95**		0.998	0.429	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1
Zinc	**15.3**		2.00	0.799	mg/Kg	☼	03/14/23 09:00	03/15/23 23:02	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0625	0.0208	mg/Kg	☼	03/14/23 07:49	03/14/23 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.5**		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	**94.5**		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0406'
Date Collected: 03/06/23 13:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-27
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00540	0.00352	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Acetone	ND	F2	0.0540	0.0121	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Acrylonitrile	ND		0.00540	0.00324	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Benzene	ND		0.00540	0.00361	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Bromobenzene	ND		0.00540	0.00360	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Bromochloromethane	ND		0.00540	0.00307	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Bromodichloromethane	ND		0.00540	0.00396	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Bromoform	ND	F2	0.00540	0.00413	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Bromomethane	ND	*+ F2	0.0108	0.00673	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
2-Butanone (MEK)	ND		0.0108	0.00430	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
n-Butylbenzene	ND	F2 F1	0.0108	0.00579	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
sec-Butylbenzene	ND	F1	0.00540	0.00435	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
tert-Butylbenzene	ND	F1	0.00540	0.00426	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Carbon disulfide	ND		0.0108	0.00379	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Carbon tetrachloride	ND		0.00540	0.00340	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Chlorobenzene	ND		0.00540	0.00395	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Chloroethane	ND	*+ F2 F1	0.0108	0.00396	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Chloroform	ND		0.00540	0.00363	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Chloromethane	ND		0.0108	0.00415	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
2-Chlorotoluene	ND	F1	0.00540	0.00430	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
4-Chlorotoluene	ND	F1	0.00540	0.00469	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2-Dibromo-3-Chloropropane	ND		0.0108	0.00458	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Dibromochloromethane	ND		0.00540	0.00358	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2-Dibromoethane (EDB)	ND		0.00540	0.00388	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Dibromomethane	ND		0.00540	0.00318	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2-Dichlorobenzene	ND	F1	0.00540	0.00501	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,3-Dichlorobenzene	ND	F1	0.00540	0.00433	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,4-Dichlorobenzene	ND	F1	0.00540	0.00512	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Dichlorodifluoromethane (Freon 12)	ND	F1	0.0108	0.00289	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,1-Dichloroethane	ND		0.00540	0.00366	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2-Dichloroethane	ND		0.00540	0.00364	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,1-Dichloroethene	ND		0.00540	0.00331	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
cis-1,2-Dichloroethene	ND		0.00540	0.00312	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
trans-1,2-Dichloroethene	ND		0.00540	0.00336	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2-Dichloropropane	ND		0.00540	0.00358	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,3-Dichloropropane	ND		0.00540	0.00413	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
2,2-Dichloropropane	ND		0.00540	0.00373	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,1-Dichloropropene	ND		0.00540	0.00367	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
cis-1,3-Dichloropropene	ND		0.00540	0.00352	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
trans-1,3-Dichloropropene	ND		0.00540	0.00410	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Ethylbenzene	ND		0.00540	0.00386	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Hexachlorobutadiene	ND	F2 F1	0.0108	0.00543	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
2-Hexanone (MBK)	ND		0.0108	0.00318	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Isopropylbenzene	ND	F1	0.00540	0.00408	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
4-Isopropyltoluene	ND	F2 F1	0.00540	0.00530	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Methyl tert-butyl ether	ND		0.00540	0.00311	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		0.0108	0.00349	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Methylene Chloride	ND		0.0108	0.00289	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Naphthalene	ND	F1	0.00540	0.00488	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1

Client Sample ID: 2023-MW-09-0406' **Lab Sample ID: 620-10149-27**
Date Collected: 03/06/23 13:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	F1	0.00540	0.00457	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Styrene	ND		0.00540	0.00418	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,1,1,2-Tetrachloroethane	ND		0.00540	0.00405	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,1,2,2-Tetrachloroethane	ND	F2	0.00540	0.00495	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Tetrachloroethene	ND		0.00540	0.00300	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Toluene	ND		0.00540	0.00342	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2,3-Trichlorobenzene	ND	F1	0.00540	0.00456	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2,4-Trichlorobenzene	ND	F2 F1	0.00540	0.00498	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,3,5-Trichlorobenzene	ND	F2 F1	0.00540	0.00513	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,1,1-Trichloroethane	ND		0.00540	0.00368	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,1,2-Trichloroethane	ND		0.00540	0.00407	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Trichloroethene	ND		0.00540	0.00363	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Trichlorofluoromethane (Freon 11)	ND		0.00540	0.00413	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2,3-Trichloropropane	ND	F2	0.00540	0.00480	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,2,4-Trimethylbenzene	ND	F1	0.00540	0.00457	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,3,5-Trimethylbenzene	ND	F1	0.00540	0.00459	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Vinyl chloride	ND		0.00540	0.00329	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
m,p-Xylene	ND		0.00540	0.00738	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
o-Xylene	ND		0.00540	0.00394	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Tetrahydrofuran	ND		0.0108	0.00273	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Ethyl ether	ND	F1	0.00540	0.00284	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Tert-amyl methyl ether	ND		0.00540	0.00427	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Ethyl tert-butyl ether	ND		0.00540	0.00355	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
di-Isopropyl ether	ND		0.00540	0.00386	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
tert-Butanol	ND		0.108	0.0289	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,4-Dioxane	ND		0.108	0.0336	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
trans-1,4-Dichloro-2-butene	ND		0.0270	0.00399	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Ethanol	ND		1.08	0.0670	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
1,3-Dichloropropene, Total	ND		0.00540	0.00410	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1
Xylenes, Total	ND		0.0162	0.00540	mg/Kg	☼	03/20/23 10:07	03/20/23 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/20/23 10:07*	*03/20/23 15:34*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/20/23 10:07*	*03/20/23 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/20/23 10:07*	*03/20/23 15:34*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*03/20/23 10:07*	*03/20/23 15:34*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.365	0.0650	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
1,2,4-Trichlorobenzene	ND		0.365	0.0837	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
1,2-Dichlorobenzene	ND		0.365	0.0704	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
1,3-Dichlorobenzene	ND		0.365	0.0884	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
1,4-Dichlorobenzene	ND		0.365	0.0860	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
1-Methylnaphthalene	ND		0.0738	0.0620	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2,4,5-Trichlorophenol	ND		0.365	0.0418	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2,4,6-Trichlorophenol	ND		0.185	0.0452	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2,4-Dichlorophenol	ND		0.185	0.0736	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2,4-Dimethylphenol	ND		0.365	0.0536	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2,4-Dinitrophenol	ND		0.365	0.0961	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0406'
Date Collected: 03/06/23 13:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-27
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.185	0.0433	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2,6-Dinitrotoluene	ND		0.185	0.0433	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2-Chloronaphthalene	ND		0.365	0.0845	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2-Chlorophenol	ND		0.185	0.0756	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2-Methylnaphthalene	ND		0.0738	0.0546	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2-Methylphenol	ND		0.365	0.0534	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2-Nitroaniline	ND		0.365	0.0348	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
2-Nitrophenol	ND		0.185	0.0656	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
3 & 4 Methylphenol	ND		0.365	0.0692	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
3,3'-Dichlorobenzidine	ND		0.365	0.0603	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
3-Nitroaniline	ND		0.365	0.0327	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
4,6-Dinitro-2-methylphenol	ND		0.365	0.0656	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
4-Bromophenyl phenyl ether	ND		0.365	0.0413	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
4-Chloro-3-methylphenol	ND		0.365	0.0715	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
4-Chloroaniline	ND		0.185	0.0280	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
4-Chlorophenyl phenyl ether	ND		0.365	0.0391	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
4-Nitroaniline	ND		0.185	0.0583	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
4-Nitrophenol	ND		0.365	0.127	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Acenaphthene	ND		0.0738	0.0589	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Acenaphthylene	ND		0.0738	0.0485	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Acetophenone	ND		0.185	0.0451	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Aniline	ND		0.365	0.0280	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Anthracene	ND		0.0738	0.0427	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Azobenzene/Diphenyldiazene	ND		0.365	0.0623	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzidine	ND	*- *1 F1 F2	0.731	0.108	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzo[a]anthracene	ND		0.0738	0.0415	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzo[a]pyrene	ND		0.0738	0.0528	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzo[b]fluoranthene	ND		0.0738	0.0612	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzo[g,h,i]perylene	ND		0.0738	0.0577	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzo[k]fluoranthene	ND		0.0738	0.0574	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzoic acid	ND	*- *1	0.365	0.251	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Benzyl alcohol	ND		0.365	0.0662	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Bis(2-chloroethoxy)methane	ND		0.365	0.0635	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Bis(2-chloroethyl)ether	ND		0.185	0.0604	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
bis (2-chloroisopropyl) ether	ND		0.185	0.0822	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Bis(2-ethylhexyl) phthalate	ND		0.185	0.0470	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Butyl benzyl phthalate	ND		0.365	0.0366	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Carbazole	ND		0.185	0.0484	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Chrysene	ND		0.0738	0.0417	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Dibenz(a,h)anthracene	ND		0.0738	0.0563	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Dibenzofuran	ND		0.185	0.0640	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Diethyl phthalate	ND		0.365	0.0401	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Dimethyl phthalate	ND		0.365	0.0476	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Di-n-butyl phthalate	ND		0.365	0.0391	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Di-n-octyl phthalate	ND		0.365	0.0603	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Fluoranthene	ND		0.0738	0.0433	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Fluorene	ND		0.0738	0.0674	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Hexachlorobenzene	ND		0.185	0.0513	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Hexachlorobutadiene	ND		0.185	0.0922	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1

Client Sample ID: 2023-MW-09-0406' **Lab Sample ID: 620-10149-27**
Date Collected: 03/06/23 13:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.185	0.0706	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Hexachloroethane	ND		0.185	0.0726	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Indeno[1,2,3-cd]pyrene	ND		0.0738	0.0627	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Isophorone	ND		0.185	0.0506	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Naphthalene	ND		0.0738	0.0708	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Nitrobenzene	ND		0.185	0.0853	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
N-Nitrosodimethylamine	ND		0.185	0.0485	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
N-Nitrosodi-n-propylamine	ND		0.185	0.0736	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
N-Nitrosodiphenylamine	ND		0.365	0.0466	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Pentachloronitrobenzene	ND		0.365	0.0577	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Pentachlorophenol	ND		0.365	0.149	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Phenanthrene	ND		0.0738	0.0418	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Phenol	ND		0.365	0.0753	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Pyrene	ND		0.0738	0.0407	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1
Pyridine	ND		0.365	0.0864	mg/Kg	☼	03/20/23 13:14	03/22/23 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*30 - 130*	*03/20/23 13:14*	*03/22/23 15:57*	*1*
2-Fluorophenol (Surr)	*75*		*15 - 110*	*03/20/23 13:14*	*03/22/23 15:57*	*1*
Nitrobenzene-d5 (Surr)	*64*		*30 - 130*	*03/20/23 13:14*	*03/22/23 15:57*	*1*
Phenol-d5 (Surr)	*72*		*15 - 110*	*03/20/23 13:14*	*03/22/23 15:57*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*15 - 110*	*03/20/23 13:14*	*03/22/23 15:57*	*1*
Terphenyl-d14	*75*		*30 - 130*	*03/20/23 13:14*	*03/22/23 15:57*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.291	0.149	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.291	0.124	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0581	0.0116	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
Ethylbenzene	ND		0.0581	0.0116	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
Methyl tert-butyl ether	ND		0.0581	0.0116	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
m,p-Xylene	ND		0.116	0.0116	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
Naphthalene	ND		0.0581	0.0395	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
o-Xylene	ND		0.0581	0.0116	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
Toluene	ND		0.0581	0.0116	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
C5-C8 Aliphatics (unadjusted)	ND		0.291	0.149	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
C9-C10 Aromatics	ND		0.291	0.0407	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1
C9-C12 Aliphatics (unadjusted)	ND		0.291	0.124	mg/Kg	☼	03/13/23 07:46	03/13/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*101*		*70 - 130*	*03/13/23 07:46*	*03/13/23 15:48*	*1*
a,a,a-Trifluorotoluene (pid)	*97*		*70 - 130*	*03/13/23 07:46*	*03/13/23 15:48*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0192	0.0138	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1
PCB-1221	ND		0.0192	0.00567	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1
PCB-1232	ND		0.0192	0.00532	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1

Client Sample ID: 2023-MW-09-0406'
Lab Sample ID: 620-10149-27
Date Collected: 03/06/23 13:10
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 89.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0192	0.00303	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1
PCB-1248	ND		0.0192	0.00600	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1
PCB-1254	ND		0.0192	0.0149	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1
PCB-1262	ND		0.0192	0.00447	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1
PCB-1260	ND		0.0192	0.00413	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1
PCB-1268	ND		0.0192	0.00409	mg/Kg	☼	03/10/23 15:43	03/14/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*111*		*30 - 150*	*03/10/23 15:43*	*03/14/23 18:33*	*1*
Tetrachloro-m-xylene	*106*		*30 - 150*	*03/10/23 15:43*	*03/14/23 18:33*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*	*03/10/23 15:43*	*03/14/23 18:33*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*	*03/10/23 15:43*	*03/14/23 18:33*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluoroheptanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorooctanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorononanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorodecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorotridecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorotetradecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorobutanesulfonic acid	ND		2.15	0.430	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorohexanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorooctanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
NEtFOSAA	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
NMeFOSAA	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
10:2 FTS	ND		2.15	0.645	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluoropentanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluoroheptanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorononanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorodecanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorooctanesulfonamide	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorohexadecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorooctadecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorobutanoic acid	ND		2.15	0.860	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluoropentanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
NMeFOSE	ND		2.15	0.538	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
NMeFOSA	ND		2.15	0.538	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
NEtFOSE	ND		2.15	0.538	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
NEtFOSA	ND		2.15	0.538	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
HFPODA	ND		2.15	1.08	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
DONA	ND		3.23	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
9Cl-PF3ONS	ND		2.15	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
11Cl-PF3OUdS	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluorododecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
4:2 Fluorotelomer sulfonic acid	ND		2.15	0.645	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
Perfluoroundecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1

Client Sample ID: 2023-MW-09-0406' **Lab Sample ID: 620-10149-27**
Date Collected: 03/06/23 13:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.15	0.645	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.645	ug/Kg	☼	03/13/23 07:31	03/22/23 22:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
M2-8:2 FTS	*81*		*15 - 200*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
M2-6:2 FTS	*86*		*10 - 200*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C5 PFHxA	*97*		*10 - 174*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C4 PFHpA	*98*		*10 - 178*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C8 PFOA	*94*		*26 - 159*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C9 PFNA	*94*		*26 - 165*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C6 PFDA	*90*		*26 - 161*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C7 PFUnA	*89*		*12 - 173*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C2-PFDoDA	*85*		*11 - 166*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C2 PFTeDA	*90*		*10 - 169*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C3 PFBS	*86*		*27 - 179*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C3 PFHxS	*93*		*24 - 171*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C8 PFOS	*91*		*41 - 154*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
d3-NMeFOSAA	*60*		*10 - 178*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
d5-NEtFOSAA	*63*		*10 - 193*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C8 FOSA	*81*		*14 - 163*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C4 PFBA	*94*		*28 - 153*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C5 PFPeA	*95*		*24 - 161*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
d7-N-MeFOSE-M	*82*		*10 - 179*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
d3-NMePFOSA	*78*		*10 - 175*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
d9-N-EtFOSE-M	*77*		*10 - 185*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/13/23 07:31*	*03/22/23 22:40*	*1*
13C3 HFPO-DA	*96*		*10 - 169*	*03/13/23 07:31*	*03/22/23 22:40*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.33	1.47	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Arsenic	**3.02**		2.60	1.21	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Barium	**19.1**		0.433	0.130	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Beryllium	**0.208**	**J**	0.433	0.0867	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Cadmium	ND		0.433	0.0867	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Chromium	**4.93**	**B**	1.30	0.303	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Lead	**2.45**	**F1**	1.30	0.520	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Nickel	**1.94**		0.867	0.225	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Selenium	ND		4.33	1.30	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Silver	ND		0.867	0.347	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Thallium	ND		2.60	1.13	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Vanadium	**7.09**		0.867	0.373	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1
Zinc	**8.96**		1.73	0.693	mg/Kg	☼	03/15/23 05:32	03/15/23 18:23	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0649	0.0216	mg/Kg	☼	03/14/23 11:01	03/14/23 13:58	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0406'
Date Collected: 03/06/23 13:10
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-27
Matrix: Solid
Percent Solids: 89.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.6		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	89.4		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0608'
Date Collected: 03/06/23 13:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-28
Matrix: Solid
Percent Solids: 81.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00548	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Acetone	ND	*3	0.0548	0.0123	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Acrylonitrile	ND	*3	0.00548	0.00329	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Benzene	ND	*3	0.00548	0.00366	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Bromobenzene	ND	*3	0.00548	0.00365	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Bromochloromethane	ND	*3	0.00548	0.00311	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Bromodichloromethane	ND	*3	0.00548	0.00402	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Bromoform	ND	*3	0.00548	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Bromomethane	ND	*3	0.0110	0.00682	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
2-Butanone (MEK)	ND	*3	0.0110	0.00436	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
n-Butylbenzene	ND	*3	0.0110	0.00587	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
sec-Butylbenzene	ND	*3	0.00548	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
tert-Butylbenzene	ND	*3	0.00548	0.00432	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Carbon disulfide	ND	*3	0.0110	0.00384	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Carbon tetrachloride	ND	*3	0.00548	0.00345	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Chlorobenzene	ND	*3	0.00548	0.00401	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Chloroethane	ND	*3	0.0110	0.00402	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Chloroform	ND	*3	0.00548	0.00368	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Chloromethane	ND	*3	0.0110	0.00421	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
2-Chlorotoluene	ND	*3	0.00548	0.00436	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
4-Chlorotoluene	ND	*3	0.00548	0.00475	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0110	0.00464	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Dibromochloromethane	ND	*3	0.00548	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2-Dibromoethane (EDB)	ND	*3	0.00548	0.00393	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Dibromomethane	ND	*3	0.00548	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2-Dichlorobenzene	ND	*3	0.00548	0.00508	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,3-Dichlorobenzene	ND	*3	0.00548	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,4-Dichlorobenzene	ND	*3	0.00548	0.00519	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0110	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,1-Dichloroethane	ND	*3	0.00548	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2-Dichloroethane	ND	*3	0.00548	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,1-Dichloroethene	ND	*3	0.00548	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
cis-1,2-Dichloroethene	ND	*3	0.00548	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
trans-1,2-Dichloroethene	ND	*3	0.00548	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2-Dichloropropane	ND	*3	0.00548	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,3-Dichloropropane	ND	*3	0.00548	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
2,2-Dichloropropane	ND	*3	0.00548	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,1-Dichloropropene	ND	*3	0.00548	0.00372	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
cis-1,3-Dichloropropene	ND	*3	0.00548	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
trans-1,3-Dichloropropene	ND	*3	0.00548	0.00416	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Ethylbenzene	ND	*3	0.00548	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Hexachlorobutadiene	ND	*3	0.0110	0.00551	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
2-Hexanone (MBK)	ND	*3	0.0110	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Isopropylbenzene	ND	*3	0.00548	0.00414	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
4-Isopropyltoluene	ND	*3	0.00548	0.00538	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Methyl tert-butyl ether	ND	*3	0.00548	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0110	0.00354	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Methylene Chloride	ND	*3	0.0110	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Naphthalene	ND	*3	0.00548	0.00495	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1

Client Sample ID: 2023-MW-09-0608' **Lab Sample ID: 620-10149-28**
Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND	*3	0.00548	0.00463	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Styrene	ND	*3	0.00548	0.00424	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00548	0.00411	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00548	0.00502	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Tetrachloroethene	ND	*3	0.00548	0.00304	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Toluene	ND	*3	0.00548	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2,3-Trichlorobenzene	ND	*3	0.00548	0.00462	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2,4-Trichlorobenzene	ND	*3	0.00548	0.00505	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,3,5-Trichlorobenzene	ND	*3	0.00548	0.00520	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,1,1-Trichloroethane	ND	*3	0.00548	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,1,2-Trichloroethane	ND	*3	0.00548	0.00413	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Trichloroethene	ND	*3	0.00548	0.00368	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00548	0.00418	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2,3-Trichloropropane	ND	*3	0.00548	0.00486	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,2,4-Trimethylbenzene	ND	*3	0.00548	0.00463	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,3,5-Trimethylbenzene	ND	*3	0.00548	0.00466	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Vinyl chloride	ND	*3	0.00548	0.00334	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
m,p-Xylene	ND	*3	0.00548	0.00748	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
o-Xylene	ND	*3	0.00548	0.00400	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Tetrahydrofuran	ND	*3	0.0110	0.00277	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Ethyl ether	ND	*3	0.00548	0.00288	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Tert-amyl methyl ether	ND	*3	0.00548	0.00433	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Ethyl tert-butyl ether	ND	*3	0.00548	0.00360	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
di-Isopropyl ether	ND	*3	0.00548	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
tert-Butanol	ND	*3	0.110	0.0294	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,4-Dioxane	ND	*3	0.110	0.0341	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0274	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Ethanol	ND	*3	1.10	0.0679	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
1,3-Dichloropropene, Total	ND		0.00548	0.00416	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1
Xylenes, Total	ND		0.0164	0.00548	mg/Kg	☼	03/15/23 12:58	03/15/23 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 19:50*	*1*
Toluene-d8 (Surr)	*95*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 19:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 19:50*	*1*
Dibromofluoromethane (Surr)	*123*	*3	*70 - 130*	*03/15/23 12:58*	*03/15/23 19:50*	*1*

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	*3	0.00561	0.00366	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Acetone	ND	*3	0.0561	0.0126	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Acrylonitrile	ND	*3	0.00561	0.00337	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Benzene	ND	*3	0.00561	0.00375	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Bromobenzene	ND	*3	0.00561	0.00374	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Bromochloromethane	ND	*3	0.00561	0.00319	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Bromodichloromethane	ND	*3	0.00561	0.00412	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Bromoform	ND	*3	0.00561	0.00429	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Bromomethane	ND	*3	0.0112	0.00699	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
2-Butanone (MEK)	ND	*3	0.0112	0.00446	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0608'
Date Collected: 03/06/23 13:15
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-28
Matrix: Solid
Percent Solids: 81.7

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND	*3	0.0112	0.00601	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
sec-Butylbenzene	ND	*3	0.00561	0.00452	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
tert-Butylbenzene	ND	*3	0.00561	0.00442	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Carbon disulfide	ND	*3	0.0112	0.00394	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Carbon tetrachloride	ND	*3	0.00561	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Chlorobenzene	ND	*3	0.00561	0.00411	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Chloroethane	ND	*3	0.0112	0.00412	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Chloroform	ND	*3	0.00561	0.00377	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Chloromethane	ND	*3	0.0112	0.00431	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
2-Chlorotoluene	ND	*3	0.00561	0.00446	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
4-Chlorotoluene	ND	*3	0.00561	0.00487	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2-Dibromo-3-Chloropropane	ND	*3	0.0112	0.00476	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Dibromochloromethane	ND	*3	0.00561	0.00371	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2-Dibromoethane (EDB)	ND	*3	0.00561	0.00403	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Dibromomethane	ND	*3	0.00561	0.00330	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2-Dichlorobenzene	ND	*3	0.00561	0.00521	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,3-Dichlorobenzene	ND	*3	0.00561	0.00450	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,4-Dichlorobenzene	ND	*3	0.00561	0.00532	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Dichlorodifluoromethane (Freon 12)	ND	*3 *-	0.0112	0.00301	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,1-Dichloroethane	ND	*3	0.00561	0.00380	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2-Dichloroethane	ND	*3	0.00561	0.00378	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,1-Dichloroethene	ND	*3	0.00561	0.00343	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
cis-1,2-Dichloroethene	ND	*3	0.00561	0.00324	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
trans-1,2-Dichloroethene	ND	*3	0.00561	0.00349	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2-Dichloropropane	ND	*3	0.00561	0.00371	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,3-Dichloropropane	ND	*3	0.00561	0.00429	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
2,2-Dichloropropane	ND	*3	0.00561	0.00387	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,1-Dichloropropene	ND	*3	0.00561	0.00381	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
cis-1,3-Dichloropropene	ND	*3	0.00561	0.00366	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
trans-1,3-Dichloropropene	ND	*3	0.00561	0.00426	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Ethylbenzene	ND	*3	0.00561	0.00400	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Hexachlorobutadiene	ND	*3	0.0112	0.00564	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
2-Hexanone (MBK)	ND	*3	0.0112	0.00330	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Isopropylbenzene	ND	*3	0.00561	0.00424	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
4-Isopropyltoluene	ND	*3	0.00561	0.00551	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Methyl tert-butyl ether	ND	*3	0.00561	0.00323	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
4-Methyl-2-pentanone (MIBK)	ND	*3	0.0112	0.00362	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Methylene Chloride	ND	*3	0.0112	0.00301	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Naphthalene	ND	*3	0.00561	0.00507	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
N-Propylbenzene	ND	*3	0.00561	0.00475	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Styrene	ND	*3	0.00561	0.00434	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,1,1,2-Tetrachloroethane	ND	*3	0.00561	0.00421	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,1,2,2-Tetrachloroethane	ND	*3	0.00561	0.00514	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Tetrachloroethene	ND	*3	0.00561	0.00312	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Toluene	ND	*3	0.00561	0.00356	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2,3-Trichlorobenzene	ND	*3	0.00561	0.00473	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2,4-Trichlorobenzene	ND	*3	0.00561	0.00517	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,3,5-Trichlorobenzene	ND	*3	0.00561	0.00533	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,1,1-Trichloroethane	ND	*3	0.00561	0.00383	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1

Client Sample ID: 2023-MW-09-0608' **Lab Sample ID: 620-10149-28**
Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.7**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND	*3	0.00561	0.00423	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Trichloroethene	ND	*3	0.00561	0.00377	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Trichlorofluoromethane (Freon 11)	ND	*3	0.00561	0.00429	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2,3-Trichloropropane	ND	*3	0.00561	0.00498	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,2,4-Trimethylbenzene	ND	*3	0.00561	0.00475	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,3,5-Trimethylbenzene	ND	*3	0.00561	0.00477	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Vinyl chloride	ND	*3	0.00561	0.00342	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
m,p-Xylene	ND	*3	0.00561	0.00766	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
o-Xylene	ND	*3	0.00561	0.00409	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Tetrahydrofuran	ND	*3	0.0112	0.00284	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Ethyl ether	ND	*3	0.00561	0.00295	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Tert-amyl methyl ether	ND	*3	0.00561	0.00443	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Ethyl tert-butyl ether	ND	*3	0.00561	0.00369	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
di-Isopropyl ether	ND	*3	0.00561	0.00400	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
tert-Butanol	ND	*3	0.112	0.0301	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,4-Dioxane	ND	*3	0.112	0.0349	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
trans-1,4-Dichloro-2-butene	ND	*3	0.0280	0.00414	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Ethanol	ND	*3	1.12	0.0696	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
1,3-Dichloropropene, Total	ND		0.00561	0.00426	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1
Xylenes, Total	ND		0.0168	0.00561	mg/Kg	☼	03/16/23 16:25	03/16/23 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*	*3	*70 - 130*	*03/16/23 16:25*	*03/16/23 22:35*	*1*
Toluene-d8 (Surr)	*96*	*3	*70 - 130*	*03/16/23 16:25*	*03/16/23 22:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*	*3 S1+	*70 - 130*	*03/16/23 16:25*	*03/16/23 22:35*	*1*
Dibromofluoromethane (Surr)	*124*	*3	*70 - 130*	*03/16/23 16:25*	*03/16/23 22:35*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.393	0.0698	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
1,2,4-Trichlorobenzene	ND		0.393	0.0899	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
1,2-Dichlorobenzene	ND		0.393	0.0756	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
1,3-Dichlorobenzene	ND		0.393	0.0950	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
1,4-Dichlorobenzene	ND		0.393	0.0924	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
1-Methylnaphthalene	ND		0.0793	0.0666	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2,4,5-Trichlorophenol	ND		0.393	0.0450	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2,4,6-Trichlorophenol	ND		0.199	0.0485	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2,4-Dichlorophenol	ND		0.199	0.0791	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2,4-Dimethylphenol	ND		0.393	0.0576	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2,4-Dinitrophenol	ND		0.393	0.103	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2,4-Dinitrotoluene	ND		0.199	0.0465	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2,6-Dinitrotoluene	ND		0.199	0.0465	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2-Chloronaphthalene	ND		0.393	0.0908	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2-Chlorophenol	ND		0.199	0.0812	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2-Methylnaphthalene	ND		0.0793	0.0586	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2-Methylphenol	ND		0.393	0.0573	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2-Nitroaniline	ND		0.393	0.0373	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
2-Nitrophenol	ND		0.199	0.0705	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
3 & 4 Methylphenol	ND		0.393	0.0743	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
3,3'-Dichlorobenzidine	ND		0.393	0.0648	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1

Client Sample ID: 2023-MW-09-0608' **Lab Sample ID: 620-10149-28**
Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		0.393	0.0351	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
4,6-Dinitro-2-methylphenol	ND		0.393	0.0705	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
4-Bromophenyl phenyl ether	ND		0.393	0.0444	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
4-Chloro-3-methylphenol	ND		0.393	0.0768	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
4-Chloroaniline	ND		0.199	0.0301	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
4-Chlorophenyl phenyl ether	ND		0.393	0.0420	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
4-Nitroaniline	ND		0.199	0.0627	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
4-Nitrophenol	ND		0.393	0.137	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Acenaphthene	ND		0.0793	0.0633	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Acenaphthylene	ND		0.0793	0.0521	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Acetophenone	ND		0.199	0.0484	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Aniline	ND		0.393	0.0301	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Anthracene	ND		0.0793	0.0459	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Azobenzene/Diphenyldiazene	ND		0.393	0.0670	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzidine	ND	*1	0.785	0.116	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzo[a]anthracene	ND		0.0793	0.0446	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzo[a]pyrene	ND		0.0793	0.0567	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzo[b]fluoranthene	ND		0.0793	0.0658	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzo[g,h,i]perylene	ND		0.0793	0.0620	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzo[k]fluoranthene	ND		0.0793	0.0617	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzoic acid	ND	*- *1	0.393	0.270	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Benzyl alcohol	ND		0.393	0.0711	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Bis(2-chloroethoxy)methane	ND		0.393	0.0683	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Bis(2-chloroethyl)ether	ND		0.199	0.0649	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
bis (2-chloroisopropyl) ether	ND		0.199	0.0884	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Bis(2-ethylhexyl) phthalate	ND	*1	0.199	0.0506	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Butyl benzyl phthalate	ND		0.393	0.0394	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Carbazole	ND		0.199	0.0520	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Chrysene	ND		0.0793	0.0448	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Dibenz(a,h)anthracene	ND		0.0793	0.0605	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Dibenzofuran	ND		0.199	0.0687	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Diethyl phthalate	ND		0.393	0.0431	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Dimethyl phthalate	ND		0.393	0.0511	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Di-n-butyl phthalate	ND		0.393	0.0420	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Di-n-octyl phthalate	ND		0.393	0.0648	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Fluoranthene	ND		0.0793	0.0465	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Fluorene	ND		0.0793	0.0724	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Hexachlorobenzene	ND		0.199	0.0551	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Hexachlorobutadiene	ND		0.199	0.0991	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Hexachlorocyclopentadiene	ND		0.199	0.0759	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Hexachloroethane	ND		0.199	0.0780	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Indeno[1,2,3-cd]pyrene	ND		0.0793	0.0673	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Isophorone	ND		0.199	0.0544	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Naphthalene	ND		0.0793	0.0761	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Nitrobenzene	ND		0.199	0.0917	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
N-Nitrosodimethylamine	ND		0.199	0.0521	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
N-Nitrosodi-n-propylamine	ND		0.199	0.0791	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
N-Nitrosodiphenylamine	ND		0.393	0.0501	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Pentachloronitrobenzene	ND		0.393	0.0620	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1

Client Sample ID: 2023-MW-09-0608' **Lab Sample ID: 620-10149-28**
Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.7**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.393	0.161	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Phenanthrene	ND		0.0793	0.0450	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Phenol	ND		0.393	0.0809	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Pyrene	ND		0.0793	0.0438	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1
Pyridine	ND		0.393	0.0929	mg/Kg	☼	03/20/23 14:14	03/22/23 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*30 - 130*	*03/20/23 14:14*	*03/22/23 17:22*	*1*
2-Fluorophenol (Surr)	*84*		*15 - 110*	*03/20/23 14:14*	*03/22/23 17:22*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*03/20/23 14:14*	*03/22/23 17:22*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/20/23 14:14*	*03/22/23 17:22*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*	*03/20/23 14:14*	*03/22/23 17:22*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/20/23 14:14*	*03/22/23 17:22*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.267	0.136	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.267	0.114	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
Ethylbenzene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
Methyl tert-butyl ether	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
m,p-Xylene	ND		0.107	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
Naphthalene	ND		0.0533	0.0362	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
o-Xylene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
Toluene	ND		0.0533	0.0107	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
C5-C8 Aliphatics (unadjusted)	ND		0.267	0.136	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
C9-C10 Aromatics	ND		0.267	0.0373	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1
C9-C12 Aliphatics (unadjusted)	ND		0.267	0.114	mg/Kg	☼	03/13/23 07:46	03/13/23 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/13/23 07:46*	*03/13/23 23:41*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/13/23 07:46*	*03/13/23 23:41*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0226	0.0163	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1221	ND		0.0226	0.00668	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1232	ND		0.0226	0.00626	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1242	ND		0.0226	0.00357	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1248	ND		0.0226	0.00707	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1254	ND		0.0226	0.0176	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1262	ND		0.0226	0.00527	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1260	ND		0.0226	0.00486	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1
PCB-1268	ND		0.0226	0.00482	mg/Kg	☼	03/10/23 15:43	03/13/23 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:27*	*1*
Tetrachloro-m-xylene	*100*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:27*	*1*

Client Sample ID: 2023-MW-09-0608' **Lab Sample ID: 620-10149-28**
Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	100		30 - 150	03/10/23 15:43	03/13/23 23:27	1
DCB Decachlorobiphenyl (Surr)	96		30 - 150	03/10/23 15:43	03/13/23 23:27	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluoroheptanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorooctanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorononanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorodecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorotridecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorotetradecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorobutanesulfonic acid	ND		2.40	0.480	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorohexanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorooctanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
NEtFOSAA	ND		2.40	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
NMeFOSAA	ND		2.40	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
10:2 FTS	ND		2.40	0.720	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluoropentanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluoroheptanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorononanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorodecanesulfonic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.40	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorooctanesulfonamide	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorohexadecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorooctadecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorobutanoic acid	ND		2.40	0.960	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluoropentanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
NMeFOSE	ND		2.40	0.600	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
NMeFOSA	ND		2.40	0.600	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
NEtFOSE	ND		2.40	0.600	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
NEtFOSA	ND		2.40	0.600	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
HFPODA	ND		2.40	1.20	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
DONA	ND		3.60	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
9Cl-PF3ONS	ND		2.40	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
11Cl-PF3OUdS	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluorododecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
4:2 Fluorotelomer sulfonic acid	ND		2.40	0.720	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
Perfluoroundecanoic acid	ND		0.720	0.240	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
6:2 Fluorotelomer sulfonic acid	ND		2.40	0.720	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1
8:2 Fluorotelomer sulfonic acid	ND		3.60	0.720	ug/Kg	☼	03/13/23 07:31	03/22/23 23:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	79		10 - 200	03/13/23 07:31	03/22/23 23:14	1
M2-8:2 FTS	79		15 - 200	03/13/23 07:31	03/22/23 23:14	1
M2-6:2 FTS	77		10 - 200	03/13/23 07:31	03/22/23 23:14	1
13C5 PFHxA	89		10 - 174	03/13/23 07:31	03/22/23 23:14	1
13C4 PFHpA	84		10 - 178	03/13/23 07:31	03/22/23 23:14	1
13C8 PFOA	86		26 - 159	03/13/23 07:31	03/22/23 23:14	1

Client Sample ID: 2023-MW-09-0608' Lab Sample ID: 620-10149-28

Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.7**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	87		26 - 165	03/13/23 07:31	03/22/23 23:14	1
13C6 PFDA	83		26 - 161	03/13/23 07:31	03/22/23 23:14	1
13C7 PFUnA	81		12 - 173	03/13/23 07:31	03/22/23 23:14	1
13C2-PFDoDA	79		11 - 166	03/13/23 07:31	03/22/23 23:14	1
13C2 PFTeDA	76		10 - 169	03/13/23 07:31	03/22/23 23:14	1
13C3 PFBS	79		27 - 179	03/13/23 07:31	03/22/23 23:14	1
13C3 PFHxS	80		24 - 171	03/13/23 07:31	03/22/23 23:14	1
13C8 PFOS	82		41 - 154	03/13/23 07:31	03/22/23 23:14	1
d3-NMeFOSAA	56		10 - 178	03/13/23 07:31	03/22/23 23:14	1
d5-NEtFOSAA	54		10 - 193	03/13/23 07:31	03/22/23 23:14	1
13C8 FOSA	74		14 - 163	03/13/23 07:31	03/22/23 23:14	1
13C4 PFBA	85		28 - 153	03/13/23 07:31	03/22/23 23:14	1
13C5 PFPeA	89		24 - 161	03/13/23 07:31	03/22/23 23:14	1
d7-N-MeFOSE-M	76		10 - 179	03/13/23 07:31	03/22/23 23:14	1
d3-NMePFOSA	78		10 - 175	03/13/23 07:31	03/22/23 23:14	1
d9-N-EtFOSE-M	73		10 - 185	03/13/23 07:31	03/22/23 23:14	1
d5-NEtPFOSA	78		10 - 180	03/13/23 07:31	03/22/23 23:14	1
13C3 HFPO-DA	82		10 - 169	03/13/23 07:31	03/22/23 23:14	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.19	1.43	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Arsenic	**2.86**		2.52	1.17	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Barium	**15.8**		0.419	0.126	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Beryllium	**0.190**	**J**	0.419	0.0839	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Cadmium	ND		0.419	0.0839	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Chromium	**4.22**		1.26	0.294	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Lead	**2.49**		1.26	0.503	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Nickel	**1.86**		0.839	0.218	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Selenium	ND		4.19	1.26	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Silver	ND		0.839	0.335	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Thallium	ND		2.52	1.09	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Vanadium	**6.76**		0.839	0.361	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1
Zinc	**12.6**		1.68	0.671	mg/Kg	☼	03/14/23 09:00	03/15/23 22:04	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0735	0.0245	mg/Kg	☼	03/14/23 07:49	03/14/23 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.3**		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	**81.7**		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0810'
Date Collected: 03/06/23 13:20
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-29
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00506	0.00330	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Acetone	ND		0.0506	0.0113	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Acrylonitrile	ND		0.00506	0.00303	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Benzene	ND		0.00506	0.00338	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Bromobenzene	ND		0.00506	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Bromochloromethane	ND		0.00506	0.00287	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Bromodichloromethane	ND		0.00506	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Bromoform	ND		0.00506	0.00386	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Bromomethane	ND		0.0101	0.00630	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
2-Butanone (MEK)	ND		0.0101	0.00403	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
n-Butylbenzene	ND		0.0101	0.00542	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
sec-Butylbenzene	ND		0.00506	0.00408	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
tert-Butylbenzene	ND		0.00506	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Carbon disulfide	ND		0.0101	0.00355	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Carbon tetrachloride	ND		0.00506	0.00319	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Chlorobenzene	ND		0.00506	0.00370	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Chloroethane	ND		0.0101	0.00371	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Chloroform	ND		0.00506	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Chloromethane	ND		0.0101	0.00388	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
2-Chlorotoluene	ND		0.00506	0.00403	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
4-Chlorotoluene	ND		0.00506	0.00439	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2-Dibromo-3-Chloropropane	ND		0.0101	0.00429	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Dibromochloromethane	ND		0.00506	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2-Dibromoethane (EDB)	ND		0.00506	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Dibromomethane	ND		0.00506	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2-Dichlorobenzene	ND		0.00506	0.00469	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,3-Dichlorobenzene	ND		0.00506	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,4-Dichlorobenzene	ND		0.00506	0.00479	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0101	0.00271	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,1-Dichloroethane	ND		0.00506	0.00343	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2-Dichloroethane	ND		0.00506	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,1-Dichloroethene	ND		0.00506	0.00310	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
cis-1,2-Dichloroethene	ND		0.00506	0.00292	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
trans-1,2-Dichloroethene	ND		0.00506	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2-Dichloropropane	ND		0.00506	0.00335	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,3-Dichloropropane	ND		0.00506	0.00386	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
2,2-Dichloropropane	ND		0.00506	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,1-Dichloropropene	ND		0.00506	0.00344	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
cis-1,3-Dichloropropene	ND		0.00506	0.00330	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
trans-1,3-Dichloropropene	ND		0.00506	0.00384	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Ethylbenzene	ND		0.00506	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Hexachlorobutadiene	ND		0.0101	0.00509	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
2-Hexanone (MBK)	ND		0.0101	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Isopropylbenzene	ND		0.00506	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
4-Isopropyltoluene	ND		0.00506	0.00497	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Methyl tert-butyl ether	ND		0.00506	0.00291	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
4-Methyl-2-pentanone (MIBK)	ND		0.0101	0.00327	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Methylene Chloride	ND		0.0101	0.00271	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Naphthalene	ND		0.00506	0.00457	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1

Client Sample ID: 2023-MW-09-0810' **Lab Sample ID: 620-10149-29**
Date Collected: 03/06/23 13:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00506	0.00428	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Styrene	ND		0.00506	0.00391	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,1,1,2-Tetrachloroethane	ND		0.00506	0.00379	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,1,2,2-Tetrachloroethane	ND		0.00506	0.00463	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Tetrachloroethene	ND		0.00506	0.00281	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Toluene	ND		0.00506	0.00321	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2,3-Trichlorobenzene	ND		0.00506	0.00427	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2,4-Trichlorobenzene	ND		0.00506	0.00466	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,3,5-Trichlorobenzene	ND		0.00506	0.00481	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,1,1-Trichloroethane	ND		0.00506	0.00345	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,1,2-Trichloroethane	ND		0.00506	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Trichloroethene	ND		0.00506	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Trichlorofluoromethane (Freon 11)	ND		0.00506	0.00386	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2,3-Trichloropropane	ND		0.00506	0.00449	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,2,4-Trimethylbenzene	ND		0.00506	0.00428	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,3,5-Trimethylbenzene	ND		0.00506	0.00430	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Vinyl chloride	ND		0.00506	0.00309	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
m,p-Xylene	ND		0.00506	0.00691	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
o-Xylene	ND		0.00506	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Tetrahydrofuran	ND		0.0101	0.00256	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Ethyl ether	ND		0.00506	0.00266	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Tert-amyl methyl ether	ND		0.00506	0.00400	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Ethyl tert-butyl ether	ND		0.00506	0.00333	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
di-Isopropyl ether	ND		0.00506	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
tert-Butanol	ND		0.101	0.0271	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,4-Dioxane	ND		0.101	0.0315	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
trans-1,4-Dichloro-2-butene	ND		0.0253	0.00373	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Ethanol	ND		1.01	0.0627	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
1,3-Dichloropropene, Total	ND		0.00506	0.00384	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1
Xylenes, Total	ND		0.0152	0.00506	mg/Kg	☼	03/15/23 12:58	03/15/23 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:16*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:16*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:16*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.410	0.0729	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
1,2,4-Trichlorobenzene	ND		0.410	0.0939	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
1,2-Dichlorobenzene	ND		0.410	0.0790	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
1,3-Dichlorobenzene	ND		0.410	0.0993	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
1,4-Dichlorobenzene	ND		0.410	0.0965	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
1-Methylnaphthalene	ND		0.0829	0.0696	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2,4,5-Trichlorophenol	ND		0.410	0.0470	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2,4,6-Trichlorophenol	ND		0.207	0.0507	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2,4-Dichlorophenol	ND		0.207	0.0826	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2,4-Dimethylphenol	ND		0.410	0.0601	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2,4-Dinitrophenol	ND		0.410	0.108	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0810'
Date Collected: 03/06/23 13:20
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-29
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.207	0.0486	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2,6-Dinitrotoluene	ND		0.207	0.0486	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2-Chloronaphthalene	ND		0.410	0.0948	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2-Chlorophenol	ND		0.207	0.0849	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2-Methylnaphthalene	ND		0.0829	0.0613	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2-Methylphenol	ND		0.410	0.0599	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2-Nitroaniline	ND		0.410	0.0390	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
2-Nitrophenol	ND		0.207	0.0737	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
3 & 4 Methylphenol	ND		0.410	0.0777	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
3,3'-Dichlorobenzidine	ND		0.410	0.0677	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
3-Nitroaniline	ND		0.410	0.0367	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
4,6-Dinitro-2-methylphenol	ND		0.410	0.0737	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
4-Bromophenyl phenyl ether	ND		0.410	0.0463	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
4-Chloro-3-methylphenol	ND		0.410	0.0803	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
4-Chloroaniline	ND		0.207	0.0314	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
4-Chlorophenyl phenyl ether	ND		0.410	0.0439	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
4-Nitroaniline	ND		0.207	0.0655	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
4-Nitrophenol	ND		0.410	0.143	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Acenaphthene	ND		0.0829	0.0661	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Acenaphthylene	ND		0.0829	0.0544	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Acetophenone	ND		0.207	0.0506	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Aniline	ND		0.410	0.0314	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Anthracene	ND		0.0829	0.0480	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Azobenzene/Diphenyldiazene	ND		0.410	0.0699	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzidine	ND	*1	0.820	0.121	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzo[a]anthracene	ND		0.0829	0.0466	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzo[a]pyrene	ND		0.0829	0.0593	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzo[b]fluoranthene	ND		0.0829	0.0687	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzo[g,h,i]perylene	ND		0.0829	0.0647	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzo[k]fluoranthene	ND		0.0829	0.0645	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzoic acid	ND	*- *1	0.410	0.282	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Benzyl alcohol	ND		0.410	0.0743	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Bis(2-chloroethoxy)methane	ND		0.410	0.0713	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Bis(2-chloroethyl)ether	ND		0.207	0.0678	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
bis (2-chloroisopropyl) ether	ND		0.207	0.0923	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Bis(2-ethylhexyl) phthalate	ND	*1	0.207	0.0528	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Butyl benzyl phthalate	ND		0.410	0.0411	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Carbazole	ND		0.207	0.0543	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Chrysene	ND		0.0829	0.0468	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Dibenz(a,h)anthracene	ND		0.0829	0.0632	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Dibenzofuran	ND		0.207	0.0718	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Diethyl phthalate	ND		0.410	0.0450	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Dimethyl phthalate	ND		0.410	0.0534	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Di-n-butyl phthalate	ND		0.410	0.0439	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Di-n-octyl phthalate	ND		0.410	0.0677	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Fluoranthene	ND		0.0829	0.0486	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Fluorene	ND		0.0829	0.0757	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Hexachlorobenzene	ND		0.207	0.0575	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Hexachlorobutadiene	ND		0.207	0.103	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1

Client Sample ID: 2023-MW-09-0810' **Lab Sample ID: 620-10149-29**
Date Collected: 03/06/23 13:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.207	0.0793	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Hexachloroethane	ND		0.207	0.0815	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0829	0.0703	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Isophorone	ND		0.207	0.0568	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Naphthalene	ND		0.0829	0.0795	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Nitrobenzene	ND		0.207	0.0958	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
N-Nitrosodimethylamine	ND		0.207	0.0544	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
N-Nitrosodi-n-propylamine	ND		0.207	0.0826	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
N-Nitrosodiphenylamine	ND		0.410	0.0523	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Pentachloronitrobenzene	ND		0.410	0.0647	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Pentachlorophenol	ND		0.410	0.168	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Phenanthrene	ND		0.0829	0.0470	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Phenol	ND		0.410	0.0845	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Pyrene	ND		0.0829	0.0457	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1
Pyridine	ND		0.410	0.0970	mg/Kg	☼	03/20/23 14:14	03/22/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*30 - 130*	*03/20/23 14:14*	*03/22/23 17:50*	*1*
2-Fluorophenol (Surr)	*74*		*15 - 110*	*03/20/23 14:14*	*03/22/23 17:50*	*1*
Nitrobenzene-d5 (Surr)	*71*		*30 - 130*	*03/20/23 14:14*	*03/22/23 17:50*	*1*
Phenol-d5 (Surr)	*69*		*15 - 110*	*03/20/23 14:14*	*03/22/23 17:50*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*15 - 110*	*03/20/23 14:14*	*03/22/23 17:50*	*1*
Terphenyl-d14	*57*		*30 - 130*	*03/20/23 14:14*	*03/22/23 17:50*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.296	0.152	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.296	0.127	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0592	0.0118	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
Ethylbenzene	ND		0.0592	0.0118	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
Methyl tert-butyl ether	ND		0.0592	0.0118	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
m,p-Xylene	ND		0.118	0.0118	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
Naphthalene	ND		0.0592	0.0403	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
o-Xylene	ND		0.0592	0.0118	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
Toluene	ND		0.0592	0.0118	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
C5-C8 Aliphatics (unadjusted)	ND		0.296	0.152	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
C9-C10 Aromatics	ND		0.296	0.0414	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1
C9-C12 Aliphatics (unadjusted)	ND		0.296	0.127	mg/Kg	☼	03/13/23 07:46	03/14/23 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*	*03/13/23 07:46*	*03/14/23 00:20*	*1*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*	*03/13/23 07:46*	*03/14/23 00:20*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0247	0.0178	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1
PCB-1221	ND		0.0247	0.00731	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1
PCB-1232	ND		0.0247	0.00685	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1

Client Sample ID: 2023-MW-09-0810'
Date Collected: 03/06/23 13:20
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-29
Matrix: Solid
Percent Solids: 79.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0247	0.00391	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1
PCB-1248	ND		0.0247	0.00773	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1
PCB-1254	ND		0.0247	0.0192	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1
PCB-1262	ND		0.0247	0.00576	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1
PCB-1260	ND		0.0247	0.00532	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1
PCB-1268	ND		0.0247	0.00527	mg/Kg	☼	03/10/23 15:43	03/14/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:24*	*1*
Tetrachloro-m-xylene	*108*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:24*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:24*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:24*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluoroheptanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorooctanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorononanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorodecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorotridecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorotetradecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorobutanesulfonic acid	ND		2.33	0.466	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorohexanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorooctanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
NEtFOSAA	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
NMeFOSAA	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
10:2 FTS	ND		2.33	0.699	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluoropentanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluoroheptanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorononanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorodecanesulfonic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorooctanesulfonamide	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorohexadecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorooctadecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorobutanoic acid	ND		2.33	0.932	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluoropentanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
NMeFOSE	ND		2.33	0.583	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
NMeFOSA	ND		2.33	0.583	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
NEtFOSE	ND		2.33	0.583	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
NEtFOSA	ND		2.33	0.583	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
HFPODA	ND		2.33	1.17	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
DONA	ND		3.50	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
9Cl-PF3ONS	ND		2.33	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
11Cl-PF3OUdS	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluorododecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
4:2 Fluorotelomer sulfonic acid	ND		2.33	0.699	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
Perfluoroundecanoic acid	ND		0.699	0.233	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1

Client Sample ID: 2023-MW-09-0810' **Lab Sample ID: 620-10149-29**
Date Collected: 03/06/23 13:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.33	0.699	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1
8:2 Fluorotelomer sulfonic acid	ND		3.50	0.699	ug/Kg	☼	03/13/23 07:31	03/22/23 23:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*73*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
M2-8:2 FTS	*65*		*15 - 200*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
M2-6:2 FTS	*69*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C5 PFHxA	*87*		*10 - 174*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C4 PFHpA	*85*		*10 - 178*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C8 PFOA	*85*		*26 - 159*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C9 PFNA	*88*		*26 - 165*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C6 PFDA	*80*		*26 - 161*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C7 PFUnA	*79*		*12 - 173*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C2-PFDoDA	*84*		*11 - 166*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C2 PFTeDA	*77*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C3 PFBS	*79*		*27 - 179*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C3 PFHxS	*83*		*24 - 171*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C8 PFOS	*90*		*41 - 154*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
d3-NMeFOSAA	*14*		*10 - 178*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
d5-NEtFOSAA	*18*		*10 - 193*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C8 FOSA	*80*		*14 - 163*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C4 PFBA	*82*		*28 - 153*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C5 PFPeA	*82*		*24 - 161*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
d7-N-MeFOSE-M	*80*		*10 - 179*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
d3-NMePFOSA	*81*		*10 - 175*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
d9-N-EtFOSE-M	*76*		*10 - 185*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
d5-NEtPFOSA	*81*		*10 - 180*	*03/13/23 07:31*	*03/22/23 23:25*	*1*
13C3 HFPO-DA	*87*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:25*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.53	1.54	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Arsenic	**7.33**		2.72	1.27	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Barium	**53.6**		0.453	0.136	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Beryllium	**0.847**		0.453	0.0905	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Cadmium	ND		0.453	0.0905	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Chromium	**15.3**		1.36	0.317	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Lead	**5.90**		1.36	0.543	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Nickel	**8.03**		0.905	0.235	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Selenium	ND		4.53	1.36	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Silver	ND		0.905	0.362	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Thallium	ND		27.2	11.8	mg/Kg	☼	03/14/23 09:00	03/16/23 00:16	10
Vanadium	**25.4**		0.905	0.389	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1
Zinc	**34.4**		1.81	0.724	mg/Kg	☼	03/14/23 09:00	03/16/23 00:12	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0743	0.0248	mg/Kg	☼	03/14/23 11:01	03/14/23 14:15	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-0810'
Date Collected: 03/06/23 13:20
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-29
Matrix: Solid
Percent Solids: 79.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	20.5		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	79.5		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-1012'
Date Collected: 03/06/23 13:25
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-30
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00499	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Acetone	ND		0.0499	0.0112	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Acrylonitrile	ND		0.00499	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Benzene	ND		0.00499	0.00334	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Bromobenzene	ND		0.00499	0.00333	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Bromochloromethane	ND		0.00499	0.00284	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Bromodichloromethane	ND		0.00499	0.00367	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Bromoform	ND		0.00499	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Bromomethane	ND		0.00999	0.00622	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
2-Butanone (MEK)	ND		0.00999	0.00398	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
n-Butylbenzene	ND		0.00999	0.00535	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
sec-Butylbenzene	ND		0.00499	0.00403	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
tert-Butylbenzene	ND		0.00499	0.00394	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Carbon disulfide	ND		0.00999	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Carbon tetrachloride	ND		0.00499	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Chlorobenzene	ND		0.00499	0.00366	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Chloroethane	ND		0.00999	0.00367	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Chloroform	ND		0.00499	0.00336	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Chloromethane	ND		0.00999	0.00384	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
2-Chlorotoluene	ND		0.00499	0.00398	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
4-Chlorotoluene	ND		0.00499	0.00434	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2-Dibromo-3-Chloropropane	ND		0.00999	0.00424	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Dibromochloromethane	ND		0.00499	0.00331	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2-Dibromoethane (EDB)	ND		0.00499	0.00359	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Dibromomethane	ND		0.00499	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2-Dichlorobenzene	ND		0.00499	0.00463	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,3-Dichlorobenzene	ND		0.00499	0.00401	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,4-Dichlorobenzene	ND		0.00499	0.00473	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00999	0.00268	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,1-Dichloroethane	ND		0.00499	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2-Dichloroethane	ND		0.00499	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,1-Dichloroethene	ND		0.00499	0.00306	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
cis-1,2-Dichloroethene	ND		0.00499	0.00289	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
trans-1,2-Dichloroethene	ND		0.00499	0.00311	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2-Dichloropropane	ND		0.00499	0.00331	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,3-Dichloropropane	ND		0.00499	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
2,2-Dichloropropane	ND		0.00499	0.00345	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,1-Dichloropropene	ND		0.00499	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
cis-1,3-Dichloropropene	ND		0.00499	0.00326	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
trans-1,3-Dichloropropene	ND		0.00499	0.00380	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Ethylbenzene	ND		0.00499	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Hexachlorobutadiene	ND		0.00999	0.00502	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
2-Hexanone (MBK)	ND		0.00999	0.00294	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Isopropylbenzene	ND		0.00499	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
4-Isopropyltoluene	ND		0.00499	0.00490	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Methyl tert-butyl ether	ND		0.00499	0.00288	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
4-Methyl-2-pentanone (MIBK)	ND		0.00999	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Methylene Chloride	ND		0.00999	0.00268	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Naphthalene	ND		0.00499	0.00451	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1

Client Sample ID: 2023-MW-09-1012' **Lab Sample ID: 620-10149-30**
Date Collected: 03/06/23 13:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00499	0.00423	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Styrene	ND		0.00499	0.00387	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,1,1,2-Tetrachloroethane	ND		0.00499	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,1,2,2-Tetrachloroethane	ND		0.00499	0.00457	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Tetrachloroethene	ND		0.00499	0.00278	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Toluene	ND		0.00499	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2,3-Trichlorobenzene	ND		0.00499	0.00422	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2,4-Trichlorobenzene	ND		0.00499	0.00460	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,3,5-Trichlorobenzene	ND		0.00499	0.00474	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,1,1-Trichloroethane	ND		0.00499	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,1,2-Trichloroethane	ND		0.00499	0.00377	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Trichloroethene	ND		0.00499	0.00336	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Trichlorofluoromethane (Freon 11)	ND		0.00499	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2,3-Trichloropropane	ND		0.00499	0.00443	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,2,4-Trimethylbenzene	ND		0.00499	0.00423	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,3,5-Trimethylbenzene	ND		0.00499	0.00425	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Vinyl chloride	ND		0.00499	0.00305	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
m,p-Xylene	ND		0.00499	0.00682	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
o-Xylene	ND		0.00499	0.00365	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Tetrahydrofuran	ND		0.00999	0.00253	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Ethyl ether	ND		0.00499	0.00263	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Tert-amyl methyl ether	ND		0.00499	0.00395	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Ethyl tert-butyl ether	ND		0.00499	0.00329	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
di-Isopropyl ether	ND		0.00499	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
tert-Butanol	ND		0.0999	0.0268	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,4-Dioxane	ND		0.0999	0.0311	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Ethanol	ND		0.999	0.0619	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
1,3-Dichloropropene, Total	ND		0.00499	0.00380	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1
Xylenes, Total	ND		0.0150	0.00499	mg/Kg	☼	03/15/23 12:58	03/15/23 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:42*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:42*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/15/23 12:58*	*03/15/23 20:42*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.395	0.0703	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
1,2,4-Trichlorobenzene	ND		0.395	0.0905	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
1,2-Dichlorobenzene	ND		0.395	0.0762	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
1,3-Dichlorobenzene	ND		0.395	0.0957	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
1,4-Dichlorobenzene	ND		0.395	0.0931	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
1-Methylnaphthalene	ND		0.0799	0.0671	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2,4,5-Trichlorophenol	ND		0.395	0.0453	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2,4,6-Trichlorophenol	ND		0.200	0.0489	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2,4-Dichlorophenol	ND		0.200	0.0796	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2,4-Dimethylphenol	ND		0.395	0.0580	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2,4-Dinitrophenol	ND		0.395	0.104	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-1012'
Date Collected: 03/06/23 13:25
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-30
Matrix: Solid
Percent Solids: 80.8

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.200	0.0468	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2,6-Dinitrotoluene	ND		0.200	0.0468	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2-Chloronaphthalene	ND		0.395	0.0914	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2-Chlorophenol	ND		0.200	0.0818	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2-Methylnaphthalene	ND		0.0799	0.0590	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2-Methylphenol	ND		0.395	0.0577	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2-Nitroaniline	ND		0.395	0.0376	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
2-Nitrophenol	ND		0.200	0.0710	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
3 & 4 Methylphenol	ND		0.395	0.0749	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
3,3'-Dichlorobenzidine	ND		0.395	0.0653	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
3-Nitroaniline	ND		0.395	0.0353	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
4,6-Dinitro-2-methylphenol	ND		0.395	0.0710	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
4-Bromophenyl phenyl ether	ND		0.395	0.0447	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
4-Chloro-3-methylphenol	ND		0.395	0.0774	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
4-Chloroaniline	ND		0.200	0.0303	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
4-Chlorophenyl phenyl ether	ND		0.395	0.0423	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
4-Nitroaniline	ND		0.200	0.0631	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
4-Nitrophenol	ND		0.395	0.138	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Acenaphthene	ND		0.0799	0.0637	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Acenaphthylene	ND		0.0799	0.0525	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Acetophenone	ND		0.200	0.0487	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Aniline	ND		0.395	0.0303	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Anthracene	ND		0.0799	0.0462	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Azobenzene/Diphenyldiazene	ND		0.395	0.0674	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzidine	ND	*1	0.790	0.117	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzo[a]anthracene	ND		0.0799	0.0449	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzo[a]pyrene	ND		0.0799	0.0571	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzo[b]fluoranthene	ND		0.0799	0.0662	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzo[g,h,i]perylene	ND		0.0799	0.0624	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzo[k]fluoranthene	ND		0.0799	0.0622	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzoic acid	ND	*- *1	0.395	0.272	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Benzyl alcohol	ND		0.395	0.0716	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Bis(2-chloroethoxy)methane	ND		0.395	0.0687	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Bis(2-chloroethyl)ether	ND		0.200	0.0654	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
bis (2-chloroisopropyl) ether	ND		0.200	0.0890	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Bis(2-ethylhexyl) phthalate	ND	*1	0.200	0.0509	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Butyl benzyl phthalate	ND		0.395	0.0396	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Carbazole	ND		0.200	0.0523	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Chrysene	ND		0.0799	0.0452	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Dibenz(a,h)anthracene	ND		0.0799	0.0610	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Dibenzofuran	ND		0.200	0.0692	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Diethyl phthalate	ND		0.395	0.0434	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Dimethyl phthalate	ND		0.395	0.0515	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Di-n-butyl phthalate	ND		0.395	0.0423	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Di-n-octyl phthalate	ND		0.395	0.0653	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Fluoranthene	ND		0.0799	0.0468	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Fluorene	ND		0.0799	0.0729	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Hexachlorobenzene	ND		0.200	0.0555	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Hexachlorobutadiene	ND		0.200	0.0998	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1

Client Sample ID: 2023-MW-09-1012' Lab Sample ID: 620-10149-30

Date Collected: 03/06/23 13:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.200	0.0764	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Hexachloroethane	ND		0.200	0.0786	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Indeno[1,2,3-cd]pyrene	ND		0.0799	0.0678	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Isophorone	ND		0.200	0.0547	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Naphthalene	ND		0.0799	0.0767	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Nitrobenzene	ND		0.200	0.0923	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
N-Nitrosodimethylamine	ND		0.200	0.0525	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
N-Nitrosodi-n-propylamine	ND		0.200	0.0796	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
N-Nitrosodiphenylamine	ND		0.395	0.0504	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Pentachloronitrobenzene	ND		0.395	0.0624	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Pentachlorophenol	ND		0.395	0.162	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Phenanthrene	ND		0.0799	0.0453	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Phenol	ND		0.395	0.0814	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Pyrene	ND		0.0799	0.0441	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1
Pyridine	ND		0.395	0.0935	mg/Kg	☼	03/20/23 14:14	03/22/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/20/23 14:14*	*03/22/23 18:18*	*1*
2-Fluorophenol (Surr)	*85*		*15 - 110*	*03/20/23 14:14*	*03/22/23 18:18*	*1*
Nitrobenzene-d5 (Surr)	*84*		*30 - 130*	*03/20/23 14:14*	*03/22/23 18:18*	*1*
Phenol-d5 (Surr)	*85*		*15 - 110*	*03/20/23 14:14*	*03/22/23 18:18*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*15 - 110*	*03/20/23 14:14*	*03/22/23 18:18*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/20/23 14:14*	*03/22/23 18:18*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.299	0.153	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.299	0.128	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0598	0.0120	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
Ethylbenzene	ND		0.0598	0.0120	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
Methyl tert-butyl ether	ND		0.0598	0.0120	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
m,p-Xylene	ND		0.120	0.0120	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
Naphthalene	ND		0.0598	0.0407	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
o-Xylene	ND		0.0598	0.0120	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
Toluene	ND		0.0598	0.0120	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
C5-C8 Aliphatics (unadjusted)	ND		0.299	0.153	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
C9-C10 Aromatics	ND		0.299	0.0419	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1
C9-C12 Aliphatics (unadjusted)	ND		0.299	0.128	mg/Kg	☼	03/13/23 07:46	03/14/23 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*	*03/13/23 07:46*	*03/14/23 01:00*	*1*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*	*03/13/23 07:46*	*03/14/23 01:00*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0242	0.0174	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1
PCB-1221	ND		0.0242	0.00714	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1
PCB-1232	ND		0.0242	0.00669	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1

Client Sample ID: 2023-MW-09-1012'
Lab Sample ID: 620-10149-30
Date Collected: 03/06/23 13:25
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 80.8

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0242	0.00382	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1
PCB-1248	ND		0.0242	0.00755	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1
PCB-1254	ND		0.0242	0.0188	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1
PCB-1262	ND		0.0242	0.00563	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1
PCB-1260	ND		0.0242	0.00519	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1
PCB-1268	ND		0.0242	0.00515	mg/Kg	☼	03/10/23 15:43	03/14/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:42*	*1*
Tetrachloro-m-xylene	*101*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:42*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:42*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluoroheptanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorooctanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorononanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorodecanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorotridecanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorotetradecanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorobutanesulfonic acid	ND		2.25	0.450	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorohexanesulfonic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorooctanesulfonic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
NEtFOSAA	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
NMeFOSAA	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
10:2 FTS	ND		2.25	0.675	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluoropentanesulfonic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluoroheptanesulfonic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorononanesulfonic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorodecanesulfonic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorooctanesulfonamide	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorohexadecanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorooctadecanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorobutanoic acid	ND		2.25	0.900	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluoropentanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
NMeFOSE	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
NMeFOSA	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
NEtFOSE	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
NEtFOSA	ND		2.25	0.563	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
HFPODA	ND		2.25	1.13	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
DONA	ND		3.38	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
9Cl-PF3ONS	ND		2.25	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
11Cl-PF3OUdS	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluorododecanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
4:2 Fluorotelomer sulfonic acid	ND		2.25	0.675	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
Perfluoroundecanoic acid	ND		0.675	0.225	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1

Client Sample ID: 2023-MW-09-1012' **Lab Sample ID: 620-10149-30**
Date Collected: 03/06/23 13:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.25	0.675	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1
8:2 Fluorotelomer sulfonic acid	ND		3.38	0.675	ug/Kg	☼	03/13/23 07:31	03/22/23 23:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
M2-8:2 FTS	*70*		*15 - 200*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
M2-6:2 FTS	*77*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C5 PFHxA	*87*		*10 - 174*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C4 PFHpA	*88*		*10 - 178*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C8 PFOA	*87*		*26 - 159*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C9 PFNA	*88*		*26 - 165*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C6 PFDA	*84*		*26 - 161*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C2-PFDoDA	*81*		*11 - 166*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C2 PFTeDA	*78*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C3 PFBS	*79*		*27 - 179*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C3 PFHxS	*86*		*24 - 171*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C8 PFOS	*88*		*41 - 154*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
d3-NMeFOSAA	*34*		*10 - 178*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
d5-NEtFOSAA	*39*		*10 - 193*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C8 FOSA	*78*		*14 - 163*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C4 PFBA	*84*		*28 - 153*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C5 PFPeA	*86*		*24 - 161*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
d7-N-MeFOSE-M	*82*		*10 - 179*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
d3-NMePFOSA	*79*		*10 - 175*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
d9-N-EtFOSE-M	*77*		*10 - 185*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
d5-NEtPFOSA	*80*		*10 - 180*	*03/13/23 07:31*	*03/22/23 23:36*	*1*
13C3 HFPO-DA	*78*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:36*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.68	1.93	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Arsenic	**5.07**		3.41	1.59	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Barium	**42.6**		0.568	0.170	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Beryllium	**0.519**	**J**	0.568	0.114	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Cadmium	ND		0.568	0.114	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Chromium	**12.1**		1.70	0.397	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Lead	**4.77**		1.70	0.681	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Nickel	**5.52**		1.14	0.295	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Selenium	ND		5.68	1.70	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Silver	ND		1.14	0.454	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Thallium	ND		34.1	14.8	mg/Kg	☼	03/14/23 09:00	03/15/23 22:36	10
Vanadium	**18.4**		1.14	0.488	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1
Zinc	**26.7**		2.27	0.908	mg/Kg	☼	03/14/23 09:00	03/15/23 22:32	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0743	0.0248	mg/Kg	☼	03/14/23 07:49	03/14/23 13:33	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-09-1012'
Date Collected: 03/06/23 13:25
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-30
Matrix: Solid
Percent Solids: 80.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	19.2		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	80.8		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-FD-08
Date Collected: 03/06/23 08:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-31
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00525	0.00342	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Acetone	ND		0.0525	0.0118	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Acrylonitrile	ND		0.00525	0.00315	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Benzene	ND		0.00525	0.00351	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Bromobenzene	ND		0.00525	0.00350	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Bromochloromethane	ND		0.00525	0.00298	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Bromodichloromethane	ND		0.00525	0.00385	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Bromoform	ND		0.00525	0.00401	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Bromomethane	ND		0.0105	0.00654	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
2-Butanone (MEK)	ND		0.0105	0.00418	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
n-Butylbenzene	ND		0.0105	0.00563	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
sec-Butylbenzene	ND		0.00525	0.00423	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
tert-Butylbenzene	ND		0.00525	0.00414	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Carbon disulfide	ND		0.0105	0.00369	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Carbon tetrachloride	ND		0.00525	0.00331	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Chlorobenzene	ND		0.00525	0.00384	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Chloroethane	ND		0.0105	0.00385	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Chloroform	ND		0.00525	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Chloromethane	ND		0.0105	0.00403	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
2-Chlorotoluene	ND		0.00525	0.00418	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
4-Chlorotoluene	ND		0.00525	0.00456	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2-Dibromo-3-Chloropropane	ND		0.0105	0.00445	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Dibromochloromethane	ND		0.00525	0.00348	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2-Dibromoethane (EDB)	ND		0.00525	0.00377	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Dibromomethane	ND		0.00525	0.00309	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2-Dichlorobenzene	ND		0.00525	0.00487	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,3-Dichlorobenzene	ND		0.00525	0.00421	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,4-Dichlorobenzene	ND		0.00525	0.00498	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0105	0.00281	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,1-Dichloroethane	ND		0.00525	0.00356	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2-Dichloroethane	ND		0.00525	0.00354	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,1-Dichloroethene	ND		0.00525	0.00321	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
cis-1,2-Dichloroethene	ND		0.00525	0.00303	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
trans-1,2-Dichloroethene	ND		0.00525	0.00327	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2-Dichloropropane	ND		0.00525	0.00348	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,3-Dichloropropane	ND		0.00525	0.00401	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
2,2-Dichloropropane	ND		0.00525	0.00362	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,1-Dichloropropene	ND		0.00525	0.00357	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
cis-1,3-Dichloropropene	ND		0.00525	0.00342	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
trans-1,3-Dichloropropene	ND		0.00525	0.00399	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Ethylbenzene	ND		0.00525	0.00375	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Hexachlorobutadiene	ND		0.0105	0.00528	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
2-Hexanone (MBK)	ND		0.0105	0.00309	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Isopropylbenzene	ND		0.00525	0.00397	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
4-Isopropyltoluene	ND		0.00525	0.00516	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Methyl tert-butyl ether	ND		0.00525	0.00302	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
4-Methyl-2-pentanone (MIBK)	ND		0.0105	0.00339	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Methylene Chloride	ND		0.0105	0.00281	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Naphthalene	ND		0.00525	0.00475	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1

Client Sample ID: 2023-FD-08 **Lab Sample ID: 620-10149-31**
Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Styrene	ND		0.00525	0.00406	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,1,1,2-Tetrachloroethane	ND		0.00525	0.00394	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,1,2,2-Tetrachloroethane	ND		0.00525	0.00481	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Tetrachloroethene	ND		0.00525	0.00292	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Toluene	ND		0.00525	0.00333	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2,3-Trichlorobenzene	ND		0.00525	0.00443	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2,4-Trichlorobenzene	ND		0.00525	0.00484	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,3,5-Trichlorobenzene	ND		0.00525	0.00499	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,1,1-Trichloroethane	ND		0.00525	0.00358	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,1,2-Trichloroethane	ND		0.00525	0.00396	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Trichloroethene	ND		0.00525	0.00353	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Trichlorofluoromethane (Freon 11)	ND		0.00525	0.00401	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2,3-Trichloropropane	ND		0.00525	0.00466	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,2,4-Trimethylbenzene	ND		0.00525	0.00444	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,3,5-Trimethylbenzene	ND		0.00525	0.00446	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Vinyl chloride	ND		0.00525	0.00320	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
m,p-Xylene	ND		0.00525	0.00717	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
o-Xylene	ND		0.00525	0.00383	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Tetrahydrofuran	ND		0.0105	0.00266	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Ethyl ether	ND		0.00525	0.00276	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Tert-amyl methyl ether	ND		0.00525	0.00415	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Ethyl tert-butyl ether	ND		0.00525	0.00345	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
di-Isopropyl ether	ND		0.00525	0.00375	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
tert-Butanol	ND		0.105	0.0281	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,4-Dioxane	ND		0.105	0.0327	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
trans-1,4-Dichloro-2-butene	ND		0.0263	0.00387	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Ethanol	ND		1.05	0.0651	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
1,3-Dichloropropene, Total	ND		0.00525	0.00399	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1
Xylenes, Total	ND		0.0158	0.00525	mg/Kg	☼	03/16/23 16:25	03/16/23 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:59*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:59*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/16/23 16:25*	*03/16/23 22:59*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.366	0.0651	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
1,2,4-Trichlorobenzene	ND		0.366	0.0839	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
1,2-Dichlorobenzene	ND		0.366	0.0706	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
1,3-Dichlorobenzene	ND		0.366	0.0886	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
1,4-Dichlorobenzene	ND		0.366	0.0862	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
1-Methylnaphthalene	ND		0.0740	0.0621	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2,4,5-Trichlorophenol	ND		0.366	0.0419	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2,4,6-Trichlorophenol	ND		0.185	0.0453	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2,4-Dichlorophenol	ND		0.185	0.0738	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2,4-Dimethylphenol	ND		0.366	0.0537	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2,4-Dinitrophenol	ND		0.366	0.0963	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-FD-08
Date Collected: 03/06/23 08:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-31
Matrix: Solid
Percent Solids: 89.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.185	0.0434	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2,6-Dinitrotoluene	ND		0.185	0.0434	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2-Chloronaphthalene	ND		0.366	0.0846	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2-Chlorophenol	ND		0.185	0.0758	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2-Methylnaphthalene	ND		0.0740	0.0547	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2-Methylphenol	ND		0.366	0.0535	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2-Nitroaniline	ND		0.366	0.0348	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
2-Nitrophenol	ND		0.185	0.0658	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
3 & 4 Methylphenol	ND		0.366	0.0693	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
3,3'-Dichlorobenzidine	ND		0.366	0.0605	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
3-Nitroaniline	ND		0.366	0.0327	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
4,6-Dinitro-2-methylphenol	ND		0.366	0.0658	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
4-Bromophenyl phenyl ether	ND		0.366	0.0414	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
4-Chloro-3-methylphenol	ND		0.366	0.0717	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
4-Chloroaniline	ND		0.185	0.0281	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
4-Chlorophenyl phenyl ether	ND		0.366	0.0392	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
4-Nitroaniline	ND		0.185	0.0585	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
4-Nitrophenol	ND		0.366	0.128	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Acenaphthene	ND		0.0740	0.0590	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Acenaphthylene	ND		0.0740	0.0486	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Acetophenone	ND		0.185	0.0451	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Aniline	ND		0.366	0.0281	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Anthracene	ND		0.0740	0.0428	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Azobenzene/Diphenyldiazene	ND		0.366	0.0625	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzidine	ND	*1	0.732	0.108	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzo[a]anthracene	ND		0.0740	0.0416	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzo[a]pyrene	ND		0.0740	0.0529	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzo[b]fluoranthene	ND		0.0740	0.0613	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzo[g,h,i]perylene	ND		0.0740	0.0578	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzo[k]fluoranthene	ND		0.0740	0.0576	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzoic acid	ND	*- *1	0.366	0.252	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Benzyl alcohol	ND		0.366	0.0663	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Bis(2-chloroethoxy)methane	ND		0.366	0.0637	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Bis(2-chloroethyl)ether	ND		0.185	0.0606	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
bis (2-chloroisopropyl) ether	ND		0.185	0.0824	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Bis(2-ethylhexyl) phthalate	**0.171**	**J *1**	0.185	0.0471	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Butyl benzyl phthalate	ND		0.366	0.0367	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Carbazole	ND		0.185	0.0485	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Chrysene	ND		0.0740	0.0418	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Dibenz(a,h)anthracene	ND		0.0740	0.0565	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Dibenzofuran	ND		0.185	0.0641	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Diethyl phthalate	ND		0.366	0.0402	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Dimethyl phthalate	ND		0.366	0.0477	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Di-n-butyl phthalate	ND		0.366	0.0392	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Di-n-octyl phthalate	ND		0.366	0.0605	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Fluoranthene	ND		0.0740	0.0434	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Fluorene	ND		0.0740	0.0676	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Hexachlorobenzene	ND		0.185	0.0514	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Hexachlorobutadiene	ND		0.185	0.0924	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1

Client Sample ID: 2023-FD-08 **Lab Sample ID: 620-10149-31**
Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.185	0.0708	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Hexachloroethane	ND		0.185	0.0728	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0740	0.0628	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Isophorone	ND		0.185	0.0507	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Naphthalene	ND		0.0740	0.0710	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Nitrobenzene	ND		0.185	0.0855	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
N-Nitrosodimethylamine	ND		0.185	0.0486	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
N-Nitrosodi-n-propylamine	ND		0.185	0.0738	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
N-Nitrosodiphenylamine	ND		0.366	0.0467	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Pentachloronitrobenzene	ND		0.366	0.0578	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Pentachlorophenol	ND		0.366	0.150	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Phenanthrene	ND		0.0740	0.0419	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Phenol	ND		0.366	0.0754	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Pyrene	ND		0.0740	0.0408	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1
Pyridine	ND		0.366	0.0866	mg/Kg	☼	03/20/23 14:14	03/22/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*	*03/20/23 14:14*	*03/22/23 18:46*	*1*
2-Fluorophenol (Surr)	*72*		*15 - 110*	*03/20/23 14:14*	*03/22/23 18:46*	*1*
Nitrobenzene-d5 (Surr)	*59*		*30 - 130*	*03/20/23 14:14*	*03/22/23 18:46*	*1*
Phenol-d5 (Surr)	*70*		*15 - 110*	*03/20/23 14:14*	*03/22/23 18:46*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*	*03/20/23 14:14*	*03/22/23 18:46*	*1*
Terphenyl-d14	*81*		*30 - 130*	*03/20/23 14:14*	*03/22/23 18:46*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.306	0.157	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.306	0.131	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0613	0.0123	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
Ethylbenzene	ND		0.0613	0.0123	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
Methyl tert-butyl ether	ND		0.0613	0.0123	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
m,p-Xylene	ND		0.123	0.0123	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
Naphthalene	ND		0.0613	0.0417	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
o-Xylene	ND		0.0613	0.0123	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
Toluene	ND		0.0613	0.0123	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
C5-C8 Aliphatics (unadjusted)	ND		0.306	0.157	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
C9-C10 Aromatics	ND		0.306	0.0429	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1
C9-C12 Aliphatics (unadjusted)	ND		0.306	0.131	mg/Kg	☼	03/13/23 07:46	03/14/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/13/23 07:46*	*03/14/23 01:39*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/13/23 07:46*	*03/14/23 01:39*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0221	0.0159	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1
PCB-1221	ND		0.0221	0.00653	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1
PCB-1232	ND		0.0221	0.00612	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1

Client Sample ID: 2023-FD-08 **Lab Sample ID: 620-10149-31**
Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0221	0.00349	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1
PCB-1248	ND		0.0221	0.00691	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1
PCB-1254	**0.0320**		0.0221	0.0172	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1
PCB-1262	ND		0.0221	0.00515	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1
PCB-1260	ND		0.0221	0.00475	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1
PCB-1268	ND		0.0221	0.00471	mg/Kg	☼	03/10/23 15:43	03/13/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*30 - 150*	*03/10/23 15:43*	*03/13/23 20:52*	*1*
Tetrachloro-m-xylene	*94*		*30 - 150*	*03/10/23 15:43*	*03/13/23 20:52*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*	*03/10/23 15:43*	*03/13/23 20:52*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*30 - 150*	*03/10/23 15:43*	*03/13/23 20:52*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluoroheptanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorooctanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorononanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorodecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorotridecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorotetradecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorobutanesulfonic acid	ND		2.15	0.430	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorohexanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorooctanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
NEtFOSAA	ND		2.15	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
NMeFOSAA	ND		2.15	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
10:2 FTS	ND		2.15	0.645	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluoropentanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluoroheptanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorononanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorodecanesulfonic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.15	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorooctanesulfonamide	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorohexadecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorooctadecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorobutanoic acid	ND		2.15	0.860	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluoropentanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
NMeFOSE	ND		2.15	0.538	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
NMeFOSA	ND		2.15	0.538	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
NEtFOSE	ND		2.15	0.538	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
NEtFOSA	ND		2.15	0.538	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
HFPODA	ND		2.15	1.08	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
DONA	ND		3.23	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
9Cl-PF3ONS	ND		2.15	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
11Cl-PF3OUdS	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluorododecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
4:2 Fluorotelomer sulfonic acid	ND		2.15	0.645	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
Perfluoroundecanoic acid	ND		0.645	0.215	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1

Client Sample ID: 2023-FD-08 **Lab Sample ID: 620-10149-31**
Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.15	0.645	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1
8:2 Fluorotelomer sulfonic acid	ND		3.23	0.645	ug/Kg	☼	03/25/23 19:20	03/30/23 18:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*46*		*10 - 200*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
M2-8:2 FTS	*44*		*15 - 200*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
M2-6:2 FTS	*43*		*10 - 200*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C5 PFHxA	*46*		*10 - 174*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C4 PFHpA	*47*		*10 - 178*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C8 PFOA	*46*		*26 - 159*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C9 PFNA	*51*		*26 - 165*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C6 PFDA	*45*		*26 - 161*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C7 PFUnA	*42*		*12 - 173*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C2-PFDoDA	*47*		*11 - 166*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C2 PFTeDA	*45*		*10 - 169*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C3 PFBS	*66*		*27 - 179*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C3 PFHxS	*69*		*24 - 171*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C8 PFOS	*70*		*41 - 154*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
d3-NMeFOSAA	*7*	**5-*	*10 - 178*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
d5-NEtFOSAA	*9*	**5-*	*10 - 193*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C8 FOSA	*112*		*14 - 163*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C4 PFBA	*42*		*28 - 153*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C5 PFPeA	*42*		*24 - 161*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
d7-N-MeFOSE-M	*112*		*10 - 179*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
d3-NMePFOSA	*107*		*10 - 175*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
d9-N-EtFOSE-M	*112*		*10 - 185*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
d5-NEtPFOSA	*104*		*10 - 180*	*03/25/23 19:20*	*03/30/23 18:53*	*1*
13C3 HFPO-DA	*53*		*10 - 169*	*03/25/23 19:20*	*03/30/23 18:53*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluoroheptanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorooctanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorononanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorodecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorotridecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorotetradecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorobutanesulfonic acid	ND		2.13	0.426	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorohexanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorooctanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
NEtFOSAA	ND		2.13	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
NMeFOSAA	ND		2.13	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
10:2 FTS	ND		2.13	0.639	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluoropentanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluoroheptanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorononanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorodecanesulfonic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.13	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorooctanesulfonamide	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1

Client Sample ID: 2023-FD-08 **Lab Sample ID: 620-10149-31**
Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorooctadecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorobutanoic acid	ND		2.13	0.852	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluoropentanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
NMeFOSE	ND		2.13	0.533	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
NMeFOSA	ND		2.13	0.533	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
NEtFOSE	ND		2.13	0.533	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
NEtFOSA	ND		2.13	0.533	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
HFPODA	ND		2.13	1.07	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
DONA	ND		3.20	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
9Cl-PF3ONS	ND		2.13	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
11Cl-PF3OUdS	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluorododecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
4:2 Fluorotelomer sulfonic acid	ND		2.13	0.639	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
Perfluoroundecanoic acid	ND		0.639	0.213	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
6:2 Fluorotelomer sulfonic acid	ND		2.13	0.639	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1
8:2 Fluorotelomer sulfonic acid	ND		3.20	0.639	ug/Kg	☼	03/13/23 07:31	03/22/23 23:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*15*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
M2-8:2 FTS	*17*		*15 - 200*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
M2-6:2 FTS	*16*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C5 PFHxA	*16*		*10 - 174*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C4 PFHpA	*17*		*10 - 178*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C8 PFOA	*17*	**5-*	*26 - 159*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C9 PFNA	*18*	**5-*	*26 - 165*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C6 PFDA	*18*	**5-*	*26 - 161*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C7 PFUnA	*18*		*12 - 173*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C2-PFDoDA	*17*		*11 - 166*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C2 PFTeDA	*19*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C3 PFBS	*25*	**5-*	*27 - 179*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C3 PFHxS	*26*		*24 - 171*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C8 PFOS	*28*	**5-*	*41 - 154*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
d3-NMeFOSAA	*4*	**5-*	*10 - 178*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
d5-NEtFOSAA	*5*	**5-*	*10 - 193*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C8 FOSA	*81*		*14 - 163*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C4 PFBA	*16*	**5-*	*28 - 153*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C5 PFPeA	*16*	**5-*	*24 - 161*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
d7-N-MeFOSE-M	*80*		*10 - 179*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
d3-NMePFOSA	*74*		*10 - 175*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
d9-N-EtFOSE-M	*77*		*10 - 185*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
d5-NEtPFOSA	*70*		*10 - 180*	*03/13/23 07:31*	*03/22/23 23:47*	*1*
13C3 HFPO-DA	*20*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:47*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.04	1.71	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Arsenic	**2.77**	**J**	3.02	1.41	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Barium	**12.6**		0.504	0.151	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Beryllium	**0.491**	**J**	0.504	0.101	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1

Client Sample ID: 2023-FD-08 Lab Sample ID: 620-10149-31

Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.504	0.101	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Chromium	**8.40**		1.51	0.353	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Lead	**8.56**		1.51	0.604	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Nickel	**2.95**		1.01	0.262	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Selenium	ND		5.04	1.51	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Silver	ND		1.01	0.403	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Thallium	ND		3.02	1.31	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Vanadium	**8.76**		1.01	0.433	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1
Zinc	**17.5**		2.01	0.806	mg/Kg	☼	03/14/23 09:00	03/15/23 23:37	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0385**	**J**	0.0629	0.0210	mg/Kg	☼	03/14/23 11:01	03/14/23 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.6**		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	**89.4**		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-FD-09
Date Collected: 03/06/23 08:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-32
Matrix: Solid
Percent Solids: 83.4

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00475	0.00310	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Acetone	ND		0.0475	0.0107	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Acrylonitrile	ND		0.00475	0.00285	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Benzene	ND		0.00475	0.00318	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Bromobenzene	ND		0.00475	0.00317	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Bromochloromethane	ND		0.00475	0.00270	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Bromodichloromethane	ND		0.00475	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Bromoform	ND		0.00475	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Bromomethane	ND		0.00951	0.00592	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
2-Butanone (MEK)	ND		0.00951	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
n-Butylbenzene	ND		0.00951	0.00510	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
sec-Butylbenzene	ND		0.00475	0.00383	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
tert-Butylbenzene	ND		0.00475	0.00375	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Carbon disulfide	ND		0.00951	0.00334	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Carbon tetrachloride	ND		0.00475	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Chlorobenzene	ND		0.00475	0.00348	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Chloroethane	ND		0.00951	0.00349	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Chloroform	ND		0.00475	0.00320	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Chloromethane	ND		0.00951	0.00365	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
2-Chlorotoluene	ND		0.00475	0.00378	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
4-Chlorotoluene	ND		0.00475	0.00413	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2-Dibromo-3-Chloropropane	ND		0.00951	0.00403	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Dibromochloromethane	ND		0.00475	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2-Dibromoethane (EDB)	ND		0.00475	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Dibromomethane	ND		0.00475	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2-Dichlorobenzene	ND		0.00475	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,3-Dichlorobenzene	ND		0.00475	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,4-Dichlorobenzene	ND		0.00475	0.00451	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00951	0.00255	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,1-Dichloroethane	ND		0.00475	0.00322	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2-Dichloroethane	ND		0.00475	0.00320	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,1-Dichloroethene	ND		0.00475	0.00291	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
cis-1,2-Dichloroethene	ND		0.00475	0.00275	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
trans-1,2-Dichloroethene	ND		0.00475	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2-Dichloropropane	ND		0.00475	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,3-Dichloropropane	ND		0.00475	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
2,2-Dichloropropane	ND		0.00475	0.00328	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,1-Dichloropropene	ND		0.00475	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
cis-1,3-Dichloropropene	ND		0.00475	0.00310	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
trans-1,3-Dichloropropene	ND		0.00475	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Ethylbenzene	ND		0.00475	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Hexachlorobutadiene	ND		0.00951	0.00478	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
2-Hexanone (MBK)	ND		0.00951	0.00280	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Isopropylbenzene	ND		0.00475	0.00359	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
4-Isopropyltoluene	ND		0.00475	0.00467	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Methyl tert-butyl ether	ND		0.00475	0.00274	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
4-Methyl-2-pentanone (MIBK)	ND		0.00951	0.00307	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Methylene Chloride	ND		0.00951	0.00255	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Naphthalene	ND		0.00475	0.00430	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1

Client Sample ID: 2023-FD-09 **Lab Sample ID: 620-10149-32**
Date Collected: 03/06/23 08:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.4**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00475	0.00402	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Styrene	ND		0.00475	0.00368	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,1,1,2-Tetrachloroethane	ND		0.00475	0.00357	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,1,2,2-Tetrachloroethane	ND		0.00475	0.00436	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Tetrachloroethene	ND		0.00475	0.00264	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Toluene	ND		0.00475	0.00301	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2,3-Trichlorobenzene	ND		0.00475	0.00401	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2,4-Trichlorobenzene	ND		0.00475	0.00438	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,3,5-Trichlorobenzene	ND		0.00475	0.00452	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,1,1-Trichloroethane	ND		0.00475	0.00324	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,1,2-Trichloroethane	ND		0.00475	0.00359	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Trichloroethene	ND		0.00475	0.00320	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Trichlorofluoromethane (Freon 11)	ND		0.00475	0.00363	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2,3-Trichloropropane	ND		0.00475	0.00422	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,2,4-Trimethylbenzene	ND		0.00475	0.00402	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,3,5-Trimethylbenzene	ND		0.00475	0.00404	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Vinyl chloride	ND		0.00475	0.00290	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
m,p-Xylene	ND		0.00475	0.00650	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
o-Xylene	ND		0.00475	0.00347	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Tetrahydrofuran	ND		0.00951	0.00241	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Ethyl ether	ND		0.00475	0.00250	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Tert-amyl methyl ether	ND		0.00475	0.00376	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Ethyl tert-butyl ether	ND		0.00475	0.00313	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
di-Isopropyl ether	ND		0.00475	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
tert-Butanol	ND		0.0951	0.0255	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,4-Dioxane	ND		0.0951	0.0296	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
trans-1,4-Dichloro-2-butene	ND		0.0238	0.00351	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Ethanol	ND		0.951	0.0590	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
1,3-Dichloropropene, Total	ND		0.00475	0.00361	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1
Xylenes, Total	ND		0.0143	0.00475	mg/Kg	☼	03/15/23 12:58	03/15/23 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/15/23 12:58*	*03/15/23 21:34*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*03/15/23 12:58*	*03/15/23 21:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/15/23 12:58*	*03/15/23 21:34*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/15/23 12:58*	*03/15/23 21:34*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.391	0.0695	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
1,2,4-Trichlorobenzene	ND		0.391	0.0895	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
1,2-Dichlorobenzene	ND		0.391	0.0753	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
1,3-Dichlorobenzene	ND		0.391	0.0946	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
1,4-Dichlorobenzene	ND		0.391	0.0920	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
1-Methylnaphthalene	ND		0.0790	0.0663	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2,4,5-Trichlorophenol	ND		0.391	0.0447	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2,4,6-Trichlorophenol	ND		0.198	0.0483	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2,4-Dichlorophenol	ND		0.198	0.0787	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2,4-Dimethylphenol	ND		0.391	0.0573	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2,4-Dinitrophenol	ND		0.391	0.103	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-FD-09
Date Collected: 03/06/23 08:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-32
Matrix: Solid
Percent Solids: 83.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2,6-Dinitrotoluene	ND		0.198	0.0463	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2-Chloronaphthalene	ND		0.391	0.0903	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2-Chlorophenol	ND		0.198	0.0808	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2-Methylnaphthalene	ND		0.0790	0.0584	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2-Methylphenol	ND		0.391	0.0571	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2-Nitroaniline	ND		0.391	0.0372	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
2-Nitrophenol	ND		0.198	0.0702	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
3 & 4 Methylphenol	ND		0.391	0.0740	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
3,3'-Dichlorobenzidine	ND		0.391	0.0645	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
3-Nitroaniline	ND		0.391	0.0349	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
4,6-Dinitro-2-methylphenol	ND		0.391	0.0702	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
4-Bromophenyl phenyl ether	ND		0.391	0.0442	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
4-Chloro-3-methylphenol	ND		0.391	0.0765	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
4-Chloroaniline	ND		0.198	0.0299	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
4-Chlorophenyl phenyl ether	ND		0.391	0.0418	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
4-Nitroaniline	ND		0.198	0.0624	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
4-Nitrophenol	ND		0.391	0.136	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Acenaphthene	ND		0.0790	0.0630	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Acenaphthylene	**0.154**		0.0790	0.0518	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Acetophenone	ND		0.198	0.0482	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Aniline	ND		0.391	0.0299	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Anthracene	**0.0987**		0.0790	0.0457	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Azobenzene/Diphenyldiazene	ND		0.391	0.0666	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzidine	ND	*1	0.781	0.116	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzo[a]anthracene	**0.280**		0.0790	0.0444	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzo[a]pyrene	**0.283**		0.0790	0.0565	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzo[b]fluoranthene	**0.268**		0.0790	0.0655	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzo[g,h,i]perylene	**0.219**		0.0790	0.0617	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzo[k]fluoranthene	**0.195**		0.0790	0.0614	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzoic acid	ND	*- *1	0.391	0.269	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Benzyl alcohol	ND		0.391	0.0708	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Bis(2-chloroethoxy)methane	ND		0.391	0.0679	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Bis(2-chloroethyl)ether	ND		0.198	0.0646	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
bis (2-chloroisopropyl) ether	ND		0.198	0.0880	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Bis(2-ethylhexyl) phthalate	ND	*1	0.198	0.0503	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Butyl benzyl phthalate	ND		0.391	0.0392	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Carbazole	ND		0.198	0.0517	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Chrysene	**0.356**		0.0790	0.0446	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Dibenz(a,h)anthracene	**0.0841**		0.0790	0.0603	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Dibenzofuran	ND		0.198	0.0684	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Diethyl phthalate	ND		0.391	0.0429	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Dimethyl phthalate	ND		0.391	0.0509	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Di-n-butyl phthalate	ND		0.391	0.0418	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Di-n-octyl phthalate	ND		0.391	0.0645	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Fluoranthene	**0.417**		0.0790	0.0463	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Fluorene	ND		0.0790	0.0721	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Hexachlorobenzene	ND		0.198	0.0548	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Hexachlorobutadiene	ND		0.198	0.0986	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1

Client Sample ID: 2023-FD-09
Date Collected: 03/06/23 08:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-32
Matrix: Solid
Percent Solids: 83.4

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.198	0.0755	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Hexachloroethane	ND		0.198	0.0777	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Indeno[1,2,3-cd]pyrene	**0.190**		0.0790	0.0670	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Isophorone	ND		0.198	0.0541	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Naphthalene	ND		0.0790	0.0758	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Nitrobenzene	ND		0.198	0.0913	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
N-Nitrosodimethylamine	ND		0.198	0.0518	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
N-Nitrosodi-n-propylamine	ND		0.198	0.0787	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
N-Nitrosodiphenylamine	ND		0.391	0.0498	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Pentachloronitrobenzene	ND		0.391	0.0617	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Pentachlorophenol	ND		0.391	0.160	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Phenanthrene	**0.236**		0.0790	0.0447	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Phenol	ND		0.391	0.0805	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Pyrene	**0.731**		0.0790	0.0436	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1
Pyridine	ND		0.391	0.0924	mg/Kg	☼	03/20/23 14:14	03/22/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*	*03/20/23 14:14*	*03/22/23 19:14*	*1*
2-Fluorophenol (Surr)	*80*		*15 - 110*	*03/20/23 14:14*	*03/22/23 19:14*	*1*
Nitrobenzene-d5 (Surr)	*80*		*30 - 130*	*03/20/23 14:14*	*03/22/23 19:14*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/20/23 14:14*	*03/22/23 19:14*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*	*03/20/23 14:14*	*03/22/23 19:14*	*1*
Terphenyl-d14	*78*		*30 - 130*	*03/20/23 14:14*	*03/22/23 19:14*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.275	0.141	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.275	0.118	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0551	0.0110	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
Ethylbenzene	ND		0.0551	0.0110	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
Methyl tert-butyl ether	ND		0.0551	0.0110	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
m,p-Xylene	ND		0.110	0.0110	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
Naphthalene	ND		0.0551	0.0374	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
o-Xylene	ND		0.0551	0.0110	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
Toluene	ND		0.0551	0.0110	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
C5-C8 Aliphatics (unadjusted)	ND		0.275	0.141	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
C9-C10 Aromatics	ND		0.275	0.0385	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1
C9-C12 Aliphatics (unadjusted)	ND		0.275	0.118	mg/Kg	☼	03/13/23 07:46	03/14/23 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*97*		*70 - 130*	*03/13/23 07:46*	*03/14/23 02:18*	*1*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*	*03/13/23 07:46*	*03/14/23 02:18*	*1*

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1
PCB-1232	ND		0.0230	0.00638	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1

Client Sample ID: 2023-FD-09 **Lab Sample ID: 620-10149-32**
Date Collected: 03/06/23 08:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1
PCB-1248	ND		0.0230	0.00720	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1
PCB-1254	**0.0310**		0.0230	0.0179	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	03/10/23 15:43	03/13/23 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:42*	*1*
Tetrachloro-m-xylene	*93*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:42*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:42*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*	*03/10/23 15:43*	*03/13/23 23:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluoroheptanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorooctanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorononanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorodecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorotridecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorotetradecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorobutanesulfonic acid	ND		2.26	0.452	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorohexanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorooctanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
NEtFOSAA	ND		2.26	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
NMeFOSAA	ND		2.26	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
10:2 FTS	ND		2.26	0.679	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluoropentanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluoroheptanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorononanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorodecanesulfonic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.26	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorooctanesulfonamide	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorohexadecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorooctadecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorobutanoic acid	ND		2.26	0.905	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluoropentanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
NMeFOSE	ND		2.26	0.566	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
NMeFOSA	ND		2.26	0.566	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
NEtFOSE	ND		2.26	0.566	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
NEtFOSA	ND		2.26	0.566	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
HFPODA	ND		2.26	1.13	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
DONA	ND		3.39	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
9Cl-PF3ONS	ND		2.26	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
11Cl-PF3OUdS	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluorododecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
4:2 Fluorotelomer sulfonic acid	ND		2.26	0.679	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
Perfluoroundecanoic acid	ND		0.679	0.226	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1

Client Sample ID: 2023-FD-09 **Lab Sample ID: 620-10149-32**
Date Collected: 03/06/23 08:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.4**

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	ND		2.26	0.679	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1
8:2 Fluorotelomer sulfonic acid	ND		3.39	0.679	ug/Kg	☼	03/13/23 07:31	03/22/23 23:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*87*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
M2-8:2 FTS	*88*		*15 - 200*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
M2-6:2 FTS	*93*		*10 - 200*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C5 PFHxA	*95*		*10 - 174*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C4 PFHpA	*102*		*10 - 178*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C8 PFOA	*96*		*26 - 159*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C9 PFNA	*96*		*26 - 165*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C6 PFDA	*98*		*26 - 161*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C7 PFUnA	*92*		*12 - 173*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C2-PFDoDA	*86*		*11 - 166*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C2 PFTeDA	*93*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C3 PFBS	*91*		*27 - 179*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C3 PFHxS	*93*		*24 - 171*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C8 PFOS	*91*		*41 - 154*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
d3-NMeFOSAA	*64*		*10 - 178*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
d5-NEtFOSAA	*68*		*10 - 193*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C8 FOSA	*84*		*14 - 163*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C4 PFBA	*96*		*28 - 153*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C5 PFPeA	*99*		*24 - 161*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
d7-N-MeFOSE-M	*84*		*10 - 179*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
d3-NMePFOSA	*83*		*10 - 175*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
d9-N-EtFOSE-M	*82*		*10 - 185*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
d5-NEtPFOSA	*85*		*10 - 180*	*03/13/23 07:31*	*03/22/23 23:58*	*1*
13C3 HFPO-DA	*91*		*10 - 169*	*03/13/23 07:31*	*03/22/23 23:58*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		4.22	1.44	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Arsenic	**4.36**		2.53	1.18	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Barium	**23.0**		0.422	0.127	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Beryllium	**0.305**	**J**	0.422	0.0844	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Cadmium	ND		0.422	0.0844	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Chromium	**5.33**		1.27	0.296	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Lead	**6.18**		1.27	0.507	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Nickel	**3.30**		0.844	0.220	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Selenium	ND		4.22	1.27	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Silver	ND		0.844	0.338	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Thallium	ND		2.53	1.10	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Vanadium	**8.91**		0.844	0.363	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1
Zinc	**16.7**		1.69	0.675	mg/Kg	☼	03/14/23 09:00	03/15/23 22:20	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0708	0.0236	mg/Kg	☼	03/14/23 07:49	03/14/23 13:20	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-FD-09
Date Collected: 03/06/23 08:05
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-32
Matrix: Solid
Percent Solids: 83.4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.6		0.1	0.1	%			03/10/23 08:54	1
Percent Solids (EPA Moisture)	83.4		0.1	0.1	%			03/10/23 08:54	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: Trip Blank-08

Date Collected: 03/06/23 00:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-33

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/15/23 12:58	03/15/23 13:51	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: Trip Blank-08

Date Collected: 03/06/23 00:00
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-33

Matrix: Solid

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:51	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/15/23 12:58	03/15/23 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:51*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:51*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:51*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-03-1012'
Date Collected: 03/06/23 14:20
Date Received: 03/07/23 16:41

Lab Sample ID: 620-10149-34
Matrix: Solid
Percent Solids: 80.0

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00449	0.00293	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Acetone	ND		0.0449	0.0101	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Acrylonitrile	ND		0.00449	0.00270	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Benzene	ND		0.00449	0.00300	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Bromobenzene	ND		0.00449	0.00299	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Bromochloromethane	ND		0.00449	0.00255	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Bromodichloromethane	ND		0.00449	0.00330	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Bromoform	ND		0.00449	0.00343	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Bromomethane	ND		0.00898	0.00560	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
2-Butanone (MEK)	ND		0.00898	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
n-Butylbenzene	ND		0.00898	0.00482	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
sec-Butylbenzene	ND		0.00449	0.00362	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
tert-Butylbenzene	ND		0.00449	0.00354	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Carbon disulfide	ND		0.00898	0.00315	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Carbon tetrachloride	ND		0.00449	0.00283	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Chlorobenzene	ND		0.00449	0.00329	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Chloroethane	ND		0.00898	0.00330	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Chloroform	ND		0.00449	0.00302	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Chloromethane	ND		0.00898	0.00345	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
2-Chlorotoluene	ND		0.00449	0.00358	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
4-Chlorotoluene	ND		0.00449	0.00390	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2-Dibromo-3-Chloropropane	ND		0.00898	0.00381	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Dibromochloromethane	ND		0.00449	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2-Dibromoethane (EDB)	ND		0.00449	0.00323	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Dibromomethane	ND		0.00449	0.00264	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2-Dichlorobenzene	ND		0.00449	0.00417	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,3-Dichlorobenzene	ND		0.00449	0.00360	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,4-Dichlorobenzene	ND		0.00449	0.00426	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Dichlorodifluoromethane (Freon 12)	ND	*-	0.00898	0.00241	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,1-Dichloroethane	ND		0.00449	0.00305	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2-Dichloroethane	ND		0.00449	0.00303	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,1-Dichloroethene	ND		0.00449	0.00275	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
cis-1,2-Dichloroethene	ND		0.00449	0.00260	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
trans-1,2-Dichloroethene	ND		0.00449	0.00279	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2-Dichloropropane	ND		0.00449	0.00297	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,3-Dichloropropane	ND		0.00449	0.00343	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
2,2-Dichloropropane	ND		0.00449	0.00310	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,1-Dichloropropene	ND		0.00449	0.00305	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
cis-1,3-Dichloropropene	ND		0.00449	0.00293	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
trans-1,3-Dichloropropene	ND		0.00449	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Ethylbenzene	ND		0.00449	0.00321	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Hexachlorobutadiene	ND		0.00898	0.00452	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
2-Hexanone (MBK)	ND		0.00898	0.00264	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Isopropylbenzene	ND		0.00449	0.00340	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
4-Isopropyltoluene	ND		0.00449	0.00441	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Methyl tert-butyl ether	ND		0.00449	0.00259	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
4-Methyl-2-pentanone (MIBK)	ND		0.00898	0.00290	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Methylene Chloride	ND		0.00898	0.00241	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Naphthalene	ND		0.00449	0.00406	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1

Client Sample ID: 2023-MW-03-1012' **Lab Sample ID: 620-10149-34**
Date Collected: 03/06/23 14:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.0**

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Styrene	ND		0.00449	0.00348	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,1,1,2-Tetrachloroethane	ND		0.00449	0.00337	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,1,2,2-Tetrachloroethane	ND		0.00449	0.00411	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Tetrachloroethene	ND		0.00449	0.00250	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Toluene	ND		0.00449	0.00285	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2,3-Trichlorobenzene	ND		0.00449	0.00379	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2,4-Trichlorobenzene	ND		0.00449	0.00414	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,3,5-Trichlorobenzene	ND		0.00449	0.00427	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,1,1-Trichloroethane	ND		0.00449	0.00306	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,1,2-Trichloroethane	ND		0.00449	0.00339	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Trichloroethene	ND		0.00449	0.00302	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Trichlorofluoromethane (Freon 11)	ND		0.00449	0.00343	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2,3-Trichloropropane	ND		0.00449	0.00399	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,2,4-Trimethylbenzene	ND		0.00449	0.00380	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,3,5-Trimethylbenzene	ND		0.00449	0.00382	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Vinyl chloride	ND		0.00449	0.00274	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
m,p-Xylene	ND		0.00449	0.00614	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
o-Xylene	ND		0.00449	0.00328	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Tetrahydrofuran	ND		0.00898	0.00227	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Ethyl ether	ND		0.00449	0.00236	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Tert-amyl methyl ether	ND		0.00449	0.00355	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Ethyl tert-butyl ether	ND		0.00449	0.00296	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
di-Isopropyl ether	ND		0.00449	0.00321	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
tert-Butanol	ND		0.0898	0.0241	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,4-Dioxane	ND		0.0898	0.0279	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
trans-1,4-Dichloro-2-butene	ND		0.0225	0.00332	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Ethanol	ND		0.898	0.0557	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
1,3-Dichloropropene, Total	ND		0.00449	0.00341	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1
Xylenes, Total	ND		0.0135	0.00449	mg/Kg	☼	03/15/23 12:58	03/15/23 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/15/23 12:58*	*03/15/23 22:00*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/15/23 12:58*	*03/15/23 22:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/15/23 12:58*	*03/15/23 22:00*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*03/15/23 12:58*	*03/15/23 22:00*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.397	0.0705	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
1,2,4-Trichlorobenzene	ND		0.397	0.0908	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
1,2-Dichlorobenzene	ND		0.397	0.0764	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
1,3-Dichlorobenzene	ND		0.397	0.0960	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
1,4-Dichlorobenzene	ND		0.397	0.0934	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
1-Methylnaphthalene	ND		0.0801	0.0673	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2,4,5-Trichlorophenol	ND		0.397	0.0454	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2,4,6-Trichlorophenol	ND		0.201	0.0490	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2,4-Dichlorophenol	ND		0.201	0.0799	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2,4-Dimethylphenol	ND		0.397	0.0582	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2,4-Dinitrophenol	ND		0.397	0.104	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1

Client Sample ID: 2023-MW-03-1012' **Lab Sample ID: 620-10149-34**
Date Collected: 03/06/23 14:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2,6-Dinitrotoluene	ND		0.201	0.0470	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2-Chloronaphthalene	ND		0.397	0.0917	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2-Chlorophenol	ND		0.201	0.0821	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2-Methylnaphthalene	ND		0.0801	0.0592	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2-Methylphenol	ND		0.397	0.0579	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2-Nitroaniline	ND		0.397	0.0377	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
2-Nitrophenol	ND		0.201	0.0713	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
3 & 4 Methylphenol	ND		0.397	0.0751	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
3,3'-Dichlorobenzidine	ND		0.397	0.0655	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
3-Nitroaniline	ND		0.397	0.0354	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
4,6-Dinitro-2-methylphenol	ND		0.397	0.0713	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
4-Bromophenyl phenyl ether	ND		0.397	0.0448	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
4-Chloro-3-methylphenol	ND		0.397	0.0776	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
4-Chloroaniline	ND		0.201	0.0304	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
4-Chlorophenyl phenyl ether	ND		0.397	0.0424	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
4-Nitroaniline	ND		0.201	0.0633	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
4-Nitrophenol	ND		0.397	0.138	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Acenaphthene	ND		0.0801	0.0639	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Acenaphthylene	ND		0.0801	0.0526	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Acetophenone	ND		0.201	0.0489	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Aniline	ND		0.397	0.0304	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Anthracene	ND		0.0801	0.0464	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Azobenzene/Diphenyldiazene	ND		0.397	0.0676	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzidine	ND	*1	0.793	0.117	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzo[a]anthracene	ND		0.0801	0.0451	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzo[a]pyrene	ND		0.0801	0.0573	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzo[b]fluoranthene	ND		0.0801	0.0664	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzo[g,h,i]perylene	ND		0.0801	0.0626	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzo[k]fluoranthene	ND		0.0801	0.0624	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzoic acid	ND	*- *1	0.397	0.273	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Benzyl alcohol	ND		0.397	0.0719	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Bis(2-chloroethoxy)methane	ND		0.397	0.0690	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Bis(2-chloroethyl)ether	ND		0.201	0.0656	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
bis (2-chloroisopropyl) ether	ND		0.201	0.0893	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Bis(2-ethylhexyl) phthalate	ND	*1	0.201	0.0511	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Butyl benzyl phthalate	ND		0.397	0.0398	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Carbazole	ND		0.201	0.0525	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Chrysene	ND		0.0801	0.0453	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Dibenz(a,h)anthracene	ND		0.0801	0.0612	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Dibenzofuran	ND		0.201	0.0695	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Diethyl phthalate	ND		0.397	0.0435	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Dimethyl phthalate	ND		0.397	0.0517	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Di-n-butyl phthalate	ND		0.397	0.0424	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Di-n-octyl phthalate	ND		0.397	0.0655	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Fluoranthene	ND		0.0801	0.0470	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Fluorene	ND		0.0801	0.0732	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Hexachlorobenzene	ND		0.201	0.0556	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Hexachlorobutadiene	ND		0.201	0.100	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1

Client Sample ID: 2023-MW-03-1012' **Lab Sample ID: 620-10149-34**
Date Collected: 03/06/23 14:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.0**

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.201	0.0767	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Hexachloroethane	ND		0.201	0.0788	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Indeno[1,2,3-cd]pyrene	ND		0.0801	0.0680	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Isophorone	ND		0.201	0.0549	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Naphthalene	ND		0.0801	0.0769	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Nitrobenzene	ND		0.201	0.0926	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
N-Nitrosodimethylamine	ND		0.201	0.0526	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
N-Nitrosodi-n-propylamine	ND		0.201	0.0799	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
N-Nitrosodiphenylamine	ND		0.397	0.0506	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Pentachloronitrobenzene	ND		0.397	0.0626	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Pentachlorophenol	ND		0.397	0.162	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Phenanthrene	ND		0.0801	0.0454	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Phenol	ND		0.397	0.0817	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Pyrene	ND		0.0801	0.0442	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1
Pyridine	ND		0.397	0.0938	mg/Kg	☼	03/20/23 14:14	03/23/23 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*03/20/23 14:14*	*03/23/23 11:51*	*1*
2-Fluorophenol (Surr)	*84*		*15 - 110*	*03/20/23 14:14*	*03/23/23 11:51*	*1*
Nitrobenzene-d5 (Surr)	*81*		*30 - 130*	*03/20/23 14:14*	*03/23/23 11:51*	*1*
Phenol-d5 (Surr)	*82*		*15 - 110*	*03/20/23 14:14*	*03/23/23 11:51*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 110*	*03/20/23 14:14*	*03/23/23 11:51*	*1*
Terphenyl-d14	*93*		*30 - 130*	*03/20/23 14:14*	*03/23/23 11:51*	*1*

Method: MA DEP MA VPH SUM - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		0.292	0.150	mg/Kg			03/15/23 07:51	1
C9-C12 Aliphatics (adjusted)	ND		0.292	0.125	mg/Kg			03/15/23 07:51	1

Method: MA DEP MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0584	0.0117	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
Ethylbenzene	ND		0.0584	0.0117	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
Methyl tert-butyl ether	ND		0.0584	0.0117	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
m,p-Xylene	ND		0.117	0.0117	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
Naphthalene	ND		0.0584	0.0397	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
o-Xylene	ND		0.0584	0.0117	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
Toluene	ND		0.0584	0.0117	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
C5-C8 Aliphatics (unadjusted)	ND		0.292	0.150	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
C9-C10 Aromatics	ND		0.292	0.0409	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1
C9-C12 Aliphatics (unadjusted)	ND		0.292	0.125	mg/Kg	☼	03/13/23 07:46	03/14/23 02:57	1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0240	0.0173	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1
PCB-1221	ND		0.0240	0.00709	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1
PCB-1232	ND		0.0240	0.00665	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1
PCB-1242	ND		0.0240	0.00379	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1
PCB-1248	ND		0.0240	0.00750	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1
PCB-1254	ND		0.0240	0.0187	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1

Client Sample ID: 2023-MW-03-1012' **Lab Sample ID: 620-10149-34**
Date Collected: 03/06/23 14:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.0240	0.00559	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1
PCB-1260	ND		0.0240	0.00516	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1
PCB-1268	ND		0.0240	0.00511	mg/Kg	☼	03/10/23 15:43	03/14/23 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:59*	*1*
Tetrachloro-m-xylene	*83*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:59*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:59*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*03/10/23 15:43*	*03/14/23 19:59*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluoroheptanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorooctanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorononanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorodecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorotridecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorotetradecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorobutanesulfonic acid	ND		2.36	0.472	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorohexanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorooctanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
NEtFOSAA	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
NMeFOSAA	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
10:2 FTS	ND		2.36	0.707	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluoropentanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluoroheptanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorononanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorodecanesulfonic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorooctanesulfonamide	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorohexadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorooctadecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorobutanoic acid	ND		2.36	0.943	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluoropentanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
NMeFOSE	ND		2.36	0.590	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
NMeFOSA	ND		2.36	0.590	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
NEtFOSE	ND		2.36	0.590	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
NEtFOSA	ND		2.36	0.590	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
HFPODA	ND		2.36	1.18	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
DONA	ND		3.54	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
9Cl-PF3ONS	ND		2.36	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
11Cl-PF3OUdS	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluorododecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
4:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
Perfluoroundecanoic acid	ND		0.707	0.236	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
6:2 Fluorotelomer sulfonic acid	ND		2.36	0.707	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1
8:2 Fluorotelomer sulfonic acid	ND		3.54	0.707	ug/Kg	☼	03/13/23 07:31	03/23/23 00:09	1

Client Sample ID: 2023-MW-03-1012' Lab Sample ID: 620-10149-34

Date Collected: 03/06/23 14:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.0**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	75		10 - 200	03/13/23 07:31	03/23/23 00:09	1
M2-8:2 FTS	69		15 - 200	03/13/23 07:31	03/23/23 00:09	1
M2-6:2 FTS	77		10 - 200	03/13/23 07:31	03/23/23 00:09	1
13C5 PFHxA	97		10 - 174	03/13/23 07:31	03/23/23 00:09	1
13C4 PFHpA	94		10 - 178	03/13/23 07:31	03/23/23 00:09	1
13C8 PFOA	91		26 - 159	03/13/23 07:31	03/23/23 00:09	1
13C9 PFNA	94		26 - 165	03/13/23 07:31	03/23/23 00:09	1
13C6 PFDA	89		26 - 161	03/13/23 07:31	03/23/23 00:09	1
13C7 PFUnA	85		12 - 173	03/13/23 07:31	03/23/23 00:09	1
13C2-PFDoDA	87		11 - 166	03/13/23 07:31	03/23/23 00:09	1
13C2 PFTeDA	83		10 - 169	03/13/23 07:31	03/23/23 00:09	1
13C3 PFBS	89		27 - 179	03/13/23 07:31	03/23/23 00:09	1
13C3 PFHxS	96		24 - 171	03/13/23 07:31	03/23/23 00:09	1
13C8 PFOS	96		41 - 154	03/13/23 07:31	03/23/23 00:09	1
d3-NMeFOSAA	15		10 - 178	03/13/23 07:31	03/23/23 00:09	1
d5-NEtFOSAA	19		10 - 193	03/13/23 07:31	03/23/23 00:09	1
13C8 FOSA	88		14 - 163	03/13/23 07:31	03/23/23 00:09	1
13C4 PFBA	90		28 - 153	03/13/23 07:31	03/23/23 00:09	1
13C5 PFPeA	89		24 - 161	03/13/23 07:31	03/23/23 00:09	1
d7-N-MeFOSE-M	86		10 - 179	03/13/23 07:31	03/23/23 00:09	1
d3-NMePFOSA	84		10 - 175	03/13/23 07:31	03/23/23 00:09	1
d9-N-EtFOSE-M	84		10 - 185	03/13/23 07:31	03/23/23 00:09	1
d5-NEtPFOSA	86		10 - 180	03/13/23 07:31	03/23/23 00:09	1
13C3 HFPO-DA	89		10 - 169	03/13/23 07:31	03/23/23 00:09	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.25	1.79	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Arsenic	**6.25**		3.15	1.47	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Barium	**109**		0.525	0.158	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Beryllium	**1.44**		0.525	0.105	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Cadmium	ND		0.525	0.105	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Chromium	**32.0**		1.58	0.368	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Copper	**27.8**		2.10	0.809	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Lead	**10.2**		1.58	0.630	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Nickel	**21.0**		1.05	0.273	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Selenium	ND		5.25	1.58	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Silver	**0.501**	**J**	1.05	0.420	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Thallium	ND		31.5	13.7	mg/Kg	☼	03/13/23 05:34	03/15/23 17:54	10
Vanadium	**53.3**		1.05	0.452	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1
Zinc	**74.6**		2.10	0.840	mg/Kg	☼	03/13/23 05:34	03/15/23 17:48	1

Method: MA DEP 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0703	0.0234	mg/Kg	☼	03/12/23 21:21	03/13/23 20:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**20.0**		0.1	0.1	%			03/09/23 08:51	1
Percent Solids (EPA Moisture)	**80.0**		0.1	0.1	%			03/09/23 08:51	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10149-1	2023-MW-08-0002'	88	101	96	109
620-10149-1 - RA	2023-MW-08-0002'	77	92	96	102
620-10149-2	2023-MW-08-0204'	96	103	95	108
620-10149-3	2023-MW-08-0406'	88	102	94	107
620-10149-4	2023-MW-08-0608'	87	94	85	95
620-10149-5	2023-MW-08-0810'	86 *3	105 *3	137 S1+ *3	136 S1+ *3
620-10149-5 - RA	2023-MW-08-0810'	81	93	96	101
620-10149-6	2023-MW-08-1012'	96	105	92	105
620-10149-7	2023-SB-10-0002'	78 *3	107 *3	133 S1+ *3	137 S1+ *3
620-10149-7 - RA	2023-SB-10-0002'	81	93	96	101
620-10149-8	2023-SB-10-0204'	79	103	95	109
620-10149-8 - RA	2023-SB-10-0204'	67 *3 S1-	92 *3	196 *3 S1+	176 *3 S1+
620-10149-9	2023-SB-10-0406'	68 S1- *3	92 *3	197 S1+ *3	190 S1+ *3
620-10149-9 - RA	2023-SB-10-0406'	71	92	97	103
620-10149-10	2023-SB-10-0608'	91	106	93	108
620-10149-11	2023-SB-10-0810'	97	105	93	108
620-10149-12	2023-SB-10-1012'	98	98	98	99
620-10149-12 MS	2023-SB-10-1012'	102	100	104	101
620-10149-12 MSD	2023-SB-10-1012'	100	104	101	97
620-10149-13	2023-SB-11-0002'	94	104	93	104
620-10149-14	2023-SB-11-0204'	65 S1- *3	91 *3	165 S1+ *3	161 S1+ *3
620-10149-14 - RA	2023-SB-11-0204'	59 *3 S1-	91 *3	146 *3 S1+	138 *3 S1+
620-10149-15	2023-SB-11-0406'	77	93	93	101
620-10149-15 - RA	2023-SB-11-0406'	74 *3	93 *3	137 *3 S1+	126 *3
620-10149-16	2023-SB-11-0608'	80	95	93	100
620-10149-16 - RA	2023-SB-11-0608'	82	94	98	102
620-10149-17	2023-SB-11-0810'	88	95	93	100
620-10149-18	2023-SB-11-1012'	88	97	92	98
620-10149-19	2023-SB-09-0002'	89	96	92	98
620-10149-20	2023-SB-09-0204'	91	95	96	100
620-10149-21	2023-SB-09-0406'	83	93	91	99
620-10149-21 - RA	2023-SB-09-0406'	75 *3	93 *3	141 *3 S1+	132 *3 S1+
620-10149-22	2023-SB-09-0608'	89	95	92	98
620-10149-23	2023-SB-09-0810'	89	95	97	102
620-10149-24	2023-SB-09-1012'	87	96	91	98
620-10149-25	2023-MW-09-0002'	58 S1- *3	89 *3	137 S1+ *3	138 S1+ *3
620-10149-25 - RA	2023-MW-09-0002'	73	92	98	102
620-10149-26	2023-MW-09-0204'	76	94	93	101
620-10149-26 - RA	2023-MW-09-0204'	69 *3 S1-	96 *3	189 *3 S1+	171 *3 S1+
620-10149-27	2023-MW-09-0406'	102	103	99	96
620-10149-27 MS	2023-MW-09-0406'	96	105	100	97
620-10149-27 MSD	2023-MW-09-0406'	103	101	102	101

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10149-28	2023-MW-09-0608'	78 *3	95 *3	128 *3	123 *3
620-10149-28 - RA	2023-MW-09-0608'	82 *3	96 *3	137 *3 S1+	124 *3
620-10149-29	2023-MW-09-0810'	91	96	99	103
620-10149-30	2023-MW-09-1012'	91	97	97	101
620-10149-31	2023-FD-08	92	98	101	99
620-10149-32	2023-FD-09	87	96	95	101
620-10149-33	Trip Blank-08	91	93	93	100
620-10149-34	2023-MW-03-1012'	88	95	94	101
LCS 620-20472/1-A	Lab Control Sample	103	103	92	103
LCS 620-20516/1-A	Lab Control Sample	96	96	92	99
LCS 620-20572/1-A	Lab Control Sample	95	96	92	99
LCS 620-20616/1-A	Lab Control Sample	101	100	100	101
LCS 620-20675/1-A	Lab Control Sample	102	102	99	97
LCSD 620-20472/2-A	Lab Control Sample Dup	103	103	93	103
LCSD 620-20516/2-A	Lab Control Sample Dup	96	95	92	98
LCSD 620-20572/2-A	Lab Control Sample Dup	95	96	94	99
LCSD 620-20616/2-A	Lab Control Sample Dup	101	100	99	100
LCSD 620-20675/2-A	Lab Control Sample Dup	102	103	99	98
MB 620-20472/3-A	Method Blank	100	102	94	106
MB 620-20516/3-A	Method Blank	93	95	95	97
MB 620-20572/3-A	Method Blank	93	94	95	99
MB 620-20616/3-A	Method Blank	100	98	98	98
MB 620-20675/3-A	Method Blank	104	103	100	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10149-1	2023-MW-08-0002'	38	34	31	31	33	30
620-10149-2	2023-MW-08-0204'	57	75	61	70	76	63
620-10149-3	2023-MW-08-0406'	77	80	66	75	75	76
620-10149-4	2023-MW-08-0608'	43	70	60	66	72	63
620-10149-5	2023-MW-08-0810'	63	79	59	73	70	93
620-10149-6	2023-MW-08-1012'	69	77	67	73	79	86
620-10149-7	2023-SB-10-0002'	65	74	67	67	52	75
620-10149-8	2023-SB-10-0204'	67	44	67	51	44	70
620-10149-8	2023-SB-10-0204'	60	43	62	49	39	76
620-10149-9	2023-SB-10-0406'	61	73	64	66	67	69
620-10149-10	2023-SB-10-0608'	71	83	74	78	74	77
620-10149-11	2023-SB-10-0810'	77	92	77	85	74	100
620-10149-12	2023-SB-10-1012'	68	87	70	76	68	66
620-10149-12 MS	2023-SB-10-1012'	85	86	76	90	90	77

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	FBP (30-130)	2FP (15-110)	NBZ (30-130)	PHL (15-110)	TBP (15-110)	TPHL (30-130)
620-10149-12 MSD	2023-SB-10-1012'	77	77	67	84	80	71
620-10149-13	2023-SB-11-0002'	33	31	19 S1-	38	62	77
620-10149-14	2023-SB-11-0204'	48	44	32	49	58	71
620-10149-15	2023-SB-11-0406'	45	48	34	51	67	71
620-10149-16	2023-SB-11-0608'	70	79	58	75	77	97
620-10149-17	2023-SB-11-0810'	74	86	76	77	74	100
620-10149-18	2023-SB-11-1012'	72	89	58	77	74	79
620-10149-19	2023-SB-09-0002'	79	93	82	85	89	80
620-10149-20	2023-SB-09-0204'	78	85	82	71	89	77
620-10149-21	2023-SB-09-0406'	81	91	82	81	101	73
620-10149-21	2023-SB-09-0406'	48	66	63	59	74	33
620-10149-22	2023-SB-09-0608'	74	89	74	82	86	70
620-10149-23	2023-SB-09-0810'	93	98	114	96	85	101
620-10149-24	2023-SB-09-1012'	51	65	58	62	55	50
620-10149-25	2023-MW-09-0002'	62	67	70	68	50	61
620-10149-26	2023-MW-09-0204'	58	65	61	67	57	68
620-10149-27	2023-MW-09-0406'	56	75	64	72	60	75
620-10149-27 MS	2023-MW-09-0406'	79	83	75	91	99	85
620-10149-27 MSD	2023-MW-09-0406'	90	79	75	87	92	77
620-10149-28	2023-MW-09-0608'	73	84	69	82	70	81
620-10149-29	2023-MW-09-0810'	55	74	71	69	58	57
620-10149-30	2023-MW-09-1012'	76	85	84	85	64	78
620-10149-31	2023-FD-08	76	72	59	70	83	81
620-10149-32	2023-FD-09	72	80	80	82	85	78
620-10149-34	2023-MW-03-1012'	71	84	81	82	78	93
LCS 620-20629/2-A	Lab Control Sample	70	79	72	79	68	80
LCS 620-20685/2-A	Lab Control Sample	82	93	83	97	85	81
LCS 620-20686/2-A	Lab Control Sample	77	80	73	84	77	85
LCSD 620-20629/3-A	Lab Control Sample Dup	85	92	88	96	76	69
LCSD 620-20685/3-A	Lab Control Sample Dup	76	84	77	90	83	81
LCSD 620-20686/3-A	Lab Control Sample Dup	90	82	90	91	83	69
MB 620-20629/1-A	Method Blank	68	70	74	81	59	89
MB 620-20685/1-A	Method Blank	69	66	75	76	38	84
MB 620-20686/1-A	Method Blank	66	78	73	77	53	91

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT-F1 (70-130)	TFT-P2 (70-130)
620-10149-1	2023-MW-08-0002'	98	93
620-10149-2	2023-MW-08-0204'	95	92

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT-F1 (70-130)	TFT-P2 (70-130)
620-10149-3	2023-MW-08-0406'	96	93
620-10149-4	2023-MW-08-0608'	97	94
620-10149-5	2023-MW-08-0810'	95	92
620-10149-6	2023-MW-08-1012'	94	91
620-10149-7	2023-SB-10-0002'	96	94
620-10149-8	2023-SB-10-0204'	102	96
620-10149-9	2023-SB-10-0406'	98	96
620-10149-10	2023-SB-10-0608'	96	93
620-10149-11	2023-SB-10-0810'	96	93
620-10149-12	2023-SB-10-1012'	97	94
620-10149-12 MS	2023-SB-10-1012'	100	98
620-10149-12 MSD	2023-SB-10-1012'	96	93
620-10149-13	2023-SB-11-0002'	95	91
620-10149-14	2023-SB-11-0204'	101	95
620-10149-15	2023-SB-11-0406'	98	94
620-10149-16	2023-SB-11-0608'	97	93
620-10149-17	2023-SB-11-0810'	96	92
620-10149-18	2023-SB-11-1012'	98	94
620-10149-19	2023-SB-09-0002'	100	95
620-10149-20	2023-SB-09-0204'	101	96
620-10149-21	2023-SB-09-0406'	101	97
620-10149-22	2023-SB-09-0608'	99	94
620-10149-23	2023-SB-09-0810'	99	95
620-10149-24	2023-SB-09-1012'	98	94
620-10149-25	2023-MW-09-0002'	99	95
620-10149-26	2023-MW-09-0204'	100	95
620-10149-27	2023-MW-09-0406'	101	97
620-10149-27 MS	2023-MW-09-0406'	103	99
620-10149-27 MSD	2023-MW-09-0406'	103	99
620-10149-28	2023-MW-09-0608'	97	93
620-10149-29	2023-MW-09-0810'	98	94
620-10149-30	2023-MW-09-1012'	96	92
620-10149-31	2023-FD-08	97	93
620-10149-32	2023-FD-09	97	93
LCS 480-661094/2-A	Lab Control Sample	95	93
LCS 480-661243/2-A	Lab Control Sample	99	96
LCSD 480-661094/3-A	Lab Control Sample Dup	95	92
LCSD 480-661243/3-A	Lab Control Sample Dup	98	94
MB 480-661094/1-A	Method Blank	87	84
MB 480-661243/1-A	Method Blank	109	104

Surrogate Legend

TFT-F = a,a,a-Trifluorotoluene (fid)
TFT-P = a,a,a-Trifluorotoluene (pid)

Surrogate Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (30-150)	TCX2 (30-150)	DCB1 (30-150)	DCB2 (30-150)
620-10149-1	2023-MW-08-0002'	87	77	136	100
620-10149-2	2023-MW-08-0204'	100	99	115	116
620-10149-3	2023-MW-08-0406'	75	75	87	90
620-10149-4	2023-MW-08-0608'	89	85	108	107
620-10149-5	2023-MW-08-0810'	87	89	99	105
620-10149-6	2023-MW-08-1012'	95	96	106	117
620-10149-7	2023-SB-10-0002'	79	82	132	119
620-10149-8	2023-SB-10-0204'	82	82	119	116
620-10149-9	2023-SB-10-0406'	97	95	111	119
620-10149-10	2023-SB-10-0608'	95	71	102	79
620-10149-11	2023-SB-10-0810'	95	92	119	118
620-10149-12	2023-SB-10-1012'	98	100	117	125
620-10149-12 MS	2023-SB-10-1012'	97	100	113	120
620-10149-12 MSD	2023-SB-10-1012'	101	104	118	126
620-10149-13	2023-SB-11-0002'	75	74	74	81
620-10149-14	2023-SB-11-0204'	98	87	119	106
620-10149-15	2023-SB-11-0406'	71	70	103	107
620-10149-16	2023-SB-11-0608'	98	98	117	121
620-10149-17	2023-SB-11-0810'	99	102	112	123
620-10149-18	2023-SB-11-1012'	70	66	77	72
620-10149-19	2023-SB-09-0002'	101	96	199 S1+	97 p
620-10149-20	2023-SB-09-0204'	79	70	135	77 p
620-10149-21	2023-SB-09-0406'	120	82	305 S1+	88 p
620-10149-22	2023-SB-09-0608'	105	101	126	97
620-10149-23	2023-SB-09-0810'	65	61	69	64
620-10149-24	2023-SB-09-1012'	102	99	153 S1+	84 p
620-10149-25	2023-MW-09-0002'	87	83	132	72 p
620-10149-26	2023-MW-09-0204'	102	96	100	90
620-10149-27	2023-MW-09-0406'	111	106	107	84
620-10149-27 MS	2023-MW-09-0406'	108	101	101	82
620-10149-27 MSD	2023-MW-09-0406'	110	102	110	94
620-10149-28	2023-MW-09-0608'	104	100	100	96
620-10149-29	2023-MW-09-0810'	117	108	109	97
620-10149-30	2023-MW-09-1012'	109	101	103	95
620-10149-31	2023-FD-08	99	94	90	91
620-10149-32	2023-FD-09	90	93	95	95
620-10149-34	2023-MW-03-1012'	89	83	88	82
LCS 620-20453/2-A	Lab Control Sample	94	97	103	115
LCS 620-20455/2-A	Lab Control Sample	84	81	103	102
LCSD 620-20453/3-A	Lab Control Sample Dup	88	94	99	109
LCSD 620-20455/3-A	Lab Control Sample Dup	76	74	77	81
MB 620-20453/1-A	Method Blank	97	100	106	121
MB 620-20455/1-A	Method Blank	103	102	105	107

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-200)	M282FTS (15-200)	M262FTS (10-200)	13C5PHA (10-174)	C4PFHA (10-178)	C8PFOA (26-159)	C9PFNA (26-165)	C6PFDA (26-161)
620-10149-1	2023-MW-08-0002'	86	78	83	82	79	79	80	80
620-10149-2	2023-MW-08-0204'	60	72	68	59	62	61	64	61
620-10149-3	2023-MW-08-0406'	33	31	34	37	38	39	42	39
620-10149-4	2023-MW-08-0608'	73	74	76	69	71	70	71	75
620-10149-5	2023-MW-08-0810'	85	83	85	94	93	90	91	88
620-10149-6	2023-MW-08-1012'	84	84	90	97	100	92	96	91
620-10149-7	2023-SB-10-0002'	89	86	89	94	95	94	90	91
620-10149-8	2023-SB-10-0204'	86	90	78	88	86	85	85	84
620-10149-9	2023-SB-10-0406'	95	86	86	95	94	91	95	90
620-10149-10	2023-SB-10-0608'	84	85	80	87	87	80	82	82
620-10149-11	2023-SB-10-0810'	93	82	90	96	96	95	96	88
620-10149-12	2023-SB-10-1012'	92	83	98	99	106	98	101	94
620-10149-12 MS	2023-SB-10-1012'	82	76	84	91	90	86	88	85
620-10149-12 MSD	2023-SB-10-1012'	93	80	88	98	101	92	91	94
620-10149-13	2023-SB-11-0002'	80	81	78	88	84	86	86	87
620-10149-14	2023-SB-11-0204'	91	90	80	98	98	96	95	90
620-10149-15	2023-SB-11-0406'	88	80	88	84	89	84	79	85
620-10149-16	2023-SB-11-0608'	83	85	84	89	89	85	85	88
620-10149-17	2023-SB-11-0810'	88	85	90	99	97	89	96	90
620-10149-18	2023-SB-11-1012'	83	73	81	87	87	86	87	84
620-10149-19	2023-SB-09-0002'	78	84	81	87	88	83	86	84
620-10149-20	2023-SB-09-0204'	72	79	72	74	78	79	76	77
620-10149-21	2023-SB-09-0406'	89	96	88	88	91	85	88	83
620-10149-22	2023-SB-09-0608'	85	102	84	93	94	93	93	90
620-10149-23	2023-SB-09-0810'	94	93	97	97	102	97	94	90
620-10149-24	2023-SB-09-1012'	102	89	94	101	104	99	102	99
620-10149-25	2023-MW-09-0002'	80	74	77	88	91	87	84	80
620-10149-26	2023-MW-09-0204'	85	90	82	90	91	88	91	88
620-10149-27	2023-MW-09-0406'	92	81	86	97	98	94	94	90
620-10149-27 MS	2023-MW-09-0406'	84	70	82	93	91	92	89	88
620-10149-27 MSD	2023-MW-09-0406'	81	76	80	90	93	88	89	92
620-10149-28	2023-MW-09-0608'	79	79	77	89	84	86	87	83
620-10149-29	2023-MW-09-0810'	73	65	69	87	85	85	88	80
620-10149-30	2023-MW-09-1012'	74	70	77	87	88	87	88	84
620-10149-31 - RE	2023-FD-08	15	17	16	16	17	17 *5-	18 *5-	18 *5-
620-10149-31	2023-FD-08	46	44	43	46	47	46	51	45
620-10149-32	2023-FD-09	87	88	93	95	102	96	96	98
620-10149-34	2023-MW-03-1012'	75	69	77	97	94	91	94	89
LCS 410-352779/3-B	Lab Control Sample	87	83	91	91	91	92	95	91
LCS 410-352780/3-B	Lab Control Sample	93	79	85	97	93	93	97	91
LCS 410-357567/2-B	Lab Control Sample	101	107	101	100	97	99	103	96
LCS 410-358121/2-B	Lab Control Sample	118	106	105	107	107	108	103	100
MB 410-352779/1-B	Method Blank	92	90	93	91	101	96	103	99
MB 410-352780/1-B	Method Blank	74	74	76	80	83	81	81	87
MB 410-357567/1-B	Method Blank	93	104	102	94	92	94	101	99
MB 410-358121/1-B	Method Blank	114	106	124	118	120	116	109	106

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (12-173)	PFDoDA (11-166)	PFTDA (10-169)	C3PFBS (27-179)	C3PFHS (24-171)	C8PFOS (41-154)	d3NMFOS (10-178)	d5NEFOS (10-193)
620-10149-1	2023-MW-08-0002'	74	82	82	82	88	87	60	64
620-10149-2	2023-MW-08-0204'	64	68	69	95	100	97	13	18
620-10149-3	2023-MW-08-0406'	38	40	41	45	47	50	12	13
620-10149-4	2023-MW-08-0608'	76	72	75	82	84	81	18	27
620-10149-5	2023-MW-08-0810'	83	82	83	84	85	87	54	59
620-10149-6	2023-MW-08-1012'	85	86	86	87	91	90	65	66
620-10149-7	2023-SB-10-0002'	93	87	92	88	92	87	72	72
620-10149-8	2023-SB-10-0204'	86	82	99	80	90	83	62	69
620-10149-9	2023-SB-10-0406'	87	90	100	85	87	90	77	78
620-10149-10	2023-SB-10-0608'	83	84	97	76	83	83	59	64
620-10149-11	2023-SB-10-0810'	91	91	90	82	88	92	81	79
620-10149-12	2023-SB-10-1012'	90	88	91	92	96	96	71	70
620-10149-12 MS	2023-SB-10-1012'	78	85	82	85	85	84	51	52
620-10149-12 MSD	2023-SB-10-1012'	86	87	88	88	91	90	63	60
620-10149-13	2023-SB-11-0002'	87	89	83	88	93	90	16	21
620-10149-14	2023-SB-11-0204'	90	87	89	88	91	91	68	72
620-10149-15	2023-SB-11-0406'	80	80	81	87	89	91	34	34
620-10149-16	2023-SB-11-0608'	84	86	86	87	88	87	21	28
620-10149-17	2023-SB-11-0810'	85	89	86	86	87	89	44	45
620-10149-18	2023-SB-11-1012'	79	74	75	77	80	76	55	58
620-10149-19	2023-SB-09-0002'	84	88	83	81	87	86	27	30
620-10149-20	2023-SB-09-0204'	77	82	81	83	86	85	19	26
620-10149-21	2023-SB-09-0406'	78	85	92	83	94	92	29	33
620-10149-22	2023-SB-09-0608'	87	92	91	88	91	95	22	24
620-10149-23	2023-SB-09-0810'	91	95	90	91	93	91	70	70
620-10149-24	2023-SB-09-1012'	95	94	94	96	97	99	64	67
620-10149-25	2023-MW-09-0002'	81	84	78	86	86	85	23	28
620-10149-26	2023-MW-09-0204'	83	84	88	87	91	93	34	39
620-10149-27	2023-MW-09-0406'	89	85	90	86	93	91	60	63
620-10149-27 MS	2023-MW-09-0406'	81	82	86	85	87	89	60	64
620-10149-27 MSD	2023-MW-09-0406'	88	93	89	87	87	90	60	61
620-10149-28	2023-MW-09-0608'	81	79	76	79	80	82	56	54
620-10149-29	2023-MW-09-0810'	79	84	77	79	83	90	14	18
620-10149-30	2023-MW-09-1012'	81	81	78	79	86	88	34	39
620-10149-31 - RE	2023-FD-08	18	17	19	25 *5-	26	28 *5-	4 *5-	5 *5-
620-10149-31	2023-FD-08	42	47	45	66	69	70	7 *5-	9 *5-
620-10149-32	2023-FD-09	92	86	93	91	93	91	64	68
620-10149-34	2023-MW-03-1012'	85	87	83	89	96	96	15	19
LCS 410-352779/3-B	Lab Control Sample	90	91	98	90	94	92	71	75
LCS 410-352780/3-B	Lab Control Sample	89	90	87	83	87	92	75	74
LCS 410-357567/2-B	Lab Control Sample	94	100	94	101	102	102	93	85
LCS 410-358121/2-B	Lab Control Sample	104	106	106	109	115	103	95	90
MB 410-352779/1-B	Method Blank	98	96	95	95	98	99	72	71
MB 410-352780/1-B	Method Blank	81	84	80	80	78	78	66	66
MB 410-357567/1-B	Method Blank	93	101	87	104	94	100	87	75
MB 410-358121/1-B	Method Blank	100	108	106	101	114	107	87	91

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10149-1	2023-MW-08-0002'	69	75	75	75	65	75	66	75

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (14-163)	PFBA (28-153)	PFPeA (24-161)	NMFM (10-179)	d3NMFSA (10-175)	NEFM (10-185)	d5NPFSA (10-180)	HFPODA (10-169)
620-10149-2	2023-MW-08-0204'	104	52	53	147	110	162	120	58
620-10149-3	2023-MW-08-0406'	85	37	37	84	76	81	80	40
620-10149-4	2023-MW-08-0608'	76	64	67	77	73	73	69	64
620-10149-5	2023-MW-08-0810'	79	89	91	71	76	71	78	86
620-10149-6	2023-MW-08-1012'	80	89	90	81	70	76	74	83
620-10149-7	2023-SB-10-0002'	83	93	94	84	80	81	80	90
620-10149-8	2023-SB-10-0204'	73	84	81	86	63	93	71	86
620-10149-9	2023-SB-10-0406'	76	92	93	82	72	79	71	86
620-10149-10	2023-SB-10-0608'	70	85	84	79	59	82	62	80
620-10149-11	2023-SB-10-0810'	86	96	98	85	86	80	82	83
620-10149-12	2023-SB-10-1012'	84	97	100	83	81	79	82	102
620-10149-12 MS	2023-SB-10-1012'	73	91	89	76	73	70	75	77
620-10149-12 MSD	2023-SB-10-1012'	84	97	97	79	78	71	78	89
620-10149-13	2023-SB-11-0002'	74	77	79	79	66	77	67	77
620-10149-14	2023-SB-11-0204'	83	91	92	82	81	78	81	85
620-10149-15	2023-SB-11-0406'	72	76	78	72	64	67	64	73
620-10149-16	2023-SB-11-0608'	81	80	81	79	81	75	80	83
620-10149-17	2023-SB-11-0810'	81	92	91	78	74	76	74	90
620-10149-18	2023-SB-11-1012'	72	83	85	74	71	70	70	81
620-10149-19	2023-SB-09-0002'	83	85	85	81	81	78	79	87
620-10149-20	2023-SB-09-0204'	77	69	75	82	64	79	64	75
620-10149-21	2023-SB-09-0406'	77	82	88	86	64	82	62	86
620-10149-22	2023-SB-09-0608'	84	94	94	99	88	95	87	89
620-10149-23	2023-SB-09-0810'	84	98	100	85	85	80	86	88
620-10149-24	2023-SB-09-1012'	93	103	103	92	90	90	92	95
620-10149-25	2023-MW-09-0002'	76	81	88	79	70	72	70	82
620-10149-26	2023-MW-09-0204'	78	82	83	77	74	74	78	83
620-10149-27	2023-MW-09-0406'	81	94	95	82	78	77	80	96
620-10149-27 MS	2023-MW-09-0406'	79	91	91	79	78	78	81	89
620-10149-27 MSD	2023-MW-09-0406'	85	89	93	87	85	78	83	84
620-10149-28	2023-MW-09-0608'	74	85	89	76	78	73	78	82
620-10149-29	2023-MW-09-0810'	80	82	82	80	81	76	81	87
620-10149-30	2023-MW-09-1012'	78	84	86	82	79	77	80	78
620-10149-31 - RE	2023-FD-08	81	16 *5-	16 *5-	80	74	77	70	20
620-10149-31	2023-FD-08	112	42	42	112	107	112	104	53
620-10149-32	2023-FD-09	84	96	99	84	83	82	85	91
620-10149-34	2023-MW-03-1012'	88	90	89	86	84	84	86	89
LCS 410-352779/3-B	Lab Control Sample	76	85	88	74	76	69	72	86
LCS 410-352780/3-B	Lab Control Sample	78	91	94	82	70	75	66	87
LCS 410-357567/2-B	Lab Control Sample	86	99	115	80	82	83	74	88
LCS 410-358121/2-B	Lab Control Sample	96	104	109	95	83	95	87	99
MB 410-352779/1-B	Method Blank	80	85	85	76	69	76	73	82
MB 410-352780/1-B	Method Blank	69	79	85	63	59	62	58	68
MB 410-357567/1-B	Method Blank	79	97	115	76	76	79	72	75
MB 410-358121/1-B	Method Blank	95	107	102	96	84	98	90	96

Surrogate Legend

M242FTS = M2-4:2 FTS
M282FTS = M2-8:2 FTS
M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFM = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20472/3-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/13/23 09:42	03/13/23 13:06	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/13/23 09:42	03/13/23 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*	*03/13/23 09:42*	*03/13/23 13:06*	*1*

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02433		mg/Kg		122	70 - 130
Acetone	0.0200	0.02159	J	mg/Kg		108	70 - 130
Acrylonitrile	0.0200	0.02263		mg/Kg		113	70 - 130
Benzene	0.0200	0.02352		mg/Kg		118	70 - 130
Bromobenzene	0.0200	0.02206		mg/Kg		110	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	0.0200	0.02398		mg/Kg		120	70 - 130
Bromodichloromethane	0.0200	0.02331		mg/Kg		117	70 - 130
Bromoform	0.0200	0.02313		mg/Kg		116	70 - 130
Bromomethane	0.0200	0.02468		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.02143		mg/Kg		107	70 - 130
n-Butylbenzene	0.0200	0.02023		mg/Kg		101	70 - 130
sec-Butylbenzene	0.0200	0.02254		mg/Kg		113	70 - 130
tert-Butylbenzene	0.0200	0.02329		mg/Kg		116	70 - 130
Carbon disulfide	0.0200	0.02434		mg/Kg		122	70 - 130
Carbon tetrachloride	0.0200	0.02243		mg/Kg		112	70 - 130
Chlorobenzene	0.0200	0.02244		mg/Kg		112	70 - 130
Chloroethane	0.0200	0.02485		mg/Kg		124	70 - 130
Chloroform	0.0200	0.02362		mg/Kg		118	70 - 130
Chloromethane	0.0200	0.02105		mg/Kg		105	70 - 130
2-Chlorotoluene	0.0200	0.02252		mg/Kg		113	70 - 130
4-Chlorotoluene	0.0200	0.02216		mg/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02175		mg/Kg		109	70 - 130
Dibromochloromethane	0.0200	0.02329		mg/Kg		116	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02330		mg/Kg		116	70 - 130
Dibromomethane	0.0200	0.02376		mg/Kg		119	70 - 130
1,2-Dichlorobenzene	0.0200	0.02130		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02323		mg/Kg		116	70 - 130
1,4-Dichlorobenzene	0.0200	0.02149		mg/Kg		107	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01553		mg/Kg		78	70 - 130
1,1-Dichloroethane	0.0200	0.02258		mg/Kg		113	70 - 130
1,2-Dichloroethane	0.0200	0.02210		mg/Kg		111	70 - 130
1,1-Dichloroethene	0.0200	0.02395		mg/Kg		120	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02220		mg/Kg		111	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02265		mg/Kg		113	70 - 130
1,2-Dichloropropane	0.0200	0.02190		mg/Kg		110	70 - 130
1,3-Dichloropropane	0.0200	0.02291		mg/Kg		115	70 - 130
2,2-Dichloropropane	0.0200	0.02134		mg/Kg		107	70 - 130
1,1-Dichloropropene	0.0200	0.02125		mg/Kg		106	70 - 130
cis-1,3-Dichloropropene	0.0200	0.02017		mg/Kg		101	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02237		mg/Kg		112	70 - 130
Ethylbenzene	0.0200	0.02182		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.02030		mg/Kg		101	70 - 130
2-Hexanone (MBK)	0.0200	0.01935		mg/Kg		97	70 - 130
Isopropylbenzene	0.0200	0.02134		mg/Kg		107	70 - 130
4-Isopropyltoluene	0.0200	0.01996		mg/Kg		100	70 - 130
Methyl tert-butyl ether	0.0200	0.02011		mg/Kg		101	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02012		mg/Kg		101	70 - 130
Methylene Chloride	0.0200	0.02358		mg/Kg		118	70 - 130
Naphthalene	0.0200	0.02169		mg/Kg		108	70 - 130
N-Propylbenzene	0.0200	0.02260		mg/Kg		113	70 - 130
Styrene	0.0200	0.02232		mg/Kg		112	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02220		mg/Kg		111	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02480		mg/Kg		124	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20472/1-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.0200	0.02262		mg/Kg		113	70 - 130
Toluene	0.0200	0.02380		mg/Kg		119	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02095		mg/Kg		105	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02193		mg/Kg		110	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02112		mg/Kg		106	70 - 130
1,1,1-Trichloroethane	0.0200	0.02266		mg/Kg		113	70 - 130
1,1,2-Trichloroethane	0.0200	0.02455		mg/Kg		123	70 - 130
Trichloroethene	0.0200	0.02382		mg/Kg		119	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02290		mg/Kg		115	70 - 130
1,2,3-Trichloropropane	0.0200	0.02297		mg/Kg		115	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02258		mg/Kg		113	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02228		mg/Kg		111	70 - 130
Vinyl chloride	0.0200	0.02059		mg/Kg		103	70 - 130
m,p-Xylene	0.0200	0.02099		mg/Kg		105	70 - 130
o-Xylene	0.0200	0.02037		mg/Kg		102	70 - 130
Tetrahydrofuran	0.0200	0.01986		mg/Kg		99	70 - 130
Ethyl ether	0.0200	0.02235		mg/Kg		112	70 - 130
Tert-amyl methyl ether	0.0200	0.01939		mg/Kg		97	70 - 130
Ethyl tert-butyl ether	0.0200	0.01880		mg/Kg		94	70 - 130
di-Isopropyl ether	0.0200	0.01936		mg/Kg		97	70 - 130
tert-Butanol	0.200	0.1977		mg/Kg		99	70 - 130
1,4-Dioxane	0.200	0.1927		mg/Kg		96	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02300	J	mg/Kg		115	70 - 130
Ethanol	0.400	0.4909	J	mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02484		mg/Kg		124	70 - 130	2	30
Acetone	0.0200	0.01999	J	mg/Kg		100	70 - 130	8	30
Acrylonitrile	0.0200	0.02333		mg/Kg		117	70 - 130	3	30
Benzene	0.0200	0.02444		mg/Kg		122	70 - 130	4	30
Bromobenzene	0.0200	0.02254		mg/Kg		113	70 - 130	2	30
Bromochloromethane	0.0200	0.02501		mg/Kg		125	70 - 130	4	30
Bromodichloromethane	0.0200	0.02411		mg/Kg		121	70 - 130	3	30
Bromoform	0.0200	0.02327		mg/Kg		116	70 - 130	1	30
Bromomethane	0.0200	0.02625	*+	mg/Kg		131	70 - 130	6	30
2-Butanone (MEK)	0.0200	0.02068		mg/Kg		103	70 - 130	4	30
n-Butylbenzene	0.0200	0.02082		mg/Kg		104	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	0.0200	0.02269		mg/Kg		113	70 - 130	1	30
tert-Butylbenzene	0.0200	0.02365		mg/Kg		118	70 - 130	2	30
Carbon disulfide	0.0200	0.02478		mg/Kg		124	70 - 130	2	30
Carbon tetrachloride	0.0200	0.02356		mg/Kg		118	70 - 130	5	30
Chlorobenzene	0.0200	0.02280		mg/Kg		114	70 - 130	2	30
Chloroethane	0.0200	0.02645	*+	mg/Kg		132	70 - 130	6	30
Chloroform	0.0200	0.02414		mg/Kg		121	70 - 130	2	30
Chloromethane	0.0200	0.02155		mg/Kg		108	70 - 130	2	30
2-Chlorotoluene	0.0200	0.02279		mg/Kg		114	70 - 130	1	30
4-Chlorotoluene	0.0200	0.02197		mg/Kg		110	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02282		mg/Kg		114	70 - 130	5	30
Dibromochloromethane	0.0200	0.02444		mg/Kg		122	70 - 130	5	30
1,2-Dibromoethane (EDB)	0.0200	0.02420		mg/Kg		121	70 - 130	4	30
Dibromomethane	0.0200	0.02413		mg/Kg		121	70 - 130	2	30
1,2-Dichlorobenzene	0.0200	0.02210		mg/Kg		110	70 - 130	4	30
1,3-Dichlorobenzene	0.0200	0.02325		mg/Kg		116	70 - 130	0	30
1,4-Dichlorobenzene	0.0200	0.02204		mg/Kg		110	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.01619		mg/Kg		81	70 - 130	4	30
1,1-Dichloroethane	0.0200	0.02378		mg/Kg		119	70 - 130	5	30
1,2-Dichloroethane	0.0200	0.02275		mg/Kg		114	70 - 130	3	30
1,1-Dichloroethene	0.0200	0.02463		mg/Kg		123	70 - 130	3	30
cis-1,2-Dichloroethene	0.0200	0.02325		mg/Kg		116	70 - 130	5	30
trans-1,2-Dichloroethene	0.0200	0.02361		mg/Kg		118	70 - 130	4	30
1,2-Dichloropropane	0.0200	0.02283		mg/Kg		114	70 - 130	4	30
1,3-Dichloropropane	0.0200	0.02395		mg/Kg		120	70 - 130	4	30
2,2-Dichloropropane	0.0200	0.02210		mg/Kg		111	70 - 130	3	30
1,1-Dichloropropene	0.0200	0.02249		mg/Kg		112	70 - 130	6	30
cis-1,3-Dichloropropene	0.0200	0.02132		mg/Kg		107	70 - 130	6	30
trans-1,3-Dichloropropene	0.0200	0.02325		mg/Kg		116	70 - 130	4	30
Ethylbenzene	0.0200	0.02225		mg/Kg		111	70 - 130	2	30
Hexachlorobutadiene	0.0200	0.02149		mg/Kg		107	70 - 130	6	30
2-Hexanone (MBK)	0.0200	0.01925		mg/Kg		96	70 - 130	0	30
Isopropylbenzene	0.0200	0.02175		mg/Kg		109	70 - 130	2	30
4-Isopropyltoluene	0.0200	0.02060		mg/Kg		103	70 - 130	3	30
Methyl tert-butyl ether	0.0200	0.02119		mg/Kg		106	70 - 130	5	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.02036		mg/Kg		102	70 - 130	1	30
Methylene Chloride	0.0200	0.02439		mg/Kg		122	70 - 130	3	30
Naphthalene	0.0200	0.02322		mg/Kg		116	70 - 130	7	30
N-Propylbenzene	0.0200	0.02262		mg/Kg		113	70 - 130	0	30
Styrene	0.0200	0.02260		mg/Kg		113	70 - 130	1	30
1,1,1,2-Tetrachloroethane	0.0200	0.02274		mg/Kg		114	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0200	0.02427		mg/Kg		121	70 - 130	2	30
Tetrachloroethene	0.0200	0.02304		mg/Kg		115	70 - 130	2	30
Toluene	0.0200	0.02472		mg/Kg		124	70 - 130	4	30
1,2,3-Trichlorobenzene	0.0200	0.02266		mg/Kg		113	70 - 130	8	30
1,2,4-Trichlorobenzene	0.0200	0.02237		mg/Kg		112	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0200	0.02244		mg/Kg		112	70 - 130	6	30
1,1,1-Trichloroethane	0.0200	0.02338		mg/Kg		117	70 - 130	3	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20472/2-A
Matrix: Solid
Analysis Batch: 20473

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20472

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			0.0200	0.02524		mg/Kg		126	70 - 130	3	30
Trichloroethene			0.0200	0.02439		mg/Kg		122	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02363		mg/Kg		118	70 - 130	3	30
1,2,3-Trichloropropane			0.0200	0.02342		mg/Kg		117	70 - 130	2	30
1,2,4-Trimethylbenzene			0.0200	0.02270		mg/Kg		113	70 - 130	1	30
1,3,5-Trimethylbenzene			0.0200	0.02255		mg/Kg		113	70 - 130	1	30
Vinyl chloride			0.0200	0.02145		mg/Kg		107	70 - 130	4	30
m,p-Xylene			0.0200	0.02123		mg/Kg		106	70 - 130	1	30
o-Xylene			0.0200	0.02094		mg/Kg		105	70 - 130	3	30
Tetrahydrofuran			0.0200	0.01813		mg/Kg		91	70 - 130	9	30
Ethyl ether			0.0200	0.02268		mg/Kg		113	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.02009		mg/Kg		100	70 - 130	4	30
Ethyl tert-butyl ether			0.0200	0.01990		mg/Kg		100	70 - 130	6	30
di-Isopropyl ether			0.0200	0.02076		mg/Kg		104	70 - 130	7	30
tert-Butanol			0.200	0.1985		mg/Kg		99	70 - 130	0	30
1,4-Dioxane			0.200	0.1734		mg/Kg		87	70 - 130	11	30
trans-1,4-Dichloro-2-butene			0.0200	0.02306	J	mg/Kg		115	70 - 130	0	30
Ethanol			0.400	0.4703	J	mg/Kg		118	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Acetone	0.03405	J	0.0500	0.0112	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.00500	0.00336	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20516/3-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/14/23 10:36	03/14/23 13:22	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/14/23 10:36	03/14/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/14/23 10:36*	*03/14/23 13:22*	*1*

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0160	0.01715		mg/Kg		107	70 - 130
Acetone	0.0160	0.01632	J	mg/Kg		102	70 - 130
Acrylonitrile	0.0160	0.01596		mg/Kg		100	70 - 130
Benzene	0.0160	0.01683		mg/Kg		105	70 - 130
Bromobenzene	0.0160	0.01937		mg/Kg		121	70 - 130
Bromochloromethane	0.0160	0.01781		mg/Kg		111	70 - 130
Bromodichloromethane	0.0160	0.01660		mg/Kg		104	70 - 130
Bromoform	0.0160	0.02043		mg/Kg		128	70 - 130
Bromomethane	0.0160	0.01949		mg/Kg		122	70 - 130
2-Butanone (MEK)	0.0160	0.01668		mg/Kg		104	70 - 130
n-Butylbenzene	0.0160	0.01893		mg/Kg		118	70 - 130
sec-Butylbenzene	0.0160	0.01948		mg/Kg		122	70 - 130
tert-Butylbenzene	0.0160	0.01646		mg/Kg		103	70 - 130
Carbon disulfide	0.0160	0.01708		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0160	0.01610		mg/Kg		101	70 - 130
Chlorobenzene	0.0160	0.02004		mg/Kg		125	70 - 130
Chloroethane	0.0160	0.01791		mg/Kg		112	70 - 130
Chloroform	0.0160	0.01671		mg/Kg		104	70 - 130
Chloromethane	0.0160	0.01352		mg/Kg		84	70 - 130
2-Chlorotoluene	0.0160	0.01939		mg/Kg		121	70 - 130
4-Chlorotoluene	0.0160	0.01906		mg/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	0.0160	0.02222	*+	mg/Kg		139	70 - 130
Dibromochloromethane	0.0160	0.01716		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	0.0160	0.01737		mg/Kg		109	70 - 130
Dibromomethane	0.0160	0.01698		mg/Kg		106	70 - 130
1,2-Dichlorobenzene	0.0160	0.02056		mg/Kg		128	70 - 130
1,3-Dichlorobenzene	0.0160	0.02015		mg/Kg		126	70 - 130
1,4-Dichlorobenzene	0.0160	0.02080		mg/Kg		130	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0160	0.01044	*-	mg/Kg		65	70 - 130
1,1-Dichloroethane	0.0160	0.01612		mg/Kg		101	70 - 130
1,2-Dichloroethane	0.0160	0.01594		mg/Kg		100	70 - 130
1,1-Dichloroethene	0.0160	0.01637		mg/Kg		102	70 - 130
cis-1,2-Dichloroethene	0.0160	0.01557		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0160	0.01632		mg/Kg		102	70 - 130
1,2-Dichloropropane	0.0160	0.01585		mg/Kg		99	70 - 130
1,3-Dichloropropane	0.0160	0.01650		mg/Kg		103	70 - 130
2,2-Dichloropropane	0.0160	0.01484		mg/Kg		93	70 - 130
1,1-Dichloropropene	0.0160	0.01492		mg/Kg		93	70 - 130
cis-1,3-Dichloropropene	0.0160	0.01418		mg/Kg		89	70 - 130
trans-1,3-Dichloropropene	0.0160	0.01617		mg/Kg		101	70 - 130
Ethylbenzene	0.0160	0.01900		mg/Kg		119	70 - 130
Hexachlorobutadiene	0.0160	0.01870		mg/Kg		117	70 - 130
2-Hexanone (MBK)	0.0160	0.01280		mg/Kg		80	70 - 130
Isopropylbenzene	0.0160	0.01835		mg/Kg		115	70 - 130
4-Isopropyltoluene	0.0160	0.01851		mg/Kg		116	70 - 130
Methyl tert-butyl ether	0.0160	0.01422		mg/Kg		89	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0160	0.01422		mg/Kg		89	70 - 130
Methylene Chloride	0.0160	0.01650		mg/Kg		103	70 - 130
Naphthalene	0.0160	0.01950		mg/Kg		122	70 - 130
N-Propylbenzene	0.0160	0.01959		mg/Kg		122	70 - 130
Styrene	0.0160	0.01935		mg/Kg		121	70 - 130
1,1,1,2-Tetrachloroethane	0.0160	0.01982		mg/Kg		124	70 - 130
1,1,2,2-Tetrachloroethane	0.0160	0.02161	*+	mg/Kg		135	70 - 130
Tetrachloroethene	0.0160	0.01598		mg/Kg		100	70 - 130
Toluene	0.0160	0.01722		mg/Kg		108	70 - 130
1,2,3-Trichlorobenzene	0.0160	0.02006		mg/Kg		125	70 - 130
1,2,4-Trichlorobenzene	0.0160	0.01833		mg/Kg		115	70 - 130
1,3,5-Trichlorobenzene	0.0160	0.02037		mg/Kg		127	70 - 130
1,1,1-Trichloroethane	0.0160	0.01610		mg/Kg		101	70 - 130
1,1,2-Trichloroethane	0.0160	0.01792		mg/Kg		112	70 - 130
Trichloroethene	0.0160	0.01724		mg/Kg		108	70 - 130
Trichlorofluoromethane (Freon 11)	0.0160	0.01590		mg/Kg		99	70 - 130
1,2,3-Trichloropropane	0.0160	0.02047		mg/Kg		128	70 - 130
1,2,4-Trimethylbenzene	0.0160	0.01932		mg/Kg		121	70 - 130
1,3,5-Trimethylbenzene	0.0160	0.01929		mg/Kg		121	70 - 130
Vinyl chloride	0.0160	0.01462		mg/Kg		91	70 - 130
m,p-Xylene	0.0160	0.01789		mg/Kg		112	70 - 130
o-Xylene	0.0160	0.01724		mg/Kg		108	70 - 130
Tetrahydrofuran	0.0160	0.01358		mg/Kg		85	70 - 130
Ethyl ether	0.0160	0.01581		mg/Kg		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20516/1-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tert-amyl methyl ether			0.0160	0.01394		mg/Kg		87	70 - 130		
Ethyl tert-butyl ether			0.0160	0.01296		mg/Kg		81	70 - 130		
di-Isopropyl ether			0.0160	0.01332		mg/Kg		83	70 - 130		
tert-Butanol			0.160	0.1420		mg/Kg		89	70 - 130		
1,4-Dioxane			0.160	0.1189		mg/Kg		74	70 - 130		
trans-1,4-Dichloro-2-butene			0.0160	0.01631	J	mg/Kg		102	70 - 130		
Ethanol			0.320	0.3117	J	mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0160	0.01667		mg/Kg		104	70 - 130	3	30
Acetone			0.0160	0.01605	J	mg/Kg		100	70 - 130	2	30
Acrylonitrile			0.0160	0.01566		mg/Kg		98	70 - 130	2	30
Benzene			0.0160	0.01629		mg/Kg		102	70 - 130	3	30
Bromobenzene			0.0160	0.01889		mg/Kg		118	70 - 130	3	30
Bromochloromethane			0.0160	0.01722		mg/Kg		108	70 - 130	3	30
Bromodichloromethane			0.0160	0.01610		mg/Kg		101	70 - 130	3	30
Bromoform			0.0160	0.02043		mg/Kg		128	70 - 130	0	30
Bromomethane			0.0160	0.01893		mg/Kg		118	70 - 130	3	30
2-Butanone (MEK)			0.0160	0.01654		mg/Kg		103	70 - 130	1	30
n-Butylbenzene			0.0160	0.01794		mg/Kg		112	70 - 130	5	30
sec-Butylbenzene			0.0160	0.01889		mg/Kg		118	70 - 130	3	30
tert-Butylbenzene			0.0160	0.01608		mg/Kg		101	70 - 130	2	30
Carbon disulfide			0.0160	0.01653		mg/Kg		103	70 - 130	3	30
Carbon tetrachloride			0.0160	0.01571		mg/Kg		98	70 - 130	2	30
Chlorobenzene			0.0160	0.01940		mg/Kg		121	70 - 130	3	30
Chloroethane			0.0160	0.01767		mg/Kg		110	70 - 130	1	30
Chloroform			0.0160	0.01646		mg/Kg		103	70 - 130	2	30
Chloromethane			0.0160	0.01304		mg/Kg		82	70 - 130	4	30
2-Chlorotoluene			0.0160	0.01870		mg/Kg		117	70 - 130	4	30
4-Chlorotoluene			0.0160	0.01838		mg/Kg		115	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			0.0160	0.02251	*+	mg/Kg		141	70 - 130	1	30
Dibromochloromethane			0.0160	0.01721		mg/Kg		108	70 - 130	0	30
1,2-Dibromoethane (EDB)			0.0160	0.01651		mg/Kg		103	70 - 130	5	30
Dibromomethane			0.0160	0.01656		mg/Kg		104	70 - 130	2	30
1,2-Dichlorobenzene			0.0160	0.02022		mg/Kg		126	70 - 130	2	30
1,3-Dichlorobenzene			0.0160	0.01964		mg/Kg		123	70 - 130	3	30
1,4-Dichlorobenzene			0.0160	0.01997		mg/Kg		125	70 - 130	4	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	0.0160	0.009832	J *-	mg/Kg		61	70 - 130	6	30
1,1-Dichloroethane	0.0160	0.01578		mg/Kg		99	70 - 130	2	30
1,2-Dichloroethane	0.0160	0.01544		mg/Kg		97	70 - 130	3	30
1,1-Dichloroethene	0.0160	0.01598		mg/Kg		100	70 - 130	2	30
cis-1,2-Dichloroethene	0.0160	0.01552		mg/Kg		97	70 - 130	0	30
trans-1,2-Dichloroethene	0.0160	0.01570		mg/Kg		98	70 - 130	4	30
1,2-Dichloropropane	0.0160	0.01531		mg/Kg		96	70 - 130	3	30
1,3-Dichloropropane	0.0160	0.01620		mg/Kg		101	70 - 130	2	30
2,2-Dichloropropane	0.0160	0.01469		mg/Kg		92	70 - 130	1	30
1,1-Dichloropropene	0.0160	0.01487		mg/Kg		93	70 - 130	0	30
cis-1,3-Dichloropropene	0.0160	0.01434		mg/Kg		90	70 - 130	1	30
trans-1,3-Dichloropropene	0.0160	0.01554		mg/Kg		97	70 - 130	4	30
Ethylbenzene	0.0160	0.01884		mg/Kg		118	70 - 130	1	30
Hexachlorobutadiene	0.0160	0.01868		mg/Kg		117	70 - 130	0	30
2-Hexanone (MBK)	0.0160	0.01305		mg/Kg		82	70 - 130	2	30
Isopropylbenzene	0.0160	0.01806		mg/Kg		113	70 - 130	2	30
4-Isopropyltoluene	0.0160	0.01822		mg/Kg		114	70 - 130	2	30
Methyl tert-butyl ether	0.0160	0.01431		mg/Kg		89	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	0.0160	0.01368		mg/Kg		85	70 - 130	4	30
Methylene Chloride	0.0160	0.01616		mg/Kg		101	70 - 130	2	30
Naphthalene	0.0160	0.02025		mg/Kg		127	70 - 130	4	30
N-Propylbenzene	0.0160	0.01875		mg/Kg		117	70 - 130	4	30
Styrene	0.0160	0.01881		mg/Kg		118	70 - 130	3	30
1,1,1,2-Tetrachloroethane	0.0160	0.01947		mg/Kg		122	70 - 130	2	30
1,1,2,2-Tetrachloroethane	0.0160	0.02100	*+	mg/Kg		131	70 - 130	3	30
Tetrachloroethene	0.0160	0.01583		mg/Kg		99	70 - 130	1	30
Toluene	0.0160	0.01689		mg/Kg		106	70 - 130	2	30
1,2,3-Trichlorobenzene	0.0160	0.01961		mg/Kg		123	70 - 130	2	30
1,2,4-Trichlorobenzene	0.0160	0.01800		mg/Kg		113	70 - 130	2	30
1,3,5-Trichlorobenzene	0.0160	0.01945		mg/Kg		122	70 - 130	5	30
1,1,1-Trichloroethane	0.0160	0.01583		mg/Kg		99	70 - 130	2	30
1,1,2-Trichloroethane	0.0160	0.01757		mg/Kg		110	70 - 130	2	30
Trichloroethene	0.0160	0.01656		mg/Kg		104	70 - 130	4	30
Trichlorofluoromethane (Freon 11)	0.0160	0.01549		mg/Kg		97	70 - 130	3	30
1,2,3-Trichloropropane	0.0160	0.02035		mg/Kg		127	70 - 130	1	30
1,2,4-Trimethylbenzene	0.0160	0.01861		mg/Kg		116	70 - 130	4	30
1,3,5-Trimethylbenzene	0.0160	0.01886		mg/Kg		118	70 - 130	2	30
Vinyl chloride	0.0160	0.01406		mg/Kg		88	70 - 130	4	30
m,p-Xylene	0.0160	0.01762		mg/Kg		110	70 - 130	2	30
o-Xylene	0.0160	0.01700		mg/Kg		106	70 - 130	1	30
Tetrahydrofuran	0.0160	0.01385		mg/Kg		87	70 - 130	2	30
Ethyl ether	0.0160	0.01566		mg/Kg		98	70 - 130	1	30
Tert-amyl methyl ether	0.0160	0.01370		mg/Kg		86	70 - 130	2	30
Ethyl tert-butyl ether	0.0160	0.01300		mg/Kg		81	70 - 130	0	30
di-Isopropyl ether	0.0160	0.01372		mg/Kg		86	70 - 130	3	30
tert-Butanol	0.160	0.1448		mg/Kg		91	70 - 130	2	30
1,4-Dioxane	0.160	0.1136		mg/Kg		71	70 - 130	5	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20516/2-A
Matrix: Solid
Analysis Batch: 20518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			0.0160	0.01563	J	mg/Kg		98	70 - 130	4	30
Ethanol			0.320	0.3615	J	mg/Kg		113	70 - 130	15	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 620-20572/3-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/15/23 12:58	03/15/23 13:18	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20572/3-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/15/23 12:58	03/15/23 13:18	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/15/23 12:58	03/15/23 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20572/3-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20572

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*94*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*03/15/23 12:58*	*03/15/23 13:18*	*1*

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0170	0.01888		mg/Kg		111	70 - 130
Acetone	0.0170	0.01484	J	mg/Kg		87	70 - 130
Acrylonitrile	0.0170	0.01593		mg/Kg		94	70 - 130
Benzene	0.0170	0.01762		mg/Kg		104	70 - 130
Bromobenzene	0.0170	0.02026		mg/Kg		119	70 - 130
Bromochloromethane	0.0170	0.01829		mg/Kg		108	70 - 130
Bromodichloromethane	0.0170	0.01741		mg/Kg		102	70 - 130
Bromoform	0.0170	0.02093		mg/Kg		123	70 - 130
Bromomethane	0.0170	0.02079		mg/Kg		122	70 - 130
2-Butanone (MEK)	0.0170	0.01603		mg/Kg		94	70 - 130
n-Butylbenzene	0.0170	0.02012		mg/Kg		118	70 - 130
sec-Butylbenzene	0.0170	0.02061		mg/Kg		121	70 - 130
tert-Butylbenzene	0.0170	0.01736		mg/Kg		102	70 - 130
Carbon disulfide	0.0170	0.01815		mg/Kg		107	70 - 130
Carbon tetrachloride	0.0170	0.01776		mg/Kg		104	70 - 130
Chlorobenzene	0.0170	0.02083		mg/Kg		123	70 - 130
Chloroethane	0.0170	0.01941		mg/Kg		114	70 - 130
Chloroform	0.0170	0.01786		mg/Kg		105	70 - 130
Chloromethane	0.0170	0.01335		mg/Kg		79	70 - 130
2-Chlorotoluene	0.0170	0.02014		mg/Kg		118	70 - 130
4-Chlorotoluene	0.0170	0.02021		mg/Kg		119	70 - 130
1,2-Dibromo-3-Chloropropane	0.0170	0.01969		mg/Kg		116	70 - 130
Dibromochloromethane	0.0170	0.01778		mg/Kg		105	70 - 130
1,2-Dibromoethane (EDB)	0.0170	0.01741		mg/Kg		102	70 - 130
Dibromomethane	0.0170	0.01750		mg/Kg		103	70 - 130
1,2-Dichlorobenzene	0.0170	0.02139		mg/Kg		126	70 - 130
1,3-Dichlorobenzene	0.0170	0.02136		mg/Kg		126	70 - 130
1,4-Dichlorobenzene	0.0170	0.02216		mg/Kg		130	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0170	0.009509	J *-	mg/Kg		56	70 - 130
1,1-Dichloroethane	0.0170	0.01723		mg/Kg		101	70 - 130
1,2-Dichloroethane	0.0170	0.01611		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0170	0.01821		mg/Kg		107	70 - 130
cis-1,2-Dichloroethene	0.0170	0.01654		mg/Kg		97	70 - 130
trans-1,2-Dichloroethene	0.0170	0.01737		mg/Kg		102	70 - 130
1,2-Dichloropropane	0.0170	0.01619		mg/Kg		95	70 - 130
1,3-Dichloropropane	0.0170	0.01686		mg/Kg		99	70 - 130
2,2-Dichloropropane	0.0170	0.01630		mg/Kg		96	70 - 130
1,1-Dichloropropene	0.0170	0.01610		mg/Kg		95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20572/1-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0170	0.01455		mg/Kg		86	70 - 130
trans-1,3-Dichloropropene	0.0170	0.01655		mg/Kg		97	70 - 130
Ethylbenzene	0.0170	0.02029		mg/Kg		119	70 - 130
Hexachlorobutadiene	0.0170	0.02003		mg/Kg		118	70 - 130
2-Hexanone (MBK)	0.0170	0.01206		mg/Kg		71	70 - 130
Isopropylbenzene	0.0170	0.01917		mg/Kg		113	70 - 130
4-Isopropyltoluene	0.0170	0.01994		mg/Kg		117	70 - 130
Methyl tert-butyl ether	0.0170	0.01400		mg/Kg		82	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0170	0.01357		mg/Kg		80	70 - 130
Methylene Chloride	0.0170	0.01724		mg/Kg		101	70 - 130
Naphthalene	0.0170	0.01809		mg/Kg		106	70 - 130
N-Propylbenzene	0.0170	0.02053		mg/Kg		121	70 - 130
Styrene	0.0170	0.01985		mg/Kg		117	70 - 130
1,1,1,2-Tetrachloroethane	0.0170	0.02044		mg/Kg		120	70 - 130
1,1,2,2-Tetrachloroethane	0.0170	0.02173		mg/Kg		128	70 - 130
Tetrachloroethene	0.0170	0.01745		mg/Kg		103	70 - 130
Toluene	0.0170	0.01813		mg/Kg		107	70 - 130
1,2,3-Trichlorobenzene	0.0170	0.01989		mg/Kg		117	70 - 130
1,2,4-Trichlorobenzene	0.0170	0.01866		mg/Kg		110	70 - 130
1,3,5-Trichlorobenzene	0.0170	0.02112		mg/Kg		124	70 - 130
1,1,1-Trichloroethane	0.0170	0.01738		mg/Kg		102	70 - 130
1,1,2-Trichloroethane	0.0170	0.01863		mg/Kg		110	70 - 130
Trichloroethene	0.0170	0.01869		mg/Kg		110	70 - 130
Trichlorofluoromethane (Freon 11)	0.0170	0.01729		mg/Kg		102	70 - 130
1,2,3-Trichloropropane	0.0170	0.02110		mg/Kg		124	70 - 130
1,2,4-Trimethylbenzene	0.0170	0.02021		mg/Kg		119	70 - 130
1,3,5-Trimethylbenzene	0.0170	0.02033		mg/Kg		120	70 - 130
Vinyl chloride	0.0170	0.01489		mg/Kg		88	70 - 130
m,p-Xylene	0.0170	0.01881		mg/Kg		111	70 - 130
o-Xylene	0.0170	0.01806		mg/Kg		106	70 - 130
Tetrahydrofuran	0.0170	0.01276		mg/Kg		75	70 - 130
Ethyl ether	0.0170	0.01563		mg/Kg		92	70 - 130
Tert-amyl methyl ether	0.0170	0.01358		mg/Kg		80	70 - 130
Ethyl tert-butyl ether	0.0170	0.01294		mg/Kg		76	70 - 130
di-Isopropyl ether	0.0170	0.01360		mg/Kg		80	70 - 130
tert-Butanol	0.170	0.1222		mg/Kg		72	70 - 130
1,4-Dioxane	0.170	0.1200		mg/Kg		71	70 - 130
trans-1,4-Dichloro-2-butene	0.0170	0.01642	J	mg/Kg		97	70 - 130
Ethanol	0.340	0.2853	J	mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0170	0.01838		mg/Kg		108	70 - 130	3	30
Acetone	0.0170	0.01490	J	mg/Kg		88	70 - 130	0	30
Acrylonitrile	0.0170	0.01679		mg/Kg		99	70 - 130	5	30
Benzene	0.0170	0.01714		mg/Kg		101	70 - 130	3	30
Bromobenzene	0.0170	0.01944		mg/Kg		114	70 - 130	4	30
Bromochloromethane	0.0170	0.01801		mg/Kg		106	70 - 130	2	30
Bromodichloromethane	0.0170	0.01716		mg/Kg		101	70 - 130	1	30
Bromoform	0.0170	0.02087		mg/Kg		123	70 - 130	0	30
Bromomethane	0.0170	0.01887		mg/Kg		111	70 - 130	10	30
2-Butanone (MEK)	0.0170	0.01805		mg/Kg		106	70 - 130	12	30
n-Butylbenzene	0.0170	0.01972		mg/Kg		116	70 - 130	2	30
sec-Butylbenzene	0.0170	0.01993		mg/Kg		117	70 - 130	3	30
tert-Butylbenzene	0.0170	0.01682		mg/Kg		99	70 - 130	3	30
Carbon disulfide	0.0170	0.01769		mg/Kg		104	70 - 130	3	30
Carbon tetrachloride	0.0170	0.01713		mg/Kg		101	70 - 130	4	30
Chlorobenzene	0.0170	0.02003		mg/Kg		118	70 - 130	4	30
Chloroethane	0.0170	0.01785		mg/Kg		105	70 - 130	8	30
Chloroform	0.0170	0.01752		mg/Kg		103	70 - 130	2	30
Chloromethane	0.0170	0.01308		mg/Kg		77	70 - 130	2	30
2-Chlorotoluene	0.0170	0.01952		mg/Kg		115	70 - 130	3	30
4-Chlorotoluene	0.0170	0.01955		mg/Kg		115	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	0.0170	0.02136		mg/Kg		126	70 - 130	8	30
Dibromochloromethane	0.0170	0.01733		mg/Kg		102	70 - 130	3	30
1,2-Dibromoethane (EDB)	0.0170	0.01769		mg/Kg		104	70 - 130	2	30
Dibromomethane	0.0170	0.01740		mg/Kg		102	70 - 130	1	30
1,2-Dichlorobenzene	0.0170	0.02127		mg/Kg		125	70 - 130	1	30
1,3-Dichlorobenzene	0.0170	0.02064		mg/Kg		121	70 - 130	3	30
1,4-Dichlorobenzene	0.0170	0.02155		mg/Kg		127	70 - 130	3	30
Dichlorodifluoromethane (Freon 12)	0.0170	0.009106	J *-	mg/Kg		54	70 - 130	4	30
1,1-Dichloroethane	0.0170	0.01673		mg/Kg		98	70 - 130	3	30
1,2-Dichloroethane	0.0170	0.01643		mg/Kg		97	70 - 130	2	30
1,1-Dichloroethene	0.0170	0.01788		mg/Kg		105	70 - 130	2	30
cis-1,2-Dichloroethene	0.0170	0.01621		mg/Kg		95	70 - 130	2	30
trans-1,2-Dichloroethene	0.0170	0.01684		mg/Kg		99	70 - 130	3	30
1,2-Dichloropropane	0.0170	0.01600		mg/Kg		94	70 - 130	1	30
1,3-Dichloropropane	0.0170	0.01667		mg/Kg		98	70 - 130	1	30
2,2-Dichloropropane	0.0170	0.01583		mg/Kg		93	70 - 130	3	30
1,1-Dichloropropene	0.0170	0.01594		mg/Kg		94	70 - 130	1	30
cis-1,3-Dichloropropene	0.0170	0.01451		mg/Kg		85	70 - 130	0	30
trans-1,3-Dichloropropene	0.0170	0.01675		mg/Kg		99	70 - 130	1	30
Ethylbenzene	0.0170	0.01944		mg/Kg		114	70 - 130	4	30
Hexachlorobutadiene	0.0170	0.02009		mg/Kg		118	70 - 130	0	30
2-Hexanone (MBK)	0.0170	0.01324		mg/Kg		78	70 - 130	9	30
Isopropylbenzene	0.0170	0.01869		mg/Kg		110	70 - 130	3	30
4-Isopropyltoluene	0.0170	0.01940		mg/Kg		114	70 - 130	3	30
Methyl tert-butyl ether	0.0170	0.01423		mg/Kg		84	70 - 130	2	30
4-Methyl-2-pentanone (MIBK)	0.0170	0.01438		mg/Kg		85	70 - 130	6	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20572/2-A
Matrix: Solid
Analysis Batch: 20544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			0.0170	0.01687		mg/Kg		99	70 - 130	2	30
Naphthalene			0.0170	0.02059		mg/Kg		121	70 - 130	13	30
N-Propylbenzene			0.0170	0.01997		mg/Kg		117	70 - 130	3	30
Styrene			0.0170	0.01930		mg/Kg		114	70 - 130	3	30
1,1,1,2-Tetrachloroethane			0.0170	0.01982		mg/Kg		117	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0170	0.02216		mg/Kg		130	70 - 130	2	30
Tetrachloroethene			0.0170	0.01661		mg/Kg		98	70 - 130	5	30
Toluene			0.0170	0.01774		mg/Kg		104	70 - 130	2	30
1,2,3-Trichlorobenzene			0.0170	0.02107		mg/Kg		124	70 - 130	6	30
1,2,4-Trichlorobenzene			0.0170	0.01973		mg/Kg		116	70 - 130	6	30
1,3,5-Trichlorobenzene			0.0170	0.02098		mg/Kg		123	70 - 130	1	30
1,1,1-Trichloroethane			0.0170	0.01709		mg/Kg		101	70 - 130	2	30
1,1,2-Trichloroethane			0.0170	0.01796		mg/Kg		106	70 - 130	4	30
Trichloroethene			0.0170	0.01768		mg/Kg		104	70 - 130	6	30
Trichlorofluoromethane (Freon 11)			0.0170	0.01688		mg/Kg		99	70 - 130	2	30
1,2,3-Trichloropropane			0.0170	0.02117		mg/Kg		125	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0170	0.01966		mg/Kg		116	70 - 130	3	30
1,3,5-Trimethylbenzene			0.0170	0.01955		mg/Kg		115	70 - 130	4	30
Vinyl chloride			0.0170	0.01381		mg/Kg		81	70 - 130	8	30
m,p-Xylene			0.0170	0.01840		mg/Kg		108	70 - 130	2	30
o-Xylene			0.0170	0.01773		mg/Kg		104	70 - 130	2	30
Tetrahydrofuran			0.0170	0.01356		mg/Kg		80	70 - 130	6	30
Ethyl ether			0.0170	0.01603		mg/Kg		94	70 - 130	3	30
Tert-amyl methyl ether			0.0170	0.01381		mg/Kg		81	70 - 130	2	30
Ethyl tert-butyl ether			0.0170	0.01330		mg/Kg		78	70 - 130	3	30
di-Isopropyl ether			0.0170	0.01407		mg/Kg		83	70 - 130	3	30
tert-Butanol			0.170	0.1410		mg/Kg		83	70 - 130	14	30
1,4-Dioxane			0.170	0.1271		mg/Kg		75	70 - 130	6	30
trans-1,4-Dichloro-2-butene			0.0170	0.01699	J	mg/Kg		100	70 - 130	3	30
Ethanol			0.340	0.3128	J	mg/Kg		92	70 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Acetone	0.02970	J	0.0500	0.0112	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/16/23 16:25	03/16/23 21:45	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/16/23 16:25	03/16/23 21:45	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20616/3-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.00500	0.00317	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/16/23 16:25	03/16/23 21:45	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/16/23 16:25	03/16/23 21:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*	*03/16/23 16:25*	*03/16/23 21:45*	*1*

Lab Sample ID: LCS 620-20616/1-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.01803		mg/Kg		90	70 - 130
Acetone	0.0200	0.01816	J	mg/Kg		91	70 - 130
Acrylonitrile	0.0200	0.01931		mg/Kg		97	70 - 130
Benzene	0.0200	0.01924		mg/Kg		96	70 - 130
Bromobenzene	0.0200	0.01786		mg/Kg		89	70 - 130
Bromochloromethane	0.0200	0.01914		mg/Kg		96	70 - 130
Bromodichloromethane	0.0200	0.02073		mg/Kg		104	70 - 130
Bromoform	0.0200	0.01981		mg/Kg		99	70 - 130
Bromomethane	0.0200	0.01653		mg/Kg		83	70 - 130
2-Butanone (MEK)	0.0200	0.01602		mg/Kg		80	70 - 130
n-Butylbenzene	0.0200	0.01855		mg/Kg		93	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20616/1-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	0.0200	0.01838		mg/Kg		92	70 - 130
tert-Butylbenzene	0.0200	0.01802		mg/Kg		90	70 - 130
Carbon disulfide	0.0200	0.01735		mg/Kg		87	70 - 130
Carbon tetrachloride	0.0200	0.01857		mg/Kg		93	70 - 130
Chlorobenzene	0.0200	0.02036		mg/Kg		102	70 - 130
Chloroethane	0.0200	0.01577		mg/Kg		79	70 - 130
Chloroform	0.0200	0.01906		mg/Kg		95	70 - 130
Chloromethane	0.0200	0.01921		mg/Kg		96	70 - 130
2-Chlorotoluene	0.0200	0.01859		mg/Kg		93	70 - 130
4-Chlorotoluene	0.0200	0.01818		mg/Kg		91	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.01902		mg/Kg		95	70 - 130
Dibromochloromethane	0.0200	0.02043		mg/Kg		102	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.01910		mg/Kg		96	70 - 130
Dibromomethane	0.0200	0.01952		mg/Kg		98	70 - 130
1,2-Dichlorobenzene	0.0200	0.01914		mg/Kg		96	70 - 130
1,3-Dichlorobenzene	0.0200	0.01796		mg/Kg		90	70 - 130
1,4-Dichlorobenzene	0.0200	0.01889		mg/Kg		94	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.01289	*-	mg/Kg		64	70 - 130
1,1-Dichloroethane	0.0200	0.02035		mg/Kg		102	70 - 130
1,2-Dichloroethane	0.0200	0.01890		mg/Kg		95	70 - 130
1,1-Dichloroethene	0.0200	0.01926		mg/Kg		96	70 - 130
cis-1,2-Dichloroethene	0.0200	0.01950		mg/Kg		98	70 - 130
trans-1,2-Dichloroethene	0.0200	0.01937		mg/Kg		97	70 - 130
1,2-Dichloropropane	0.0200	0.02084		mg/Kg		104	70 - 130
1,3-Dichloropropane	0.0200	0.01822		mg/Kg		91	70 - 130
2,2-Dichloropropane	0.0200	0.01862		mg/Kg		93	70 - 130
1,1-Dichloropropene	0.0200	0.01716		mg/Kg		86	70 - 130
cis-1,3-Dichloropropene	0.0200	0.01748		mg/Kg		87	70 - 130
trans-1,3-Dichloropropene	0.0200	0.01870		mg/Kg		94	70 - 130
Ethylbenzene	0.0200	0.01943		mg/Kg		97	70 - 130
Hexachlorobutadiene	0.0200	0.01709		mg/Kg		85	70 - 130
2-Hexanone (MBK)	0.0200	0.01638		mg/Kg		82	70 - 130
Isopropylbenzene	0.0200	0.01828		mg/Kg		91	70 - 130
4-Isopropyltoluene	0.0200	0.01771		mg/Kg		89	70 - 130
Methyl tert-butyl ether	0.0200	0.01782		mg/Kg		89	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.01579		mg/Kg		79	70 - 130
Methylene Chloride	0.0200	0.01801		mg/Kg		90	70 - 130
Naphthalene	0.0200	0.01935		mg/Kg		97	70 - 130
N-Propylbenzene	0.0200	0.01862		mg/Kg		93	70 - 130
Styrene	0.0200	0.01907		mg/Kg		95	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.01909		mg/Kg		95	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02046		mg/Kg		102	70 - 130
Tetrachloroethene	0.0200	0.01796		mg/Kg		90	70 - 130
Toluene	0.0200	0.01885		mg/Kg		94	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.01882		mg/Kg		94	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.01788		mg/Kg		89	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.01765		mg/Kg		88	70 - 130
1,1,1-Trichloroethane	0.0200	0.01934		mg/Kg		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20616/1-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20616

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,2-Trichloroethane			0.0200	0.02038		mg/Kg		102	70 - 130		
Trichloroethene			0.0200	0.01822		mg/Kg		91	70 - 130		
Trichlorofluoromethane (Freon 11)			0.0200	0.01970		mg/Kg		98	70 - 130		
1,2,3-Trichloropropane			0.0200	0.01853		mg/Kg		93	70 - 130		
1,2,4-Trimethylbenzene			0.0200	0.01857		mg/Kg		93	70 - 130		
1,3,5-Trimethylbenzene			0.0200	0.01882		mg/Kg		94	70 - 130		
Vinyl chloride			0.0200	0.01743		mg/Kg		87	70 - 130		
m,p-Xylene			0.0400	0.04174		mg/Kg		104	70 - 130		
o-Xylene			0.0200	0.01908		mg/Kg		95	70 - 130		
Tetrahydrofuran			0.0200	0.01838		mg/Kg		92	70 - 130		
Ethyl ether			0.0200	0.01721		mg/Kg		86	70 - 130		
Tert-amyl methyl ether			0.0200	0.01811		mg/Kg		91	70 - 130		
Ethyl tert-butyl ether			0.0200	0.01744		mg/Kg		87	70 - 130		
di-Isopropyl ether			0.0200	0.01764		mg/Kg		88	70 - 130		
tert-Butanol			0.200	0.1820		mg/Kg		91	70 - 130		
1,4-Dioxane			0.200	0.1904		mg/Kg		95	70 - 130		
trans-1,4-Dichloro-2-butene			0.0200	0.02067	J	mg/Kg		103	70 - 130		
Ethanol			0.400	0.4020	J	mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 620-20616/2-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)			0.0200	0.01715		mg/Kg		86	70 - 130	5	30
Acetone			0.0200	0.01920	J	mg/Kg		96	70 - 130	6	30
Acrylonitrile			0.0200	0.01872		mg/Kg		94	70 - 130	3	30
Benzene			0.0200	0.01923		mg/Kg		96	70 - 130	0	30
Bromobenzene			0.0200	0.01785		mg/Kg		89	70 - 130	0	30
Bromochloromethane			0.0200	0.01910		mg/Kg		95	70 - 130	0	30
Bromodichloromethane			0.0200	0.02078		mg/Kg		104	70 - 130	0	30
Bromoform			0.0200	0.01995		mg/Kg		100	70 - 130	1	30
Bromomethane			0.0200	0.01632		mg/Kg		82	70 - 130	1	30
2-Butanone (MEK)			0.0200	0.01676		mg/Kg		84	70 - 130	5	30
n-Butylbenzene			0.0200	0.01867		mg/Kg		93	70 - 130	1	30
sec-Butylbenzene			0.0200	0.01844		mg/Kg		92	70 - 130	0	30
tert-Butylbenzene			0.0200	0.01822		mg/Kg		91	70 - 130	1	30
Carbon disulfide			0.0200	0.01649		mg/Kg		82	70 - 130	5	30
Carbon tetrachloride			0.0200	0.01833		mg/Kg		92	70 - 130	1	30
Chlorobenzene			0.0200	0.02042		mg/Kg		102	70 - 130	0	30
Chloroethane			0.0200	0.01560		mg/Kg		78	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20616/2-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroform			0.0200	0.01900		mg/Kg		95	70 - 130	0	30
Chloromethane			0.0200	0.01933		mg/Kg		97	70 - 130	1	30
2-Chlorotoluene			0.0200	0.01840		mg/Kg		92	70 - 130	1	30
4-Chlorotoluene			0.0200	0.01830		mg/Kg		92	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			0.0200	0.02034		mg/Kg		102	70 - 130	7	30
Dibromochloromethane			0.0200	0.02005		mg/Kg		100	70 - 130	2	30
1,2-Dibromoethane (EDB)			0.0200	0.01887		mg/Kg		94	70 - 130	1	30
Dibromomethane			0.0200	0.01931		mg/Kg		97	70 - 130	1	30
1,2-Dichlorobenzene			0.0200	0.01907		mg/Kg		95	70 - 130	0	30
1,3-Dichlorobenzene			0.0200	0.01813		mg/Kg		91	70 - 130	1	30
1,4-Dichlorobenzene			0.0200	0.01907		mg/Kg		95	70 - 130	1	30
Dichlorodifluoromethane (Freon 12)			0.0200	0.01283	*-	mg/Kg		64	70 - 130	0	30
1,1-Dichloroethane			0.0200	0.02011		mg/Kg		101	70 - 130	1	30
1,2-Dichloroethane			0.0200	0.01876		mg/Kg		94	70 - 130	1	30
1,1-Dichloroethene			0.0200	0.01855		mg/Kg		93	70 - 130	4	30
cis-1,2-Dichloroethene			0.0200	0.01945		mg/Kg		97	70 - 130	0	30
trans-1,2-Dichloroethene			0.0200	0.01960		mg/Kg		98	70 - 130	1	30
1,2-Dichloropropane			0.0200	0.02085		mg/Kg		104	70 - 130	0	30
1,3-Dichloropropane			0.0200	0.01799		mg/Kg		90	70 - 130	1	30
2,2-Dichloropropane			0.0200	0.01842		mg/Kg		92	70 - 130	1	30
1,1-Dichloropropene			0.0200	0.01728		mg/Kg		86	70 - 130	1	30
cis-1,3-Dichloropropene			0.0200	0.01773		mg/Kg		89	70 - 130	1	30
trans-1,3-Dichloropropene			0.0200	0.01841		mg/Kg		92	70 - 130	2	30
Ethylbenzene			0.0200	0.01964		mg/Kg		98	70 - 130	1	30
Hexachlorobutadiene			0.0200	0.01727		mg/Kg		86	70 - 130	1	30
2-Hexanone (MBK)			0.0200	0.01570		mg/Kg		78	70 - 130	4	30
Isopropylbenzene			0.0200	0.01846		mg/Kg		92	70 - 130	1	30
4-Isopropyltoluene			0.0200	0.01789		mg/Kg		89	70 - 130	1	30
Methyl tert-butyl ether			0.0200	0.01762		mg/Kg		88	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)			0.0200	0.01631		mg/Kg		82	70 - 130	3	30
Methylene Chloride			0.0200	0.01806		mg/Kg		90	70 - 130	0	30
Naphthalene			0.0200	0.02041		mg/Kg		102	70 - 130	5	30
N-Propylbenzene			0.0200	0.01859		mg/Kg		93	70 - 130	0	30
Styrene			0.0200	0.01917		mg/Kg		96	70 - 130	1	30
1,1,1,2-Tetrachloroethane			0.0200	0.01918		mg/Kg		96	70 - 130	1	30
1,1,2,2-Tetrachloroethane			0.0200	0.02057		mg/Kg		103	70 - 130	1	30
Tetrachloroethene			0.0200	0.01812		mg/Kg		91	70 - 130	1	30
Toluene			0.0200	0.01867		mg/Kg		93	70 - 130	1	30
1,2,3-Trichlorobenzene			0.0200	0.01928		mg/Kg		96	70 - 130	2	30
1,2,4-Trichlorobenzene			0.0200	0.01818		mg/Kg		91	70 - 130	2	30
1,3,5-Trichlorobenzene			0.0200	0.01780		mg/Kg		89	70 - 130	1	30
1,1,1-Trichloroethane			0.0200	0.01914		mg/Kg		96	70 - 130	1	30
1,1,2-Trichloroethane			0.0200	0.02029		mg/Kg		101	70 - 130	0	30
Trichloroethene			0.0200	0.01850		mg/Kg		93	70 - 130	2	30
Trichlorofluoromethane (Freon 11)			0.0200	0.01958		mg/Kg		98	70 - 130	1	30
1,2,3-Trichloropropane			0.0200	0.01854		mg/Kg		93	70 - 130	0	30
1,2,4-Trimethylbenzene			0.0200	0.01859		mg/Kg		93	70 - 130	0	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20616/2-A
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0200	0.01863		mg/Kg		93	70 - 130	1	30
Vinyl chloride			0.0200	0.01731		mg/Kg		87	70 - 130	1	30
m,p-Xylene			0.0400	0.04198		mg/Kg		105	70 - 130	1	30
o-Xylene			0.0200	0.01911		mg/Kg		96	70 - 130	0	30
Tetrahydrofuran			0.0200	0.01834		mg/Kg		92	70 - 130	0	30
Ethyl ether			0.0200	0.01708		mg/Kg		85	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.01780		mg/Kg		89	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.01760		mg/Kg		88	70 - 130	1	30
di-Isopropyl ether			0.0200	0.01767		mg/Kg		88	70 - 130	0	30
tert-Butanol			0.200	0.1841		mg/Kg		92	70 - 130	1	30
1,4-Dioxane			0.200	0.1957		mg/Kg		98	70 - 130	3	30
trans-1,4-Dichloro-2-butene			0.0200	0.01973	J	mg/Kg		99	70 - 130	5	30
Ethanol			0.400	0.4058	J	mg/Kg		101	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1 F2	0.0181	0.01613		mg/Kg	☼	89	70 - 130
Acetone	0.0118	J F1 B F2	0.0181	0.02261	J F1	mg/Kg	☼	60	70 - 130
Acrylonitrile	ND	F1	0.0181	0.01759		mg/Kg	☼	97	70 - 130
Benzene	ND	F2	0.0181	0.01526		mg/Kg	☼	84	70 - 130
Bromobenzene	ND	F2	0.0181	0.01413		mg/Kg	☼	78	70 - 130
Bromochloromethane	ND		0.0181	0.01582		mg/Kg	☼	87	70 - 130
Bromodichloromethane	ND	F1 F2	0.0181	0.01724		mg/Kg	☼	95	70 - 130
Bromoform	ND		0.0181	0.01749		mg/Kg	☼	96	70 - 130
Bromomethane	ND	F1 F2	0.0181	0.01248	F1	mg/Kg	☼	69	70 - 130
2-Butanone (MEK)	ND		0.0181	0.01704		mg/Kg	☼	94	70 - 130
n-Butylbenzene	ND	F1 F2	0.0181	0.01323		mg/Kg	☼	73	70 - 130
sec-Butylbenzene	ND	F1 F2	0.0181	0.01388		mg/Kg	☼	76	70 - 130
tert-Butylbenzene	ND	F2	0.0181	0.01276		mg/Kg	☼	70	70 - 130
Carbon disulfide	ND	F1 F2	0.0181	0.01417		mg/Kg	☼	78	70 - 130
Carbon tetrachloride	ND	F2	0.0181	0.01509		mg/Kg	☼	83	70 - 130
Chlorobenzene	ND	F1 F2	0.0181	0.01715		mg/Kg	☼	95	70 - 130
Chloroethane	ND	F1 F2	0.0181	0.01375		mg/Kg	☼	76	70 - 130
Chloroform	ND	F2	0.0181	0.01576		mg/Kg	☼	87	70 - 130
Chloromethane	ND	F1 F2	0.0181	0.01536		mg/Kg	☼	85	70 - 130
2-Chlorotoluene	ND	F2	0.0181	0.01400		mg/Kg	☼	77	70 - 130
4-Chlorotoluene	ND	F2	0.0181	0.01403		mg/Kg	☼	77	70 - 130
1,2-Dibromo-3-Chloropropane	ND	F2	0.0181	0.01405		mg/Kg	☼	77	70 - 130
Dibromochloromethane	ND		0.0181	0.01670		mg/Kg	☼	92	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	ND		0.0181	0.01632		mg/Kg	☼	90	70 - 130
Dibromomethane	ND		0.0181	0.01671		mg/Kg	☼	92	70 - 130
1,2-Dichlorobenzene	ND	F2	0.0181	0.01434		mg/Kg	☼	79	70 - 130
1,3-Dichlorobenzene	ND	F2	0.0181	0.01437		mg/Kg	☼	79	70 - 130
1,4-Dichlorobenzene	ND	F1 F2	0.0181	0.01517		mg/Kg	☼	84	70 - 130
Dichlorodifluoromethane (Freon 12)	ND	*- F1 F2	0.0181	0.01164	F1	mg/Kg	☼	64	70 - 130
1,1-Dichloroethane	ND	F1 F2	0.0181	0.01625		mg/Kg	☼	90	70 - 130
1,2-Dichloroethane	ND	F2	0.0181	0.01614		mg/Kg	☼	89	70 - 130
1,1-Dichloroethene	ND	F1 F2	0.0181	0.01443		mg/Kg	☼	80	70 - 130
cis-1,2-Dichloroethene	ND	F2	0.0181	0.01452		mg/Kg	☼	80	70 - 130
trans-1,2-Dichloroethene	ND	F1 F2	0.0181	0.01456		mg/Kg	☼	80	70 - 130
1,2-Dichloropropane	ND	F1 F2	0.0181	0.01680		mg/Kg	☼	93	70 - 130
1,3-Dichloropropane	ND	F2	0.0181	0.01502		mg/Kg	☼	83	70 - 130
2,2-Dichloropropane	ND	F2	0.0181	0.01408		mg/Kg	☼	78	70 - 130
1,1-Dichloropropene	ND	F1 F2	0.0181	0.01228	F1	mg/Kg	☼	68	70 - 130
cis-1,3-Dichloropropene	ND	F1 F2	0.0181	0.01233	F1	mg/Kg	☼	68	70 - 130
trans-1,3-Dichloropropene	ND	F2	0.0181	0.01421		mg/Kg	☼	78	70 - 130
Ethylbenzene	ND	F1 F2	0.0181	0.01570		mg/Kg	☼	87	70 - 130
Hexachlorobutadiene	ND	F1 F2	0.0181	0.01023	F1	mg/Kg	☼	56	70 - 130
2-Hexanone (MBK)	ND	F1 F2	0.0181	0.01091	F1	mg/Kg	☼	60	70 - 130
Isopropylbenzene	ND	F2	0.0181	0.01324		mg/Kg	☼	73	70 - 130
4-Isopropyltoluene	ND	F1 F2	0.0181	0.01245	F1	mg/Kg	☼	69	70 - 130
Methyl tert-butyl ether	ND	F1 F2	0.0181	0.01250	F1	mg/Kg	☼	69	70 - 130
4-Methyl-2-pentanone (MIBK)	ND	F2	0.0181	0.01298		mg/Kg	☼	72	70 - 130
Methylene Chloride	ND	F2	0.0181	0.01612		mg/Kg	☼	89	70 - 130
Naphthalene	ND	F1 F2	0.0181	0.007892	F1	mg/Kg	☼	43	70 - 130
N-Propylbenzene	ND	F1 F2	0.0181	0.01493		mg/Kg	☼	82	70 - 130
Styrene	ND	F2	0.0181	0.01316		mg/Kg	☼	73	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0181	0.01620		mg/Kg	☼	89	70 - 130
1,1,2,2-Tetrachloroethane	ND	F1	0.0181	0.02051		mg/Kg	☼	113	70 - 130
Tetrachloroethene	ND	F2	0.0181	0.01437		mg/Kg	☼	79	70 - 130
Toluene	ND	F2	0.0181	0.01520		mg/Kg	☼	84	70 - 130
1,2,3-Trichlorobenzene	ND	F1 F2	0.0181	0.009312	F1	mg/Kg	☼	51	70 - 130
1,2,4-Trichlorobenzene	ND	F1 F2	0.0181	0.009160	F1	mg/Kg	☼	50	70 - 130
1,3,5-Trichlorobenzene	ND	F1 F2	0.0181	0.01029	F1	mg/Kg	☼	57	70 - 130
1,1,1-Trichloroethane	ND	F2	0.0181	0.01550		mg/Kg	☼	85	70 - 130
1,1,2-Trichloroethane	ND	F1	0.0181	0.01859		mg/Kg	☼	102	70 - 130
Trichloroethene	ND	F2	0.0181	0.01347		mg/Kg	☼	74	70 - 130
Trichlorofluoromethane (Freon 11)	ND	F1 F2	0.0181	0.01592		mg/Kg	☼	88	70 - 130
1,2,3-Trichloropropane	ND		0.0181	0.01838		mg/Kg	☼	101	70 - 130
1,2,4-Trimethylbenzene	ND	F2	0.0181	0.01382		mg/Kg	☼	76	70 - 130
1,3,5-Trimethylbenzene	ND	F2	0.0181	0.01438		mg/Kg	☼	79	70 - 130
Vinyl chloride	ND	F1 F2	0.0181	0.01392		mg/Kg	☼	77	70 - 130
m,p-Xylene	ND	F1 F2	0.0363	0.03342		mg/Kg	☼	92	70 - 130
o-Xylene	ND	F2	0.0181	0.01396		mg/Kg	☼	77	70 - 130
Tetrahydrofuran	ND	F1 F2	0.0181	0.01494		mg/Kg	☼	82	70 - 130
Ethyl ether	ND	F2	0.0181	0.01298		mg/Kg	☼	72	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	ND	F2	0.0181	0.01329		mg/Kg	☼	73	70 - 130
Ethyl tert-butyl ether	ND	F1 F2	0.0181	0.01241	F1	mg/Kg	☼	68	70 - 130
di-Isopropyl ether	ND	F1 F2	0.0181	0.01237	F1	mg/Kg	☼	68	70 - 130
tert-Butanol	ND	F2	0.181	0.1554		mg/Kg	☼	86	70 - 130
1,4-Dioxane	ND		0.181	0.1644		mg/Kg	☼	91	70 - 130
trans-1,4-Dichloro-2-butene	ND	F2	0.0181	0.01400	J	mg/Kg	☼	77	70 - 130
Ethanol	ND	F1 F2	0.363	0.3101	J	mg/Kg	☼	85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0266	0.02762		mg/Kg	☼	104	70 - 130	19	30
Acetone	ND	F2	0.0266	0.03236	J F2	mg/Kg	☼	122	70 - 130	52	30
Acrylonitrile	ND		0.0266	0.02708		mg/Kg	☼	102	70 - 130	22	30
Benzene	ND		0.0266	0.02614		mg/Kg	☼	98	70 - 130	18	30
Bromobenzene	ND		0.0266	0.01882		mg/Kg	☼	71	70 - 130	7	30
Bromochloromethane	ND		0.0266	0.02613		mg/Kg	☼	98	70 - 130	28	30
Bromodichloromethane	ND		0.0266	0.02816		mg/Kg	☼	106	70 - 130	21	30
Bromoform	ND	F2	0.0266	0.02709	F2	mg/Kg	☼	102	70 - 130	35	30
Bromomethane	ND	*+ F2	0.0266	0.01895	F2	mg/Kg	☼	71	70 - 130	35	30
2-Butanone (MEK)	ND		0.0266	0.02585		mg/Kg	☼	97	70 - 130	28	30
n-Butylbenzene	ND	F2 F1	0.0266	0.01229	J F2 F1	mg/Kg	☼	46	70 - 130	59	30
sec-Butylbenzene	ND	F1	0.0266	0.01574	F1	mg/Kg	☼	59	70 - 130	29	30
tert-Butylbenzene	ND	F1	0.0266	0.01592	F1	mg/Kg	☼	60	70 - 130	19	30
Carbon disulfide	ND		0.0266	0.02412		mg/Kg	☼	91	70 - 130	10	30
Carbon tetrachloride	ND		0.0266	0.02613		mg/Kg	☼	98	70 - 130	24	30
Chlorobenzene	ND		0.0266	0.02408		mg/Kg	☼	91	70 - 130	1	30
Chloroethane	ND	*+ F2 F1	0.0266	0.02029	F2	mg/Kg	☼	76	70 - 130	46	30
Chloroform	ND		0.0266	0.02614		mg/Kg	☼	98	70 - 130	22	30
Chloromethane	ND		0.0266	0.02559		mg/Kg	☼	96	70 - 130	9	30
2-Chlorotoluene	ND	F1	0.0266	0.01770	F1	mg/Kg	☼	67	70 - 130	10	30
4-Chlorotoluene	ND	F1	0.0266	0.01681	F1	mg/Kg	☼	63	70 - 130	16	30
1,2-Dibromo-3-Chloropropane	ND		0.0266	0.02340		mg/Kg	☼	88	70 - 130	26	30
Dibromochloromethane	ND		0.0266	0.02721		mg/Kg	☼	102	70 - 130	27	30
1,2-Dibromoethane (EDB)	ND		0.0266	0.02573		mg/Kg	☼	97	70 - 130	27	30
Dibromomethane	ND		0.0266	0.02707		mg/Kg	☼	102	70 - 130	23	30
1,2-Dichlorobenzene	ND	F1	0.0266	0.01843	F1	mg/Kg	☼	69	70 - 130	8	30
1,3-Dichlorobenzene	ND	F1	0.0266	0.01692	F1	mg/Kg	☼	64	70 - 130	8	30
1,4-Dichlorobenzene	ND	F1	0.0266	0.01778	F1	mg/Kg	☼	67	70 - 130	19	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	ND	F1	0.0266	0.02044		mg/Kg	☼	77	70 - 130	24	30
1,1-Dichloroethane	ND		0.0266	0.02801		mg/Kg	☼	105	70 - 130	17	30
1,2-Dichloroethane	ND		0.0266	0.02626		mg/Kg	☼	99	70 - 130	22	30
1,1-Dichloroethene	ND		0.0266	0.02426		mg/Kg	☼	91	70 - 130	6	30
cis-1,2-Dichloroethene	ND		0.0266	0.02472		mg/Kg	☼	93	70 - 130	13	30
trans-1,2-Dichloroethene	ND		0.0266	0.02657		mg/Kg	☼	100	70 - 130	15	30
1,2-Dichloropropane	ND		0.0266	0.02714		mg/Kg	☼	102	70 - 130	12	30
1,3-Dichloropropane	ND		0.0266	0.02435		mg/Kg	☼	92	70 - 130	18	30
2,2-Dichloropropane	ND		0.0266	0.02520		mg/Kg	☼	95	70 - 130	20	30
1,1-Dichloropropene	ND		0.0266	0.02239		mg/Kg	☼	84	70 - 130	6	30
cis-1,3-Dichloropropene	ND		0.0266	0.02058		mg/Kg	☼	77	70 - 130	3	30
trans-1,3-Dichloropropene	ND		0.0266	0.02375		mg/Kg	☼	89	70 - 130	16	30
Ethylbenzene	ND		0.0266	0.02171		mg/Kg	☼	82	70 - 130	3	30
Hexachlorobutadiene	ND	F2 F1	0.0266	0.009484	J F2 F1	mg/Kg	☼	36	70 - 130	47	30
2-Hexanone (MBK)	ND		0.0266	0.02067		mg/Kg	☼	78	70 - 130	11	30
Isopropylbenzene	ND	F1	0.0266	0.01758	F1	mg/Kg	☼	66	70 - 130	15	30
4-Isopropyltoluene	ND	F2 F1	0.0266	0.01294	F2 F1	mg/Kg	☼	49	70 - 130	47	30
Methyl tert-butyl ether	ND		0.0266	0.02204		mg/Kg	☼	83	70 - 130	15	30
4-Methyl-2-pentanone (MIBK)	ND		0.0266	0.02397		mg/Kg	☼	90	70 - 130	20	30
Methylene Chloride	ND		0.0266	0.02647		mg/Kg	☼	100	70 - 130	19	30
Naphthalene	ND	F1	0.0266	0.01288	F1	mg/Kg	☼	48	70 - 130	26	30
N-Propylbenzene	ND	F1	0.0266	0.01738	F1	mg/Kg	☼	65	70 - 130	21	30
Styrene	ND		0.0266	0.02000		mg/Kg	☼	75	70 - 130	0	30
1,1,1,2-Tetrachloroethane	ND		0.0266	0.02425		mg/Kg	☼	91	70 - 130	21	30
1,1,2,2-Tetrachloroethane	ND	F2	0.0266	0.03115	F2	mg/Kg	☼	117	70 - 130	31	30
Tetrachloroethene	ND		0.0266	0.02186		mg/Kg	☼	82	70 - 130	14	30
Toluene	ND		0.0266	0.02402		mg/Kg	☼	90	70 - 130	12	30
1,2,3-Trichlorobenzene	ND	F1	0.0266	0.01246	F1	mg/Kg	☼	47	70 - 130	24	30
1,2,4-Trichlorobenzene	ND	F2 F1	0.0266	0.01074	F2 F1	mg/Kg	☼	40	70 - 130	33	30
1,3,5-Trichlorobenzene	ND	F2 F1	0.0266	0.01142	F2 F1	mg/Kg	☼	43	70 - 130	43	30
1,1,1-Trichloroethane	ND		0.0266	0.02656		mg/Kg	☼	100	70 - 130	21	30
1,1,2-Trichloroethane	ND		0.0266	0.02923		mg/Kg	☼	110	70 - 130	23	30
Trichloroethene	ND		0.0266	0.02210		mg/Kg	☼	83	70 - 130	8	30
Trichlorofluoromethane (Freon 11)	ND		0.0266	0.02306		mg/Kg	☼	87	70 - 130	13	30
1,2,3-Trichloropropane	ND	F2	0.0266	0.02784	F2	mg/Kg	☼	105	70 - 130	31	30
1,2,4-Trimethylbenzene	ND	F1	0.0266	0.01610	F1	mg/Kg	☼	61	70 - 130	21	30
1,3,5-Trimethylbenzene	ND	F1	0.0266	0.01723	F1	mg/Kg	☼	65	70 - 130	15	30
Vinyl chloride	ND		0.0266	0.02499		mg/Kg	☼	94	70 - 130	11	30
m,p-Xylene	ND		0.0532	0.04469		mg/Kg	☼	84	70 - 130	3	30
o-Xylene	ND		0.0266	0.01997		mg/Kg	☼	75	70 - 130	4	30
Tetrahydrofuran	ND		0.0266	0.02258		mg/Kg	☼	85	70 - 130	8	30
Ethyl ether	ND	F1	0.0266	0.01749	F1	mg/Kg	☼	66	70 - 130	14	30
Tert-amyl methyl ether	ND		0.0266	0.02270		mg/Kg	☼	85	70 - 130	16	30
Ethyl tert-butyl ether	ND		0.0266	0.02145		mg/Kg	☼	81	70 - 130	14	30
di-Isopropyl ether	ND		0.0266	0.02148		mg/Kg	☼	81	70 - 130	7	30
tert-Butanol	ND		0.266	0.2536		mg/Kg	☼	95	70 - 130	25	30
1,4-Dioxane	ND		0.266	0.2642		mg/Kg	☼	99	70 - 130	17	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 20617

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene	ND		0.0266	0.02659	J	mg/Kg	☼	100	70 - 130	21	30
Ethanol	ND		0.532	0.3860	J	mg/Kg	☼	73	70 - 130	28	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.00500	0.00326	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Acetone	ND		0.0500	0.0112	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Acrylonitrile	ND		0.00500	0.00300	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Benzene	ND		0.00500	0.00334	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromobenzene	ND		0.00500	0.00333	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromochloromethane	ND		0.00500	0.00284	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromodichloromethane	ND		0.00500	0.00367	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromoform	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Bromomethane	ND		0.0100	0.00623	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Butanone (MEK)	ND		0.0100	0.00398	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
n-Butylbenzene	ND		0.0100	0.00536	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
sec-Butylbenzene	ND		0.00500	0.00403	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
tert-Butylbenzene	ND		0.00500	0.00394	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Carbon disulfide	ND		0.0100	0.00351	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Carbon tetrachloride	ND		0.00500	0.00315	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chlorobenzene	ND		0.00500	0.00366	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloroethane	ND		0.0100	0.00367	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloroform	ND		0.00500	0.00336	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Chloromethane	ND		0.0100	0.00384	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Chlorotoluene	ND		0.00500	0.00398	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Chlorotoluene	ND		0.00500	0.00434	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dibromo-3-Chloropropane	ND		0.0100	0.00424	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dibromochloromethane	ND		0.00500	0.00331	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dibromoethane (EDB)	ND		0.00500	0.00359	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dibromomethane	ND		0.00500	0.00294	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichlorobenzene	ND		0.00500	0.00464	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichlorobenzene	ND		0.00500	0.00401	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,4-Dichlorobenzene	ND		0.00500	0.00474	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Dichlorodifluoromethane (Freon 12)	ND		0.0100	0.00268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloroethane	ND		0.00500	0.00339	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2-Dichloroethane	ND		0.00500	0.00337	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloroethene	ND		0.00500	0.00306	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
cis-1,2-Dichloroethene	ND		0.00500	0.00289	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,2-Dichloroethene	ND		0.00500	0.00311	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.00500	0.00331	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichloropropane	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2,2-Dichloropropane	ND		0.00500	0.00345	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1-Dichloropropene	ND		0.00500	0.00340	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
cis-1,3-Dichloropropene	ND		0.00500	0.00326	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,3-Dichloropropene	ND		0.00500	0.00380	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethylbenzene	ND		0.00500	0.00357	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Hexachlorobutadiene	ND		0.0100	0.00503	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
2-Hexanone (MBK)	ND		0.0100	0.00294	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Isopropylbenzene	ND		0.00500	0.00378	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Isopropyltoluene	ND		0.00500	0.00491	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Methyl tert-butyl ether	ND		0.00500	0.00288	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		0.0100	0.00323	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Methylene Chloride	ND		0.0100	0.00268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Naphthalene	ND		0.00500	0.00452	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
N-Propylbenzene	ND		0.00500	0.00423	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Styrene	ND		0.00500	0.00387	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,1,2-Tetrachloroethane	ND		0.00500	0.00375	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.00500	0.00458	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tetrachloroethene	ND		0.00500	0.00278	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Toluene	ND		0.00500	0.00317	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,3-Trichlorobenzene	ND		0.00500	0.00422	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,4-Trichlorobenzene	ND		0.00500	0.00461	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3,5-Trichlorobenzene	ND		0.00500	0.00475	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,1-Trichloroethane	ND		0.00500	0.00341	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,1,2-Trichloroethane	ND		0.00500	0.00377	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Trichloroethene	ND		0.00500	0.00336	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Trichlorofluoromethane (Freon 11)	ND		0.00500	0.00382	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,3-Trichloropropane	ND		0.00500	0.00444	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,2,4-Trimethylbenzene	ND		0.00500	0.00423	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3,5-Trimethylbenzene	ND		0.00500	0.00425	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Vinyl chloride	ND		0.00500	0.00305	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
m,p-Xylene	ND		0.00500	0.00683	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
o-Xylene	ND		0.00500	0.00365	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tetrahydrofuran	ND		0.0100	0.00253	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethyl ether	ND		0.00500	0.00263	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Tert-amyl methyl ether	ND		0.00500	0.00395	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethyl tert-butyl ether	ND		0.00500	0.00329	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
di-Isopropyl ether	ND		0.00500	0.00357	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
tert-Butanol	ND		0.100	0.0268	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,4-Dioxane	ND		0.100	0.0311	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
trans-1,4-Dichloro-2-butene	ND		0.0250	0.00369	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Ethanol	ND		1.00	0.0620	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
1,3-Dichloropropene, Total	ND		0.00500	0.00380	mg/Kg		03/20/23 10:07	03/20/23 12:55	1
Xylenes, Total	ND		0.0150	0.00500	mg/Kg		03/20/23 10:07	03/20/23 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20675/3-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20675

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*103*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*03/20/23 10:07*	*03/20/23 12:55*	*1*

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02162		mg/Kg		108	70 - 130
Acetone	0.0200	0.02439	J	mg/Kg		122	70 - 130
Acrylonitrile	0.0200	0.02229		mg/Kg		111	70 - 130
Benzene	0.0200	0.02109		mg/Kg		105	70 - 130
Bromobenzene	0.0200	0.01959		mg/Kg		98	70 - 130
Bromochloromethane	0.0200	0.02002		mg/Kg		100	70 - 130
Bromodichloromethane	0.0200	0.02108		mg/Kg		105	70 - 130
Bromoform	0.0200	0.02001		mg/Kg		100	70 - 130
Bromomethane	0.0200	0.02469		mg/Kg		123	70 - 130
2-Butanone (MEK)	0.0200	0.01990		mg/Kg		100	70 - 130
n-Butylbenzene	0.0200	0.02248		mg/Kg		112	70 - 130
sec-Butylbenzene	0.0200	0.02155		mg/Kg		108	70 - 130
tert-Butylbenzene	0.0200	0.02024		mg/Kg		101	70 - 130
Carbon disulfide	0.0200	0.02177		mg/Kg		109	70 - 130
Carbon tetrachloride	0.0200	0.02034		mg/Kg		102	70 - 130
Chlorobenzene	0.0200	0.02157		mg/Kg		108	70 - 130
Chloroethane	0.0200	0.02688	*+	mg/Kg		134	70 - 130
Chloroform	0.0200	0.02092		mg/Kg		105	70 - 130
Chloromethane	0.0200	0.02174		mg/Kg		109	70 - 130
2-Chlorotoluene	0.0200	0.02084		mg/Kg		104	70 - 130
4-Chlorotoluene	0.0200	0.02143		mg/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	0.0200	0.02250		mg/Kg		112	70 - 130
Dibromochloromethane	0.0200	0.01991		mg/Kg		100	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.02036		mg/Kg		102	70 - 130
Dibromomethane	0.0200	0.02094		mg/Kg		105	70 - 130
1,2-Dichlorobenzene	0.0200	0.02118		mg/Kg		106	70 - 130
1,3-Dichlorobenzene	0.0200	0.02050		mg/Kg		103	70 - 130
1,4-Dichlorobenzene	0.0200	0.02144		mg/Kg		107	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.02064		mg/Kg		103	70 - 130
1,1-Dichloroethane	0.0200	0.02142		mg/Kg		107	70 - 130
1,2-Dichloroethane	0.0200	0.02137		mg/Kg		107	70 - 130
1,1-Dichloroethene	0.0200	0.02122		mg/Kg		106	70 - 130
cis-1,2-Dichloroethene	0.0200	0.02044		mg/Kg		102	70 - 130
trans-1,2-Dichloroethene	0.0200	0.02092		mg/Kg		105	70 - 130
1,2-Dichloropropane	0.0200	0.02134		mg/Kg		107	70 - 130
1,3-Dichloropropane	0.0200	0.02139		mg/Kg		107	70 - 130
2,2-Dichloropropane	0.0200	0.02112		mg/Kg		106	70 - 130
1,1-Dichloropropene	0.0200	0.02145		mg/Kg		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20675/1-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	0.0200	0.02085		mg/Kg		104	70 - 130
trans-1,3-Dichloropropene	0.0200	0.02089		mg/Kg		104	70 - 130
Ethylbenzene	0.0200	0.02187		mg/Kg		109	70 - 130
Hexachlorobutadiene	0.0200	0.01916		mg/Kg		96	70 - 130
2-Hexanone (MBK)	0.0200	0.02209		mg/Kg		110	70 - 130
Isopropylbenzene	0.0200	0.02119		mg/Kg		106	70 - 130
4-Isopropyltoluene	0.0200	0.02148		mg/Kg		107	70 - 130
Methyl tert-butyl ether	0.0200	0.02097		mg/Kg		105	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0200	0.02150		mg/Kg		107	70 - 130
Methylene Chloride	0.0200	0.02145		mg/Kg		107	70 - 130
Naphthalene	0.0200	0.02395		mg/Kg		120	70 - 130
N-Propylbenzene	0.0200	0.02205		mg/Kg		110	70 - 130
Styrene	0.0200	0.02086		mg/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	0.0200	0.02040		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.02294		mg/Kg		115	70 - 130
Tetrachloroethene	0.0200	0.01886		mg/Kg		94	70 - 130
Toluene	0.0200	0.02036		mg/Kg		102	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.02314		mg/Kg		116	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.02111		mg/Kg		106	70 - 130
1,3,5-Trichlorobenzene	0.0200	0.02144		mg/Kg		107	70 - 130
1,1,1-Trichloroethane	0.0200	0.02078		mg/Kg		104	70 - 130
1,1,2-Trichloroethane	0.0200	0.02117		mg/Kg		106	70 - 130
Trichloroethene	0.0200	0.02063		mg/Kg		103	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.02132		mg/Kg		107	70 - 130
1,2,3-Trichloropropane	0.0200	0.02233		mg/Kg		112	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.02125		mg/Kg		106	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.02104		mg/Kg		105	70 - 130
Vinyl chloride	0.0200	0.02439		mg/Kg		122	70 - 130
m,p-Xylene	0.0200	0.02127		mg/Kg		106	70 - 130
o-Xylene	0.0200	0.02098		mg/Kg		105	70 - 130
Tetrahydrofuran	0.0200	0.02224		mg/Kg		111	70 - 130
Ethyl ether	0.0200	0.02125		mg/Kg		106	70 - 130
Tert-amyl methyl ether	0.0200	0.02090		mg/Kg		104	70 - 130
Ethyl tert-butyl ether	0.0200	0.02059		mg/Kg		103	70 - 130
di-Isopropyl ether	0.0200	0.02109		mg/Kg		105	70 - 130
tert-Butanol	0.200	0.2087		mg/Kg		104	70 - 130
1,4-Dioxane	0.200	0.2228		mg/Kg		111	70 - 130
trans-1,4-Dichloro-2-butene	0.0200	0.02169	J	mg/Kg		108	70 - 130
Ethanol	0.400	0.4133	J	mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	0.0200	0.02213		mg/Kg		111	70 - 130	2	30
Acetone	0.0200	0.02167	J	mg/Kg		108	70 - 130	12	30
Acrylonitrile	0.0200	0.02246		mg/Kg		112	70 - 130	1	30
Benzene	0.0200	0.02181		mg/Kg		109	70 - 130	3	30
Bromobenzene	0.0200	0.02014		mg/Kg		101	70 - 130	3	30
Bromochloromethane	0.0200	0.02033		mg/Kg		102	70 - 130	2	30
Bromodichloromethane	0.0200	0.02140		mg/Kg		107	70 - 130	1	30
Bromoform	0.0200	0.01999		mg/Kg		100	70 - 130	0	30
Bromomethane	0.0200	0.02616	*+	mg/Kg		131	70 - 130	6	30
2-Butanone (MEK)	0.0200	0.02080		mg/Kg		104	70 - 130	4	30
n-Butylbenzene	0.0200	0.02318		mg/Kg		116	70 - 130	3	30
sec-Butylbenzene	0.0200	0.02238		mg/Kg		112	70 - 130	4	30
tert-Butylbenzene	0.0200	0.02094		mg/Kg		105	70 - 130	3	30
Carbon disulfide	0.0200	0.02254		mg/Kg		113	70 - 130	3	30
Carbon tetrachloride	0.0200	0.02100		mg/Kg		105	70 - 130	3	30
Chlorobenzene	0.0200	0.02217		mg/Kg		111	70 - 130	3	30
Chloroethane	0.0200	0.02865	*+	mg/Kg		143	70 - 130	6	30
Chloroform	0.0200	0.02161		mg/Kg		108	70 - 130	3	30
Chloromethane	0.0200	0.02256		mg/Kg		113	70 - 130	4	30
2-Chlorotoluene	0.0200	0.02163		mg/Kg		108	70 - 130	4	30
4-Chlorotoluene	0.0200	0.02188		mg/Kg		109	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	0.0200	0.02246		mg/Kg		112	70 - 130	0	30
Dibromochloromethane	0.0200	0.02032		mg/Kg		102	70 - 130	2	30
1,2-Dibromoethane (EDB)	0.0200	0.02096		mg/Kg		105	70 - 130	3	30
Dibromomethane	0.0200	0.02132		mg/Kg		107	70 - 130	2	30
1,2-Dichlorobenzene	0.0200	0.02194		mg/Kg		110	70 - 130	4	30
1,3-Dichlorobenzene	0.0200	0.02093		mg/Kg		105	70 - 130	2	30
1,4-Dichlorobenzene	0.0200	0.02222		mg/Kg		111	70 - 130	4	30
Dichlorodifluoromethane (Freon 12)	0.0200	0.02130		mg/Kg		107	70 - 130	3	30
1,1-Dichloroethane	0.0200	0.02247		mg/Kg		112	70 - 130	5	30
1,2-Dichloroethane	0.0200	0.02195		mg/Kg		110	70 - 130	3	30
1,1-Dichloroethene	0.0200	0.02155		mg/Kg		108	70 - 130	2	30
cis-1,2-Dichloroethene	0.0200	0.02152		mg/Kg		108	70 - 130	5	30
trans-1,2-Dichloroethene	0.0200	0.02154		mg/Kg		108	70 - 130	3	30
1,2-Dichloropropane	0.0200	0.02238		mg/Kg		112	70 - 130	5	30
1,3-Dichloropropane	0.0200	0.02193		mg/Kg		110	70 - 130	3	30
2,2-Dichloropropane	0.0200	0.02152		mg/Kg		108	70 - 130	2	30
1,1-Dichloropropene	0.0200	0.02214		mg/Kg		111	70 - 130	3	30
cis-1,3-Dichloropropene	0.0200	0.02144		mg/Kg		107	70 - 130	3	30
trans-1,3-Dichloropropene	0.0200	0.02168		mg/Kg		108	70 - 130	4	30
Ethylbenzene	0.0200	0.02221		mg/Kg		111	70 - 130	2	30
Hexachlorobutadiene	0.0200	0.01978		mg/Kg		99	70 - 130	3	30
2-Hexanone (MBK)	0.0200	0.02103		mg/Kg		105	70 - 130	5	30
Isopropylbenzene	0.0200	0.02169		mg/Kg		108	70 - 130	2	30
4-Isopropyltoluene	0.0200	0.02239		mg/Kg		112	70 - 130	4	30
Methyl tert-butyl ether	0.0200	0.02159		mg/Kg		108	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)	0.0200	0.02135		mg/Kg		107	70 - 130	1	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20675/2-A
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20675

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			0.0200	0.02213		mg/Kg		111	70 - 130	3	30
Naphthalene			0.0200	0.02455		mg/Kg		123	70 - 130	2	30
N-Propylbenzene			0.0200	0.02273		mg/Kg		114	70 - 130	3	30
Styrene			0.0200	0.02158		mg/Kg		108	70 - 130	3	30
1,1,1,2-Tetrachloroethane			0.0200	0.02111		mg/Kg		106	70 - 130	3	30
1,1,2,2-Tetrachloroethane			0.0200	0.02247		mg/Kg		112	70 - 130	2	30
Tetrachloroethene			0.0200	0.01921		mg/Kg		96	70 - 130	2	30
Toluene			0.0200	0.02128		mg/Kg		106	70 - 130	4	30
1,2,3-Trichlorobenzene			0.0200	0.02359		mg/Kg		118	70 - 130	2	30
1,2,4-Trichlorobenzene			0.0200	0.02160		mg/Kg		108	70 - 130	2	30
1,3,5-Trichlorobenzene			0.0200	0.02180		mg/Kg		109	70 - 130	2	30
1,1,1-Trichloroethane			0.0200	0.02158		mg/Kg		108	70 - 130	4	30
1,1,2-Trichloroethane			0.0200	0.02162		mg/Kg		108	70 - 130	2	30
Trichloroethene			0.0200	0.02143		mg/Kg		107	70 - 130	4	30
Trichlorofluoromethane (Freon 11)			0.0200	0.02178		mg/Kg		109	70 - 130	2	30
1,2,3-Trichloropropane			0.0200	0.02221		mg/Kg		111	70 - 130	1	30
1,2,4-Trimethylbenzene			0.0200	0.02159		mg/Kg		108	70 - 130	2	30
1,3,5-Trimethylbenzene			0.0200	0.02163		mg/Kg		108	70 - 130	3	30
Vinyl chloride			0.0200	0.02549		mg/Kg		127	70 - 130	4	30
m,p-Xylene			0.0200	0.02195		mg/Kg		110	70 - 130	3	30
o-Xylene			0.0200	0.02157		mg/Kg		108	70 - 130	3	30
Tetrahydrofuran			0.0200	0.02117		mg/Kg		106	70 - 130	5	30
Ethyl ether			0.0200	0.02142		mg/Kg		107	70 - 130	1	30
Tert-amyl methyl ether			0.0200	0.02136		mg/Kg		107	70 - 130	2	30
Ethyl tert-butyl ether			0.0200	0.02108		mg/Kg		105	70 - 130	2	30
di-Isopropyl ether			0.0200	0.02132		mg/Kg		107	70 - 130	1	30
tert-Butanol			0.200	0.1961		mg/Kg		98	70 - 130	6	30
1,4-Dioxane			0.200	0.2075		mg/Kg		104	70 - 130	7	30
trans-1,4-Dichloro-2-butene			0.0200	0.02079	J	mg/Kg		104	70 - 130	4	30
Ethanol			0.400	0.4171	J	mg/Kg		104	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND	F1 F2	0.0182	0.02421	F1 F2	mg/Kg	☼	133	70 - 130	40	30
Acetone	0.0118	J F1 B F2	0.0182	0.03139	J F2	mg/Kg	☼	108	70 - 130	33	30
Acrylonitrile	ND	F1	0.0182	0.02392	F1	mg/Kg	☼	132	70 - 130	30	30
Benzene	ND	F2	0.0182	0.02327	F2	mg/Kg	☼	128	70 - 130	42	30
Bromobenzene	ND	F2	0.0182	0.02006	F2	mg/Kg	☼	110	70 - 130	35	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane	ND		0.0182	0.02088		mg/Kg	☼	115	70 - 130	28	30
Bromodichloromethane	ND	F1 F2	0.0182	0.02406	F1 F2	mg/Kg	☼	133	70 - 130	33	30
Bromoform	ND		0.0182	0.02040		mg/Kg	☼	112	70 - 130	15	30
Bromomethane	ND	F1 F2	0.0182	0.02541	F1 F2	mg/Kg	☼	140	70 - 130	68	30
2-Butanone (MEK)	ND		0.0182	0.02175		mg/Kg	☼	120	70 - 130	24	30
n-Butylbenzene	ND	F1 F2	0.0182	0.02668	F1 F2	mg/Kg	☼	147	70 - 130	67	30
sec-Butylbenzene	ND	F1 F2	0.0182	0.02458	F1 F2	mg/Kg	☼	135	70 - 130	56	30
tert-Butylbenzene	ND	F2	0.0182	0.02269	F2	mg/Kg	☼	125	70 - 130	56	30
Carbon disulfide	ND	F1 F2	0.0182	0.02371	F1 F2	mg/Kg	☼	131	70 - 130	50	30
Carbon tetrachloride	ND	F2	0.0182	0.02246	F2	mg/Kg	☼	124	70 - 130	39	30
Chlorobenzene	ND	F1 F2	0.0182	0.02589	F1 F2	mg/Kg	☼	143	70 - 130	41	30
Chloroethane	ND	F1 F2	0.0182	0.03034	F1 F2	mg/Kg	☼	167	70 - 130	75	30
Chloroform	ND	F2	0.0182	0.02245	F2	mg/Kg	☼	124	70 - 130	35	30
Chloromethane	ND	F1 F2	0.0182	0.02444	F1 F2	mg/Kg	☼	135	70 - 130	46	30
2-Chlorotoluene	ND	F2	0.0182	0.02105	F2	mg/Kg	☼	116	70 - 130	40	30
4-Chlorotoluene	ND	F2	0.0182	0.02284	F2	mg/Kg	☼	126	70 - 130	48	30
1,2-Dibromo-3-Chloropropane	ND	F2	0.0182	0.01971	F2	mg/Kg	☼	109	70 - 130	34	30
Dibromochloromethane	ND		0.0182	0.02252		mg/Kg	☼	124	70 - 130	30	30
1,2-Dibromoethane (EDB)	ND		0.0182	0.02127		mg/Kg	☼	117	70 - 130	26	30
Dibromomethane	ND		0.0182	0.02244		mg/Kg	☼	124	70 - 130	29	30
1,2-Dichlorobenzene	ND	F2	0.0182	0.02222	F2	mg/Kg	☼	122	70 - 130	43	30
1,3-Dichlorobenzene	ND	F2	0.0182	0.02130	F2	mg/Kg	☼	117	70 - 130	39	30
1,4-Dichlorobenzene	ND	F1 F2	0.0182	0.02399	F1 F2	mg/Kg	☼	132	70 - 130	45	30
Dichlorodifluoromethane (Freon 12)	ND	*- F1 F2	0.0182	0.01697	F2	mg/Kg	☼	93	70 - 130	37	30
1,1-Dichloroethane	ND	F1 F2	0.0182	0.02483	F1 F2	mg/Kg	☼	137	70 - 130	42	30
1,2-Dichloroethane	ND	F2	0.0182	0.02204	F2	mg/Kg	☼	121	70 - 130	31	30
1,1-Dichloroethene	ND	F1 F2	0.0182	0.02467	F1 F2	mg/Kg	☼	136	70 - 130	52	30
cis-1,2-Dichloroethene	ND	F2	0.0182	0.02314	F2	mg/Kg	☼	127	70 - 130	46	30
trans-1,2-Dichloroethene	ND	F1 F2	0.0182	0.02466	F1 F2	mg/Kg	☼	136	70 - 130	52	30
1,2-Dichloropropane	ND	F1 F2	0.0182	0.02556	F1 F2	mg/Kg	☼	141	70 - 130	41	30
1,3-Dichloropropane	ND	F2	0.0182	0.02155	F2	mg/Kg	☼	119	70 - 130	36	30
2,2-Dichloropropane	ND	F2	0.0182	0.02272	F2	mg/Kg	☼	125	70 - 130	47	30
1,1-Dichloropropene	ND	F1 F2	0.0182	0.02262	F2	mg/Kg	☼	125	70 - 130	59	30
cis-1,3-Dichloropropene	ND	F1 F2	0.0182	0.02144	F2	mg/Kg	☼	118	70 - 130	54	30
trans-1,3-Dichloropropene	ND	F2	0.0182	0.02174	F2	mg/Kg	☼	120	70 - 130	42	30
Ethylbenzene	ND	F1 F2	0.0182	0.02500	F1 F2	mg/Kg	☼	138	70 - 130	46	30
Hexachlorobutadiene	ND	F1 F2	0.0182	0.01886	F2	mg/Kg	☼	104	70 - 130	59	30
2-Hexanone (MBK)	ND	F1 F2	0.0182	0.02030	F2	mg/Kg	☼	112	70 - 130	60	30
Isopropylbenzene	ND	F2	0.0182	0.02324	F2	mg/Kg	☼	128	70 - 130	55	30
4-Isopropyltoluene	ND	F1 F2	0.0182	0.02428	F1 F2	mg/Kg	☼	134	70 - 130	64	30
Methyl tert-butyl ether	ND	F1 F2	0.0182	0.02008	F2	mg/Kg	☼	111	70 - 130	47	30
4-Methyl-2-pentanone (MIBK)	ND	F2	0.0182	0.02151	F2	mg/Kg	☼	118	70 - 130	49	30
Methylene Chloride	ND	F2	0.0182	0.02240	F2	mg/Kg	☼	123	70 - 130	33	30
Naphthalene	ND	F1 F2	0.0182	0.01808	F2	mg/Kg	☼	100	70 - 130	78	30
N-Propylbenzene	ND	F1 F2	0.0182	0.02548	F1 F2	mg/Kg	☼	140	70 - 130	52	30
Styrene	ND	F2	0.0182	0.02251	F2	mg/Kg	☼	124	70 - 130	52	30
1,1,1,2-Tetrachloroethane	ND		0.0182	0.02109		mg/Kg	☼	116	70 - 130	26	30
1,1,2,2-Tetrachloroethane	ND	F1	0.0182	0.02460	F1	mg/Kg	☼	135	70 - 130	18	30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	ND	F2	0.0182	0.02092	F2	mg/Kg	☼	115	70 - 130	37	30
Toluene	ND	F2	0.0182	0.02329	F2	mg/Kg	☼	128	70 - 130	42	30
1,2,3-Trichlorobenzene	ND	F1 F2	0.0182	0.01833	F2	mg/Kg	☼	101	70 - 130	65	30
1,2,4-Trichlorobenzene	ND	F1 F2	0.0182	0.01901	F2	mg/Kg	☼	105	70 - 130	70	30
1,3,5-Trichlorobenzene	ND	F1 F2	0.0182	0.02079	F2	mg/Kg	☼	114	70 - 130	68	30
1,1,1-Trichloroethane	ND	F2	0.0182	0.02322	F2	mg/Kg	☼	128	70 - 130	40	30
1,1,2-Trichloroethane	ND	F1	0.0182	0.02374	F1	mg/Kg	☼	131	70 - 130	24	30
Trichloroethene	ND	F2	0.0182	0.02250	F2	mg/Kg	☼	124	70 - 130	50	30
Trichlorofluoromethane (Freon 11)	ND	F1 F2	0.0182	0.02864	F1 F2	mg/Kg	☼	158	70 - 130	57	30
1,2,3-Trichloropropane	ND		0.0182	0.02249		mg/Kg	☼	124	70 - 130	20	30
1,2,4-Trimethylbenzene	ND	F2	0.0182	0.02322	F2	mg/Kg	☼	128	70 - 130	51	30
1,3,5-Trimethylbenzene	ND	F2	0.0182	0.02345	F2	mg/Kg	☼	129	70 - 130	48	30
Vinyl chloride	ND	F1 F2	0.0182	0.02910	F1 F2	mg/Kg	☼	160	70 - 130	71	30
m,p-Xylene	ND	F1 F2	0.0363	0.05287	F1 F2	mg/Kg	☼	146	70 - 130	45	30
o-Xylene	ND	F2	0.0182	0.02350	F2	mg/Kg	☼	129	70 - 130	51	30
Tetrahydrofuran	ND	F1 F2	0.0182	0.02386	F1 F2	mg/Kg	☼	131	70 - 130	46	30
Ethyl ether	ND	F2	0.0182	0.02026	F2	mg/Kg	☼	112	70 - 130	44	30
Tert-amyl methyl ether	ND	F2	0.0182	0.02099	F2	mg/Kg	☼	116	70 - 130	45	30
Ethyl tert-butyl ether	ND	F1 F2	0.0182	0.01985	F2	mg/Kg	☼	109	70 - 130	46	30
di-Isopropyl ether	ND	F1 F2	0.0182	0.02082	F2	mg/Kg	☼	115	70 - 130	51	30
tert-Butanol	ND	F2	0.182	0.2163	F2	mg/Kg	☼	119	70 - 130	33	30
1,4-Dioxane	ND		0.182	0.2208		mg/Kg	☼	122	70 - 130	29	30
trans-1,4-Dichloro-2-butene	ND	F2	0.0182	0.02346	F2	mg/Kg	☼	129	70 - 130	50	30
Ethanol	ND	F1 F2	0.363	0.4921	J F1 F2	mg/Kg	☼	135	70 - 130	45	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		0.0235	0.02290		mg/Kg	☼	97	70 - 130
Acetone	ND	F2	0.0235	0.01893	J	mg/Kg	☼	81	70 - 130
Acrylonitrile	ND		0.0235	0.02168		mg/Kg	☼	92	70 - 130
Benzene	ND		0.0235	0.02187		mg/Kg	☼	93	70 - 130
Bromobenzene	ND		0.0235	0.01761		mg/Kg	☼	75	70 - 130
Bromochloromethane	ND		0.0235	0.01961		mg/Kg	☼	83	70 - 130
Bromodichloromethane	ND		0.0235	0.02272		mg/Kg	☼	97	70 - 130
Bromoform	ND	F2	0.0235	0.01900		mg/Kg	☼	81	70 - 130
Bromomethane	ND	*+ F2	0.0235	0.02705		mg/Kg	☼	115	70 - 130
2-Butanone (MEK)	ND		0.0235	0.01949		mg/Kg	☼	83	70 - 130
n-Butylbenzene	ND	F2 F1	0.0235	0.02248		mg/Kg	☼	96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
sec-Butylbenzene	ND	F1	0.0235	0.02107		mg/Kg	☼	90	70 - 130
tert-Butylbenzene	ND	F1	0.0235	0.01919		mg/Kg	☼	82	70 - 130
Carbon disulfide	ND		0.0235	0.02183		mg/Kg	☼	93	70 - 130
Carbon tetrachloride	ND		0.0235	0.02052		mg/Kg	☼	87	70 - 130
Chlorobenzene	ND		0.0235	0.02392		mg/Kg	☼	102	70 - 130
Chloroethane	ND	*+ F2 F1	0.0235	0.03233	F1	mg/Kg	☼	138	70 - 130
Chloroform	ND		0.0235	0.02086		mg/Kg	☼	89	70 - 130
Chloromethane	ND		0.0235	0.02330		mg/Kg	☼	99	70 - 130
2-Chlorotoluene	ND	F1	0.0235	0.01963		mg/Kg	☼	84	70 - 130
4-Chlorotoluene	ND	F1	0.0235	0.01964		mg/Kg	☼	84	70 - 130
1,2-Dibromo-3-Chloropropane	ND		0.0235	0.01795		mg/Kg	☼	76	70 - 130
Dibromochloromethane	ND		0.0235	0.02083		mg/Kg	☼	89	70 - 130
1,2-Dibromoethane (EDB)	ND		0.0235	0.01970		mg/Kg	☼	84	70 - 130
Dibromomethane	ND		0.0235	0.02154		mg/Kg	☼	92	70 - 130
1,2-Dichlorobenzene	ND	F1	0.0235	0.01995		mg/Kg	☼	85	70 - 130
1,3-Dichlorobenzene	ND	F1	0.0235	0.01839		mg/Kg	☼	78	70 - 130
1,4-Dichlorobenzene	ND	F1	0.0235	0.02162		mg/Kg	☼	92	70 - 130
Dichlorodifluoromethane (Freon 12)	ND	F1	0.0235	0.01600	F1	mg/Kg	☼	68	70 - 130
1,1-Dichloroethane	ND		0.0235	0.02353		mg/Kg	☼	100	70 - 130
1,2-Dichloroethane	ND		0.0235	0.02097		mg/Kg	☼	89	70 - 130
1,1-Dichloroethene	ND		0.0235	0.02279		mg/Kg	☼	97	70 - 130
cis-1,2-Dichloroethene	ND		0.0235	0.02179		mg/Kg	☼	93	70 - 130
trans-1,2-Dichloroethene	ND		0.0235	0.02282		mg/Kg	☼	97	70 - 130
1,2-Dichloropropane	ND		0.0235	0.02405		mg/Kg	☼	102	70 - 130
1,3-Dichloropropane	ND		0.0235	0.02024		mg/Kg	☼	86	70 - 130
2,2-Dichloropropane	ND		0.0235	0.02052		mg/Kg	☼	87	70 - 130
1,1-Dichloropropene	ND		0.0235	0.02103		mg/Kg	☼	89	70 - 130
cis-1,3-Dichloropropene	ND		0.0235	0.01995		mg/Kg	☼	85	70 - 130
trans-1,3-Dichloropropene	ND		0.0235	0.02017		mg/Kg	☼	86	70 - 130
Ethylbenzene	ND		0.0235	0.02239		mg/Kg	☼	95	70 - 130
Hexachlorobutadiene	ND	F2 F1	0.0235	0.01526	F1	mg/Kg	☼	65	70 - 130
2-Hexanone (MBK)	ND		0.0235	0.01845		mg/Kg	☼	79	70 - 130
Isopropylbenzene	ND	F1	0.0235	0.02038		mg/Kg	☼	87	70 - 130
4-Isopropyltoluene	ND	F2 F1	0.0235	0.02096		mg/Kg	☼	89	70 - 130
Methyl tert-butyl ether	ND		0.0235	0.01895		mg/Kg	☼	81	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		0.0235	0.01958		mg/Kg	☼	83	70 - 130
Methylene Chloride	ND		0.0235	0.02189		mg/Kg	☼	93	70 - 130
Naphthalene	ND	F1	0.0235	0.01679		mg/Kg	☼	71	70 - 130
N-Propylbenzene	ND	F1	0.0235	0.02152		mg/Kg	☼	92	70 - 130
Styrene	ND		0.0235	0.02007		mg/Kg	☼	85	70 - 130
1,1,1,2-Tetrachloroethane	ND		0.0235	0.01966		mg/Kg	☼	84	70 - 130
1,1,2,2-Tetrachloroethane	ND	F2	0.0235	0.02286		mg/Kg	☼	97	70 - 130
Tetrachloroethene	ND		0.0235	0.01894		mg/Kg	☼	81	70 - 130
Toluene	ND		0.0235	0.02123		mg/Kg	☼	90	70 - 130
1,2,3-Trichlorobenzene	ND	F1	0.0235	0.01593	F1	mg/Kg	☼	68	70 - 130
1,2,4-Trichlorobenzene	ND	F2 F1	0.0235	0.01500	F1	mg/Kg	☼	64	70 - 130
1,3,5-Trichlorobenzene	ND	F2 F1	0.0235	0.01762		mg/Kg	☼	75	70 - 130
1,1,1-Trichloroethane	ND		0.0235	0.02161		mg/Kg	☼	92	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 20676

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	ND		0.0235	0.02309		mg/Kg	☼	98	70 - 130
Trichloroethene	ND		0.0235	0.02030		mg/Kg	☼	86	70 - 130
Trichlorofluoromethane (Freon 11)	ND		0.0235	0.02623		mg/Kg	☼	112	70 - 130
1,2,3-Trichloropropane	ND	F2	0.0235	0.02031		mg/Kg	☼	86	70 - 130
1,2,4-Trimethylbenzene	ND	F1	0.0235	0.01992		mg/Kg	☼	85	70 - 130
1,3,5-Trimethylbenzene	ND	F1	0.0235	0.02001		mg/Kg	☼	85	70 - 130
Vinyl chloride	ND		0.0235	0.02794		mg/Kg	☼	119	70 - 130
m,p-Xylene	ND		0.0470	0.04588		mg/Kg	☼	98	70 - 130
o-Xylene	ND		0.0235	0.02070		mg/Kg	☼	88	70 - 130
Tetrahydrofuran	ND		0.0235	0.02083		mg/Kg	☼	89	70 - 130
Ethyl ether	ND	F1	0.0235	0.02019		mg/Kg	☼	86	70 - 130
Tert-amyl methyl ether	ND		0.0235	0.01927		mg/Kg	☼	82	70 - 130
Ethyl tert-butyl ether	ND		0.0235	0.01865		mg/Kg	☼	79	70 - 130
di-Isopropyl ether	ND		0.0235	0.02005		mg/Kg	☼	85	70 - 130
tert-Butanol	ND		0.235	0.1967		mg/Kg	☼	84	70 - 130
1,4-Dioxane	ND		0.235	0.2227		mg/Kg	☼	95	70 - 130
trans-1,4-Dichloro-2-butene	ND		0.0235	0.02145	J	mg/Kg	☼	91	70 - 130
Ethanol	ND		0.470	0.5131	J	mg/Kg	☼	109	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-20629/1-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/17/23 08:54	03/17/23 12:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20629/1-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Aniline	ND		0.330	0.0253	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/17/23 08:54	03/17/23 12:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20629/1-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Phenol	ND		0.330	0.0680	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/17/23 08:54	03/17/23 12:54	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/17/23 08:54	03/17/23 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*03/17/23 08:54*	*03/17/23 12:54*	*1*
2-Fluorophenol (Surr)	*70*		*15 - 110*	*03/17/23 08:54*	*03/17/23 12:54*	*1*
Nitrobenzene-d5 (Surr)	*74*		*30 - 130*	*03/17/23 08:54*	*03/17/23 12:54*	*1*
Phenol-d5 (Surr)	*81*		*15 - 110*	*03/17/23 08:54*	*03/17/23 12:54*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*15 - 110*	*03/17/23 08:54*	*03/17/23 12:54*	*1*
Terphenyl-d14	*89*		*30 - 130*	*03/17/23 08:54*	*03/17/23 12:54*	*1*

Lab Sample ID: LCS 620-20629/2-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9098		mg/Kg		55	40 - 140
1,2,4-Trichlorobenzene	1.67	1.106		mg/Kg		66	40 - 140
1,2-Dichlorobenzene	1.67	1.113		mg/Kg		67	40 - 140
1,3-Dichlorobenzene	1.67	1.099		mg/Kg		66	40 - 140
1,4-Dichlorobenzene	1.67	1.100		mg/Kg		66	40 - 140
1-Methylnaphthalene	1.67	1.232		mg/Kg		74	40 - 140
2,4,5-Trichlorophenol	1.67	1.179		mg/Kg		71	30 - 130
2,4,6-Trichlorophenol	1.67	1.265		mg/Kg		76	30 - 130
2,4-Dichlorophenol	1.67	1.113		mg/Kg		67	30 - 130
2,4-Dimethylphenol	1.67	1.149		mg/Kg		69	30 - 130
2,4-Dinitrophenol	1.67	1.910		mg/Kg		115	30 - 130
2,4-Dinitrotoluene	1.67	1.439		mg/Kg		86	40 - 140
2,6-Dinitrotoluene	1.67	1.293		mg/Kg		78	40 - 140
2-Chloronaphthalene	1.67	1.256		mg/Kg		75	40 - 140
2-Chlorophenol	1.67	1.195		mg/Kg		72	30 - 130
2-Methylnaphthalene	1.67	1.253		mg/Kg		75	40 - 140
2-Methylphenol	1.67	1.352		mg/Kg		81	30 - 130
2-Nitroaniline	1.67	1.313		mg/Kg		79	40 - 140
2-Nitrophenol	1.67	1.154		mg/Kg		69	30 - 130
3 & 4 Methylphenol	1.67	1.310		mg/Kg		79	30 - 130
3,3'-Dichlorobenzidine	1.67	1.588		mg/Kg		95	40 - 140
3-Nitroaniline	1.67	1.063		mg/Kg		64	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.9206		mg/Kg		55	30 - 130
4-Bromophenyl phenyl ether	1.67	1.312		mg/Kg		79	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20629/2-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Chloro-3-methylphenol	1.67	1.311		mg/Kg		79	30 - 130
4-Chloroaniline	1.67	0.8838		mg/Kg		53	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.229		mg/Kg		74	40 - 140
4-Nitroaniline	1.67	1.409		mg/Kg		85	40 - 140
4-Nitrophenol	1.67	1.182		mg/Kg		71	30 - 130
Acenaphthene	1.67	1.219		mg/Kg		73	40 - 140
Acenaphthylene	1.67	1.214		mg/Kg		73	40 - 140
Acetophenone	1.67	1.302		mg/Kg		78	40 - 140
Aniline	1.67	1.093		mg/Kg		66	40 - 140
Anthracene	1.67	1.634		mg/Kg		98	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.329		mg/Kg		80	40 - 140
Benzidine	1.67	0.8952		mg/Kg		54	40 - 140
Benzo[a]anthracene	1.67	1.408		mg/Kg		84	40 - 140
Benzo[a]pyrene	1.67	1.245		mg/Kg		75	40 - 140
Benzo[b]fluoranthene	1.67	1.248		mg/Kg		75	40 - 140
Benzo[g,h,i]perylene	1.67	1.443		mg/Kg		87	40 - 140
Benzo[k]fluoranthene	1.67	1.193		mg/Kg		72	40 - 140
Benzoic acid	1.67	0.5869		mg/Kg		35	30 - 130
Benzyl alcohol	1.67	1.163		mg/Kg		70	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.106		mg/Kg		66	40 - 140
Bis(2-chloroethyl)ether	1.67	1.179		mg/Kg		71	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.145		mg/Kg		69	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.784		mg/Kg		107	40 - 140
Butyl benzyl phthalate	1.67	1.514		mg/Kg		91	40 - 140
Carbazole	1.67	1.609		mg/Kg		97	40 - 140
Chrysene	1.67	1.477		mg/Kg		89	40 - 140
Dibenz(a,h)anthracene	1.67	1.320		mg/Kg		79	40 - 140
Dibenzofuran	1.67	1.298		mg/Kg		78	40 - 140
Diethyl phthalate	1.67	1.383		mg/Kg		83	40 - 140
Dimethyl phthalate	1.67	1.356		mg/Kg		81	40 - 140
Di-n-butyl phthalate	1.67	1.822		mg/Kg		109	40 - 140
Di-n-octyl phthalate	1.67	1.379		mg/Kg		83	40 - 140
Fluoranthene	1.67	1.614		mg/Kg		97	40 - 140
Fluorene	1.67	1.195		mg/Kg		72	40 - 140
Hexachlorobenzene	1.67	1.416		mg/Kg		85	40 - 140
Hexachlorobutadiene	1.67	0.9417		mg/Kg		57	40 - 140
Hexachlorocyclopentadiene	1.67	1.200		mg/Kg		72	40 - 140
Hexachloroethane	1.67	1.171		mg/Kg		70	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.250		mg/Kg		75	40 - 140
Isophorone	1.67	0.9974		mg/Kg		60	40 - 140
Naphthalene	1.67	1.166		mg/Kg		70	40 - 140
Nitrobenzene	1.67	1.220		mg/Kg		73	40 - 140
N-Nitrosodimethylamine	1.67	1.337		mg/Kg		80	40 - 140
N-Nitrosodi-n-propylamine	1.67	1.357		mg/Kg		81	40 - 140
N-Nitrosodiphenylamine	1.67	1.313		mg/Kg		79	40 - 140
Pentachloronitrobenzene	1.67	1.001		mg/Kg		60	40 - 140
Pentachlorophenol	1.67	0.9344		mg/Kg		56	30 - 130
Phenanthrene	1.67	1.479		mg/Kg		89	40 - 140
Phenol	1.67	1.284		mg/Kg		77	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20629/2-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20629

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pyrene			1.67	1.705		mg/Kg		102	40 - 140		
Pyridine			1.67	1.172		mg/Kg		70	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*
2-Fluorophenol (Surr)	*79*		*15 - 110*
Nitrobenzene-d5 (Surr)	*72*		*30 - 130*
Phenol-d5 (Surr)	*79*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 110*
Terphenyl-d14	*80*		*30 - 130*

Lab Sample ID: LCSD 620-20629/3-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.031		mg/Kg		62	40 - 140	13	30
1,2,4-Trichlorobenzene			1.67	1.338		mg/Kg		80	40 - 140	19	30
1,2-Dichlorobenzene			1.67	1.322		mg/Kg		79	40 - 140	17	30
1,3-Dichlorobenzene			1.67	1.291		mg/Kg		77	40 - 140	16	30
1,4-Dichlorobenzene			1.67	1.292		mg/Kg		78	40 - 140	16	30
1-Methylnaphthalene			1.67	1.452		mg/Kg		87	40 - 140	16	30
2,4,5-Trichlorophenol			1.67	1.361		mg/Kg		82	30 - 130	14	30
2,4,6-Trichlorophenol			1.67	1.406		mg/Kg		84	30 - 130	11	30
2,4-Dichlorophenol			1.67	1.289		mg/Kg		77	30 - 130	15	30
2,4-Dimethylphenol			1.67	1.349		mg/Kg		81	30 - 130	16	30
2,4-Dinitrophenol			1.67	1.977		mg/Kg		119	30 - 130	3	30
2,4-Dinitrotoluene			1.67	1.521		mg/Kg		91	40 - 140	6	30
2,6-Dinitrotoluene			1.67	1.425		mg/Kg		86	40 - 140	10	30
2-Chloronaphthalene			1.67	1.442		mg/Kg		87	40 - 140	14	30
2-Chlorophenol			1.67	1.383		mg/Kg		83	30 - 130	15	30
2-Methylnaphthalene			1.67	1.486		mg/Kg		89	40 - 140	17	30
2-Methylphenol			1.67	1.547		mg/Kg		93	30 - 130	13	30
2-Nitroaniline			1.67	1.444		mg/Kg		87	40 - 140	10	30
2-Nitrophenol			1.67	1.392		mg/Kg		84	30 - 130	19	30
3 & 4 Methylphenol			1.67	1.527		mg/Kg		92	30 - 130	15	30
3,3'-Dichlorobenzidine			1.67	1.714		mg/Kg		103	40 - 140	8	30
3-Nitroaniline			1.67	1.101		mg/Kg		66	40 - 140	3	30
4,6-Dinitro-2-methylphenol			1.67	0.9627		mg/Kg		58	30 - 130	4	30
4-Bromophenyl phenyl ether			1.67	1.332		mg/Kg		80	40 - 140	2	30
4-Chloro-3-methylphenol			1.67	1.531		mg/Kg		92	30 - 130	15	30
4-Chloroaniline			1.67	1.032		mg/Kg		62	40 - 140	15	30
4-Chlorophenyl phenyl ether			1.67	1.363		mg/Kg		82	40 - 140	10	30
4-Nitroaniline			1.67	1.514		mg/Kg		91	40 - 140	7	30
4-Nitrophenol			1.67	1.267		mg/Kg		76	30 - 130	7	30
Acenaphthene			1.67	1.368		mg/Kg		82	40 - 140	12	30
Acenaphthylene			1.67	1.418		mg/Kg		85	40 - 140	16	30
Acetophenone			1.67	1.493		mg/Kg		90	40 - 140	14	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20629/3-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20629

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aniline			1.67	1.289		mg/Kg		77	40 - 140	16	30
Anthracene			1.67	1.773		mg/Kg		106	40 - 140	8	30
Azobenzene/Diphenyldiazene			1.67	1.426		mg/Kg		86	40 - 140	7	30
Benzidine			1.67	0.8728		mg/Kg		52	40 - 140	3	30
Benzo[a]anthracene			1.67	1.472		mg/Kg		88	40 - 140	4	30
Benzo[a]pyrene			1.67	1.340		mg/Kg		80	40 - 140	7	30
Benzo[b]fluoranthene			1.67	1.603		mg/Kg		96	40 - 140	25	30
Benzo[g,h,i]perylene			1.67	1.682		mg/Kg		101	40 - 140	15	30
Benzo[k]fluoranthene			1.67	1.617		mg/Kg		97	40 - 140	30	30
Benzoic acid			1.67	0.6764		mg/Kg		41	30 - 130	14	30
Benzyl alcohol			1.67	1.369		mg/Kg		82	40 - 140	16	30
Bis(2-chloroethoxy)methane			1.67	1.330		mg/Kg		80	40 - 140	18	30
Bis(2-chloroethyl)ether			1.67	1.395		mg/Kg		84	40 - 140	17	30
bis (2-chloroisopropyl) ether			1.67	1.343		mg/Kg		81	40 - 140	16	30
Bis(2-ethylhexyl) phthalate			1.67	1.635		mg/Kg		98	40 - 140	9	30
Butyl benzyl phthalate			1.67	1.483		mg/Kg		89	40 - 140	2	30
Carbazole			1.67	1.509		mg/Kg		91	40 - 140	6	30
Chrysene			1.67	1.520		mg/Kg		91	40 - 140	3	30
Dibenz(a,h)anthracene			1.67	1.591		mg/Kg		95	40 - 140	19	30
Dibenzofuran			1.67	1.488		mg/Kg		89	40 - 140	14	30
Diethyl phthalate			1.67	1.513		mg/Kg		91	40 - 140	9	30
Dimethyl phthalate			1.67	1.524		mg/Kg		91	40 - 140	12	30
Di-n-butyl phthalate			1.67	1.816		mg/Kg		109	40 - 140	0	30
Di-n-octyl phthalate			1.67	1.866		mg/Kg		112	40 - 140	30	30
Fluoranthene			1.67	1.661		mg/Kg		100	40 - 140	3	30
Fluorene			1.67	1.377		mg/Kg		83	40 - 140	14	30
Hexachlorobenzene			1.67	1.391		mg/Kg		83	40 - 140	2	30
Hexachlorobutadiene			1.67	1.130		mg/Kg		68	40 - 140	18	30
Hexachlorocyclopentadiene			1.67	1.390		mg/Kg		83	40 - 140	15	30
Hexachloroethane			1.67	1.392		mg/Kg		84	40 - 140	17	30
Indeno[1,2,3-cd]pyrene			1.67	1.516		mg/Kg		91	40 - 140	19	30
Isophorone			1.67	1.167		mg/Kg		70	40 - 140	16	30
Naphthalene			1.67	1.365		mg/Kg		82	40 - 140	16	30
Nitrobenzene			1.67	1.446		mg/Kg		87	40 - 140	17	30
N-Nitrosodimethylamine			1.67	1.664		mg/Kg		100	40 - 140	22	30
N-Nitrosodi-n-propylamine			1.67	1.605		mg/Kg		96	40 - 140	17	30
N-Nitrosodiphenylamine			1.67	1.391		mg/Kg		83	40 - 140	6	30
Pentachloronitrobenzene			1.67	1.078		mg/Kg		65	40 - 140	7	30
Pentachlorophenol			1.67	0.9873		mg/Kg		59	30 - 130	6	30
Phenanthrene			1.67	1.513		mg/Kg		91	40 - 140	2	30
Phenol			1.67	1.544		mg/Kg		93	40 - 140	18	30
Pyrene			1.67	1.436		mg/Kg		86	40 - 140	17	30
Pyridine			1.67	1.405		mg/Kg		84	40 - 140	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*30 - 130*
2-Fluorophenol (Surr)	*92*		*15 - 110*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20629/3-A
Matrix: Solid
Analysis Batch: 20626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20629

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*96*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*76*		*15 - 110*
Terphenyl-d14	*69*		*30 - 130*

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 20660

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.98	1.272		mg/Kg	☼	64	40 - 140
1,2,4-Trichlorobenzene	ND		1.98	1.567		mg/Kg	☼	79	40 - 140
1,2-Dichlorobenzene	ND		1.98	1.486		mg/Kg	☼	75	40 - 140
1,3-Dichlorobenzene	ND		1.98	1.501		mg/Kg	☼	76	40 - 140
1,4-Dichlorobenzene	ND		1.98	1.504		mg/Kg	☼	76	40 - 140
1-Methylnaphthalene	ND		1.98	1.757		mg/Kg	☼	89	40 - 140
2,4,5-Trichlorophenol	ND		1.98	1.732		mg/Kg	☼	88	30 - 130
2,4,6-Trichlorophenol	ND		1.98	1.812		mg/Kg	☼	92	30 - 130
2,4-Dichlorophenol	ND		1.98	1.566		mg/Kg	☼	79	30 - 130
2,4-Dimethylphenol	ND		1.98	1.628		mg/Kg	☼	82	30 - 130
2,4-Dinitrophenol	ND		1.98	2.189		mg/Kg	☼	111	30 - 130
2,4-Dinitrotoluene	ND		1.98	1.802		mg/Kg	☼	91	40 - 140
2,6-Dinitrotoluene	ND		1.98	1.713		mg/Kg	☼	87	40 - 140
2-Chloronaphthalene	ND		1.98	1.750		mg/Kg	☼	88	40 - 140
2-Chlorophenol	ND		1.98	1.683		mg/Kg	☼	85	30 - 130
2-Methylnaphthalene	ND		1.98	1.754		mg/Kg	☼	89	40 - 140
2-Methylphenol	ND		1.98	1.850		mg/Kg	☼	94	30 - 130
2-Nitroaniline	ND		1.98	1.837		mg/Kg	☼	93	40 - 140
2-Nitrophenol	ND		1.98	1.476		mg/Kg	☼	75	30 - 130
3 & 4 Methylphenol	ND		1.98	1.768		mg/Kg	☼	89	30 - 130
3,3'-Dichlorobenzidine	ND		1.98	2.709		mg/Kg	☼	137	40 - 140
3-Nitroaniline	ND		1.98	1.458		mg/Kg	☼	74	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.98	0.8608		mg/Kg	☼	44	30 - 130
4-Bromophenyl phenyl ether	ND		1.98	1.859		mg/Kg	☼	94	40 - 140
4-Chloro-3-methylphenol	ND		1.98	1.898		mg/Kg	☼	96	30 - 130
4-Chloroaniline	ND		1.98	1.569		mg/Kg	☼	79	40 - 140
4-Chlorophenyl phenyl ether	ND		1.98	1.703		mg/Kg	☼	86	40 - 140
4-Nitroaniline	ND		1.98	1.690		mg/Kg	☼	85	40 - 140
4-Nitrophenol	ND		1.98	1.458		mg/Kg	☼	74	30 - 130
Acenaphthene	ND		1.98	1.686		mg/Kg	☼	85	40 - 140
Acenaphthylene	ND		1.98	1.789		mg/Kg	☼	90	40 - 140
Acetophenone	ND		1.98	1.771		mg/Kg	☼	90	40 - 140
Aniline	ND		1.98	1.711		mg/Kg	☼	86	40 - 140
Anthracene	ND		1.98	2.169		mg/Kg	☼	110	40 - 140
Azobenzene/Diphenyldiazene	ND		1.98	2.025		mg/Kg	☼	102	40 - 140
Benzidine	ND	F2	1.98	2.215		mg/Kg	☼	112	40 - 140
Benzo[a]anthracene	ND		1.98	1.893		mg/Kg	☼	96	40 - 140
Benzo[a]pyrene	ND		1.98	1.793		mg/Kg	☼	91	40 - 140
Benzo[b]fluoranthene	ND		1.98	2.110		mg/Kg	☼	107	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 20660

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20629

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	ND		1.98	1.830		mg/Kg	☼	93	40 - 140
Benzo[k]fluoranthene	ND		1.98	1.619		mg/Kg	☼	82	40 - 140
Benzoic acid	ND		1.98	0.8829		mg/Kg	☼	45	30 - 130
Benzyl alcohol	ND		1.98	1.485		mg/Kg	☼	75	40 - 140
Bis(2-chloroethoxy)methane	ND		1.98	1.584		mg/Kg	☼	80	40 - 140
Bis(2-chloroethyl)ether	ND		1.98	1.670		mg/Kg	☼	84	40 - 140
bis (2-chloroisopropyl) ether	ND		1.98	1.632		mg/Kg	☼	82	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.98	1.994		mg/Kg	☼	101	40 - 140
Butyl benzyl phthalate	ND		1.98	1.795		mg/Kg	☼	91	40 - 140
Carbazole	ND		1.98	1.819		mg/Kg	☼	92	40 - 140
Chrysene	ND		1.98	1.868		mg/Kg	☼	94	40 - 140
Dibenz(a,h)anthracene	ND		1.98	1.807		mg/Kg	☼	91	40 - 140
Dibenzofuran	ND		1.98	1.830		mg/Kg	☼	93	40 - 140
Diethyl phthalate	ND		1.98	1.938		mg/Kg	☼	98	40 - 140
Dimethyl phthalate	ND		1.98	1.817		mg/Kg	☼	92	40 - 140
Di-n-butyl phthalate	ND		1.98	2.184		mg/Kg	☼	110	40 - 140
Di-n-octyl phthalate	ND		1.98	2.116		mg/Kg	☼	107	40 - 140
Fluoranthene	ND		1.98	1.980		mg/Kg	☼	100	40 - 140
Fluorene	ND		1.98	1.722		mg/Kg	☼	87	40 - 140
Hexachlorobenzene	ND		1.98	1.894		mg/Kg	☼	96	40 - 140
Hexachlorobutadiene	ND		1.98	1.301		mg/Kg	☼	66	40 - 140
Hexachlorocyclopentadiene	ND	F1	1.98	0.8838		mg/Kg	☼	45	40 - 140
Hexachloroethane	ND		1.98	1.540		mg/Kg	☼	78	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.98	1.704		mg/Kg	☼	86	40 - 140
Isophorone	ND		1.98	1.365		mg/Kg	☼	69	40 - 140
Naphthalene	ND		1.98	1.632		mg/Kg	☼	83	40 - 140
Nitrobenzene	ND		1.98	1.561		mg/Kg	☼	79	40 - 140
N-Nitrosodimethylamine	ND	F1 F2	1.98	0.7457	F1	mg/Kg	☼	38	40 - 140
N-Nitrosodi-n-propylamine	ND		1.98	1.900		mg/Kg	☼	96	40 - 140
N-Nitrosodiphenylamine	ND		1.98	1.963		mg/Kg	☼	99	40 - 140
Pentachloronitrobenzene	ND		1.98	1.354		mg/Kg	☼	68	40 - 140
Pentachlorophenol	ND		1.98	1.364		mg/Kg	☼	69	30 - 130
Phenanthrene	ND		1.98	1.901		mg/Kg	☼	96	40 - 140
Phenol	ND		1.98	1.732		mg/Kg	☼	88	40 - 140
Pyrene	ND		1.98	2.003		mg/Kg	☼	101	40 - 140
Pyridine	ND		1.98	1.598		mg/Kg	☼	81	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*85*		*30 - 130*
2-Fluorophenol (Surr)	*86*		*15 - 110*
Nitrobenzene-d5 (Surr)	*76*		*30 - 130*
Phenol-d5 (Surr)	*90*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*
Terphenyl-d14	*77*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 20660

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20629

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		2.01	1.163		mg/Kg	☼	58	40 - 140	9	30
1,2,4-Trichlorobenzene	ND		2.01	1.393		mg/Kg	☼	69	40 - 140	12	30
1,2-Dichlorobenzene	ND		2.01	1.358		mg/Kg	☼	68	40 - 140	9	30
1,3-Dichlorobenzene	ND		2.01	1.354		mg/Kg	☼	67	40 - 140	10	30
1,4-Dichlorobenzene	ND		2.01	1.360		mg/Kg	☼	68	40 - 140	10	30
1-Methylnaphthalene	ND		2.01	1.601		mg/Kg	☼	80	40 - 140	9	30
2,4,5-Trichlorophenol	ND		2.01	1.607		mg/Kg	☼	80	30 - 130	7	30
2,4,6-Trichlorophenol	ND		2.01	1.664		mg/Kg	☼	83	30 - 130	9	30
2,4-Dichlorophenol	ND		2.01	1.409		mg/Kg	☼	70	30 - 130	11	30
2,4-Dimethylphenol	ND		2.01	1.499		mg/Kg	☼	75	30 - 130	8	30
2,4-Dinitrophenol	ND		2.01	1.960		mg/Kg	☼	97	30 - 130	11	30
2,4-Dinitrotoluene	ND		2.01	1.474		mg/Kg	☼	73	40 - 140	20	30
2,6-Dinitrotoluene	ND		2.01	1.428		mg/Kg	☼	71	40 - 140	18	30
2-Chloronaphthalene	ND		2.01	1.604		mg/Kg	☼	80	40 - 140	9	30
2-Chlorophenol	ND		2.01	1.502		mg/Kg	☼	75	30 - 130	11	30
2-Methylnaphthalene	ND		2.01	1.581		mg/Kg	☼	79	40 - 140	10	30
2-Methylphenol	ND		2.01	1.707		mg/Kg	☼	85	30 - 130	8	30
2-Nitroaniline	ND		2.01	1.718		mg/Kg	☼	85	40 - 140	7	30
2-Nitrophenol	ND		2.01	1.250		mg/Kg	☼	62	30 - 130	17	30
3 & 4 Methylphenol	ND		2.01	1.639		mg/Kg	☼	82	30 - 130	8	30
3,3'-Dichlorobenzidine	ND		2.01	2.322		mg/Kg	☼	115	40 - 140	15	30
3-Nitroaniline	ND		2.01	1.214		mg/Kg	☼	60	40 - 140	18	30
4,6-Dinitro-2-methylphenol	ND		2.01	0.8337		mg/Kg	☼	41	30 - 130	3	30
4-Bromophenyl phenyl ether	ND		2.01	1.632		mg/Kg	☼	81	40 - 140	13	30
4-Chloro-3-methylphenol	ND		2.01	1.661		mg/Kg	☼	83	30 - 130	13	30
4-Chloroaniline	ND		2.01	1.396		mg/Kg	☼	69	40 - 140	12	30
4-Chlorophenyl phenyl ether	ND		2.01	1.548		mg/Kg	☼	77	40 - 140	10	30
4-Nitroaniline	ND		2.01	1.363		mg/Kg	☼	68	40 - 140	21	30
4-Nitrophenol	ND		2.01	1.245		mg/Kg	☼	62	30 - 130	16	30
Acenaphthene	ND		2.01	1.559		mg/Kg	☼	78	40 - 140	8	30
Acenaphthylene	ND		2.01	1.618		mg/Kg	☼	80	40 - 140	10	30
Acetophenone	ND		2.01	1.620		mg/Kg	☼	81	40 - 140	9	30
Aniline	ND		2.01	1.497		mg/Kg	☼	74	40 - 140	13	30
Anthracene	ND		2.01	1.868		mg/Kg	☼	93	40 - 140	15	30
Azobenzene/Diphenyldiazene	ND		2.01	1.816		mg/Kg	☼	90	40 - 140	11	30
Benzidine	ND	F2	2.01	1.498	F2	mg/Kg	☼	74	40 - 140	39	30
Benzo[a]anthracene	ND		2.01	1.663		mg/Kg	☼	83	40 - 140	13	30
Benzo[a]pyrene	ND		2.01	1.575		mg/Kg	☼	78	40 - 140	13	30
Benzo[b]fluoranthene	ND		2.01	1.754		mg/Kg	☼	87	40 - 140	18	30
Benzo[g,h,i]perylene	ND		2.01	1.593		mg/Kg	☼	79	40 - 140	14	30
Benzo[k]fluoranthene	ND		2.01	1.558		mg/Kg	☼	77	40 - 140	4	30
Benzoic acid	ND		2.01	0.8307		mg/Kg	☼	41	30 - 130	6	30
Benzyl alcohol	ND		2.01	1.406		mg/Kg	☼	70	40 - 140	6	30
Bis(2-chloroethoxy)methane	ND		2.01	1.412		mg/Kg	☼	70	40 - 140	11	30
Bis(2-chloroethyl)ether	ND		2.01	1.499		mg/Kg	☼	75	40 - 140	11	30
bis (2-chloroisopropyl) ether	ND		2.01	1.441		mg/Kg	☼	72	40 - 140	12	30
Bis(2-ethylhexyl) phthalate	ND		2.01	1.735		mg/Kg	☼	86	40 - 140	14	30
Butyl benzyl phthalate	ND		2.01	1.580		mg/Kg	☼	79	40 - 140	13	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 20660

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20629

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbazole	ND		2.01	1.525		mg/Kg	☼	76	40 - 140	18	30
Chrysene	ND		2.01	1.661		mg/Kg	☼	83	40 - 140	12	30
Dibenz(a,h)anthracene	ND		2.01	1.591		mg/Kg	☼	79	40 - 140	13	30
Dibenzofuran	ND		2.01	1.649		mg/Kg	☼	82	40 - 140	10	30
Diethyl phthalate	ND		2.01	1.685		mg/Kg	☼	84	40 - 140	14	30
Dimethyl phthalate	ND		2.01	1.609		mg/Kg	☼	80	40 - 140	12	30
Di-n-butyl phthalate	ND		2.01	1.883		mg/Kg	☼	94	40 - 140	15	30
Di-n-octyl phthalate	ND		2.01	1.895		mg/Kg	☼	94	40 - 140	11	30
Fluoranthene	ND		2.01	1.717		mg/Kg	☼	85	40 - 140	14	30
Fluorene	ND		2.01	1.528		mg/Kg	☼	76	40 - 140	12	30
Hexachlorobenzene	ND		2.01	1.650		mg/Kg	☼	82	40 - 140	14	30
Hexachlorobutadiene	ND		2.01	1.183		mg/Kg	☼	59	40 - 140	9	30
Hexachlorocyclopentadiene	ND	F1	2.01	0.7066	F1	mg/Kg	☼	35	40 - 140	22	30
Hexachloroethane	ND		2.01	1.372		mg/Kg	☼	68	40 - 140	12	30
Indeno[1,2,3-cd]pyrene	ND		2.01	1.497		mg/Kg	☼	74	40 - 140	13	30
Isophorone	ND		2.01	1.230		mg/Kg	☼	61	40 - 140	10	30
Naphthalene	ND		2.01	1.438		mg/Kg	☼	71	40 - 140	13	30
Nitrobenzene	ND		2.01	1.338		mg/Kg	☼	67	40 - 140	15	30
N-Nitrosodimethylamine	ND	F1 F2	2.01	1.249	F2	mg/Kg	☼	62	40 - 140	50	30
N-Nitrosodi-n-propylamine	ND		2.01	1.729		mg/Kg	☼	86	40 - 140	9	30
N-Nitrosodiphenylamine	ND		2.01	1.802		mg/Kg	☼	90	40 - 140	9	30
Pentachloronitrobenzene	ND		2.01	1.175		mg/Kg	☼	58	40 - 140	14	30
Pentachlorophenol	ND		2.01	1.175		mg/Kg	☼	58	30 - 130	15	30
Phenanthrene	ND		2.01	1.681		mg/Kg	☼	84	40 - 140	12	30
Phenol	ND		2.01	1.595		mg/Kg	☼	79	40 - 140	8	30
Pyrene	ND		2.01	1.827		mg/Kg	☼	91	40 - 140	9	30
Pyridine	ND		2.01	1.372		mg/Kg	☼	68	40 - 140	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*77*		*15 - 110*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*
Phenol-d5 (Surr)	*84*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 110*
Terphenyl-d14	*71*		*30 - 130*

Lab Sample ID: MB 620-20685/1-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/20/23 13:14	03/21/23 13:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20685/1-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Aniline	ND		0.330	0.0253	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Carbazole	ND		0.167	0.0437	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/20/23 13:14	03/21/23 13:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20685/1-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Phenol	ND		0.330	0.0680	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/20/23 13:14	03/21/23 13:46	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/20/23 13:14	03/21/23 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*03/20/23 13:14*	*03/21/23 13:46*	*1*
2-Fluorophenol (Surr)	*66*		*15 - 110*	*03/20/23 13:14*	*03/21/23 13:46*	*1*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*	*03/20/23 13:14*	*03/21/23 13:46*	*1*
Phenol-d5 (Surr)	*76*		*15 - 110*	*03/20/23 13:14*	*03/21/23 13:46*	*1*
2,4,6-Tribromophenol (Surr)	*38*		*15 - 110*	*03/20/23 13:14*	*03/21/23 13:46*	*1*
Terphenyl-d14	*84*		*30 - 130*	*03/20/23 13:14*	*03/21/23 13:46*	*1*

Lab Sample ID: LCS 620-20685/2-A
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9942		mg/Kg		60	40 - 140
1,2,4-Trichlorobenzene	1.67	1.289		mg/Kg		77	40 - 140
1,2-Dichlorobenzene	1.67	1.290		mg/Kg		77	40 - 140
1,3-Dichlorobenzene	1.67	1.300		mg/Kg		78	40 - 140
1,4-Dichlorobenzene	1.67	1.271		mg/Kg		76	40 - 140
1-Methylnaphthalene	1.67	1.376		mg/Kg		83	40 - 140
2,4,5-Trichlorophenol	1.67	1.335		mg/Kg		80	30 - 130
2,4,6-Trichlorophenol	1.67	1.378		mg/Kg		83	30 - 130
2,4-Dichlorophenol	1.67	1.270		mg/Kg		76	30 - 130
2,4-Dimethylphenol	1.67	1.184		mg/Kg		71	30 - 130
2,4-Dinitrophenol	1.67	1.712		mg/Kg		103	30 - 130
2,4-Dinitrotoluene	1.67	1.532		mg/Kg		92	40 - 140
2,6-Dinitrotoluene	1.67	1.405		mg/Kg		84	40 - 140
2-Chloronaphthalene	1.67	1.404		mg/Kg		84	40 - 140
2-Chlorophenol	1.67	1.437		mg/Kg		86	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20685/2-A
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylnaphthalene	1.67	1.411		mg/Kg		85	40 - 140
2-Methylphenol	1.67	1.500		mg/Kg		90	30 - 130
2-Nitroaniline	1.67	1.430		mg/Kg		86	40 - 140
2-Nitrophenol	1.67	1.342		mg/Kg		80	30 - 130
3 & 4 Methylphenol	1.67	1.520		mg/Kg		91	30 - 130
3,3'-Dichlorobenzidine	1.67	1.795		mg/Kg		108	40 - 140
3-Nitroaniline	1.67	1.017		mg/Kg		61	40 - 140
4,6-Dinitro-2-methylphenol	1.67	0.8771		mg/Kg		53	30 - 130
4-Bromophenyl phenyl ether	1.67	1.456		mg/Kg		87	40 - 140
4-Chloro-3-methylphenol	1.67	1.463		mg/Kg		88	30 - 130
4-Chloroaniline	1.67	0.7678		mg/Kg		46	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.315		mg/Kg		79	40 - 140
4-Nitroaniline	1.67	1.395		mg/Kg		84	40 - 140
4-Nitrophenol	1.67	1.182		mg/Kg		71	30 - 130
Acenaphthene	1.67	1.326		mg/Kg		80	40 - 140
Acenaphthylene	1.67	1.422		mg/Kg		85	40 - 140
Acetophenone	1.67	1.512		mg/Kg		91	40 - 140
Aniline	1.67	1.178		mg/Kg		71	40 - 140
Anthracene	1.67	1.642		mg/Kg		99	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.558		mg/Kg		94	40 - 140
Benzidine	1.67	0.2305	J *-	mg/Kg		14	40 - 140
Benzo[a]anthracene	1.67	1.476		mg/Kg		89	40 - 140
Benzo[a]pyrene	1.67	1.450		mg/Kg		87	40 - 140
Benzo[b]fluoranthene	1.67	1.436		mg/Kg		86	40 - 140
Benzo[g,h,i]perylene	1.67	1.562		mg/Kg		94	40 - 140
Benzo[k]fluoranthene	1.67	1.514		mg/Kg		91	40 - 140
Benzoic acid	1.67	0.3846	*-	mg/Kg		23	30 - 130
Benzyl alcohol	1.67	1.329		mg/Kg		80	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.247		mg/Kg		75	40 - 140
Bis(2-chloroethyl)ether	1.67	1.385		mg/Kg		83	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.334		mg/Kg		80	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.583		mg/Kg		95	40 - 140
Butyl benzyl phthalate	1.67	1.528		mg/Kg		92	40 - 140
Carbazole	1.67	1.519		mg/Kg		91	40 - 140
Chrysene	1.67	1.521		mg/Kg		91	40 - 140
Dibenz(a,h)anthracene	1.67	1.524		mg/Kg		91	40 - 140
Dibenzofuran	1.67	1.437		mg/Kg		86	40 - 140
Diethyl phthalate	1.67	1.552		mg/Kg		93	40 - 140
Dimethyl phthalate	1.67	1.450		mg/Kg		87	40 - 140
Di-n-butyl phthalate	1.67	1.689		mg/Kg		101	40 - 140
Di-n-octyl phthalate	1.67	1.752		mg/Kg		105	40 - 140
Fluoranthene	1.67	1.539		mg/Kg		92	40 - 140
Fluorene	1.67	1.361		mg/Kg		82	40 - 140
Hexachlorobenzene	1.67	1.464		mg/Kg		88	40 - 140
Hexachlorobutadiene	1.67	1.094		mg/Kg		66	40 - 140
Hexachlorocyclopentadiene	1.67	1.222		mg/Kg		73	40 - 140
Hexachloroethane	1.67	1.395		mg/Kg		84	40 - 140
Indeno[1,2,3-cd]pyrene	1.67	1.437		mg/Kg		86	40 - 140
Isophorone	1.67	1.100		mg/Kg		66	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20685/2-A
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20685

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			1.67	1.307		mg/Kg		78	40 - 140		
Nitrobenzene			1.67	1.382		mg/Kg		83	40 - 140		
N-Nitrosodimethylamine			1.67	1.332		mg/Kg		80	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.673		mg/Kg		100	40 - 140		
N-Nitrosodiphenylamine			1.67	1.559		mg/Kg		94	40 - 140		
Pentachloronitrobenzene			1.67	1.127		mg/Kg		68	40 - 140		
Pentachlorophenol			1.67	1.066		mg/Kg		64	30 - 130		
Phenanthrene			1.67	1.468		mg/Kg		88	40 - 140		
Phenol			1.67	1.526		mg/Kg		92	40 - 140		
Pyrene			1.67	1.657		mg/Kg		99	40 - 140		
Pyridine			1.67	1.033		mg/Kg		62	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*82*		*30 - 130*
2-Fluorophenol (Surr)	*93*		*15 - 110*
Nitrobenzene-d5 (Surr)	*83*		*30 - 130*
Phenol-d5 (Surr)	*97*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 110*
Terphenyl-d14	*81*		*30 - 130*

Lab Sample ID: LCSD 620-20685/3-A
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20685

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	0.9583		mg/Kg		58	40 - 140	4	30
1,2,4-Trichlorobenzene			1.67	1.212		mg/Kg		73	40 - 140	6	30
1,2-Dichlorobenzene			1.67	1.186		mg/Kg		71	40 - 140	8	30
1,3-Dichlorobenzene			1.67	1.190		mg/Kg		71	40 - 140	9	30
1,4-Dichlorobenzene			1.67	1.153		mg/Kg		69	40 - 140	10	30
1-Methylnaphthalene			1.67	1.265		mg/Kg		76	40 - 140	8	30
2,4,5-Trichlorophenol			1.67	1.256		mg/Kg		75	30 - 130	6	30
2,4,6-Trichlorophenol			1.67	1.287		mg/Kg		77	30 - 130	7	30
2,4-Dichlorophenol			1.67	1.153		mg/Kg		69	30 - 130	10	30
2,4-Dimethylphenol			1.67	1.117		mg/Kg		67	30 - 130	6	30
2,4-Dinitrophenol			1.67	1.564		mg/Kg		94	30 - 130	9	30
2,4-Dinitrotoluene			1.67	1.530		mg/Kg		92	40 - 140	0	30
2,6-Dinitrotoluene			1.67	1.387		mg/Kg		83	40 - 140	1	30
2-Chloronaphthalene			1.67	1.327		mg/Kg		80	40 - 140	6	30
2-Chlorophenol			1.67	1.296		mg/Kg		78	30 - 130	10	30
2-Methylnaphthalene			1.67	1.351		mg/Kg		81	40 - 140	4	30
2-Methylphenol			1.67	1.410		mg/Kg		85	30 - 130	6	30
2-Nitroaniline			1.67	1.357		mg/Kg		81	40 - 140	5	30
2-Nitrophenol			1.67	1.283		mg/Kg		77	30 - 130	4	30
3 & 4 Methylphenol			1.67	1.408		mg/Kg		84	30 - 130	8	30
3,3'-Dichlorobenzidine			1.67	2.019		mg/Kg		121	40 - 140	12	30
3-Nitroaniline			1.67	1.082		mg/Kg		65	40 - 140	6	30
4,6-Dinitro-2-methylphenol			1.67	0.8765		mg/Kg		53	30 - 130	0	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20685/3-A
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20685

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Bromophenyl phenyl ether	1.67	1.414		mg/Kg		85	40 - 140	3	30
4-Chloro-3-methylphenol	1.67	1.399		mg/Kg		84	30 - 130	4	30
4-Chloroaniline	1.67	0.8846		mg/Kg		53	40 - 140	14	30
4-Chlorophenyl phenyl ether	1.67	1.277		mg/Kg		77	40 - 140	3	30
4-Nitroaniline	1.67	1.392		mg/Kg		84	40 - 140	0	30
4-Nitrophenol	1.67	1.199		mg/Kg		72	30 - 130	1	30
Acenaphthene	1.67	1.257		mg/Kg		75	40 - 140	5	30
Acenaphthylene	1.67	1.333		mg/Kg		80	40 - 140	6	30
Acetophenone	1.67	1.403		mg/Kg		84	40 - 140	7	30
Aniline	1.67	1.160		mg/Kg		70	40 - 140	1	30
Anthracene	1.67	1.620		mg/Kg		97	40 - 140	1	30
Azobenzene/Diphenyldiazene	1.67	1.541		mg/Kg		92	40 - 140	1	30
Benzidine	1.67	0.3317	J *- *1	mg/Kg		20	40 - 140	36	30
Benzo[a]anthracene	1.67	1.516		mg/Kg		91	40 - 140	3	30
Benzo[a]pyrene	1.67	1.480		mg/Kg		89	40 - 140	2	30
Benzo[b]fluoranthene	1.67	1.538		mg/Kg		92	40 - 140	7	30
Benzo[g,h,i]perylene	1.67	1.644		mg/Kg		99	40 - 140	5	30
Benzo[k]fluoranthene	1.67	1.488		mg/Kg		89	40 - 140	2	30
Benzoic acid	1.67	0.2520	J *- *1	mg/Kg		15	30 - 130	42	30
Benzyl alcohol	1.67	1.236		mg/Kg		74	40 - 140	7	30
Bis(2-chloroethoxy)methane	1.67	1.188		mg/Kg		71	40 - 140	5	30
Bis(2-chloroethyl)ether	1.67	1.293		mg/Kg		78	40 - 140	7	30
bis (2-chloroisopropyl) ether	1.67	1.203		mg/Kg		72	40 - 140	10	30
Bis(2-ethylhexyl) phthalate	1.67	1.621		mg/Kg		97	40 - 140	2	30
Butyl benzyl phthalate	1.67	1.556		mg/Kg		93	40 - 140	2	30
Carbazole	1.67	1.528		mg/Kg		92	40 - 140	1	30
Chrysene	1.67	1.573		mg/Kg		94	40 - 140	3	30
Dibenz(a,h)anthracene	1.67	1.555		mg/Kg		93	40 - 140	2	30
Dibenzofuran	1.67	1.361		mg/Kg		82	40 - 140	5	30
Diethyl phthalate	1.67	1.507		mg/Kg		90	40 - 140	3	30
Dimethyl phthalate	1.67	1.405		mg/Kg		84	40 - 140	3	30
Di-n-butyl phthalate	1.67	1.789		mg/Kg		107	40 - 140	6	30
Di-n-octyl phthalate	1.67	1.755		mg/Kg		105	40 - 140	0	30
Fluoranthene	1.67	1.597		mg/Kg		96	40 - 140	4	30
Fluorene	1.67	1.306		mg/Kg		78	40 - 140	4	30
Hexachlorobenzene	1.67	1.445		mg/Kg		87	40 - 140	1	30
Hexachlorobutadiene	1.67	1.022		mg/Kg		61	40 - 140	7	30
Hexachlorocyclopentadiene	1.67	1.157		mg/Kg		69	40 - 140	5	30
Hexachloroethane	1.67	1.297		mg/Kg		78	40 - 140	7	30
Indeno[1,2,3-cd]pyrene	1.67	1.480		mg/Kg		89	40 - 140	3	30
Isophorone	1.67	1.039		mg/Kg		62	40 - 140	6	30
Naphthalene	1.67	1.248		mg/Kg		75	40 - 140	5	30
Nitrobenzene	1.67	1.307		mg/Kg		78	40 - 140	6	30
N-Nitrosodimethylamine	1.67	1.217		mg/Kg		73	40 - 140	9	30
N-Nitrosodi-n-propylamine	1.67	1.534		mg/Kg		92	40 - 140	9	30
N-Nitrosodiphenylamine	1.67	1.521		mg/Kg		91	40 - 140	3	30
Pentachloronitrobenzene	1.67	1.122		mg/Kg		67	40 - 140	0	30
Pentachlorophenol	1.67	0.8991		mg/Kg		54	30 - 130	17	30
Phenanthrene	1.67	1.457		mg/Kg		87	40 - 140	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20685/3-A
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20685

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol			1.67	1.437		mg/Kg		86	40 - 140	6	30
Pyrene			1.67	1.647		mg/Kg		99	40 - 140	1	30
Pyridine			1.67	0.8497		mg/Kg		51	40 - 140	19	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*30 - 130*
2-Fluorophenol (Surr)	*84*		*15 - 110*
Nitrobenzene-d5 (Surr)	*77*		*30 - 130*
Phenol-d5 (Surr)	*90*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*
Terphenyl-d14	*81*		*30 - 130*

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		1.84	1.083		mg/Kg	☼	59	40 - 140
1,2,4-Trichlorobenzene	ND		1.84	1.445		mg/Kg	☼	79	40 - 140
1,2-Dichlorobenzene	ND		1.84	1.400		mg/Kg	☼	76	40 - 140
1,3-Dichlorobenzene	ND		1.84	1.361		mg/Kg	☼	74	40 - 140
1,4-Dichlorobenzene	ND		1.84	1.323		mg/Kg	☼	72	40 - 140
1-Methylnaphthalene	ND		1.84	1.454		mg/Kg	☼	79	40 - 140
2,4,5-Trichlorophenol	ND		1.84	1.567		mg/Kg	☼	85	30 - 130
2,4,6-Trichlorophenol	ND		1.84	1.533		mg/Kg	☼	83	30 - 130
2,4-Dichlorophenol	ND		1.84	1.420		mg/Kg	☼	77	30 - 130
2,4-Dimethylphenol	ND		1.84	1.309		mg/Kg	☼	71	30 - 130
2,4-Dinitrophenol	ND		1.84	2.349		mg/Kg	☼	128	30 - 130
2,4-Dinitrotoluene	ND		1.84	1.751		mg/Kg	☼	95	40 - 140
2,6-Dinitrotoluene	ND		1.84	1.586		mg/Kg	☼	86	40 - 140
2-Chloronaphthalene	ND		1.84	1.518		mg/Kg	☼	83	40 - 140
2-Chlorophenol	ND		1.84	1.492		mg/Kg	☼	81	30 - 130
2-Methylnaphthalene	ND		1.84	1.310		mg/Kg	☼	71	40 - 140
2-Methylphenol	ND		1.84	1.638		mg/Kg	☼	89	30 - 130
2-Nitroaniline	ND		1.84	1.609		mg/Kg	☼	87	40 - 140
2-Nitrophenol	ND		1.84	1.422		mg/Kg	☼	77	30 - 130
3 & 4 Methylphenol	ND		1.84	1.638		mg/Kg	☼	89	30 - 130
3,3'-Dichlorobenzidine	ND		1.84	2.000		mg/Kg	☼	109	40 - 140
3-Nitroaniline	ND		1.84	1.231		mg/Kg	☼	67	40 - 140
4,6-Dinitro-2-methylphenol	ND		1.84	1.086		mg/Kg	☼	59	30 - 130
4-Bromophenyl phenyl ether	ND		1.84	1.757		mg/Kg	☼	96	40 - 140
4-Chloro-3-methylphenol	ND		1.84	1.408		mg/Kg	☼	77	30 - 130
4-Chloroaniline	ND		1.84	0.9484		mg/Kg	☼	52	40 - 140
4-Chlorophenyl phenyl ether	ND		1.84	1.506		mg/Kg	☼	82	40 - 140
4-Nitroaniline	ND		1.84	1.681		mg/Kg	☼	91	40 - 140
4-Nitrophenol	ND		1.84	1.447		mg/Kg	☼	79	30 - 130
Acenaphthene	ND		1.84	1.465		mg/Kg	☼	80	40 - 140
Acenaphthylene	ND		1.84	1.552		mg/Kg	☼	84	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetophenone	ND		1.84	1.701		mg/Kg	☼	92	40 - 140
Aniline	ND		1.84	1.138		mg/Kg	☼	62	40 - 140
Anthracene	ND		1.84	1.969		mg/Kg	☼	107	40 - 140
Azobenzene/Diphenyldiazene	ND		1.84	1.792		mg/Kg	☼	97	40 - 140
Benzidine	ND	*- *1 F1 F2	1.84	0.6247	J F1	mg/Kg	☼	34	40 - 140
Benzo[a]anthracene	ND		1.84	1.680		mg/Kg	☼	91	40 - 140
Benzo[a]pyrene	ND		1.84	1.682		mg/Kg	☼	91	40 - 140
Benzo[b]fluoranthene	ND		1.84	2.090		mg/Kg	☼	114	40 - 140
Benzo[g,h,i]perylene	ND		1.84	1.789		mg/Kg	☼	97	40 - 140
Benzo[k]fluoranthene	ND		1.84	1.893		mg/Kg	☼	103	40 - 140
Benzoic acid	ND	*- *1	1.84	0.6237		mg/Kg	☼	34	30 - 130
Benzyl alcohol	ND		1.84	1.440		mg/Kg	☼	78	40 - 140
Bis(2-chloroethoxy)methane	ND		1.84	1.348		mg/Kg	☼	73	40 - 140
Bis(2-chloroethyl)ether	ND		1.84	1.390		mg/Kg	☼	76	40 - 140
bis (2-chloroisopropyl) ether	ND		1.84	1.411		mg/Kg	☼	77	40 - 140
Bis(2-ethylhexyl) phthalate	ND		1.84	1.955		mg/Kg	☼	106	40 - 140
Butyl benzyl phthalate	ND		1.84	1.633		mg/Kg	☼	89	40 - 140
Carbazole	ND		1.84	1.687		mg/Kg	☼	92	40 - 140
Chrysene	ND		1.84	1.921		mg/Kg	☼	104	40 - 140
Dibenz(a,h)anthracene	ND		1.84	1.933		mg/Kg	☼	105	40 - 140
Dibenzofuran	ND		1.84	1.610		mg/Kg	☼	88	40 - 140
Diethyl phthalate	ND		1.84	1.788		mg/Kg	☼	97	40 - 140
Dimethyl phthalate	ND		1.84	1.613		mg/Kg	☼	88	40 - 140
Di-n-butyl phthalate	ND		1.84	2.212		mg/Kg	☼	120	40 - 140
Di-n-octyl phthalate	ND		1.84	2.216		mg/Kg	☼	120	40 - 140
Fluoranthene	ND		1.84	2.143		mg/Kg	☼	116	40 - 140
Fluorene	ND		1.84	1.555		mg/Kg	☼	85	40 - 140
Hexachlorobenzene	ND		1.84	1.674		mg/Kg	☼	91	40 - 140
Hexachlorobutadiene	ND		1.84	1.208		mg/Kg	☼	66	40 - 140
Hexachlorocyclopentadiene	ND		1.84	1.025		mg/Kg	☼	56	40 - 140
Hexachloroethane	ND		1.84	1.508		mg/Kg	☼	82	40 - 140
Indeno[1,2,3-cd]pyrene	ND		1.84	1.795		mg/Kg	☼	98	40 - 140
Isophorone	ND		1.84	1.125		mg/Kg	☼	61	40 - 140
Naphthalene	ND		1.84	1.452		mg/Kg	☼	79	40 - 140
Nitrobenzene	ND		1.84	1.382		mg/Kg	☼	75	40 - 140
N-Nitrosodimethylamine	ND		1.84	1.286		mg/Kg	☼	70	40 - 140
N-Nitrosodi-n-propylamine	ND		1.84	1.853		mg/Kg	☼	101	40 - 140
N-Nitrosodiphenylamine	ND		1.84	1.789		mg/Kg	☼	97	40 - 140
Pentachloronitrobenzene	ND		1.84	1.384		mg/Kg	☼	75	40 - 140
Pentachlorophenol	ND		1.84	1.247		mg/Kg	☼	68	30 - 130
Phenanthrene	ND		1.84	1.922		mg/Kg	☼	104	40 - 140
Phenol	ND		1.84	1.529		mg/Kg	☼	83	40 - 140
Pyrene	ND		1.84	2.061		mg/Kg	☼	112	40 - 140
Pyridine	ND		1.84	1.119		mg/Kg	☼	61	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*79*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20685

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	83		15 - 110
Nitrobenzene-d5 (Surr)	75		30 - 130
Phenol-d5 (Surr)	91		15 - 110
2,4,6-Tribromophenol (Surr)	99		15 - 110
Terphenyl-d14	85		30 - 130

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		1.84	1.131		mg/Kg	☼	61	40 - 140	4	30
1,2,4-Trichlorobenzene	ND		1.84	1.349		mg/Kg	☼	73	40 - 140	7	30
1,2-Dichlorobenzene	ND		1.84	1.344		mg/Kg	☼	73	40 - 140	4	30
1,3-Dichlorobenzene	ND		1.84	1.322		mg/Kg	☼	72	40 - 140	3	30
1,4-Dichlorobenzene	ND		1.84	1.311		mg/Kg	☼	71	40 - 140	1	30
1-Methylnaphthalene	ND		1.84	1.512		mg/Kg	☼	82	40 - 140	4	30
2,4,5-Trichlorophenol	ND		1.84	1.664		mg/Kg	☼	90	30 - 130	6	30
2,4,6-Trichlorophenol	ND		1.84	1.684		mg/Kg	☼	92	30 - 130	9	30
2,4-Dichlorophenol	ND		1.84	1.331		mg/Kg	☼	72	30 - 130	6	30
2,4-Dimethylphenol	ND		1.84	1.416		mg/Kg	☼	77	30 - 130	8	30
2,4-Dinitrophenol	ND		1.84	2.056		mg/Kg	☼	112	30 - 130	13	30
2,4-Dinitrotoluene	ND		1.84	1.710		mg/Kg	☼	93	40 - 140	2	30
2,6-Dinitrotoluene	ND		1.84	1.484		mg/Kg	☼	81	40 - 140	7	30
2-Chloronaphthalene	ND		1.84	1.505		mg/Kg	☼	82	40 - 140	1	30
2-Chlorophenol	ND		1.84	1.458		mg/Kg	☼	79	30 - 130	2	30
2-Methylnaphthalene	ND		1.84	1.427		mg/Kg	☼	78	40 - 140	9	30
2-Methylphenol	ND		1.84	1.594		mg/Kg	☼	87	30 - 130	3	30
2-Nitroaniline	ND		1.84	1.758		mg/Kg	☼	96	40 - 140	9	30
2-Nitrophenol	ND		1.84	1.614		mg/Kg	☼	88	30 - 130	13	30
3 & 4 Methylphenol	ND		1.84	1.585		mg/Kg	☼	86	30 - 130	3	30
3,3'-Dichlorobenzidine	ND		1.84	2.171		mg/Kg	☼	118	40 - 140	8	30
3-Nitroaniline	ND		1.84	1.232		mg/Kg	☼	67	40 - 140	0	30
4,6-Dinitro-2-methylphenol	ND		1.84	1.003		mg/Kg	☼	55	30 - 130	8	30
4-Bromophenyl phenyl ether	ND		1.84	1.795		mg/Kg	☼	98	40 - 140	2	30
4-Chloro-3-methylphenol	ND		1.84	1.461		mg/Kg	☼	79	30 - 130	4	30
4-Chloroaniline	ND		1.84	1.183		mg/Kg	☼	64	40 - 140	22	30
4-Chlorophenyl phenyl ether	ND		1.84	1.408		mg/Kg	☼	77	40 - 140	7	30
4-Nitroaniline	ND		1.84	1.718		mg/Kg	☼	93	40 - 140	2	30
4-Nitrophenol	ND		1.84	1.414		mg/Kg	☼	77	30 - 130	2	30
Acenaphthene	ND		1.84	1.401		mg/Kg	☼	76	40 - 140	4	30
Acenaphthylene	ND		1.84	1.662		mg/Kg	☼	90	40 - 140	7	30
Acetophenone	ND		1.84	1.615		mg/Kg	☼	88	40 - 140	5	30
Aniline	ND		1.84	1.263		mg/Kg	☼	69	40 - 140	10	30
Anthracene	ND		1.84	1.746		mg/Kg	☼	95	40 - 140	12	30
Azobenzene/Diphenyldiazene	ND		1.84	1.859		mg/Kg	☼	101	40 - 140	4	30
Benzidine	ND	*- *1 F1 F2	1.84	1.001	F2	mg/Kg	☼	54	40 - 140	46	30
Benzo[a]anthracene	ND		1.84	1.603		mg/Kg	☼	87	40 - 140	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 20738

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzo[a]pyrene	ND		1.84	1.557		mg/Kg	☼	85	40 - 140	8	30
Benzo[b]fluoranthene	ND		1.84	1.552		mg/Kg	☼	84	40 - 140	30	30
Benzo[g,h,i]perylene	ND		1.84	1.834		mg/Kg	☼	100	40 - 140	2	30
Benzo[k]fluoranthene	ND		1.84	1.635		mg/Kg	☼	89	40 - 140	15	30
Benzoic acid	ND	*- *1	1.84	0.5518		mg/Kg	☼	30	30 - 130	12	30
Benzyl alcohol	ND		1.84	1.364		mg/Kg	☼	74	40 - 140	5	30
Bis(2-chloroethoxy)methane	ND		1.84	1.421		mg/Kg	☼	77	40 - 140	5	30
Bis(2-chloroethyl)ether	ND		1.84	1.363		mg/Kg	☼	74	40 - 140	2	30
bis (2-chloroisopropyl) ether	ND		1.84	1.334		mg/Kg	☼	73	40 - 140	6	30
Bis(2-ethylhexyl) phthalate	ND		1.84	1.643		mg/Kg	☼	89	40 - 140	17	30
Butyl benzyl phthalate	ND		1.84	1.599		mg/Kg	☼	87	40 - 140	2	30
Carbazole	ND		1.84	1.909		mg/Kg	☼	104	40 - 140	12	30
Chrysene	ND		1.84	1.626		mg/Kg	☼	88	40 - 140	17	30
Dibenz(a,h)anthracene	ND		1.84	1.876		mg/Kg	☼	102	40 - 140	3	30
Dibenzofuran	ND		1.84	1.687		mg/Kg	☼	92	40 - 140	5	30
Diethyl phthalate	ND		1.84	1.618		mg/Kg	☼	88	40 - 140	10	30
Dimethyl phthalate	ND		1.84	1.723		mg/Kg	☼	94	40 - 140	7	30
Di-n-butyl phthalate	ND		1.84	2.050		mg/Kg	☼	112	40 - 140	8	30
Di-n-octyl phthalate	ND		1.84	1.762		mg/Kg	☼	96	40 - 140	23	30
Fluoranthene	ND		1.84	1.586		mg/Kg	☼	86	40 - 140	30	30
Fluorene	ND		1.84	1.415		mg/Kg	☼	77	40 - 140	9	30
Hexachlorobenzene	ND		1.84	1.821		mg/Kg	☼	99	40 - 140	8	30
Hexachlorobutadiene	ND		1.84	1.298		mg/Kg	☼	71	40 - 140	7	30
Hexachlorocyclopentadiene	ND		1.84	1.047		mg/Kg	☼	57	40 - 140	2	30
Hexachloroethane	ND		1.84	1.474		mg/Kg	☼	80	40 - 140	2	30
Indeno[1,2,3-cd]pyrene	ND		1.84	1.771		mg/Kg	☼	96	40 - 140	1	30
Isophorone	ND		1.84	1.225		mg/Kg	☼	67	40 - 140	9	30
Naphthalene	ND		1.84	1.376		mg/Kg	☼	75	40 - 140	5	30
Nitrobenzene	ND		1.84	1.373		mg/Kg	☼	75	40 - 140	1	30
N-Nitrosodimethylamine	ND		1.84	1.150		mg/Kg	☼	63	40 - 140	11	30
N-Nitrosodi-n-propylamine	ND		1.84	1.737		mg/Kg	☼	94	40 - 140	6	30
N-Nitrosodiphenylamine	ND		1.84	1.847		mg/Kg	☼	100	40 - 140	3	30
Pentachloronitrobenzene	ND		1.84	1.268		mg/Kg	☼	69	40 - 140	9	30
Pentachlorophenol	ND		1.84	1.219		mg/Kg	☼	66	30 - 130	2	30
Phenanthrene	ND		1.84	1.574		mg/Kg	☼	86	40 - 140	20	30
Phenol	ND		1.84	1.487		mg/Kg	☼	81	40 - 140	3	30
Pyrene	ND		1.84	1.657		mg/Kg	☼	90	40 - 140	22	30
Pyridine	ND		1.84	1.024		mg/Kg	☼	56	40 - 140	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*
2-Fluorophenol (Surr)	*79*		*15 - 110*
Nitrobenzene-d5 (Surr)	*75*		*30 - 130*
Phenol-d5 (Surr)	*87*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*92*		*15 - 110*
Terphenyl-d14	*77*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20686/1-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		0.330	0.0587	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
1,2,4-Trichlorobenzene	ND		0.330	0.0756	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
1,2-Dichlorobenzene	ND		0.330	0.0636	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
1,3-Dichlorobenzene	ND		0.330	0.0799	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
1,4-Dichlorobenzene	ND		0.330	0.0777	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
1-Methylnaphthalene	ND		0.0667	0.0560	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2,4,5-Trichlorophenol	ND		0.330	0.0378	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2,4,6-Trichlorophenol	ND		0.167	0.0408	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2,4-Dichlorophenol	ND		0.167	0.0665	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2,4-Dimethylphenol	ND		0.330	0.0484	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2,4-Dinitrophenol	ND		0.330	0.0868	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2,4-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2,6-Dinitrotoluene	ND		0.167	0.0391	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2-Chloronaphthalene	ND		0.330	0.0763	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2-Chlorophenol	ND		0.167	0.0683	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2-Methylnaphthalene	ND		0.0667	0.0493	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2-Methylphenol	ND		0.330	0.0482	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2-Nitroaniline	ND		0.330	0.0314	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
2-Nitrophenol	ND		0.167	0.0593	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
3 & 4 Methylphenol	ND		0.330	0.0625	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
3,3'-Dichlorobenzidine	ND		0.330	0.0545	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
3-Nitroaniline	ND		0.330	0.0295	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
4,6-Dinitro-2-methylphenol	ND		0.330	0.0593	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
4-Bromophenyl phenyl ether	ND		0.330	0.0373	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
4-Chloro-3-methylphenol	ND		0.330	0.0646	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
4-Chloroaniline	ND		0.167	0.0253	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
4-Chlorophenyl phenyl ether	ND		0.330	0.0353	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
4-Nitroaniline	ND		0.167	0.0527	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
4-Nitrophenol	ND		0.330	0.115	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Acenaphthene	ND		0.0667	0.0532	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Acenaphthylene	ND		0.0667	0.0438	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Acetophenone	ND		0.167	0.0407	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Aniline	ND		0.330	0.0253	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Anthracene	ND		0.0667	0.0386	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Azobenzene/Diphenyldiazene	ND		0.330	0.0563	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzidine	ND		0.660	0.0977	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzo[a]anthracene	ND		0.0667	0.0375	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzo[a]pyrene	ND		0.0667	0.0477	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzo[b]fluoranthene	ND		0.0667	0.0553	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzo[g,h,i]perylene	ND		0.0667	0.0521	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzo[k]fluoranthene	ND		0.0667	0.0519	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzoic acid	ND		0.330	0.227	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Benzyl alcohol	ND		0.330	0.0598	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Bis(2-chloroethoxy)methane	ND		0.330	0.0574	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Bis(2-chloroethyl)ether	ND		0.167	0.0546	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
bis (2-chloroisopropyl) ether	ND		0.167	0.0743	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Bis(2-ethylhexyl) phthalate	ND		0.167	0.0425	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Butyl benzyl phthalate	ND		0.330	0.0331	mg/Kg		03/20/23 14:14	03/21/23 15:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-20686/1-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	ND		0.167	0.0437	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Chrysene	ND		0.0667	0.0377	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Dibenz(a,h)anthracene	ND		0.0667	0.0509	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Dibenzofuran	ND		0.167	0.0578	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Diethyl phthalate	ND		0.330	0.0362	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Dimethyl phthalate	ND		0.330	0.0430	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Di-n-butyl phthalate	ND		0.330	0.0353	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Di-n-octyl phthalate	ND		0.330	0.0545	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Fluoranthene	ND		0.0667	0.0391	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Fluorene	ND		0.0667	0.0609	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Hexachlorobenzene	ND		0.167	0.0463	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Hexachlorobutadiene	ND		0.167	0.0833	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Hexachlorocyclopentadiene	ND		0.167	0.0638	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Hexachloroethane	ND		0.167	0.0656	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0667	0.0566	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Isophorone	ND		0.167	0.0457	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Naphthalene	ND		0.0667	0.0640	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Nitrobenzene	ND		0.167	0.0771	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
N-Nitrosodimethylamine	ND		0.167	0.0438	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
N-Nitrosodi-n-propylamine	ND		0.167	0.0665	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
N-Nitrosodiphenylamine	ND		0.330	0.0421	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Pentachloronitrobenzene	ND		0.330	0.0521	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Pentachlorophenol	ND		0.330	0.135	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Phenanthrene	ND		0.0667	0.0378	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Phenol	ND		0.330	0.0680	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Pyrene	ND		0.0667	0.0368	mg/Kg		03/20/23 14:14	03/21/23 15:11	1
Pyridine	ND		0.330	0.0781	mg/Kg		03/20/23 14:14	03/21/23 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*03/20/23 14:14*	*03/21/23 15:11*	*1*
2-Fluorophenol (Surr)	*78*		*15 - 110*	*03/20/23 14:14*	*03/21/23 15:11*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*03/20/23 14:14*	*03/21/23 15:11*	*1*
Phenol-d5 (Surr)	*77*		*15 - 110*	*03/20/23 14:14*	*03/21/23 15:11*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*15 - 110*	*03/20/23 14:14*	*03/21/23 15:11*	*1*
Terphenyl-d14	*91*		*30 - 130*	*03/20/23 14:14*	*03/21/23 15:11*	*1*

Lab Sample ID: LCS 620-20686/2-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	1.67	0.9441		mg/Kg		57	40 - 140
1,2,4-Trichlorobenzene	1.67	1.186		mg/Kg		71	40 - 140
1,2-Dichlorobenzene	1.67	1.189		mg/Kg		71	40 - 140
1,3-Dichlorobenzene	1.67	1.160		mg/Kg		70	40 - 140
1,4-Dichlorobenzene	1.67	1.162		mg/Kg		70	40 - 140
1-Methylnaphthalene	1.67	1.291		mg/Kg		77	40 - 140
2,4,5-Trichlorophenol	1.67	1.299		mg/Kg		78	30 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20686/2-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,6-Trichlorophenol	1.67	1.299		mg/Kg		78	30 - 130
2,4-Dichlorophenol	1.67	1.112		mg/Kg		67	30 - 130
2,4-Dimethylphenol	1.67	1.153		mg/Kg		69	30 - 130
2,4-Dinitrophenol	1.67	1.722		mg/Kg		103	30 - 130
2,4-Dinitrotoluene	1.67	1.560		mg/Kg		94	40 - 140
2,6-Dinitrotoluene	1.67	1.376		mg/Kg		83	40 - 140
2-Chloronaphthalene	1.67	1.341		mg/Kg		80	40 - 140
2-Chlorophenol	1.67	1.257		mg/Kg		75	30 - 130
2-Methylnaphthalene	1.67	1.406		mg/Kg		84	40 - 140
2-Methylphenol	1.67	1.370		mg/Kg		82	30 - 130
2-Nitroaniline	1.67	1.420		mg/Kg		85	40 - 140
2-Nitrophenol	1.67	1.227		mg/Kg		74	30 - 130
3 & 4 Methylphenol	1.67	1.325		mg/Kg		79	30 - 130
3,3'-Dichlorobenzidine	1.67	1.994		mg/Kg		120	40 - 140
3-Nitroaniline	1.67	1.030		mg/Kg		62	40 - 140
4,6-Dinitro-2-methylphenol	1.67	1.073		mg/Kg		64	30 - 130
4-Bromophenyl phenyl ether	1.67	1.352		mg/Kg		81	40 - 140
4-Chloro-3-methylphenol	1.67	1.411		mg/Kg		85	30 - 130
4-Chloroaniline	1.67	0.8483		mg/Kg		51	40 - 140
4-Chlorophenyl phenyl ether	1.67	1.266		mg/Kg		76	40 - 140
4-Nitroaniline	1.67	1.488		mg/Kg		89	40 - 140
4-Nitrophenol	1.67	1.180		mg/Kg		71	30 - 130
Acenaphthene	1.67	1.277		mg/Kg		77	40 - 140
Acenaphthylene	1.67	1.345		mg/Kg		81	40 - 140
Acetophenone	1.67	1.371		mg/Kg		82	40 - 140
Aniline	1.67	1.150		mg/Kg		69	40 - 140
Anthracene	1.67	1.686		mg/Kg		101	40 - 140
Azobenzene/Diphenyldiazene	1.67	1.487		mg/Kg		89	40 - 140
Benzidine	1.67	0.9446		mg/Kg		57	40 - 140
Benzo[a]anthracene	1.67	1.585		mg/Kg		95	40 - 140
Benzo[a]pyrene	1.67	1.439		mg/Kg		86	40 - 140
Benzo[b]fluoranthene	1.67	1.358		mg/Kg		82	40 - 140
Benzo[g,h,i]perylene	1.67	1.324		mg/Kg		79	40 - 140
Benzo[k]fluoranthene	1.67	1.509		mg/Kg		91	40 - 140
Benzoic acid	1.67	ND	*-	mg/Kg		10	30 - 130
Benzyl alcohol	1.67	1.184		mg/Kg		71	40 - 140
Bis(2-chloroethoxy)methane	1.67	1.158		mg/Kg		70	40 - 140
Bis(2-chloroethyl)ether	1.67	1.226		mg/Kg		74	40 - 140
bis (2-chloroisopropyl) ether	1.67	1.203		mg/Kg		72	40 - 140
Bis(2-ethylhexyl) phthalate	1.67	1.774		mg/Kg		106	40 - 140
Butyl benzyl phthalate	1.67	1.652		mg/Kg		99	40 - 140
Carbazole	1.67	1.652		mg/Kg		99	40 - 140
Chrysene	1.67	1.595		mg/Kg		96	40 - 140
Dibenz(a,h)anthracene	1.67	1.322		mg/Kg		79	40 - 140
Dibenzofuran	1.67	1.376		mg/Kg		83	40 - 140
Diethyl phthalate	1.67	1.485		mg/Kg		89	40 - 140
Dimethyl phthalate	1.67	1.383		mg/Kg		83	40 - 140
Di-n-butyl phthalate	1.67	1.727		mg/Kg		104	40 - 140
Di-n-octyl phthalate	1.67	1.762		mg/Kg		106	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-20686/2-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20686

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoranthene			1.67	1.705		mg/Kg		102	40 - 140		
Fluorene			1.67	1.242		mg/Kg		75	40 - 140		
Hexachlorobenzene			1.67	1.424		mg/Kg		85	40 - 140		
Hexachlorobutadiene			1.67	1.016		mg/Kg		61	40 - 140		
Hexachlorocyclopentadiene			1.67	1.089		mg/Kg		65	40 - 140		
Hexachloroethane			1.67	1.276		mg/Kg		77	40 - 140		
Indeno[1,2,3-cd]pyrene			1.67	1.250		mg/Kg		75	40 - 140		
Isophorone			1.67	1.004		mg/Kg		60	40 - 140		
Naphthalene			1.67	1.214		mg/Kg		73	40 - 140		
Nitrobenzene			1.67	1.257		mg/Kg		75	40 - 140		
N-Nitrosodimethylamine			1.67	1.206		mg/Kg		72	40 - 140		
N-Nitrosodi-n-propylamine			1.67	1.475		mg/Kg		88	40 - 140		
N-Nitrosodiphenylamine			1.67	1.588		mg/Kg		95	40 - 140		
Pentachloronitrobenzene			1.67	1.103		mg/Kg		66	40 - 140		
Pentachlorophenol			1.67	0.9192		mg/Kg		55	30 - 130		
Phenanthrene			1.67	1.446		mg/Kg		87	40 - 140		
Phenol			1.67	1.364		mg/Kg		82	40 - 140		
Pyrene			1.67	1.713		mg/Kg		103	40 - 140		
Pyridine			1.67	0.8893		mg/Kg		53	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*30 - 130*
2-Fluorophenol (Surr)	*80*		*15 - 110*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*
Phenol-d5 (Surr)	*84*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 110*
Terphenyl-d14	*85*		*30 - 130*

Lab Sample ID: LCSD 620-20686/3-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20686

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			1.67	1.078		mg/Kg		65	40 - 140	13	30
1,2,4-Trichlorobenzene			1.67	1.266		mg/Kg		76	40 - 140	7	30
1,2-Dichlorobenzene			1.67	1.288		mg/Kg		77	40 - 140	8	30
1,3-Dichlorobenzene			1.67	1.275		mg/Kg		77	40 - 140	9	30
1,4-Dichlorobenzene			1.67	1.262		mg/Kg		76	40 - 140	8	30
1-Methylnaphthalene			1.67	1.408		mg/Kg		84	40 - 140	9	30
2,4,5-Trichlorophenol			1.67	1.447		mg/Kg		87	30 - 130	11	30
2,4,6-Trichlorophenol			1.67	1.438		mg/Kg		86	30 - 130	10	30
2,4-Dichlorophenol			1.67	1.188		mg/Kg		71	30 - 130	7	30
2,4-Dimethylphenol			1.67	1.259		mg/Kg		76	30 - 130	9	30
2,4-Dinitrophenol			1.67	1.883		mg/Kg		113	30 - 130	9	30
2,4-Dinitrotoluene			1.67	1.509		mg/Kg		91	40 - 140	3	30
2,6-Dinitrotoluene			1.67	1.384		mg/Kg		83	40 - 140	1	30
2-Chloronaphthalene			1.67	1.498		mg/Kg		90	40 - 140	11	30
2-Chlorophenol			1.67	1.347		mg/Kg		81	30 - 130	7	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20686/3-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20686

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Methylnaphthalene			1.67	1.384		mg/Kg		83	40 - 140	2	30
2-Methylphenol			1.67	1.514		mg/Kg		91	30 - 130	10	30
2-Nitroaniline			1.67	1.443		mg/Kg		87	40 - 140	2	30
2-Nitrophenol			1.67	1.317		mg/Kg		79	30 - 130	7	30
3 & 4 Methylphenol			1.67	1.489		mg/Kg		89	30 - 130	12	30
3,3'-Dichlorobenzidine			1.67	1.880		mg/Kg		113	40 - 140	6	30
3-Nitroaniline			1.67	1.026		mg/Kg		62	40 - 140	0	30
4,6-Dinitro-2-methylphenol			1.67	1.017		mg/Kg		61	30 - 130	5	30
4-Bromophenyl phenyl ether			1.67	1.465		mg/Kg		88	40 - 140	8	30
4-Chloro-3-methylphenol			1.67	1.477		mg/Kg		89	30 - 130	5	30
4-Chloroaniline			1.67	0.8476		mg/Kg		51	40 - 140	0	30
4-Chlorophenyl phenyl ether			1.67	1.326		mg/Kg		80	40 - 140	5	30
4-Nitroaniline			1.67	1.467		mg/Kg		88	40 - 140	1	30
4-Nitrophenol			1.67	1.121		mg/Kg		67	30 - 130	5	30
Acenaphthene			1.67	1.319		mg/Kg		79	40 - 140	3	30
Acenaphthylene			1.67	1.379		mg/Kg		83	40 - 140	2	30
Acetophenone			1.67	1.532		mg/Kg		92	40 - 140	11	30
Aniline			1.67	1.133		mg/Kg		68	40 - 140	1	30
Anthracene			1.67	1.641		mg/Kg		98	40 - 140	3	30
Azobenzene/Diphenyldiazene			1.67	1.507		mg/Kg		90	40 - 140	1	30
Benzidine			1.67	0.6770	*1	mg/Kg		41	40 - 140	33	30
Benzo[a]anthracene			1.67	1.451		mg/Kg		87	40 - 140	9	30
Benzo[a]pyrene			1.67	1.458		mg/Kg		88	40 - 140	1	30
Benzo[b]fluoranthene			1.67	1.427		mg/Kg		86	40 - 140	5	30
Benzo[g,h,i]perylene			1.67	1.513		mg/Kg		91	40 - 140	13	30
Benzo[k]fluoranthene			1.67	1.558		mg/Kg		93	40 - 140	3	30
Benzoic acid			1.67	0.2420	J *- *1	mg/Kg		15	30 - 130	37	30
Benzyl alcohol			1.67	1.312		mg/Kg		79	40 - 140	10	30
Bis(2-chloroethoxy)methane			1.67	1.222		mg/Kg		73	40 - 140	5	30
Bis(2-chloroethyl)ether			1.67	1.300		mg/Kg		78	40 - 140	6	30
bis (2-chloroisopropyl) ether			1.67	1.322		mg/Kg		79	40 - 140	9	30
Bis(2-ethylhexyl) phthalate			1.67	1.248	*1	mg/Kg		75	40 - 140	35	30
Butyl benzyl phthalate			1.67	1.385		mg/Kg		83	40 - 140	18	30
Carbazole			1.67	1.425		mg/Kg		86	40 - 140	15	30
Chrysene			1.67	1.260		mg/Kg		76	40 - 140	23	30
Dibenz(a,h)anthracene			1.67	1.486		mg/Kg		89	40 - 140	12	30
Dibenzofuran			1.67	1.441		mg/Kg		86	40 - 140	5	30
Diethyl phthalate			1.67	1.494		mg/Kg		90	40 - 140	1	30
Dimethyl phthalate			1.67	1.409		mg/Kg		85	40 - 140	2	30
Di-n-butyl phthalate			1.67	1.654		mg/Kg		99	40 - 140	4	30
Di-n-octyl phthalate			1.67	1.730		mg/Kg		104	40 - 140	2	30
Fluoranthene			1.67	1.332		mg/Kg		80	40 - 140	25	30
Fluorene			1.67	1.331		mg/Kg		80	40 - 140	7	30
Hexachlorobenzene			1.67	1.383		mg/Kg		83	40 - 140	3	30
Hexachlorobutadiene			1.67	1.112		mg/Kg		67	40 - 140	9	30
Hexachlorocyclopentadiene			1.67	1.278		mg/Kg		77	40 - 140	16	30
Hexachloroethane			1.67	1.441		mg/Kg		86	40 - 140	12	30
Indeno[1,2,3-cd]pyrene			1.67	1.402		mg/Kg		84	40 - 140	11	30
Isophorone			1.67	1.057		mg/Kg		63	40 - 140	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-20686/3-A
Matrix: Solid
Analysis Batch: 20699

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20686

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene			1.67	1.293		mg/Kg		78	40 - 140	6	30
Nitrobenzene			1.67	1.510		mg/Kg		91	40 - 140	18	30
N-Nitrosodimethylamine			1.67	1.231		mg/Kg		74	40 - 140	2	30
N-Nitrosodi-n-propylamine			1.67	1.631		mg/Kg		98	40 - 140	10	30
N-Nitrosodiphenylamine			1.67	1.503		mg/Kg		90	40 - 140	5	30
Pentachloronitrobenzene			1.67	1.061		mg/Kg		64	40 - 140	4	30
Pentachlorophenol			1.67	0.8538		mg/Kg		51	30 - 130	7	30
Phenanthrene			1.67	1.446		mg/Kg		87	40 - 140	0	30
Phenol			1.67	1.444		mg/Kg		87	40 - 140	6	30
Pyrene			1.67	1.376		mg/Kg		83	40 - 140	22	30
Pyridine			1.67	0.9480		mg/Kg		57	40 - 140	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*
2-Fluorophenol (Surr)	*82*		*15 - 110*
Nitrobenzene-d5 (Surr)	*90*		*30 - 130*
Phenol-d5 (Surr)	*91*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 110*
Terphenyl-d14	*69*		*30 - 130*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 480-661094/1-A
Matrix: Solid
Analysis Batch: 661095

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
Naphthalene	0.03535	J	0.0500	0.0340	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/10/23 07:32	03/11/23 00:55	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/10/23 07:32	03/11/23 00:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*87*		*70 - 130*	*03/10/23 07:32*	*03/11/23 00:55*	*1*
a,a,a-Trifluorotoluene (pid)	*84*		*70 - 130*	*03/10/23 07:32*	*03/11/23 00:55*	*1*

Lab Sample ID: LCS 480-661094/2-A
Matrix: Solid
Analysis Batch: 661095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.50	2.392		mg/Kg		96	70 - 130		

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-661094/2-A
Matrix: Solid
Analysis Batch: 661095

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661094

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ethylbenzene			2.50	2.363		mg/Kg		95	70 - 130		
Methyl tert-butyl ether			2.50	2.193		mg/Kg		88	70 - 130		
m,p-Xylene			5.00	4.783		mg/Kg		96	70 - 130		
Naphthalene			2.50	2.216		mg/Kg		89	70 - 130		
o-Xylene			2.50	2.382		mg/Kg		95	70 - 130		
Toluene			2.50	2.397		mg/Kg		96	70 - 130		
C5-C8 Aliphatics (unadjusted)			7.50	7.108		mg/Kg		95	70 - 130		
C9-C10 Aromatics			2.50	2.272		mg/Kg		91	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	6.751		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*

Lab Sample ID: LCSD 480-661094/3-A
Matrix: Solid
Analysis Batch: 661095

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661094

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.389		mg/Kg		96	70 - 130	0	25
Ethylbenzene			2.50	2.364		mg/Kg		95	70 - 130	0	25
Methyl tert-butyl ether			2.50	2.242		mg/Kg		90	70 - 130	2	25
m,p-Xylene			5.00	4.778		mg/Kg		96	70 - 130	0	25
Naphthalene			2.50	2.188		mg/Kg		88	70 - 130	1	25
o-Xylene			2.50	2.379		mg/Kg		95	70 - 130	0	25
Toluene			2.50	2.385		mg/Kg		95	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	7.098		mg/Kg		95	70 - 130	0	25
C9-C10 Aromatics			2.50	2.218		mg/Kg		89	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	6.564		mg/Kg		88	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*95*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*92*		*70 - 130*

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 661095

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 661094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		2.16	2.128		mg/Kg	☼	99	70 - 130		
Ethylbenzene	ND		2.16	2.092		mg/Kg	☼	97	70 - 130		
Methyl tert-butyl ether	ND		2.16	2.150		mg/Kg	☼	100	70 - 130		
m,p-Xylene	ND		4.32	4.257		mg/Kg	☼	99	70 - 130		
Naphthalene	0.0388	J B	2.16	1.725		mg/Kg	☼	78	70 - 130		
o-Xylene	ND		2.16	2.104		mg/Kg	☼	97	70 - 130		
Toluene	ND		2.16	2.124		mg/Kg	☼	98	70 - 130		
C5-C8 Aliphatics (unadjusted)	ND		6.47	6.476		mg/Kg	☼	100	70 - 130		
C9-C10 Aromatics	ND		2.16	1.964		mg/Kg	☼	91	70 - 130		

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 661095

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 661094

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C12 Aliphatics (unadjusted)	ND		6.47	5.853		mg/Kg	☼	90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*100*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*98*		*70 - 130*

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 661095

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 661094

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		1.71	1.709		mg/Kg	☼	100	70 - 130	22	50
Ethylbenzene	ND		1.71	1.673		mg/Kg	☼	98	70 - 130	22	50
Methyl tert-butyl ether	ND		1.71	1.732		mg/Kg	☼	101	70 - 130	22	50
m,p-Xylene	ND		3.43	3.403		mg/Kg	☼	99	70 - 130	22	50
Naphthalene	0.0388	J B	1.71	1.556		mg/Kg	☼	89	70 - 130	10	50
o-Xylene	ND		1.71	1.686		mg/Kg	☼	98	70 - 130	22	50
Toluene	ND		1.71	1.706		mg/Kg	☼	100	70 - 130	22	50
C5-C8 Aliphatics (unadjusted)	ND		5.14	4.935		mg/Kg	☼	96	70 - 130	27	50
C9-C10 Aromatics	ND		1.71	1.589		mg/Kg	☼	93	70 - 130	21	50
C9-C12 Aliphatics (unadjusted)	ND		5.14	4.663		mg/Kg	☼	91	70 - 130	23	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*96*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*93*		*70 - 130*

Lab Sample ID: MB 480-661243/1-A
Matrix: Solid
Analysis Batch: 661242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661243

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0500	0.0100	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
Ethylbenzene	ND		0.0500	0.0100	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
Methyl tert-butyl ether	ND		0.0500	0.0100	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
m,p-Xylene	ND		0.100	0.0100	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
Naphthalene	ND		0.0500	0.0340	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
o-Xylene	ND		0.0500	0.0100	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
Toluene	ND		0.0500	0.0100	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
C5-C8 Aliphatics (unadjusted)	ND		0.250	0.128	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
C9-C10 Aromatics	ND		0.250	0.0350	mg/Kg		03/13/23 07:46	03/13/23 13:50	1
C9-C12 Aliphatics (unadjusted)	ND		0.250	0.107	mg/Kg		03/13/23 07:46	03/13/23 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene (fid)	*109*		*70 - 130*	*03/13/23 07:46*	*03/13/23 13:50*	*1*
a,a,a-Trifluorotoluene (pid)	*104*		*70 - 130*	*03/13/23 07:46*	*03/13/23 13:50*	*1*

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 480-661243/2-A
Matrix: Solid
Analysis Batch: 661242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661243

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			2.50	2.396		mg/Kg		96	70 - 130		
Ethylbenzene			2.50	2.382		mg/Kg		95	70 - 130		
Methyl tert-butyl ether			2.50	2.170		mg/Kg		87	70 - 130		
m,p-Xylene			5.00	4.849		mg/Kg		97	70 - 130		
Naphthalene			2.50	2.245		mg/Kg		90	70 - 130		
o-Xylene			2.50	2.394		mg/Kg		96	70 - 130		
Toluene			2.50	2.409		mg/Kg		96	70 - 130		
C5-C8 Aliphatics (unadjusted)			7.50	7.683		mg/Kg		102	70 - 130		
C9-C10 Aromatics			2.50	2.389		mg/Kg		96	70 - 130		
C9-C12 Aliphatics (unadjusted)			7.50	7.527		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*99*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*96*		*70 - 130*

Lab Sample ID: LCSD 480-661243/3-A
Matrix: Solid
Analysis Batch: 661242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			2.50	2.372		mg/Kg		95	70 - 130	1	25
Ethylbenzene			2.50	2.381		mg/Kg		95	70 - 130	0	25
Methyl tert-butyl ether			2.50	2.194		mg/Kg		88	70 - 130	1	25
m,p-Xylene			5.00	4.796		mg/Kg		96	70 - 130	1	25
Naphthalene			2.50	2.170		mg/Kg		87	70 - 130	3	25
o-Xylene			2.50	2.383		mg/Kg		95	70 - 130	0	25
Toluene			2.50	2.383		mg/Kg		95	70 - 130	1	25
C5-C8 Aliphatics (unadjusted)			7.50	7.606		mg/Kg		101	70 - 130	1	25
C9-C10 Aromatics			2.50	2.341		mg/Kg		94	70 - 130	2	25
C9-C12 Aliphatics (unadjusted)			7.50	7.332		mg/Kg		98	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*98*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*94*		*70 - 130*

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 661242

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 661243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		3.45	3.345		mg/Kg	☼	97	70 - 130		
Ethylbenzene	ND		3.45	3.313		mg/Kg	☼	96	70 - 130		
Methyl tert-butyl ether	ND		3.45	3.307		mg/Kg	☼	96	70 - 130		
m,p-Xylene	ND		6.89	6.658		mg/Kg	☼	97	70 - 130		
Naphthalene	ND		3.45	2.778		mg/Kg	☼	81	70 - 130		
o-Xylene	ND		3.45	3.351		mg/Kg	☼	97	70 - 130		
Toluene	ND		3.45	3.345		mg/Kg	☼	97	70 - 130		
C5-C8 Aliphatics (unadjusted)	ND		10.3	10.49		mg/Kg	☼	101	70 - 130		

Method: MAVPH - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 661242

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 661243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C10 Aromatics	ND		3.45	3.237		mg/Kg	☼	94	70 - 130
C9-C12 Aliphatics (unadjusted)	ND		10.3	10.13		mg/Kg	☼	98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 661242

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 661243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		2.96	2.864		mg/Kg	☼	97	70 - 130	15	50
Ethylbenzene	ND		2.96	2.898		mg/Kg	☼	98	70 - 130	13	50
Methyl tert-butyl ether	ND		2.96	2.850		mg/Kg	☼	96	70 - 130	15	50
m,p-Xylene	ND		5.93	5.768		mg/Kg	☼	97	70 - 130	14	50
Naphthalene	ND		2.96	2.419		mg/Kg	☼	82	70 - 130	14	50
o-Xylene	ND		2.96	2.864		mg/Kg	☼	97	70 - 130	16	50
Toluene	ND		2.96	2.875		mg/Kg	☼	97	70 - 130	15	50
C5-C8 Aliphatics (unadjusted)	ND		8.89	9.044		mg/Kg	☼	102	70 - 130	15	50
C9-C10 Aromatics	ND		2.96	2.799		mg/Kg	☼	94	70 - 130	15	50
C9-C12 Aliphatics (unadjusted)	ND		8.89	8.797		mg/Kg	☼	99	70 - 130	14	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene (fid)	*103*		*70 - 130*
a,a,a-Trifluorotoluene (pid)	*99*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-20453/1-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/10/23 15:38	03/14/23 00:49	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/10/23 15:38	03/14/23 00:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*30 - 150*	*03/10/23 15:38*	*03/14/23 00:49*	*1*
Tetrachloro-m-xylene	*100*		*30 - 150*	*03/10/23 15:38*	*03/14/23 00:49*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*30 - 150*	*03/10/23 15:38*	*03/14/23 00:49*	*1*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-20453/1-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20453

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	121		30 - 150	03/10/23 15:38	03/14/23 00:49	1

Lab Sample ID: LCS 620-20453/2-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20453

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1728		mg/Kg		104	40 - 140		
PCB-1016			0.167	0.1750		mg/Kg		105	40 - 140		
PCB-1260			0.167	0.1849		mg/Kg		111	40 - 140		
PCB-1260			0.167	0.1831		mg/Kg		110	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	94		30 - 150
Tetrachloro-m-xylene	97		30 - 150
DCB Decachlorobiphenyl (Surr)	103		30 - 150
DCB Decachlorobiphenyl (Surr)	115		30 - 150

Lab Sample ID: LCSD 620-20453/3-A
Matrix: Solid
Analysis Batch: 20477

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20453

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1669		mg/Kg		100	40 - 140	3	30
PCB-1016			0.167	0.1667		mg/Kg		100	40 - 140	5	30
PCB-1260			0.167	0.1793		mg/Kg		108	40 - 140	3	30
PCB-1260			0.167	0.1775		mg/Kg		106	40 - 140	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	88		30 - 150
Tetrachloro-m-xylene	94		30 - 150
DCB Decachlorobiphenyl (Surr)	99		30 - 150
DCB Decachlorobiphenyl (Surr)	109		30 - 150

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 20508

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016	ND		0.182	0.1965		mg/Kg	☼	108	40 - 140		
PCB-1260	ND		0.182	0.2170		mg/Kg	☼	119	40 - 140		

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	97		30 - 150
Tetrachloro-m-xylene	100		30 - 150
DCB Decachlorobiphenyl (Surr)	113		30 - 150
DCB Decachlorobiphenyl (Surr)	120		30 - 150

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 20508

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 20453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.192	0.2115		mg/Kg	☼	110	40 - 140	7	30
PCB-1260	ND		0.192	0.2385		mg/Kg	☼	124	40 - 140	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*101*		*30 - 150*
Tetrachloro-m-xylene	*104*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*118*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*126*		*30 - 150*

Lab Sample ID: MB 620-20455/1-A
Matrix: Solid
Analysis Batch: 20476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		03/10/23 15:43	03/14/23 01:22	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		03/10/23 15:43	03/14/23 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*30 - 150*	*03/10/23 15:43*	*03/14/23 01:22*	*1*
Tetrachloro-m-xylene	*102*		*30 - 150*	*03/10/23 15:43*	*03/14/23 01:22*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*30 - 150*	*03/10/23 15:43*	*03/14/23 01:22*	*1*
DCB Decachlorobiphenyl (Surr)	*107*		*30 - 150*	*03/10/23 15:43*	*03/14/23 01:22*	*1*

Lab Sample ID: LCS 620-20455/2-A
Matrix: Solid
Analysis Batch: 20476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20455

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1578		mg/Kg		95	40 - 140		
PCB-1016			0.167	0.1606		mg/Kg		96	40 - 140		
PCB-1260			0.167	0.1710		mg/Kg		103	40 - 140		
PCB-1260			0.167	0.1671		mg/Kg		100	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*30 - 150*
Tetrachloro-m-xylene	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*103*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-20455/3-A
Matrix: Solid
Analysis Batch: 20476

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 20455

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1329		mg/Kg		80	40 - 140	17	30
PCB-1016			0.167	0.1370		mg/Kg		82	40 - 140	16	30
PCB-1260			0.167	0.1403		mg/Kg		84	40 - 140	20	30
PCB-1260			0.167	0.1366		mg/Kg		82	40 - 140	20	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*30 - 150*
Tetrachloro-m-xylene	*74*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 20507

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20455

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.184	0.1857		mg/Kg	☼	101	40 - 140
PCB-1260	ND		0.184	0.1880		mg/Kg	☼	102	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*108*		*30 - 150*
Tetrachloro-m-xylene	*101*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*101*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 20507

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 20455

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.180	0.1946		mg/Kg	☼	108	40 - 140	5	30
PCB-1260	ND		0.180	0.2010		mg/Kg	☼	112	40 - 140	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*110*		*30 - 150*
Tetrachloro-m-xylene	*102*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*94*		*30 - 150*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-352779/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-352779/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
HFPODA	ND		2.00	1.00	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
DONA	ND		3.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/13/23 07:29	03/22/23 14:55	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*92*		*10 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
M2-8:2 FTS	*90*		*15 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
M2-6:2 FTS	*93*		*10 - 200*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C5 PFHxA	*91*		*10 - 174*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C4 PFHpA	*101*		*10 - 178*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C8 PFOA	*96*		*26 - 159*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C9 PFNA	*103*		*26 - 165*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C6 PFDA	*99*		*26 - 161*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C7 PFUnA	*98*		*12 - 173*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C2-PFDoDA	*96*		*11 - 166*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C2 PFTeDA	*95*		*10 - 169*	*03/13/23 07:29*	*03/22/23 14:55*	*1*
13C3 PFBS	*95*		*27 - 179*	*03/13/23 07:29*	*03/22/23 14:55*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-352779/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352779

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	98		24 - 171	03/13/23 07:29	03/22/23 14:55	1
13C8 PFOS	99		41 - 154	03/13/23 07:29	03/22/23 14:55	1
d3-NMeFOSAA	72		10 - 178	03/13/23 07:29	03/22/23 14:55	1
d5-NEtFOSAA	71		10 - 193	03/13/23 07:29	03/22/23 14:55	1
13C8 FOSA	80		14 - 163	03/13/23 07:29	03/22/23 14:55	1
13C4 PFBA	85		28 - 153	03/13/23 07:29	03/22/23 14:55	1
13C5 PFPeA	85		24 - 161	03/13/23 07:29	03/22/23 14:55	1
d7-N-MeFOSE-M	76		10 - 179	03/13/23 07:29	03/22/23 14:55	1
d3-NMePFOSA	69		10 - 175	03/13/23 07:29	03/22/23 14:55	1
d9-N-EtFOSE-M	76		10 - 185	03/13/23 07:29	03/22/23 14:55	1
d5-NEtPFOSA	73		10 - 180	03/13/23 07:29	03/22/23 14:55	1
13C3 HFPO-DA	82		10 - 169	03/13/23 07:29	03/22/23 14:55	1

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	24.19		ug/Kg		97	59 - 132
Perfluoroheptanoic acid	25.0	24.04		ug/Kg		96	59 - 137
Perfluorooctanoic acid	25.0	23.76		ug/Kg		95	59 - 131
Perfluorononanoic acid	25.0	23.64		ug/Kg		95	61 - 134
Perfluorodecanoic acid	25.0	21.61		ug/Kg		86	56 - 133
Perfluorotridecanoic acid	25.0	22.95		ug/Kg		92	53 - 143
Perfluorotetradecanoic acid	25.0	21.94		ug/Kg		88	62 - 134
Perfluorobutanesulfonic acid	22.1	21.05		ug/Kg		95	54 - 130
Perfluorohexanesulfonic acid	22.8	20.90		ug/Kg		92	59 - 129
Perfluorooctanesulfonic acid	23.1	21.99		ug/Kg		95	61 - 126
NEtFOSAA	25.0	25.47		ug/Kg		102	57 - 127
NMeFOSAA	25.0	24.82		ug/Kg		99	60 - 134
10:2 FTS	24.1	24.81		ug/Kg		103	46 - 143
Perfluoropentanesulfonic acid	23.5	21.60		ug/Kg		92	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.17		ug/Kg		89	59 - 132
Perfluorononanesulfonic acid	24.0	22.47		ug/Kg		94	60 - 132
Perfluorodecanesulfonic acid	24.1	22.27		ug/Kg		92	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	21.37		ug/Kg		88	38 - 145
Perfluorooctanesulfonamide	25.0	23.31		ug/Kg		93	47 - 149
Perfluorohexadecanoic acid	25.0	19.29		ug/Kg		77	38 - 147
Perfluorooctadecanoic acid	25.0	21.82		ug/Kg		87	16 - 160
Perfluorobutanoic acid	25.0	20.91		ug/Kg		84	60 - 128
Perfluoropentanoic acid	25.0	21.11		ug/Kg		84	58 - 134
NMeFOSE	25.0	22.45		ug/Kg		90	60 - 130
NMeFOSA	25.0	21.08		ug/Kg		84	60 - 129
NEtFOSE	25.0	24.56		ug/Kg		98	60 - 126
NEtFOSA	25.0	23.49		ug/Kg		94	60 - 123
HFPODA	25.0	22.74		ug/Kg		91	49 - 135
DONA	23.6	22.98		ug/Kg		97	57 - 137
9Cl-PF3ONS	23.3	23.52		ug/Kg		101	62 - 130

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-352779/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
11Cl-PF3OUdS	23.3	23.24		ug/Kg		100	55 - 135
Perfluorododecanoic acid	25.0	22.12		ug/Kg		88	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	22.85		ug/Kg		98	58 - 131
Perfluoroundecanoic acid	25.0	23.22		ug/Kg		93	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	20.75		ug/Kg		88	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	24.71		ug/Kg		103	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*87*		*10 - 200*
M2-8:2 FTS	*83*		*15 - 200*
M2-6:2 FTS	*91*		*10 - 200*
13C5 PFHxA	*91*		*10 - 174*
13C4 PFHpA	*91*		*10 - 178*
13C8 PFOA	*92*		*26 - 159*
13C9 PFNA	*95*		*26 - 165*
13C6 PFDA	*91*		*26 - 161*
13C7 PFUnA	*90*		*12 - 173*
13C2-PFDoDA	*91*		*11 - 166*
13C2 PFTeDA	*98*		*10 - 169*
13C3 PFBS	*90*		*27 - 179*
13C3 PFHxS	*94*		*24 - 171*
13C8 PFOS	*92*		*41 - 154*
d3-NMeFOSAA	*71*		*10 - 178*
d5-NEtFOSAA	*75*		*10 - 193*
13C8 FOSA	*76*		*14 - 163*
13C4 PFBA	*85*		*28 - 153*
13C5 PFPeA	*88*		*24 - 161*
d7-N-MeFOSE-M	*74*		*10 - 179*
d3-NMePFOSA	*76*		*10 - 175*
d9-N-EtFOSE-M	*69*		*10 - 185*
d5-NEtPFOSA	*72*		*10 - 180*
13C3 HFPO-DA	*86*		*10 - 169*

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		29.9	26.66		ug/Kg	☼	89	59 - 132
Perfluoroheptanoic acid	ND		29.9	26.90		ug/Kg	☼	90	59 - 137
Perfluorooctanoic acid	ND		29.9	28.86		ug/Kg	☼	96	59 - 131
Perfluorononanoic acid	ND		29.9	29.27		ug/Kg	☼	98	61 - 134
Perfluorodecanoic acid	ND		29.9	27.23		ug/Kg	☼	91	56 - 133
Perfluorotridecanoic acid	ND		29.9	24.62		ug/Kg	☼	82	53 - 143
Perfluorotetradecanoic acid	ND		29.9	27.59		ug/Kg	☼	92	62 - 134
Perfluorobutanesulfonic acid	ND		26.5	25.10		ug/Kg	☼	95	54 - 130
Perfluorohexanesulfonic acid	ND		27.3	26.28		ug/Kg	☼	96	59 - 129
Perfluorooctanesulfonic acid	ND		27.7	26.43		ug/Kg	☼	95	61 - 126
NEtFOSAA	ND		29.9	33.02		ug/Kg	☼	110	57 - 127

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	ND		29.9	30.10		ug/Kg	☼	101	60 - 134
10:2 FTS	ND		28.9	31.28		ug/Kg	☼	108	46 - 143
Perfluoropentanesulfonic acid	ND		28.1	27.03		ug/Kg	☼	96	57 - 133
Perfluoroheptanesulfonic acid	ND		28.5	25.92		ug/Kg	☼	91	59 - 132
Perfluorononanesulfonic acid	ND		28.7	26.67		ug/Kg	☼	93	60 - 132
Perfluorodecanesulfonic acid	ND		28.9	26.49		ug/Kg	☼	92	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		29.0	25.81		ug/Kg	☼	89	38 - 145
Perfluorooctanesulfonamide	ND		29.9	29.54		ug/Kg	☼	99	47 - 149
Perfluorohexadecanoic acid	ND		29.9	26.49		ug/Kg	☼	88	38 - 147
Perfluorooctadecanoic acid	ND		29.9	29.74		ug/Kg	☼	99	16 - 160
Perfluorobutanoic acid	ND		29.9	24.77		ug/Kg	☼	83	60 - 128
Perfluoropentanoic acid	ND		29.9	26.24		ug/Kg	☼	88	58 - 134
NMeFOSE	ND		29.9	29.00		ug/Kg	☼	97	60 - 130
NMeFOSA	ND		29.9	28.10		ug/Kg	☼	94	60 - 129
NEtFOSE	ND		29.9	28.87		ug/Kg	☼	96	60 - 126
NEtFOSA	ND		29.9	27.52		ug/Kg	☼	92	60 - 123
HFPODA	ND		29.9	29.39		ug/Kg	☼	98	49 - 135
DONA	ND		28.3	27.03		ug/Kg	☼	96	57 - 137
9Cl-PF3ONS	ND		27.8	27.68		ug/Kg	☼	99	62 - 130
11Cl-PF3OUdS	ND		27.8	26.60		ug/Kg	☼	96	55 - 135
Perfluorododecanoic acid	ND		29.9	25.71		ug/Kg	☼	86	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		28.0	28.68		ug/Kg	☼	103	58 - 131
Perfluoroundecanoic acid	ND		29.9	29.49		ug/Kg	☼	98	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		28.4	26.51		ug/Kg	☼	93	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		28.7	31.14		ug/Kg	☼	109	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*82*		*10 - 200*
M2-8:2 FTS	*76*		*15 - 200*
M2-6:2 FTS	*84*		*10 - 200*
13C5 PFHxA	*91*		*10 - 174*
13C4 PFHpA	*90*		*10 - 178*
13C8 PFOA	*86*		*26 - 159*
13C9 PFNA	*88*		*26 - 165*
13C6 PFDA	*85*		*26 - 161*
13C7 PFUnA	*78*		*12 - 173*
13C2-PFDoDA	*85*		*11 - 166*
13C2 PFTeDA	*82*		*10 - 169*
13C3 PFBS	*85*		*27 - 179*
13C3 PFHxS	*85*		*24 - 171*
13C8 PFOS	*84*		*41 - 154*
d3-NMeFOSAA	*51*		*10 - 178*
d5-NEtFOSAA	*52*		*10 - 193*
13C8 FOSA	*73*		*14 - 163*
13C4 PFBA	*91*		*28 - 153*
13C5 PFPeA	*89*		*24 - 161*
d7-N-MeFOSE-M	*76*		*10 - 179*
d3-NMePFOSA	*73*		*10 - 175*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 352779

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d9-N-EtFOSE-M	70		10 - 185
d5-NEtPFOSA	75		10 - 180
13C3 HFPO-DA	77		10 - 169

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 352779

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		28.6	25.82		ug/Kg	☼	90	59 - 132	3	30
Perfluoroheptanoic acid	ND		28.6	25.73		ug/Kg	☼	90	59 - 137	4	30
Perfluorooctanoic acid	ND		28.6	27.49		ug/Kg	☼	96	59 - 131	5	30
Perfluorononanoic acid	ND		28.6	28.50		ug/Kg	☼	100	61 - 134	3	30
Perfluorodecanoic acid	ND		28.6	24.72		ug/Kg	☼	87	56 - 133	10	30
Perfluorotridecanoic acid	ND		28.6	23.79		ug/Kg	☼	83	53 - 143	3	30
Perfluorotetradecanoic acid	ND		28.6	27.83		ug/Kg	☼	97	62 - 134	1	30
Perfluorobutanesulfonic acid	ND		25.3	24.42		ug/Kg	☼	97	54 - 130	3	30
Perfluorohexanesulfonic acid	ND		26.1	25.87		ug/Kg	☼	99	59 - 129	2	30
Perfluorooctanesulfonic acid	ND		26.5	24.70		ug/Kg	☼	93	61 - 126	7	30
NEtFOSAA	ND		28.6	30.43		ug/Kg	☼	106	57 - 127	8	30
NMeFOSAA	ND		28.6	25.99		ug/Kg	☼	91	60 - 134	15	30
10:2 FTS	ND		27.6	27.68		ug/Kg	☼	100	46 - 143	12	30
Perfluoropentanesulfonic acid	ND		26.8	26.51		ug/Kg	☼	99	57 - 133	2	30
Perfluoroheptanesulfonic acid	ND		27.2	24.94		ug/Kg	☼	92	59 - 132	4	30
Perfluorononanesulfonic acid	ND		27.4	25.31		ug/Kg	☼	92	60 - 132	5	30
Perfluorodecanesulfonic acid	ND		27.6	24.69		ug/Kg	☼	90	57 - 132	7	30
Perfluorododecanesulfonic acid (PFDoS)	ND		27.7	23.45		ug/Kg	☼	85	38 - 145	10	30
Perfluorooctanesulfonamide	ND		28.6	27.12		ug/Kg	☼	95	47 - 149	9	30
Perfluorohexadecanoic acid	ND		28.6	24.97		ug/Kg	☼	87	38 - 147	6	30
Perfluorooctadecanoic acid	ND		28.6	28.47		ug/Kg	☼	100	16 - 160	4	30
Perfluorobutanoic acid	ND		28.6	23.51		ug/Kg	☼	82	60 - 128	5	30
Perfluoropentanoic acid	ND		28.6	25.06		ug/Kg	☼	88	58 - 134	5	30
NMeFOSE	ND		28.6	26.47		ug/Kg	☼	93	60 - 130	9	30
NMeFOSA	ND		28.6	25.39		ug/Kg	☼	89	60 - 129	10	30
NEtFOSE	ND		28.6	29.00		ug/Kg	☼	101	60 - 126	0	30
NEtFOSA	ND		28.6	28.36		ug/Kg	☼	99	60 - 123	3	30
HFPODA	ND		28.6	26.48		ug/Kg	☼	93	49 - 135	10	30
DONA	ND		27.0	24.86		ug/Kg	☼	92	57 - 137	8	30
9Cl-PF3ONS	ND		26.6	26.53		ug/Kg	☼	100	62 - 130	4	30
11Cl-PF3OUdS	ND		26.6	26.32		ug/Kg	☼	99	55 - 135	1	30
Perfluorododecanoic acid	ND		28.6	27.50		ug/Kg	☼	96	60 - 135	7	30
4:2 Fluorotelomer sulfonic acid	ND		26.7	25.71		ug/Kg	☼	96	58 - 131	11	30
Perfluoroundecanoic acid	ND		28.6	27.95		ug/Kg	☼	98	60 - 134	5	30
6:2 Fluorotelomer sulfonic acid	ND		27.1	24.99		ug/Kg	☼	92	59 - 135	6	30
8:2 Fluorotelomer sulfonic acid	ND		27.4	30.64		ug/Kg	☼	112	55 - 133	2	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	93		10 - 200

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 352779

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-8:2 FTS	80		15 - 200
M2-6:2 FTS	88		10 - 200
13C5 PFHxA	98		10 - 174
13C4 PFHpA	101		10 - 178
13C8 PFOA	92		26 - 159
13C9 PFNA	91		26 - 165
13C6 PFDA	94		26 - 161
13C7 PFUnA	86		12 - 173
13C2-PFDoDA	87		11 - 166
13C2 PFTeDA	88		10 - 169
13C3 PFBS	88		27 - 179
13C3 PFHxS	91		24 - 171
13C8 PFOS	90		41 - 154
d3-NMeFOSAA	63		10 - 178
d5-NEtFOSAA	60		10 - 193
13C8 FOSA	84		14 - 163
13C4 PFBA	97		28 - 153
13C5 PFPeA	97		24 - 161
d7-N-MeFOSE-M	79		10 - 179
d3-NMePFOSA	78		10 - 175
d9-N-EtFOSE-M	71		10 - 185
d5-NEtPFOSA	78		10 - 180
13C3 HFPO-DA	89		10 - 169

Lab Sample ID: MB 410-352780/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-352780/1-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
HFPODA	ND		2.00	1.00	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
DONA	ND		3.00	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/13/23 07:31	03/22/23 19:54	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/13/23 07:31	03/22/23 19:54	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*74*		*10 - 200*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
M2-8:2 FTS	*74*		*15 - 200*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
M2-6:2 FTS	*76*		*10 - 200*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C5 PFHxA	*80*		*10 - 174*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C4 PFHpA	*83*		*10 - 178*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C8 PFOA	*81*		*26 - 159*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C9 PFNA	*81*		*26 - 165*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C6 PFDA	*87*		*26 - 161*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C7 PFUnA	*81*		*12 - 173*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C2-PFDoDA	*84*		*11 - 166*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C2 PFTeDA	*80*		*10 - 169*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C3 PFBS	*80*		*27 - 179*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C3 PFHxS	*78*		*24 - 171*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C8 PFOS	*78*		*41 - 154*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
d3-NMeFOSAA	*66*		*10 - 178*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
d5-NEtFOSAA	*66*		*10 - 193*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C8 FOSA	*69*		*14 - 163*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C4 PFBA	*79*		*28 - 153*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C5 PFPeA	*85*		*24 - 161*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
d7-N-MeFOSE-M	*63*		*10 - 179*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
d3-NMePFOSA	*59*		*10 - 175*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
d9-N-EtFOSE-M	*62*		*10 - 185*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
d5-NEtPFOSA	*58*		*10 - 180*	*03/13/23 07:31*	*03/22/23 19:54*	*1*
13C3 HFPO-DA	*68*		*10 - 169*	*03/13/23 07:31*	*03/22/23 19:54*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-352780/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	22.96		ug/Kg		92	59 - 132
Perfluoroheptanoic acid	25.0	22.80		ug/Kg		91	59 - 137
Perfluorooctanoic acid	25.0	23.13		ug/Kg		93	59 - 131
Perfluorononanoic acid	25.0	23.83		ug/Kg		95	61 - 134
Perfluorodecanoic acid	25.0	22.30		ug/Kg		89	56 - 133
Perfluorotridecanoic acid	25.0	21.35		ug/Kg		85	53 - 143
Perfluorotetradecanoic acid	25.0	24.08		ug/Kg		96	62 - 134
Perfluorobutanesulfonic acid	22.1	21.33		ug/Kg		96	54 - 130
Perfluorohexanesulfonic acid	22.8	21.21		ug/Kg		93	59 - 129
Perfluorooctanesulfonic acid	23.1	21.16		ug/Kg		91	61 - 126
NEtFOSAA	25.0	26.57		ug/Kg		106	57 - 127
NMeFOSAA	25.0	24.79		ug/Kg		99	60 - 134
10:2 FTS	24.1	25.20		ug/Kg		105	46 - 143
Perfluoropentanesulfonic acid	23.5	22.50		ug/Kg		96	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.62		ug/Kg		91	59 - 132
Perfluorononanesulfonic acid	24.0	21.64		ug/Kg		90	60 - 132
Perfluorodecanesulfonic acid	24.1	20.41		ug/Kg		85	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	20.51		ug/Kg		85	38 - 145
Perfluorooctanesulfonamide	25.0	24.10		ug/Kg		96	47 - 149
Perfluorohexadecanoic acid	25.0	22.55		ug/Kg		90	38 - 147
Perfluorooctadecanoic acid	25.0	24.17		ug/Kg		97	16 - 160
Perfluorobutanoic acid	25.0	20.85		ug/Kg		83	60 - 128
Perfluoropentanoic acid	25.0	21.29		ug/Kg		85	58 - 134
NMeFOSE	25.0	21.87		ug/Kg		87	60 - 130
NMeFOSA	25.0	22.00		ug/Kg		88	60 - 129
NEtFOSE	25.0	23.57		ug/Kg		94	60 - 126
NEtFOSA	25.0	24.11		ug/Kg		96	60 - 123
HFPODA	25.0	23.82		ug/Kg		95	49 - 135
DONA	23.6	21.72		ug/Kg		92	57 - 137
9Cl-PF3ONS	23.3	23.06		ug/Kg		99	62 - 130
11Cl-PF3OUdS	23.3	22.50		ug/Kg		97	55 - 135
Perfluorododecanoic acid	25.0	22.02		ug/Kg		88	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	22.38		ug/Kg		96	58 - 131
Perfluoroundecanoic acid	25.0	23.83		ug/Kg		95	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	21.69		ug/Kg		92	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	25.47		ug/Kg		106	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*93*		*10 - 200*
M2-8:2 FTS	*79*		*15 - 200*
M2-6:2 FTS	*85*		*10 - 200*
13C5 PFHxA	*97*		*10 - 174*
13C4 PFHpA	*93*		*10 - 178*
13C8 PFOA	*93*		*26 - 159*
13C9 PFNA	*97*		*26 - 165*
13C6 PFDA	*91*		*26 - 161*
13C7 PFUnA	*89*		*12 - 173*
13C2-PFDoDA	*90*		*11 - 166*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-352780/3-B
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352780

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFTeDA	87		10 - 169
13C3 PFBS	83		27 - 179
13C3 PFHxS	87		24 - 171
13C8 PFOS	92		41 - 154
d3-NMeFOSAA	75		10 - 178
d5-NEtFOSAA	74		10 - 193
13C8 FOSA	78		14 - 163
13C4 PFBA	91		28 - 153
13C5 PFPeA	94		24 - 161
d7-N-MeFOSE-M	82		10 - 179
d3-NMePFOSA	70		10 - 175
d9-N-EtFOSE-M	75		10 - 185
d5-NEtPFOSA	66		10 - 180
13C3 HFPO-DA	87		10 - 169

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 352780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	ND		25.9	23.66		ug/Kg	☼	91	59 - 132
Perfluoroheptanoic acid	ND		25.9	24.63		ug/Kg	☼	95	59 - 137
Perfluorooctanoic acid	ND		25.9	24.18		ug/Kg	☼	93	59 - 131
Perfluorononanoic acid	ND		25.9	24.80		ug/Kg	☼	96	61 - 134
Perfluorodecanoic acid	ND		25.9	23.63		ug/Kg	☼	91	56 - 133
Perfluorotridecanoic acid	ND		25.9	22.67		ug/Kg	☼	88	53 - 143
Perfluorotetradecanoic acid	ND		25.9	23.50		ug/Kg	☼	91	62 - 134
Perfluorobutanesulfonic acid	ND		22.9	22.10		ug/Kg	☼	96	54 - 130
Perfluorohexanesulfonic acid	ND		23.6	22.30		ug/Kg	☼	94	59 - 129
Perfluorooctanesulfonic acid	ND		24.0	22.20		ug/Kg	☼	93	61 - 126
NEtFOSAA	ND		25.9	25.34		ug/Kg	☼	98	57 - 127
NMeFOSAA	ND		25.9	25.73		ug/Kg	☼	99	60 - 134
10:2 FTS	ND		25.0	28.99		ug/Kg	☼	116	46 - 143
Perfluoropentanesulfonic acid	ND		24.3	24.15		ug/Kg	☼	99	57 - 133
Perfluoroheptanesulfonic acid	ND		24.6	22.74		ug/Kg	☼	92	59 - 132
Perfluorononanesulfonic acid	ND		24.8	21.98		ug/Kg	☼	88	60 - 132
Perfluorodecanesulfonic acid	ND		25.0	21.93		ug/Kg	☼	88	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	ND		25.1	20.74		ug/Kg	☼	83	38 - 145
Perfluorooctanesulfonamide	ND		25.9	25.60		ug/Kg	☼	99	47 - 149
Perfluorohexadecanoic acid	ND		25.9	22.61		ug/Kg	☼	87	38 - 147
Perfluorooctadecanoic acid	ND		25.9	24.51		ug/Kg	☼	95	16 - 160
Perfluorobutanoic acid	ND		25.9	21.73		ug/Kg	☼	84	60 - 128
Perfluoropentanoic acid	ND		25.9	22.33		ug/Kg	☼	86	58 - 134
NMeFOSE	ND		25.9	23.55		ug/Kg	☼	91	60 - 130
NMeFOSA	ND		25.9	24.27		ug/Kg	☼	94	60 - 129
NEtFOSE	ND		25.9	23.90		ug/Kg	☼	92	60 - 126
NEtFOSA	ND		25.9	23.95		ug/Kg	☼	93	60 - 123
HFPODA	ND		25.9	22.24		ug/Kg	☼	86	49 - 135

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 352780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
DONA	ND		24.5	23.70		ug/Kg	☼	97	57 - 137
9Cl-PF3ONS	ND		24.1	23.56		ug/Kg	☼	98	62 - 130
11Cl-PF3OUdS	ND		24.1	22.09		ug/Kg	☼	92	55 - 135
Perfluorododecanoic acid	ND		25.9	25.07		ug/Kg	☼	97	60 - 135
4:2 Fluorotelomer sulfonic acid	ND		24.2	24.80		ug/Kg	☼	103	58 - 131
Perfluoroundecanoic acid	ND		25.9	25.42		ug/Kg	☼	98	60 - 134
6:2 Fluorotelomer sulfonic acid	ND		24.5	23.48		ug/Kg	☼	96	59 - 135
8:2 Fluorotelomer sulfonic acid	ND		24.8	28.45		ug/Kg	☼	115	55 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*84*		*10 - 200*
M2-8:2 FTS	*70*		*15 - 200*
M2-6:2 FTS	*82*		*10 - 200*
13C5 PFHxA	*93*		*10 - 174*
13C4 PFHpA	*91*		*10 - 178*
13C8 PFOA	*92*		*26 - 159*
13C9 PFNA	*89*		*26 - 165*
13C6 PFDA	*88*		*26 - 161*
13C7 PFUnA	*81*		*12 - 173*
13C2-PFDoDA	*82*		*11 - 166*
13C2 PFTeDA	*86*		*10 - 169*
13C3 PFBS	*85*		*27 - 179*
13C3 PFHxS	*87*		*24 - 171*
13C8 PFOS	*89*		*41 - 154*
d3-NMeFOSAA	*60*		*10 - 178*
d5-NEtFOSAA	*64*		*10 - 193*
13C8 FOSA	*79*		*14 - 163*
13C4 PFBA	*91*		*28 - 153*
13C5 PFPeA	*91*		*24 - 161*
d7-N-MeFOSE-M	*79*		*10 - 179*
d3-NMePFOSA	*78*		*10 - 175*
d9-N-EtFOSE-M	*78*		*10 - 185*
d5-NEtPFOSA	*81*		*10 - 180*
13C3 HFPO-DA	*89*		*10 - 169*

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 352780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	ND		25.4	22.87		ug/Kg	☼	90	59 - 132	3	30
Perfluoroheptanoic acid	ND		25.4	22.40		ug/Kg	☼	88	59 - 137	9	30
Perfluorooctanoic acid	ND		25.4	23.41		ug/Kg	☼	92	59 - 131	3	30
Perfluorononanoic acid	ND		25.4	23.89		ug/Kg	☼	94	61 - 134	4	30
Perfluorodecanoic acid	ND		25.4	21.77		ug/Kg	☼	86	56 - 133	8	30
Perfluorotridecanoic acid	ND		25.4	19.49		ug/Kg	☼	77	53 - 143	15	30
Perfluorotetradecanoic acid	ND		25.4	23.15		ug/Kg	☼	91	62 - 134	1	30
Perfluorobutanesulfonic acid	ND		22.5	21.67		ug/Kg	☼	96	54 - 130	2	30
Perfluorohexanesulfonic acid	ND		23.2	20.95		ug/Kg	☼	90	59 - 129	6	30

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 352780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	ND		23.5	21.05		ug/Kg	☼	89	61 - 126	5	30
NEtFOSAA	ND		25.4	26.43		ug/Kg	☼	104	57 - 127	4	30
NMeFOSAA	ND		25.4	24.86		ug/Kg	☼	98	60 - 134	3	30
10:2 FTS	ND		24.5	29.63		ug/Kg	☼	121	46 - 143	2	30
Perfluoropentanesulfonic acid	ND		23.8	21.94		ug/Kg	☼	92	57 - 133	10	30
Perfluoroheptanesulfonic acid	ND		24.2	21.44		ug/Kg	☼	89	59 - 132	6	30
Perfluorononanesulfonic acid	ND		24.4	21.20		ug/Kg	☼	87	60 - 132	4	30
Perfluorodecanesulfonic acid	ND		24.5	20.56		ug/Kg	☼	84	57 - 132	6	30
Perfluorododecanesulfonic acid (PFDoS)	ND		24.6	19.60		ug/Kg	☼	80	38 - 145	6	30
Perfluorooctanesulfonamide	ND		25.4	24.09		ug/Kg	☼	95	47 - 149	6	30
Perfluorohexadecanoic acid	ND		25.4	22.80		ug/Kg	☼	90	38 - 147	1	30
Perfluorooctadecanoic acid	ND		25.4	24.67		ug/Kg	☼	97	16 - 160	1	30
Perfluorobutanoic acid	ND		25.4	20.69		ug/Kg	☼	81	60 - 128	5	30
Perfluoropentanoic acid	ND		25.4	20.98		ug/Kg	☼	83	58 - 134	6	30
NMeFOSE	ND		25.4	22.56		ug/Kg	☼	89	60 - 130	4	30
NMeFOSA	ND		25.4	23.44		ug/Kg	☼	92	60 - 129	3	30
NEtFOSE	ND		25.4	24.68		ug/Kg	☼	97	60 - 126	3	30
NEtFOSA	ND		25.4	24.14		ug/Kg	☼	95	60 - 123	1	30
HFPODA	ND		25.4	22.66		ug/Kg	☼	89	49 - 135	2	30
DONA	ND		24.0	20.23		ug/Kg	☼	84	57 - 137	16	30
9Cl-PF3ONS	ND		23.6	21.84		ug/Kg	☼	92	62 - 130	8	30
11Cl-PF3OUdS	ND		23.6	21.94		ug/Kg	☼	93	55 - 135	1	30
Perfluorododecanoic acid	ND		25.4	21.48		ug/Kg	☼	85	60 - 135	15	30
4:2 Fluorotelomer sulfonic acid	ND		23.7	23.52		ug/Kg	☼	99	58 - 131	5	30
Perfluoroundecanoic acid	ND		25.4	23.91		ug/Kg	☼	94	60 - 134	6	30
6:2 Fluorotelomer sulfonic acid	ND		24.1	25.67		ug/Kg	☼	107	59 - 135	9	30
8:2 Fluorotelomer sulfonic acid	ND		24.3	29.34		ug/Kg	☼	121	55 - 133	3	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
M2-4:2 FTS	*81*		*10 - 200*
M2-8:2 FTS	*76*		*15 - 200*
M2-6:2 FTS	*80*		*10 - 200*
13C5 PFHxA	*90*		*10 - 174*
13C4 PFHpA	*93*		*10 - 178*
13C8 PFOA	*88*		*26 - 159*
13C9 PFNA	*89*		*26 - 165*
13C6 PFDA	*92*		*26 - 161*
13C7 PFUnA	*88*		*12 - 173*
13C2-PFDoDA	*93*		*11 - 166*
13C2 PFTeDA	*89*		*10 - 169*
13C3 PFBS	*87*		*27 - 179*
13C3 PFHxS	*87*		*24 - 171*
13C8 PFOS	*90*		*41 - 154*
d3-NMeFOSAA	*60*		*10 - 178*
d5-NEtFOSAA	*61*		*10 - 193*
13C8 FOSA	*85*		*14 - 163*
13C4 PFBA	*89*		*28 - 153*
13C5 PFPeA	*93*		*24 - 161*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 356249

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 352780

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
d7-N-MeFOSE-M	87		10 - 179
d3-NMePFOSA	85		10 - 175
d9-N-EtFOSE-M	78		10 - 185
d5-NEtPFOSA	83		10 - 180
13C3 HFPO-DA	84		10 - 169

Lab Sample ID: MB 410-357567/1-B
Matrix: Solid
Analysis Batch: 359101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
HFPODA	ND		2.00	1.00	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
DONA	ND		3.00	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/25/23 19:20	03/30/23 17:58	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/25/23 19:20	03/30/23 17:58	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	93		10 - 200	03/25/23 19:20	03/30/23 17:58	1
M2-8:2 FTS	104		15 - 200	03/25/23 19:20	03/30/23 17:58	1
M2-6:2 FTS	102		10 - 200	03/25/23 19:20	03/30/23 17:58	1
13C5 PFHxA	94		10 - 174	03/25/23 19:20	03/30/23 17:58	1
13C4 PFHpA	92		10 - 178	03/25/23 19:20	03/30/23 17:58	1
13C8 PFOA	94		26 - 159	03/25/23 19:20	03/30/23 17:58	1
13C9 PFNA	101		26 - 165	03/25/23 19:20	03/30/23 17:58	1
13C6 PFDA	99		26 - 161	03/25/23 19:20	03/30/23 17:58	1
13C7 PFUnA	93		12 - 173	03/25/23 19:20	03/30/23 17:58	1
13C2-PFDoDA	101		11 - 166	03/25/23 19:20	03/30/23 17:58	1
13C2 PFTeDA	87		10 - 169	03/25/23 19:20	03/30/23 17:58	1
13C3 PFBS	104		27 - 179	03/25/23 19:20	03/30/23 17:58	1
13C3 PFHxS	94		24 - 171	03/25/23 19:20	03/30/23 17:58	1
13C8 PFOS	100		41 - 154	03/25/23 19:20	03/30/23 17:58	1
d3-NMeFOSAA	87		10 - 178	03/25/23 19:20	03/30/23 17:58	1
d5-NEtFOSAA	75		10 - 193	03/25/23 19:20	03/30/23 17:58	1
13C8 FOSA	79		14 - 163	03/25/23 19:20	03/30/23 17:58	1
13C4 PFBA	97		28 - 153	03/25/23 19:20	03/30/23 17:58	1
13C5 PFPeA	115		24 - 161	03/25/23 19:20	03/30/23 17:58	1
d7-N-MeFOSE-M	76		10 - 179	03/25/23 19:20	03/30/23 17:58	1
d3-NMePFOSA	76		10 - 175	03/25/23 19:20	03/30/23 17:58	1
d9-N-EtFOSE-M	79		10 - 185	03/25/23 19:20	03/30/23 17:58	1
d5-NEtPFOSA	72		10 - 180	03/25/23 19:20	03/30/23 17:58	1
13C3 HFPO-DA	75		10 - 169	03/25/23 19:20	03/30/23 17:58	1

Lab Sample ID: LCS 410-357567/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359101 — **Prep Batch: 357567**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	21.96		ug/Kg		88	59 - 132
Perfluoroheptanoic acid	25.0	24.37		ug/Kg		97	59 - 137
Perfluorooctanoic acid	25.0	22.53		ug/Kg		90	59 - 131
Perfluorononanoic acid	25.0	21.72		ug/Kg		87	61 - 134
Perfluorodecanoic acid	25.0	22.97		ug/Kg		92	56 - 133
Perfluorotridecanoic acid	25.0	20.71		ug/Kg		83	53 - 143
Perfluorotetradecanoic acid	25.0	25.52		ug/Kg		102	62 - 134
Perfluorobutanesulfonic acid	22.1	21.67		ug/Kg		98	54 - 130
Perfluorohexanesulfonic acid	22.8	21.02		ug/Kg		92	59 - 129
Perfluorooctanesulfonic acid	23.1	20.03		ug/Kg		87	61 - 126
NEtFOSAA	25.0	23.52		ug/Kg		94	57 - 127
NMeFOSAA	25.0	23.53		ug/Kg		94	60 - 134
10:2 FTS	24.1	20.09		ug/Kg		83	46 - 143
Perfluoropentanesulfonic acid	23.5	24.95		ug/Kg		106	57 - 133
Perfluoroheptanesulfonic acid	23.8	22.29		ug/Kg		94	59 - 132
Perfluorononanesulfonic acid	24.0	21.03		ug/Kg		88	60 - 132
Perfluorodecanesulfonic acid	24.1	20.89		ug/Kg		87	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	19.40		ug/Kg		80	38 - 145
Perfluorooctanesulfonamide	25.0	25.67		ug/Kg		103	47 - 149
Perfluorohexadecanoic acid	25.0	20.66		ug/Kg		83	38 - 147
Perfluorooctadecanoic acid	25.0	23.60		ug/Kg		94	16 - 160

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-357567/2-B
Matrix: Solid
Analysis Batch: 359101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	25.0	21.27		ug/Kg		85	60 - 128
Perfluoropentanoic acid	25.0	20.36		ug/Kg		81	58 - 134
NMeFOSE	25.0	25.83		ug/Kg		103	60 - 130
NMeFOSA	25.0	23.63		ug/Kg		95	60 - 129
NEtFOSE	25.0	21.58		ug/Kg		86	60 - 126
NEtFOSA	25.0	25.49		ug/Kg		102	60 - 123
HFPODA	25.0	22.21		ug/Kg		89	49 - 135
DONA	23.6	23.43		ug/Kg		99	57 - 137
9Cl-PF3ONS	23.3	19.35		ug/Kg		83	62 - 130
11Cl-PF3OUdS	23.3	18.91		ug/Kg		81	55 - 135
Perfluorododecanoic acid	25.0	22.23		ug/Kg		89	60 - 135
4:2 Fluorotelomer sulfonic acid	23.4	22.90		ug/Kg		98	58 - 131
Perfluoroundecanoic acid	25.0	22.71		ug/Kg		91	60 - 134
6:2 Fluorotelomer sulfonic acid	23.7	22.56		ug/Kg		95	59 - 135
8:2 Fluorotelomer sulfonic acid	24.0	21.48		ug/Kg		90	55 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*101*		*10 - 200*
M2-8:2 FTS	*107*		*15 - 200*
M2-6:2 FTS	*101*		*10 - 200*
13C5 PFHxA	*100*		*10 - 174*
13C4 PFHpA	*97*		*10 - 178*
13C8 PFOA	*99*		*26 - 159*
13C9 PFNA	*103*		*26 - 165*
13C6 PFDA	*96*		*26 - 161*
13C7 PFUnA	*94*		*12 - 173*
13C2-PFDoDA	*100*		*11 - 166*
13C2 PFTeDA	*94*		*10 - 169*
13C3 PFBS	*101*		*27 - 179*
13C3 PFHxS	*102*		*24 - 171*
13C8 PFOS	*102*		*41 - 154*
d3-NMeFOSAA	*93*		*10 - 178*
d5-NEtFOSAA	*85*		*10 - 193*
13C8 FOSA	*86*		*14 - 163*
13C4 PFBA	*99*		*28 - 153*
13C5 PFPeA	*115*		*24 - 161*
d7-N-MeFOSE-M	*80*		*10 - 179*
d3-NMePFOSA	*82*		*10 - 175*
d9-N-EtFOSE-M	*83*		*10 - 185*
d5-NEtPFOSA	*74*		*10 - 180*
13C3 HFPO-DA	*88*		*10 - 169*

Lab Sample ID: MB 410-358121/1-B
Matrix: Solid
Analysis Batch: 359149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 358121

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluoroheptanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-358121/1-B
Matrix: Solid
Analysis Batch: 359149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 358121

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorononanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorodecanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorotridecanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorotetradecanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorobutanesulfonic acid	ND		2.00	0.400	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorohexanesulfonic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorooctanesulfonic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
NEtFOSAA	ND		2.00	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
NMeFOSAA	ND		2.00	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
10:2 FTS	ND		2.00	0.600	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluoropentanesulfonic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluoroheptanesulfonic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorononanesulfonic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorodecanesulfonic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorooctanesulfonamide	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorohexadecanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorooctadecanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorobutanoic acid	ND		2.00	0.800	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluoropentanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
NMeFOSE	ND		2.00	0.500	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
NMeFOSA	ND		2.00	0.500	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
NEtFOSE	ND		2.00	0.500	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
NEtFOSA	ND		2.00	0.500	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
HFPODA	ND		2.00	1.00	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
DONA	ND		3.00	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
9Cl-PF3ONS	ND		2.00	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
11Cl-PF3OUdS	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluorododecanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
Perfluoroundecanoic acid	ND		0.600	0.200	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ug/Kg		03/28/23 09:11	03/30/23 17:42	1
8:2 Fluorotelomer sulfonic acid	ND		3.00	0.600	ug/Kg		03/28/23 09:11	03/30/23 17:42	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
M2-8:2 FTS	*106*		*15 - 200*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
M2-6:2 FTS	*124*		*10 - 200*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C5 PFHxA	*118*		*10 - 174*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C4 PFHpA	*120*		*10 - 178*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C8 PFOA	*116*		*26 - 159*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C9 PFNA	*109*		*26 - 165*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C6 PFDA	*106*		*26 - 161*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C7 PFUnA	*100*		*12 - 173*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C2-PFDoDA	*108*		*11 - 166*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C2 PFTeDA	*106*		*10 - 169*	*03/28/23 09:11*	*03/30/23 17:42*	*1*
13C3 PFBS	*101*		*27 - 179*	*03/28/23 09:11*	*03/30/23 17:42*	*1*

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-358121/1-B
Matrix: Solid
Analysis Batch: 359149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 358121

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFHxS	114		24 - 171	03/28/23 09:11	03/30/23 17:42	1
13C8 PFOS	107		41 - 154	03/28/23 09:11	03/30/23 17:42	1
d3-NMeFOSAA	87		10 - 178	03/28/23 09:11	03/30/23 17:42	1
d5-NEtFOSAA	91		10 - 193	03/28/23 09:11	03/30/23 17:42	1
13C8 FOSA	95		14 - 163	03/28/23 09:11	03/30/23 17:42	1
13C4 PFBA	107		28 - 153	03/28/23 09:11	03/30/23 17:42	1
13C5 PFPeA	102		24 - 161	03/28/23 09:11	03/30/23 17:42	1
d7-N-MeFOSE-M	96		10 - 179	03/28/23 09:11	03/30/23 17:42	1
d3-NMePFOSA	84		10 - 175	03/28/23 09:11	03/30/23 17:42	1
d9-N-EtFOSE-M	98		10 - 185	03/28/23 09:11	03/30/23 17:42	1
d5-NEtPFOSA	90		10 - 180	03/28/23 09:11	03/30/23 17:42	1
13C3 HFPO-DA	96		10 - 169	03/28/23 09:11	03/30/23 17:42	1

Lab Sample ID: LCS 410-358121/2-B
Matrix: Solid
Analysis Batch: 359149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 358121

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.0	23.92		ug/Kg		96	59 - 132
Perfluoroheptanoic acid	25.0	24.61		ug/Kg		98	59 - 137
Perfluorooctanoic acid	25.0	23.47		ug/Kg		94	59 - 131
Perfluorononanoic acid	25.0	24.94		ug/Kg		100	61 - 134
Perfluorodecanoic acid	25.0	24.75		ug/Kg		99	56 - 133
Perfluorotridecanoic acid	25.0	24.35		ug/Kg		97	53 - 143
Perfluorotetradecanoic acid	25.0	23.79		ug/Kg		95	62 - 134
Perfluorobutanesulfonic acid	22.1	22.11		ug/Kg		100	54 - 130
Perfluorohexanesulfonic acid	22.8	20.41		ug/Kg		90	59 - 129
Perfluorooctanesulfonic acid	23.1	21.93		ug/Kg		95	61 - 126
NEtFOSAA	25.0	25.89		ug/Kg		104	57 - 127
NMeFOSAA	25.0	23.98		ug/Kg		96	60 - 134
10:2 FTS	24.1	23.84		ug/Kg		99	46 - 143
Perfluoropentanesulfonic acid	23.5	22.12		ug/Kg		94	57 - 133
Perfluoroheptanesulfonic acid	23.8	21.50		ug/Kg		90	59 - 132
Perfluorononanesulfonic acid	24.0	22.29		ug/Kg		93	60 - 132
Perfluorodecanesulfonic acid	24.1	22.66		ug/Kg		94	57 - 132
Perfluorododecanesulfonic acid (PFDoS)	24.2	22.45		ug/Kg		93	38 - 145
Perfluorooctanesulfonamide	25.0	25.57		ug/Kg		102	47 - 149
Perfluorohexadecanoic acid	25.0	21.95		ug/Kg		88	38 - 147
Perfluorooctadecanoic acid	25.0	23.12		ug/Kg		92	16 - 160
Perfluorobutanoic acid	25.0	21.98		ug/Kg		88	60 - 128
Perfluoropentanoic acid	25.0	21.31		ug/Kg		85	58 - 134
NMeFOSE	25.0	24.25		ug/Kg		97	60 - 130
NMeFOSA	25.0	24.48		ug/Kg		98	60 - 129
NEtFOSE	25.0	24.21		ug/Kg		97	60 - 126
NEtFOSA	25.0	24.07		ug/Kg		96	60 - 123
HFPODA	25.0	22.57		ug/Kg		90	49 - 135
DONA	23.6	22.35		ug/Kg		95	57 - 137
9Cl-PF3ONS	23.3	22.75		ug/Kg		98	62 - 130

Method: EPA 537 (Mod) - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-358121/2-B
Matrix: Solid
Analysis Batch: 359149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 358121

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
11Cl-PF3OUdS			23.3	23.35		ug/Kg		100	55 - 135		
Perfluorododecanoic acid			25.0	23.61		ug/Kg		94	60 - 135		
4:2 Fluorotelomer sulfonic acid			23.4	21.18		ug/Kg		91	58 - 131		
Perfluoroundecanoic acid			25.0	24.44		ug/Kg		98	60 - 134		
6:2 Fluorotelomer sulfonic acid			23.7	24.42		ug/Kg		103	59 - 135		
8:2 Fluorotelomer sulfonic acid			24.0	23.00		ug/Kg		96	55 - 133		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*118*		*10 - 200*
M2-8:2 FTS	*106*		*15 - 200*
M2-6:2 FTS	*105*		*10 - 200*
13C5 PFHxA	*107*		*10 - 174*
13C4 PFHpA	*107*		*10 - 178*
13C8 PFOA	*108*		*26 - 159*
13C9 PFNA	*103*		*26 - 165*
13C6 PFDA	*100*		*26 - 161*
13C7 PFUnA	*104*		*12 - 173*
13C2-PFDoDA	*106*		*11 - 166*
13C2 PFTeDA	*106*		*10 - 169*
13C3 PFBS	*109*		*27 - 179*
13C3 PFHxS	*115*		*24 - 171*
13C8 PFOS	*103*		*41 - 154*
d3-NMeFOSAA	*95*		*10 - 178*
d5-NEtFOSAA	*90*		*10 - 193*
13C8 FOSA	*96*		*14 - 163*
13C4 PFBA	*104*		*28 - 153*
13C5 PFPeA	*109*		*24 - 161*
d7-N-MeFOSE-M	*95*		*10 - 179*
d3-NMePFOSA	*83*		*10 - 175*
d9-N-EtFOSE-M	*95*		*10 - 185*
d5-NEtPFOSA	*87*		*10 - 180*
13C3 HFPO-DA	*99*		*10 - 169*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 410-352163/1-A
Matrix: Solid
Analysis Batch: 353588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Arsenic	ND		3.00	1.40	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Barium	ND		0.500	0.150	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Beryllium	ND		0.500	0.100	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Cadmium	ND		0.500	0.100	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Chromium	ND		1.50	0.350	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Lead	ND		1.50	0.600	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Nickel	ND		1.00	0.260	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Selenium	ND		5.00	1.50	mg/Kg		03/10/23 04:52	03/14/23 09:42	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 410-352163/1-A
Matrix: Solid
Analysis Batch: 353588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.00	0.400	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Thallium	ND		3.00	1.30	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Vanadium	ND		1.00	0.430	mg/Kg		03/10/23 04:52	03/14/23 09:42	1
Zinc	ND		2.00	0.800	mg/Kg		03/10/23 04:52	03/14/23 09:42	1

Lab Sample ID: LCS 410-352163/2-A
Matrix: Solid
Analysis Batch: 353588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.939		mg/Kg		99	80 - 120
Arsenic	50.0	50.20		mg/Kg		100	80 - 120
Barium	50.0	50.38		mg/Kg		101	80 - 120
Beryllium	5.00	4.903		mg/Kg		98	80 - 120
Cadmium	5.00	5.015		mg/Kg		100	80 - 120
Chromium	50.0	49.90		mg/Kg		100	80 - 120
Lead	5.00	4.528		mg/Kg		91	80 - 120
Nickel	50.0	51.75		mg/Kg		104	80 - 120
Selenium	10.0	11.11		mg/Kg		111	80 - 120
Silver	5.00	5.345		mg/Kg		107	80 - 120
Thallium	10.0	10.00		mg/Kg		100	80 - 120
Vanadium	50.0	48.91		mg/Kg		98	80 - 120
Zinc	50.0	49.24		mg/Kg		98	80 - 120

Lab Sample ID: MB 410-352756/1-A
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Arsenic	ND		3.00	1.40	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Barium	ND		0.500	0.150	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Beryllium	ND		0.500	0.100	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Cadmium	ND		0.500	0.100	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Chromium	ND		1.50	0.350	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Copper	ND		2.00	0.770	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Lead	ND		1.50	0.600	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Nickel	ND		1.00	0.260	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Selenium	ND		5.00	1.50	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Silver	ND		1.00	0.400	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Thallium	ND		3.00	1.30	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Vanadium	ND		1.00	0.430	mg/Kg		03/13/23 05:34	03/15/23 17:29	1
Zinc	ND		2.00	0.800	mg/Kg		03/13/23 05:34	03/15/23 17:29	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-352756/2-A
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.03		mg/Kg		100	80 - 120
Arsenic	50.0	48.65		mg/Kg		97	80 - 120
Barium	50.0	50.96		mg/Kg		102	80 - 120
Beryllium	5.00	5.234		mg/Kg		105	80 - 120
Cadmium	5.00	4.988		mg/Kg		100	80 - 120
Chromium	50.0	50.79		mg/Kg		102	80 - 120
Copper	50.0	50.22		mg/Kg		100	80 - 120
Lead	5.00	5.546		mg/Kg		111	80 - 120
Nickel	50.0	51.41		mg/Kg		103	80 - 120
Selenium	10.0	9.590		mg/Kg		96	80 - 120
Silver	5.00	4.854		mg/Kg		97	80 - 120
Thallium	10.0	10.16		mg/Kg		102	80 - 120
Vanadium	50.0	49.56		mg/Kg		99	80 - 120
Zinc	50.0	48.07		mg/Kg		96	80 - 120

Lab Sample ID: MB 410-353182/1-A
Matrix: Solid
Analysis Batch: 353617

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Arsenic	ND		3.00	1.40	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Barium	ND		0.500	0.150	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Beryllium	ND		0.500	0.100	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Cadmium	ND		0.500	0.100	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Chromium	ND		1.50	0.350	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Lead	ND		1.50	0.600	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Nickel	ND		1.00	0.260	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Selenium	ND		5.00	1.50	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Silver	ND	^3+	1.00	0.400	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Thallium	ND		3.00	1.30	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Vanadium	ND		1.00	0.430	mg/Kg		03/14/23 05:45	03/14/23 16:57	1
Zinc	ND	^5-	2.00	0.800	mg/Kg		03/14/23 05:45	03/14/23 16:57	1

Lab Sample ID: LCS 410-353182/2-A
Matrix: Solid
Analysis Batch: 353617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.27		mg/Kg		103	80 - 120
Arsenic	50.0	50.90		mg/Kg		102	80 - 120
Barium	50.0	52.71		mg/Kg		105	80 - 120
Beryllium	5.00	5.321		mg/Kg		106	80 - 120
Cadmium	5.00	5.103		mg/Kg		102	80 - 120
Chromium	50.0	52.77		mg/Kg		106	80 - 120
Lead	5.00	5.678		mg/Kg		114	80 - 120
Nickel	50.0	52.41		mg/Kg		105	80 - 120
Selenium	10.0	10.27		mg/Kg		103	80 - 120
Silver	5.00	5.577	^3+	mg/Kg		112	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-353182/2-A
Matrix: Solid
Analysis Batch: 353617

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	10.0	10.58		mg/Kg		106	80 - 120
Vanadium	50.0	51.28		mg/Kg		103	80 - 120
Zinc	50.0	49.98	^5-	mg/Kg		100	80 - 120

Lab Sample ID: MB 410-353270/1-A
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Arsenic	ND		3.00	1.40	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Barium	ND		0.500	0.150	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Beryllium	ND		0.500	0.100	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Cadmium	ND		0.500	0.100	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Chromium	ND		1.50	0.350	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Lead	ND		1.50	0.600	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Nickel	ND		1.00	0.260	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Selenium	ND		5.00	1.50	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Silver	ND		1.00	0.400	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Thallium	ND		3.00	1.30	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Vanadium	ND		1.00	0.430	mg/Kg		03/14/23 09:00	03/15/23 20:33	1
Zinc	ND		2.00	0.800	mg/Kg		03/14/23 09:00	03/15/23 20:33	1

Lab Sample ID: LCS 410-353270/2-A
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.02		mg/Kg		100	80 - 120
Arsenic	50.0	48.42		mg/Kg		97	80 - 120
Barium	50.0	51.30		mg/Kg		103	80 - 120
Beryllium	5.00	5.340		mg/Kg		107	80 - 120
Cadmium	5.00	5.081		mg/Kg		102	80 - 120
Chromium	50.0	52.14		mg/Kg		104	80 - 120
Lead	5.00	5.584		mg/Kg		112	80 - 120
Nickel	50.0	52.59		mg/Kg		105	80 - 120
Selenium	10.0	10.28		mg/Kg		103	80 - 120
Silver	5.00	5.059		mg/Kg		101	80 - 120
Thallium	10.0	10.52		mg/Kg		105	80 - 120
Vanadium	50.0	50.24		mg/Kg		100	80 - 120
Zinc	50.0	48.84		mg/Kg		98	80 - 120

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND	F1	12.6	8.593	F1	mg/Kg	☼	68	75 - 125
Arsenic	3.94		62.9	62.65		mg/Kg	☼	93	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	109	F1	62.9	173.1		mg/Kg	☼	102	75 - 125
Beryllium	1.62		6.29	8.050		mg/Kg	☼	102	75 - 125
Cadmium	ND		6.29	5.919		mg/Kg	☼	94	75 - 125
Chromium	31.2		62.9	89.90		mg/Kg	☼	93	75 - 125
Lead	10.1	F1	6.29	15.28		mg/Kg	☼	83	75 - 125
Nickel	15.6		62.9	72.43		mg/Kg	☼	90	75 - 125
Selenium	ND		12.6	11.69		mg/Kg	☼	93	75 - 125
Silver	0.433	J	6.29	6.390		mg/Kg	☼	95	75 - 125
Vanadium	50.8	F1	62.9	104.2		mg/Kg	☼	85	75 - 125
Zinc	65.9	F1	62.9	109.9	F1	mg/Kg	☼	70	75 - 125

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		12.6	ND		mg/Kg	☼	NC	75 - 125

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND	F1	10.7	7.731	F1	mg/Kg	☼	73	75 - 125	11	30
Arsenic	3.94		53.3	51.43		mg/Kg	☼	89	75 - 125	20	30
Barium	109	F1	53.3	128.4	F1	mg/Kg	☼	37	75 - 125	30	30
Beryllium	1.62		5.33	6.414		mg/Kg	☼	90	75 - 125	23	30
Cadmium	ND		5.33	4.968		mg/Kg	☼	93	75 - 125	17	30
Chromium	31.2		53.3	70.93		mg/Kg	☼	75	75 - 125	24	30
Lead	10.1	F1	5.33	12.25	F1	mg/Kg	☼	41	75 - 125	22	30
Nickel	15.6		53.3	59.31		mg/Kg	☼	82	75 - 125	20	30
Selenium	ND		10.7	9.968		mg/Kg	☼	94	75 - 125	16	30
Silver	0.433	J	5.33	5.296		mg/Kg	☼	91	75 - 125	19	30
Vanadium	50.8	F1	53.3	78.10	F1	mg/Kg	☼	51	75 - 125	29	30
Zinc	65.9	F1	53.3	85.69	F1	mg/Kg	☼	37	75 - 125	25	30

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	ND		10.7	ND		mg/Kg	☼	NC	75 - 125	NC	30

Lab Sample ID: 620-10149-12 DU
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND	F1	ND		mg/Kg	☼	NC	30
Arsenic	3.94		2.718	J F5	mg/Kg	☼	37	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10149-12 DU
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	109	F1	63.59	F3	mg/Kg	☼	52	30
Beryllium	1.62		0.8627	F3	mg/Kg	☼	61	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	31.2		17.84	F3	mg/Kg	☼	54	30
Lead	10.1	F1	6.483	F3	mg/Kg	☼	43	30
Nickel	15.6		8.458	F3	mg/Kg	☼	59	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	0.433	J	ND		mg/Kg	☼	NC	30
Vanadium	50.8	F1	25.45	F3	mg/Kg	☼	66	30
Zinc	65.9	F1	40.02	F3	mg/Kg	☼	49	30

Lab Sample ID: 620-10149-12 DU
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353270

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	ND		ND		mg/Kg	☼	NC	30

Lab Sample ID: MB 410-353642/1-A
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353642

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Arsenic	ND		3.00	1.40	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Barium	ND		0.500	0.150	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Beryllium	ND		0.500	0.100	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Cadmium	ND		0.500	0.100	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Chromium	0.3801	J	1.50	0.350	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Lead	ND		1.50	0.600	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Nickel	ND		1.00	0.260	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Selenium	ND		5.00	1.50	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Silver	ND		1.00	0.400	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Thallium	ND		3.00	1.30	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Vanadium	ND		1.00	0.430	mg/Kg		03/15/23 05:32	03/15/23 18:16	1
Zinc	ND		2.00	0.800	mg/Kg		03/15/23 05:32	03/15/23 18:16	1

Lab Sample ID: LCS 410-353642/2-A
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	9.988		mg/Kg		100	80 - 120
Arsenic	50.0	48.80		mg/Kg		98	80 - 120
Barium	50.0	50.65		mg/Kg		101	80 - 120
Beryllium	5.00	5.197		mg/Kg		104	80 - 120
Cadmium	5.00	4.989		mg/Kg		100	80 - 120
Chromium	50.0	50.53		mg/Kg		101	80 - 120
Lead	5.00	5.567		mg/Kg		111	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-353642/2-A
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353642

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	50.0	51.28		mg/Kg		103	80 - 120
Selenium	10.0	9.995		mg/Kg		100	80 - 120
Silver	5.00	4.875		mg/Kg		98	80 - 120
Thallium	10.0	10.16		mg/Kg		102	80 - 120
Vanadium	50.0	49.55		mg/Kg		99	80 - 120
Zinc	50.0	48.29		mg/Kg		97	80 - 120

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 353642

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		9.17	8.765		mg/Kg	☼	96	75 - 125
Arsenic	3.02		45.8	46.06		mg/Kg	☼	94	75 - 125
Barium	19.1		45.8	70.85		mg/Kg	☼	113	75 - 125
Beryllium	0.208	J	4.58	4.987		mg/Kg	☼	104	75 - 125
Cadmium	ND		4.58	4.403		mg/Kg	☼	96	75 - 125
Chromium	4.93	B	45.8	50.93		mg/Kg	☼	100	75 - 125
Lead	2.45	F1	4.58	8.421	F1	mg/Kg	☼	130	75 - 125
Nickel	1.94		45.8	47.23		mg/Kg	☼	99	75 - 125
Selenium	ND		9.17	8.846		mg/Kg	☼	97	75 - 125
Silver	ND		4.58	4.398		mg/Kg	☼	96	75 - 125
Thallium	ND		9.17	7.286		mg/Kg	☼	79	75 - 125
Vanadium	7.09		45.8	52.68		mg/Kg	☼	99	75 - 125
Zinc	8.96		45.8	52.87		mg/Kg	☼	96	75 - 125

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 353642

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		11.1	10.25		mg/Kg	☼	93	75 - 125	16	30
Arsenic	3.02		55.4	55.59		mg/Kg	☼	95	75 - 125	19	30
Barium	19.1		55.4	79.64		mg/Kg	☼	109	75 - 125	12	30
Beryllium	0.208	J	5.54	5.947		mg/Kg	☼	104	75 - 125	18	30
Cadmium	ND		5.54	5.299		mg/Kg	☼	96	75 - 125	18	30
Chromium	4.93	B	55.4	59.93		mg/Kg	☼	99	75 - 125	16	30
Lead	2.45	F1	5.54	9.501	F1	mg/Kg	☼	127	75 - 125	12	30
Nickel	1.94		55.4	56.81		mg/Kg	☼	99	75 - 125	18	30
Selenium	ND		11.1	10.97		mg/Kg	☼	99	75 - 125	21	30
Silver	ND		5.54	5.291		mg/Kg	☼	96	75 - 125	18	30
Thallium	ND		11.1	8.658		mg/Kg	☼	78	75 - 125	17	30
Vanadium	7.09		55.4	62.02		mg/Kg	☼	99	75 - 125	16	30
Zinc	8.96		55.4	61.95		mg/Kg	☼	96	75 - 125	16	30

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 620-10149-27 DU
Matrix: Solid
Analysis Batch: 354115

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 353642

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/Kg	☼	NC	30
Arsenic	3.02		3.599		mg/Kg	☼	18	30
Barium	19.1		21.72		mg/Kg	☼	13	30
Beryllium	0.208	J	0.2402	J	mg/Kg	☼	14	30
Cadmium	ND		ND		mg/Kg	☼	NC	30
Chromium	4.93	B	5.953		mg/Kg	☼	19	30
Lead	2.45	F1	3.065		mg/Kg	☼	22	30
Nickel	1.94		2.018		mg/Kg	☼	4	30
Selenium	ND		ND		mg/Kg	☼	NC	30
Silver	ND		ND		mg/Kg	☼	NC	30
Thallium	ND		ND		mg/Kg	☼	NC	30
Vanadium	7.09		7.428		mg/Kg	☼	5	30
Zinc	8.96		9.735		mg/Kg	☼	8	30

Lab Sample ID: MB 410-353918/1-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	1.70	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Arsenic	ND		3.00	1.40	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Barium	ND		0.500	0.150	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Beryllium	ND		0.500	0.100	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Cadmium	ND		0.500	0.100	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Chromium	ND		1.50	0.350	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Lead	ND		1.50	0.600	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Nickel	ND		1.00	0.260	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Selenium	ND		5.00	1.50	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Silver	ND		1.00	0.400	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Thallium	ND		3.00	1.30	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Vanadium	ND		1.00	0.430	mg/Kg		03/15/23 14:43	03/16/23 15:41	1
Zinc	ND		2.00	0.800	mg/Kg		03/15/23 14:43	03/16/23 15:41	1

Lab Sample ID: LCS 410-353918/2-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	10.0	10.15		mg/Kg		101	80 - 120
Arsenic	50.0	48.41		mg/Kg		97	80 - 120
Barium	50.0	49.24		mg/Kg		98	80 - 120
Beryllium	5.00	4.832		mg/Kg		97	80 - 120
Cadmium	5.00	5.023		mg/Kg		100	80 - 120
Chromium	50.0	50.35		mg/Kg		101	80 - 120
Lead	5.00	4.082		mg/Kg		82	80 - 120
Nickel	50.0	50.61		mg/Kg		101	80 - 120
Selenium	10.0	10.06		mg/Kg		101	80 - 120
Silver	5.00	4.697		mg/Kg		94	80 - 120
Thallium	10.0	10.57		mg/Kg		106	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-353918/2-A
Matrix: Solid
Analysis Batch: 354484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vanadium	50.0	49.39		mg/Kg		99	80 - 120
Zinc	50.0	47.49		mg/Kg		95	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-352166/1-A
Matrix: Solid
Analysis Batch: 353056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/10/23 05:20	03/13/23 13:13	1

Lab Sample ID: LCS 410-352166/2-A
Matrix: Solid
Analysis Batch: 353056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1069		mg/Kg		107	80 - 120

Lab Sample ID: MB 410-352727/1-A
Matrix: Solid
Analysis Batch: 353146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/12/23 21:21	03/13/23 19:20	1

Lab Sample ID: LCS 410-352727/2-A
Matrix: Solid
Analysis Batch: 353146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1093		mg/Kg		109	80 - 120

Lab Sample ID: MB 410-353211/1-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/14/23 07:49	03/14/23 12:50	1

Lab Sample ID: LCS 410-353211/2-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.09505		mg/Kg		95	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-353327/1-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/14/23 11:01	03/14/23 13:54	1

Lab Sample ID: LCS 410-353327/2-A
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1053		mg/Kg		105	80 - 120

Lab Sample ID: 620-10149-27 MS
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 353327

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.183	0.2245		mg/Kg	☼	122	75 - 125

Lab Sample ID: 620-10149-27 MSD
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 353327

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.186	0.2250		mg/Kg	☼	121	75 - 125	0	35

Lab Sample ID: 620-10149-27 DU
Matrix: Solid
Analysis Batch: 353417

Client Sample ID: 2023-MW-09-0406'
Prep Type: Total/NA
Prep Batch: 353327

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-353643/1-A
Matrix: Solid
Analysis Batch: 353910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/15/23 05:42	03/15/23 13:29	1

Lab Sample ID: LCS 410-353643/2-A
Matrix: Solid
Analysis Batch: 353910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1019		mg/Kg		102	80 - 120

Lab Sample ID: 620-10149-12 MS
Matrix: Solid
Analysis Batch: 353910

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.193	0.2078		mg/Kg	☼	107	75 - 125

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 620-10149-12 MSD
Matrix: Solid
Analysis Batch: 353910

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.206	0.2292		mg/Kg	☼	111	75 - 125	10	35

Lab Sample ID: 620-10149-12 DU
Matrix: Solid
Analysis Batch: 353910

Client Sample ID: 2023-SB-10-1012'
Prep Type: Total/NA
Prep Batch: 353643

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/Kg	☼	NC	50

Lab Sample ID: MB 410-353921/1-A
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0360	0.0120	mg/Kg		03/15/23 14:55	03/16/23 13:02	1

Lab Sample ID: LCS 410-353921/2-A
Matrix: Solid
Analysis Batch: 354389

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.100	0.1101		mg/Kg		110	80 - 120

Method: Moisture - Percent Moisture

Lab Sample ID: 620-10149-7 DU
Matrix: Solid
Analysis Batch: 20350

Client Sample ID: 2023-SB-10-0002'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.3		12.5	F3	%		11	5
Percent Solids	88.7		87.5		%		1	5

Lab Sample ID: 620-10149-8 DU
Matrix: Solid
Analysis Batch: 20390

Client Sample ID: 2023-SB-10-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16.1		15.9		%		1	5
Percent Solids	83.9		84.1		%		0.3	5

Lab Sample ID: 620-10149-9 DU
Matrix: Solid
Analysis Batch: 20390

Client Sample ID: 2023-SB-10-0406'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13.5		13.0		%		4	5
Percent Solids	86.5		87.0		%		0.6	5

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 620-10149-20 DU
Matrix: Solid
Analysis Batch: 20425

Client Sample ID: 2023-SB-09-0204'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	6.9			7.9	F3	%				13	5
Percent Solids	93.1			92.1		%				1	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

GC/MS VOA

Pre Prep Batch: 20342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-1 - RA	2023-MW-08-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	Frozen Preserve	
620-10149-5 - RA	2023-MW-08-0810'	Total/NA	Solid	Frozen Preserve	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	Frozen Preserve	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-7 - RA	2023-SB-10-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-8 - RA	2023-SB-10-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-9 - RA	2023-SB-10-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	Frozen Preserve	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	Frozen Preserve	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-14 - RA	2023-SB-11-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-15 - RA	2023-SB-11-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	Frozen Preserve	
620-10149-16 - RA	2023-SB-11-0608'	Total/NA	Solid	Frozen Preserve	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	Frozen Preserve	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-21 - RA	2023-SB-09-0406'	Total/NA	Solid	Frozen Preserve	

GC/MS VOA (Continued)

Pre Prep Batch: 20342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	Frozen Preserve	
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	Frozen Preserve	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-25 - RA	2023-MW-09-0002'	Total/NA	Solid	Frozen Preserve	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-26 - RA	2023-MW-09-0204'	Total/NA	Solid	Frozen Preserve	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	Frozen Preserve	
620-10149-28 - RA	2023-MW-09-0608'	Total/NA	Solid	Frozen Preserve	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	Frozen Preserve	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-31	2023-FD-08	Total/NA	Solid	Frozen Preserve	
620-10149-32	2023-FD-09	Total/NA	Solid	Frozen Preserve	
620-10149-33	Trip Blank-08	Total/NA	Solid	Frozen Preserve	
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	Frozen Preserve	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	Frozen Preserve	
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	Frozen Preserve	

Prep Batch: 20472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	5035	20342
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	5035	20342
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	5035	20342
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	5035	20342
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	5035	20342
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	5035	20342
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	5035	20342
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	5035	20342
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	5035	20342
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	5035	20342
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	5035	20342

GC/MS VOA (Continued)

Prep Batch: 20472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20472/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20472/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20472/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	8260C	20472
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	8260C	20472
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	8260C	20472
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	8260C	20472
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	8260C	20472
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	8260C	20472
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	8260C	20472
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	8260C	20472
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	8260C	20472
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	8260C	20472
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	8260C	20472
MB 620-20472/3-A	Method Blank	Total/NA	Solid	8260C	20472
LCS 620-20472/1-A	Lab Control Sample	Total/NA	Solid	8260C	20472
LCSD 620-20472/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20472

Prep Batch: 20516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1 - RA	2023-MW-08-0002'	Total/NA	Solid	5035	20342
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	5035	20342
620-10149-5 - RA	2023-MW-08-0810'	Total/NA	Solid	5035	20342
620-10149-7 - RA	2023-SB-10-0002'	Total/NA	Solid	5035	20342
620-10149-8 - RA	2023-SB-10-0204'	Total/NA	Solid	5035	20342
620-10149-9 - RA	2023-SB-10-0406'	Total/NA	Solid	5035	20342
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	5035	20342
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	5035	20342
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	5035	20342
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	5035	20342
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	5035	20342
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	5035	20342
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	5035	20342
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	5035	20342
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	5035	20342
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	5035	20342
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	5035	20342
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	5035	20342
MB 620-20516/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 20518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1 - RA	2023-MW-08-0002'	Total/NA	Solid	8260C	20516
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	8260C	20516
620-10149-5 - RA	2023-MW-08-0810'	Total/NA	Solid	8260C	20516
620-10149-7 - RA	2023-SB-10-0002'	Total/NA	Solid	8260C	20516

GC/MS VOA (Continued)

Analysis Batch: 20518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-8 - RA	2023-SB-10-0204'	Total/NA	Solid	8260C	20516
620-10149-9 - RA	2023-SB-10-0406'	Total/NA	Solid	8260C	20516
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	8260C	20516
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	8260C	20516
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	8260C	20516
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	8260C	20516
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	8260C	20516
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	8260C	20516
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	8260C	20516
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	8260C	20516
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	8260C	20516
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	8260C	20516
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	8260C	20516
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	8260C	20516
MB 620-20516/3-A	Method Blank	Total/NA	Solid	8260C	20516
LCS 620-20516/1-A	Lab Control Sample	Total/NA	Solid	8260C	20516
LCSD 620-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20516

Analysis Batch: 20544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-14 - RA	2023-SB-11-0204'	Total/NA	Solid	8260C	20572
620-10149-15 - RA	2023-SB-11-0406'	Total/NA	Solid	8260C	20572
620-10149-16 - RA	2023-SB-11-0608'	Total/NA	Solid	8260C	20572
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	8260C	20572
620-10149-21 - RA	2023-SB-09-0406'	Total/NA	Solid	8260C	20572
620-10149-25 - RA	2023-MW-09-0002'	Total/NA	Solid	8260C	20572
620-10149-26 - RA	2023-MW-09-0204'	Total/NA	Solid	8260C	20572
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	8260C	20572
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	8260C	20572
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	8260C	20572
620-10149-32	2023-FD-09	Total/NA	Solid	8260C	20572
620-10149-33	Trip Blank-08	Total/NA	Solid	8260C	20572
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	8260C	20572
MB 620-20572/3-A	Method Blank	Total/NA	Solid	8260C	20572
LCS 620-20572/1-A	Lab Control Sample	Total/NA	Solid	8260C	20572
LCSD 620-20572/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20572

Prep Batch: 20572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-14 - RA	2023-SB-11-0204'	Total/NA	Solid	5035	20342
620-10149-15 - RA	2023-SB-11-0406'	Total/NA	Solid	5035	20342
620-10149-16 - RA	2023-SB-11-0608'	Total/NA	Solid	5035	20342
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	5035	20342
620-10149-21 - RA	2023-SB-09-0406'	Total/NA	Solid	5035	20342
620-10149-25 - RA	2023-MW-09-0002'	Total/NA	Solid	5035	20342
620-10149-26 - RA	2023-MW-09-0204'	Total/NA	Solid	5035	20342
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	5035	20342
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	5035	20342
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	5035	20342
620-10149-32	2023-FD-09	Total/NA	Solid	5035	20342
620-10149-33	Trip Blank-08	Total/NA	Solid	5035	20342

GC/MS VOA (Continued)

Prep Batch: 20572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	5035	20342
MB 620-20572/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20572/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20572/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 20616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	5035	20342
620-10149-28 - RA	2023-MW-09-0608'	Total/NA	Solid	5035	20342
620-10149-31	2023-FD-08	Total/NA	Solid	5035	20342
MB 620-20616/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20616/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20616/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	5035	20342
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	5035	20342

Analysis Batch: 20617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	8260C	20616
620-10149-28 - RA	2023-MW-09-0608'	Total/NA	Solid	8260C	20616
620-10149-31	2023-FD-08	Total/NA	Solid	8260C	20616
MB 620-20616/3-A	Method Blank	Total/NA	Solid	8260C	20616
LCS 620-20616/1-A	Lab Control Sample	Total/NA	Solid	8260C	20616
LCSD 620-20616/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20616
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	8260C	20616
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	8260C	20616

Prep Batch: 20675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	5035	20342
MB 620-20675/3-A	Method Blank	Total/NA	Solid	5035	
LCS 620-20675/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 620-20675/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	5035	20342
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	5035	20342

Analysis Batch: 20676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	8260C	20675
MB 620-20675/3-A	Method Blank	Total/NA	Solid	8260C	20675
LCS 620-20675/1-A	Lab Control Sample	Total/NA	Solid	8260C	20675
LCSD 620-20675/2-A	Lab Control Sample Dup	Total/NA	Solid	8260C	20675
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	8260C	20675
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	8260C	20675

GC/MS Semi VOA

Analysis Batch: 20626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-20629/1-A	Method Blank	Total/NA	Solid	8270D	20629
LCS 620-20629/2-A	Lab Control Sample	Total/NA	Solid	8270D	20629

GC/MS Semi VOA (Continued)

Analysis Batch: 20626 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 620-20629/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20629

Prep Batch: 20629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	3546	
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	3546	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	3546	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	3546	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	3546	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	3546	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	3546	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	3546	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	3546	
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	3546	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	3546	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	3546	
MB 620-20629/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20629/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20629/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	3546	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	3546	

Analysis Batch: 20660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	8270D	20629
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	8270D	20629
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	8270D	20629
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	8270D	20629
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	8270D	20629
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	8270D	20629
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	8270D	20629
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	8270D	20629
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	8270D	20629
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	8270D	20629
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	8270D	20629
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	8270D	20629
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	8270D	20629
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	8270D	20629

Prep Batch: 20685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	3546	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	3546	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	3546	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	3546	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	3546	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	3546	
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	3546	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	3546	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	3546	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 20685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	3546	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	3546	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	3546	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	3546	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	3546	
MB 620-20685/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20685/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20685/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	3546	
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	3546	

Prep Batch: 20686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	3546	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	3546	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	3546	
620-10149-31	2023-FD-08	Total/NA	Solid	3546	
620-10149-32	2023-FD-09	Total/NA	Solid	3546	
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	3546	
MB 620-20686/1-A	Method Blank	Total/NA	Solid	3546	
LCS 620-20686/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 620-20686/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 20699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	8270D	20629
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	8270D	20685
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	8270D	20685
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	8270D	20685
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	8270D	20685
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	8270D	20685
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	8270D	20685
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	8270D	20685
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	8270D	20685
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	8270D	20685
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	8270D	20685
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	8270D	20685
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	8270D	20685
MB 620-20685/1-A	Method Blank	Total/NA	Solid	8270D	20685
MB 620-20686/1-A	Method Blank	Total/NA	Solid	8270D	20686
LCS 620-20686/2-A	Lab Control Sample	Total/NA	Solid	8270D	20686
LCSD 620-20686/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20686

Analysis Batch: 20738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	8270D	20685
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	8270D	20685
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	8270D	20685
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	8270D	20685
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	8270D	20686
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	8270D	20686

GC/MS Semi VOA (Continued)

Analysis Batch: 20738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	8270D	20686
620-10149-31	2023-FD-08	Total/NA	Solid	8270D	20686
620-10149-32	2023-FD-09	Total/NA	Solid	8270D	20686
LCS 620-20685/2-A	Lab Control Sample	Total/NA	Solid	8270D	20685
LCSD 620-20685/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	20685
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	8270D	20685
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	8270D	20685

Analysis Batch: 20762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	8270D	20686

GC VOA

Prep Batch: 661094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	5035A_H	
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	5035A_H	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	5035A_H	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	5035A_H	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	5035A_H	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	5035A_H	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	5035A_H	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	5035A_H	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	5035A_H	
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	5035A_H	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	5035A_H	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	5035A_H	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	5035A_H	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	5035A_H	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	5035A_H	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	5035A_H	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	5035A_H	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	5035A_H	
MB 480-661094/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-661094/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-661094/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	5035A_H	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	5035A_H	

Analysis Batch: 661095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	MAVPH	661094
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	MAVPH	661094
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	MAVPH	661094
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	MAVPH	661094
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	MAVPH	661094
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	MAVPH	661094
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	MAVPH	661094
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	MAVPH	661094
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	MAVPH	661094

GC VOA (Continued)

Analysis Batch: 661095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	MAVPH	661094
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	MAVPH	661094
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	MAVPH	661094
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	MAVPH	661094
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	MAVPH	661094
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	MAVPH	661094
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	MAVPH	661094
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	MAVPH	661094
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	MAVPH	661094
MB 480-661094/1-A	Method Blank	Total/NA	Solid	MAVPH	661094
LCS 480-661094/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	661094
LCSD 480-661094/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	661094
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	MAVPH	661094
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	MAVPH	661094

Analysis Batch: 661242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	MAVPH	661243
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	MAVPH	661243
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	MAVPH	661243
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	MAVPH	661243
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	MAVPH	661243
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	MAVPH	661243
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	MAVPH	661243
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	MAVPH	661243
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	MAVPH	661243
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	MAVPH	661243
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	MAVPH	661243
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	MAVPH	661243
620-10149-31	2023-FD-08	Total/NA	Solid	MAVPH	661243
620-10149-32	2023-FD-09	Total/NA	Solid	MAVPH	661243
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	MAVPH	661243
MB 480-661243/1-A	Method Blank	Total/NA	Solid	MAVPH	661243
LCS 480-661243/2-A	Lab Control Sample	Total/NA	Solid	MAVPH	661243
LCSD 480-661243/3-A	Lab Control Sample Dup	Total/NA	Solid	MAVPH	661243
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	MAVPH	661243
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	MAVPH	661243

Prep Batch: 661243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	5035A_H	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	5035A_H	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	5035A_H	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	5035A_H	
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	5035A_H	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	5035A_H	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	5035A_H	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	5035A_H	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	5035A_H	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	5035A_H	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	5035A_H	

GC VOA (Continued)

Prep Batch: 661243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	5035A_H	
620-10149-31	2023-FD-08	Total/NA	Solid	5035A_H	
620-10149-32	2023-FD-09	Total/NA	Solid	5035A_H	
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	5035A_H	
MB 480-661243/1-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-661243/2-A	Lab Control Sample	Total/NA	Solid	5035A_H	
LCSD 480-661243/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_H	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	5035A_H	
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	5035A_H	

Analysis Batch: 661305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	MA VPH SUM	
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	MA VPH SUM	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	MA VPH SUM	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	MA VPH SUM	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	MA VPH SUM	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	MA VPH SUM	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	MA VPH SUM	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	MA VPH SUM	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	MA VPH SUM	
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	MA VPH SUM	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	MA VPH SUM	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	MA VPH SUM	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	MA VPH SUM	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	MA VPH SUM	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	MA VPH SUM	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	MA VPH SUM	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	MA VPH SUM	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	MA VPH SUM	

Analysis Batch: 661529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	MA VPH SUM	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	MA VPH SUM	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	MA VPH SUM	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	MA VPH SUM	
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	MA VPH SUM	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	MA VPH SUM	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	MA VPH SUM	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	MA VPH SUM	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	MA VPH SUM	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	MA VPH SUM	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	MA VPH SUM	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	MA VPH SUM	
620-10149-31	2023-FD-08	Total/NA	Solid	MA VPH SUM	
620-10149-32	2023-FD-09	Total/NA	Solid	MA VPH SUM	
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	MA VPH SUM	

GC Semi VOA

Prep Batch: 20453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	3540C	
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	3540C	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	3540C	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	3540C	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	3540C	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	3540C	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	3540C	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	3540C	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	3540C	
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	3540C	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	3540C	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	3540C	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	3540C	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	3540C	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	3540C	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	3540C	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	3540C	
MB 620-20453/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20453/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20453/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	3540C	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	3540C	

Prep Batch: 20455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	3540C	
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	3540C	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	3540C	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	3540C	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	3540C	
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	3540C	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	3540C	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	3540C	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	3540C	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	3540C	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	3540C	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	3540C	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	3540C	
620-10149-31	2023-FD-08	Total/NA	Solid	3540C	
620-10149-32	2023-FD-09	Total/NA	Solid	3540C	
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	3540C	
MB 620-20455/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-20455/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-20455/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	3540C	
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	3540C	

Analysis Batch: 20476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	8082	20455
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	8082	20455

GC Semi VOA (Continued)

Analysis Batch: 20476 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	8082	20455
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	8082	20455
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	8082	20455
620-10149-31	2023-FD-08	Total/NA	Solid	8082	20455
MB 620-20455/1-A	Method Blank	Total/NA	Solid	8082	20455
LCS 620-20455/2-A	Lab Control Sample	Total/NA	Solid	8082	20455
LCSD 620-20455/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20455

Analysis Batch: 20477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	8082	20453
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	8082	20453
620-10149-32	2023-FD-09	Total/NA	Solid	8082	20455
MB 620-20453/1-A	Method Blank	Total/NA	Solid	8082	20453
LCS 620-20453/2-A	Lab Control Sample	Total/NA	Solid	8082	20453
LCSD 620-20453/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	20453

Analysis Batch: 20507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	8082	20455
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	8082	20455
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	8082	20455
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	8082	20455
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	8082	20455
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	8082	20455
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	8082	20455
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	8082	20455
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	8082	20455
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	8082	20455
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	8082	20455

Analysis Batch: 20508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	8082	20453
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	8082	20453
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	8082	20453
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	8082	20453
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	8082	20453
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	8082	20453
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	8082	20453
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	8082	20453
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	8082	20453
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	8082	20453
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	8082	20453
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	8082	20453
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	8082	20453
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	8082	20453
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	8082	20453
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	8082	20453
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	8082	20453

LCMS

Prep Batch: 352779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	537 (mod)	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	537 (mod)	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	537 (mod)	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	537 (mod)	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	537 (mod)	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	537 (mod)	
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	537 (mod)	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	537 (mod)	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	537 (mod)	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	537 (mod)	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	537 (mod)	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	537 (mod)	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	537 (mod)	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	537 (mod)	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	537 (mod)	
MB 410-352779/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	537 (mod)	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	537 (mod)	

Prep Batch: 352780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	537 (mod)	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	537 (mod)	
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	537 (mod)	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	537 (mod)	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	537 (mod)	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	537 (mod)	
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	537 (mod)	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	537 (mod)	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	537 (mod)	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	537 (mod)	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	537 (mod)	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	537 (mod)	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	537 (mod)	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	537 (mod)	
620-10149-31 - RE	2023-FD-08	Total/NA	Solid	537 (mod)	
620-10149-32	2023-FD-09	Total/NA	Solid	537 (mod)	
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	537 (mod)	
MB 410-352780/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-352780/3-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	537 (mod)	
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	537 (mod)	

Cleanup Batch: 352924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	Extract Aliquot	352779
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	Extract Aliquot	352779
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	Extract Aliquot	352779
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	Extract Aliquot	352779
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	Extract Aliquot	352779

LCMS (Continued)

Cleanup Batch: 352924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	Extract Aliquot	352779
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	Extract Aliquot	352779
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	Extract Aliquot	352779
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	Extract Aliquot	352779
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	Extract Aliquot	352779
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	Extract Aliquot	352779
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	Extract Aliquot	352779
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	Extract Aliquot	352779
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	Extract Aliquot	352779
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	Extract Aliquot	352779
MB 410-352779/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	352779
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	352779
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	Extract Aliquot	352779
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	Extract Aliquot	352779

Cleanup Batch: 352926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	Extract Aliquot	352780
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	Extract Aliquot	352780
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	Extract Aliquot	352780
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	Extract Aliquot	352780
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	Extract Aliquot	352780
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	Extract Aliquot	352780
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	Extract Aliquot	352780
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	Extract Aliquot	352780
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	Extract Aliquot	352780
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	Extract Aliquot	352780
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	Extract Aliquot	352780
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	Extract Aliquot	352780
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	Extract Aliquot	352780
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	Extract Aliquot	352780
620-10149-31 - RE	2023-FD-08	Total/NA	Solid	Extract Aliquot	352780
620-10149-32	2023-FD-09	Total/NA	Solid	Extract Aliquot	352780
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	Extract Aliquot	352780
MB 410-352780/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	352780
LCS 410-352780/3-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	352780
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	Extract Aliquot	352780
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	Extract Aliquot	352780

Analysis Batch: 356249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	EPA 537 (Mod)	352924

LCMS (Continued)

Analysis Batch: 356249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-31 - RE	2023-FD-08	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-32	2023-FD-09	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	EPA 537 (Mod)	352926
MB 410-352779/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	352924
MB 410-352780/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	352926
LCS 410-352779/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	352924
LCS 410-352780/3-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	EPA 537 (Mod)	352924
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	EPA 537 (Mod)	352926
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	EPA 537 (Mod)	352926

Prep Batch: 357567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-31	2023-FD-08	Total/NA	Solid	537 (mod)	
MB 410-357567/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-357567/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

Cleanup Batch: 357574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-31	2023-FD-08	Total/NA	Solid	Extract Aliquot	357567
MB 410-357567/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	357567
LCS 410-357567/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	357567

Prep Batch: 358121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	537 (mod)	
MB 410-358121/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-358121/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

LCMS

Cleanup Batch: 358162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	Extract Aliquot	358121
MB 410-358121/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	358121
LCS 410-358121/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	358121

Analysis Batch: 359101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-31	2023-FD-08	Total/NA	Solid	EPA 537 (Mod)	357574
MB 410-357567/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	357574
LCS 410-357567/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	357574

Analysis Batch: 359149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	EPA 537 (Mod)	358162
MB 410-358121/1-B	Method Blank	Total/NA	Solid	EPA 537 (Mod)	358162
LCS 410-358121/2-B	Lab Control Sample	Total/NA	Solid	EPA 537 (Mod)	358162

Metals

Prep Batch: 352163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	3050B	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	3050B	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	3050B	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	3050B	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	3050B	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	3050B	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	3050B	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	3050B	
MB 410-352163/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-352163/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 352166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	7471A	
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	7471A	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	7471A	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	7471A	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	7471A	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	7471A	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	7471A	
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	7471A	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	7471A	
MB 410-352166/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-352166/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 352727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	7471A	
MB 410-352727/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-352727/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Metals

Prep Batch: 352756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	3050B	
MB 410-352756/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-352756/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 353056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	7471B	352166
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	7471B	352166
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	7471B	352166
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	7471B	352166
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	7471B	352166
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	7471B	352166
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	7471B	352166
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	7471B	352166
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	7471B	352166
MB 410-352166/1-A	Method Blank	Total/NA	Solid	7471B	352166
LCS 410-352166/2-A	Lab Control Sample	Total/NA	Solid	7471B	352166

Analysis Batch: 353146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	7471B	352727
MB 410-352727/1-A	Method Blank	Total/NA	Solid	7471B	352727
LCS 410-352727/2-A	Lab Control Sample	Total/NA	Solid	7471B	352727

Prep Batch: 353182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	3050B	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	3050B	
MB 410-353182/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-353182/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 353211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	7471A	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	7471A	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	7471A	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	7471A	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	7471A	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	7471A	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	7471A	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	7471A	
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	7471A	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	7471A	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	7471A	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	7471A	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	7471A	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	7471A	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	7471A	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	7471A	
620-10149-32	2023-FD-09	Total/NA	Solid	7471A	
MB 410-353211/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 353211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-353211/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 353270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	3050B	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	3050B	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	3050B	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	3050B	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	3050B	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	3050B	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	3050B	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	3050B	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	3050B	
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	3050B	
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	3050B	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	3050B	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	3050B	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	3050B	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	3050B	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	3050B	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	3050B	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	3050B	
620-10149-31	2023-FD-08	Total/NA	Solid	3050B	
620-10149-32	2023-FD-09	Total/NA	Solid	3050B	
MB 410-353270/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-353270/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	3050B	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	3050B	
620-10149-12 DU	2023-SB-10-1012'	Total/NA	Solid	3050B	

Prep Batch: 353327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	7471A	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	7471A	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	7471A	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	7471A	
620-10149-31	2023-FD-08	Total/NA	Solid	7471A	
MB 410-353327/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-353327/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	7471A	
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	7471A	
620-10149-27 DU	2023-MW-09-0406'	Total/NA	Solid	7471A	

Analysis Batch: 353417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	7471B	353211
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	7471B	353211
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	7471B	353211
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	7471B	353211
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	7471B	353211
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	7471B	353211

Metals (Continued)

Analysis Batch: 353417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	7471B	353211
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	7471B	353211
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	7471B	353211
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	7471B	353211
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	7471B	353211
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	7471B	353211
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	7471B	353327
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	7471B	353327
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	7471B	353211
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	7471B	353211
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	7471B	353327
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	7471B	353211
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	7471B	353327
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	7471B	353211
620-10149-31	2023-FD-08	Total/NA	Solid	7471B	353327
620-10149-32	2023-FD-09	Total/NA	Solid	7471B	353211
MB 410-353211/1-A	Method Blank	Total/NA	Solid	7471B	353211
MB 410-353327/1-A	Method Blank	Total/NA	Solid	7471B	353327
LCS 410-353211/2-A	Lab Control Sample	Total/NA	Solid	7471B	353211
LCS 410-353327/2-A	Lab Control Sample	Total/NA	Solid	7471B	353327
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	7471B	353327
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	7471B	353327
620-10149-27 DU	2023-MW-09-0406'	Total/NA	Solid	7471B	353327

Analysis Batch: 353588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	6010D	352163
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	6010D	352163
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	6010D	352163
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	6010D	352163
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	6010D	352163
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	6010D	352163
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	6010D	352163
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	6010D	352163
MB 410-352163/1-A	Method Blank	Total/NA	Solid	6010D	352163
LCS 410-352163/2-A	Lab Control Sample	Total/NA	Solid	6010D	352163

Analysis Batch: 353617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	6010D	353182
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	6010D	353182
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	6010D	353182
MB 410-353182/1-A	Method Blank	Total/NA	Solid	6010D	353182
LCS 410-353182/2-A	Lab Control Sample	Total/NA	Solid	6010D	353182

Prep Batch: 353642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	3050B	
MB 410-353642/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-353642/2-A	Lab Control Sample	Total/NA	Solid	3050B	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 353642 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	3050B	
620-10149-27 DU	2023-MW-09-0406'	Total/NA	Solid	3050B	

Prep Batch: 353643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	7471A	
MB 410-353643/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-353643/2-A	Lab Control Sample	Total/NA	Solid	7471A	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	7471A	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	7471A	
620-10149-12 DU	2023-SB-10-1012'	Total/NA	Solid	7471A	

Analysis Batch: 353910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	7471B	353643
MB 410-353643/1-A	Method Blank	Total/NA	Solid	7471B	353643
LCS 410-353643/2-A	Lab Control Sample	Total/NA	Solid	7471B	353643
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	7471B	353643
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	7471B	353643
620-10149-12 DU	2023-SB-10-1012'	Total/NA	Solid	7471B	353643

Prep Batch: 353918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	3050B	
MB 410-353918/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 410-353918/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 353921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-353921/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 410-353921/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 354115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	6010D	353270
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	6010D	353270
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	6010D	353270
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	6010D	353270
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	6010D	353270
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	6010D	353270
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	6010D	353270
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	6010D	353270
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	6010D	353270
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	6010D	353270
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	6010D	353270
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	6010D	353270
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	6010D	353270
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	6010D	353270
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	6010D	353270

Metals (Continued)

Analysis Batch: 354115 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	6010D	353270
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	6010D	353270
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	6010D	353270
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	6010D	353642
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	6010D	353270
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	6010D	353270
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	6010D	353270
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	6010D	353270
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	6010D	353270
620-10149-31	2023-FD-08	Total/NA	Solid	6010D	353270
620-10149-32	2023-FD-09	Total/NA	Solid	6010D	353270
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	6010D	352756
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	6010D	352756
MB 410-352756/1-A	Method Blank	Total/NA	Solid	6010D	352756
MB 410-353270/1-A	Method Blank	Total/NA	Solid	6010D	353270
MB 410-353642/1-A	Method Blank	Total/NA	Solid	6010D	353642
LCS 410-352756/2-A	Lab Control Sample	Total/NA	Solid	6010D	352756
LCS 410-353270/2-A	Lab Control Sample	Total/NA	Solid	6010D	353270
LCS 410-353642/2-A	Lab Control Sample	Total/NA	Solid	6010D	353642
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	6010D	353642
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	6010D	353642
620-10149-12 DU	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-12 DU	2023-SB-10-1012'	Total/NA	Solid	6010D	353270
620-10149-27 DU	2023-MW-09-0406'	Total/NA	Solid	6010D	353642

Analysis Batch: 354389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-353921/1-A	Method Blank	Total/NA	Solid	7471B	353921
LCS 410-353921/2-A	Lab Control Sample	Total/NA	Solid	7471B	353921

Analysis Batch: 354484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	6010D	353918
MB 410-353918/1-A	Method Blank	Total/NA	Solid	6010D	353918
LCS 410-353918/2-A	Lab Control Sample	Total/NA	Solid	6010D	353918

General Chemistry

Analysis Batch: 20350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-1	2023-MW-08-0002'	Total/NA	Solid	Moisture	
620-10149-2	2023-MW-08-0204'	Total/NA	Solid	Moisture	
620-10149-3	2023-MW-08-0406'	Total/NA	Solid	Moisture	
620-10149-4	2023-MW-08-0608'	Total/NA	Solid	Moisture	
620-10149-5	2023-MW-08-0810'	Total/NA	Solid	Moisture	
620-10149-6	2023-MW-08-1012'	Total/NA	Solid	Moisture	
620-10149-7	2023-SB-10-0002'	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 20350 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-7 DU	2023-SB-10-0002'	Total/NA	Solid	Moisture	

Analysis Batch: 20387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-34	2023-MW-03-1012'	Total/NA	Solid	Moisture	

Analysis Batch: 20390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-8	2023-SB-10-0204'	Total/NA	Solid	Moisture	
620-10149-9	2023-SB-10-0406'	Total/NA	Solid	Moisture	
620-10149-10	2023-SB-10-0608'	Total/NA	Solid	Moisture	
620-10149-11	2023-SB-10-0810'	Total/NA	Solid	Moisture	
620-10149-12	2023-SB-10-1012'	Total/NA	Solid	Moisture	
620-10149-13	2023-SB-11-0002'	Total/NA	Solid	Moisture	
620-10149-14	2023-SB-11-0204'	Total/NA	Solid	Moisture	
620-10149-15	2023-SB-11-0406'	Total/NA	Solid	Moisture	
620-10149-16	2023-SB-11-0608'	Total/NA	Solid	Moisture	
620-10149-17	2023-SB-11-0810'	Total/NA	Solid	Moisture	
620-10149-18	2023-SB-11-1012'	Total/NA	Solid	Moisture	
620-10149-19	2023-SB-09-0002'	Total/NA	Solid	Moisture	
620-10149-12 MS	2023-SB-10-1012'	Total/NA	Solid	Moisture	
620-10149-12 MSD	2023-SB-10-1012'	Total/NA	Solid	Moisture	
620-10149-8 DU	2023-SB-10-0204'	Total/NA	Solid	Moisture	
620-10149-9 DU	2023-SB-10-0406'	Total/NA	Solid	Moisture	

Analysis Batch: 20425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10149-20	2023-SB-09-0204'	Total/NA	Solid	Moisture	
620-10149-21	2023-SB-09-0406'	Total/NA	Solid	Moisture	
620-10149-22	2023-SB-09-0608'	Total/NA	Solid	Moisture	
620-10149-23	2023-SB-09-0810'	Total/NA	Solid	Moisture	
620-10149-24	2023-SB-09-1012'	Total/NA	Solid	Moisture	
620-10149-25	2023-MW-09-0002'	Total/NA	Solid	Moisture	
620-10149-26	2023-MW-09-0204'	Total/NA	Solid	Moisture	
620-10149-27	2023-MW-09-0406'	Total/NA	Solid	Moisture	
620-10149-28	2023-MW-09-0608'	Total/NA	Solid	Moisture	
620-10149-29	2023-MW-09-0810'	Total/NA	Solid	Moisture	
620-10149-30	2023-MW-09-1012'	Total/NA	Solid	Moisture	
620-10149-31	2023-FD-08	Total/NA	Solid	Moisture	
620-10149-32	2023-FD-09	Total/NA	Solid	Moisture	
620-10149-27 MS	2023-MW-09-0406'	Total/NA	Solid	Moisture	
620-10149-27 MSD	2023-MW-09-0406'	Total/NA	Solid	Moisture	
620-10149-20 DU	2023-SB-09-0204'	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-08-0002' Lab Sample ID: 620-10149-1
Date Collected: 03/06/23 08:45 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20350	DWC	EET NE	03/08/23 09:05

Client Sample ID: 2023-MW-08-0002' Lab Sample ID: 620-10149-1
Date Collected: 03/06/23 08:45 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 92.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 17:12
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C	RA	1	20518	CLR	EET NE	03/14/23 14:15
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 19:23
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 04:51
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 05:50
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 20:27
Total/NA	Prep	3050B			353918	UAMX	ELLE	03/15/23 14:43
Total/NA	Analysis	6010D		1	354484	T8CQ	ELLE	03/16/23 16:19
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:41

Client Sample ID: 2023-MW-08-0204' Lab Sample ID: 620-10149-2
Date Collected: 03/06/23 08:50 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20350	DWC	EET NE	03/08/23 09:05

Client Sample ID: 2023-MW-08-0204' Lab Sample ID: 620-10149-2
Date Collected: 03/06/23 08:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 93.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 17:38

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0204'

Lab Sample ID: 620-10149-2
Date Collected: 03/06/23 08:50
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 13:41
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 05:30
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 21:33
Total/NA	Prep	537 (mod)			358121	BX2W	ELLE	03/28/23 09:11
Total/NA	Cleanup	Extract Aliquot			358162	BX2W	ELLE	03/28/23 10:31
Total/NA	Analysis	EPA 537 (Mod)		1	359149	PY4D	ELLE	03/30/23 18:38
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:35
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:38

Client Sample ID: 2023-MW-08-0406'

Lab Sample ID: 620-10149-3
Date Collected: 03/06/23 08:55
Matrix: Solid
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20350	DWC	EET NE	03/08/23 09:05

Client Sample ID: 2023-MW-08-0406'

Lab Sample ID: 620-10149-3
Date Collected: 03/06/23 08:55
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 18:04
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 17:58
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 06:09
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 21:52
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 20:50
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:38
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:43

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-08-0608' Lab Sample ID: 620-10149-4
Date Collected: 03/06/23 09:00 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20350	DWC	EET NE	03/08/23 09:05

Client Sample ID: 2023-MW-08-0608' Lab Sample ID: 620-10149-4
Date Collected: 03/06/23 09:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 14:41
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 14:09
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 06:48
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 22:11
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:23
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:44
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:45

Client Sample ID: 2023-MW-08-0810' Lab Sample ID: 620-10149-5
Date Collected: 03/06/23 09:05 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20350	DWC	EET NE	03/08/23 09:05

Client Sample ID: 2023-MW-08-0810' Lab Sample ID: 620-10149-5
Date Collected: 03/06/23 09:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 85.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 18:56
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C	RA	1	20518	CLR	EET NE	03/14/23 15:07

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Client Sample ID: 2023-MW-08-0810'

Lab Sample ID: 620-10149-5
Date Collected: 03/06/23 09:05
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 14:37
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 08:07
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 17:10
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:35
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:47
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:49

Client Sample ID: 2023-MW-08-1012'

Lab Sample ID: 620-10149-6
Date Collected: 03/06/23 09:10
Matrix: Solid
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20350	DWC	EET NE	03/08/23 09:05

Client Sample ID: 2023-MW-08-1012'

Lab Sample ID: 620-10149-6
Date Collected: 03/06/23 09:10
Matrix: Solid
Date Received: 03/07/23 16:41
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 19:22
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 18:26
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 08:46
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 17:29
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:46
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:41
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:55

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-10-0002' Lab Sample ID: 620-10149-7

Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20350	DWC	EET NE	03/08/23 09:05

Client Sample ID: 2023-SB-10-0002' Lab Sample ID: 620-10149-7

Date Collected: 03/06/23 09:50 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 88.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 19:48
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C	RA	1	20518	CLR	EET NE	03/14/23 15:33
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 19:51
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 09:25
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 17:48
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 16:57
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:19
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:53

Client Sample ID: 2023-SB-10-0204' Lab Sample ID: 620-10149-8

Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-10-0204' Lab Sample ID: 620-10149-8

Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 20:14

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-10-0204' Lab Sample ID: 620-10149-8

Date Collected: 03/06/23 09:55 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C	RA	1	20518	CLR	EET NE	03/14/23 15:59
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 18:55
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		2	20699	JS	EET NE	03/21/23 16:34
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 10:05
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 18:07
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 17:08
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:22
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:51

Client Sample ID: 2023-SB-10-0406' Lab Sample ID: 620-10149-9

Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-10-0406' Lab Sample ID: 620-10149-9

Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 20:40
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C	RA	1	20518	CLR	EET NE	03/14/23 16:25
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 17:01
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 10:44
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 18:26

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-10-0406' Lab Sample ID: 620-10149-9

Date Collected: 03/06/23 10:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 17:30
Total/NA	Prep	3050B			352163	UAMX	ELLE	03/10/23 04:52
Total/NA	Analysis	6010D		1	353588	T8CQ	ELLE	03/14/23 10:51
Total/NA	Prep	7471A			352166	HUH3	ELLE	03/10/23 05:20
Total/NA	Analysis	7471B		1	353056	UEFS	ELLE	03/13/23 13:47

Client Sample ID: 2023-SB-10-0608' Lab Sample ID: 620-10149-10

Date Collected: 03/06/23 10:05 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-10-0608' Lab Sample ID: 620-10149-10

Date Collected: 03/06/23 10:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 21:06
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 17:29
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 11:23
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 18:45
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 17:41
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 23:08
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:09

Client Sample ID: 2023-SB-10-0810' Lab Sample ID: 620-10149-11

Date Collected: 03/06/23 10:10 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-10-0810' Lab Sample ID: 620-10149-11

Date Collected: 03/06/23 10:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 21:32
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 15:06
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 12:03
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 19:03
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 17:52
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 23:50
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:26

Client Sample ID: 2023-SB-10-1012' Lab Sample ID: 620-10149-12

Date Collected: 03/06/23 10:15 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-10-1012' Lab Sample ID: 620-10149-12

Date Collected: 03/06/23 10:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20616	CLR	EET NE	03/16/23 16:25
Total/NA	Analysis	8260C		1	20617	CLR	EET NE	03/16/23 23:24
Total/NA	Prep	3546			20629	BJJ	EET NE	03/17/23 08:54
Total/NA	Analysis	8270D		1	20660	JS	EET NE	03/20/23 15:34
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 02:53
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 19:22
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 18:03
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 20:39

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-10-1012' — Lab Sample ID: 620-10149-12

Date Collected: 03/06/23 10:15 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/15/23 21:09
Total/NA	Prep	7471A			353643	HUH3	ELLE	03/15/23 05:42
Total/NA	Analysis	7471B		1	353910	UEFS	ELLE	03/15/23 13:34

Client Sample ID: 2023-SB-11-0002' — Lab Sample ID: 620-10149-13

Date Collected: 03/06/23 10:50 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-11-0002' — Lab Sample ID: 620-10149-13

Date Collected: 03/06/23 10:50 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 95.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20472	CLR	EET NE	03/13/23 09:42
Total/NA	Analysis	8260C		1	20473	CLR	EET NE	03/13/23 21:58
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 17:03
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 12:42
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/14/23 06:09
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 18:36
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 21:57
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/15/23 22:01
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:35

Client Sample ID: 2023-SB-11-0204' — Lab Sample ID: 620-10149-14

Date Collected: 03/06/23 10:55 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-11-0204' — Lab Sample ID: 620-10149-14

Date Collected: 03/06/23 10:55 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 85.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 16:52
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C	RA	1	20544	CLR	EET NE	03/15/23 14:42
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 17:31
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 13:21
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 20:18
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 18:48
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 21:44
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:22

Client Sample ID: 2023-SB-11-0406' — Lab Sample ID: 620-10149-15

Date Collected: 03/06/23 11:00 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-11-0406' — Lab Sample ID: 620-10149-15

Date Collected: 03/06/23 11:00 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 17:18
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C	RA	1	20544	CLR	EET NE	03/15/23 15:07
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 17:59
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 14:01
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 20:37

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-11-0406' Lab Sample ID: 620-10149-15

Date Collected: 03/06/23 11:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 18:59
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 22:39
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:24

Client Sample ID: 2023-SB-11-0608' Lab Sample ID: 620-10149-16

Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-11-0608' Lab Sample ID: 620-10149-16

Date Collected: 03/06/23 11:05 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 87.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 17:43
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C	RA	1	20544	CLR	EET NE	03/15/23 15:32
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 18:27
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 15:19
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 20:56
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 19:10
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 23:44
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:43

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-11-0810' Lab Sample ID: 620-10149-17
Date Collected: 03/06/23 11:10 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-11-0810' Lab Sample ID: 620-10149-17
Date Collected: 03/06/23 11:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 86.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 18:09
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 18:56
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 15:58
Total/NA	Prep	3540C			20453	BMS	EET NE	03/10/23 15:38
Total/NA	Analysis	8082		1	20508	SFL	EET NE	03/14/23 21:15
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 19:21
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 23:14
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/15/23 23:18
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:45

Client Sample ID: 2023-SB-11-1012' Lab Sample ID: 620-10149-18
Date Collected: 03/06/23 11:15 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661305	JLS	EET BUF	03/13/23 11:08
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-11-1012' Lab Sample ID: 620-10149-18
Date Collected: 03/06/23 11:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 76.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 18:35
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 19:24

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-11-1012' — Lab Sample ID: 620-10149-18

Date Collected: 03/06/23 11:15 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 76.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_H			661094	JLS	EET BUF	03/10/23 07:32
Total/NA	Analysis	MAVPH		1	661095	JLS	EET BUF	03/11/23 16:38
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 17:07
Total/NA	Prep	537 (mod)			352779	RC3V	ELLE	03/13/23 07:29
Total/NA	Cleanup	Extract Aliquot			352924	RC3V	ELLE	03/13/23 11:16
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 19:32
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 21:51
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/15/23 21:54
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:41

Client Sample ID: 2023-SB-09-0002' — Lab Sample ID: 620-10149-19

Date Collected: 03/06/23 12:10 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20390	DWC	EET NE	03/09/23 09:42

Client Sample ID: 2023-SB-09-0002' — Lab Sample ID: 620-10149-19

Date Collected: 03/06/23 12:10 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 88.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 19:00
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 19:52
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 17:47
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 17:24
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 21:01
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 23:31
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:28

Client Sample ID: 2023-SB-09-0204' — Lab Sample ID: 620-10149-20

Date Collected: 03/06/23 12:15 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-SB-09-0204' — Lab Sample ID: 620-10149-20

Date Collected: 03/06/23 12:15 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 93.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 15:57
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 20:20
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 18:26
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/14/23 02:14
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 21:12
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/16/23 00:06
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:50

Client Sample ID: 2023-SB-09-0406' — Lab Sample ID: 620-10149-21

Date Collected: 03/06/23 12:20 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-SB-09-0406' — Lab Sample ID: 620-10149-21

Date Collected: 03/06/23 12:20 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 19:53
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C	RA	1	20544	CLR	EET NE	03/15/23 16:23

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-0406' Lab Sample ID: 620-10149-21

Date Collected: 03/06/23 12:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 20:49
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		2	20738	JS	EET NE	03/22/23 15:29
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 19:05
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 17:42
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 21:23
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 22:26
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:52

Client Sample ID: 2023-SB-09-0608' Lab Sample ID: 620-10149-22

Date Collected: 03/06/23 12:25 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-SB-09-0608' Lab Sample ID: 620-10149-22

Date Collected: 03/06/23 12:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 20:19
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 21:17
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 19:45
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 22:35
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 21:34
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 22:55
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/15/23 22:58

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-0608' — Lab Sample ID: 620-10149-22

Date Collected: 03/06/23 12:25 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:16

Client Sample ID: 2023-SB-09-0810' — Lab Sample ID: 620-10149-23

Date Collected: 03/06/23 12:30 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-SB-09-0810' — Lab Sample ID: 620-10149-23

Date Collected: 03/06/23 12:30 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 78.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 20:45
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 21:45
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 21:04
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 22:53
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 21:45
Total/NA	Prep	3050B			353182	HUH3	ELLE	03/14/23 05:45
Total/NA	Analysis	6010D		1	353617	T8CQ	ELLE	03/14/23 17:44
Total/NA	Prep	3050B			353182	HUH3	ELLE	03/14/23 05:45
Total/NA	Analysis	6010D		10	353617	T8CQ	ELLE	03/14/23 17:48
Total/NA	Prep	7471A			353327	HUH3	ELLE	03/14/23 11:01
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 14:17

Client Sample ID: 2023-SB-09-1012' — Lab Sample ID: 620-10149-24

Date Collected: 03/06/23 12:35 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-SB-09-1012' Lab Sample ID: 620-10149-24

Date Collected: 03/06/23 12:35 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 21:11
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20699	JS	EET NE	03/21/23 22:13
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 21:43
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 17:59
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 21:56
Total/NA	Prep	3050B			353182	HUH3	ELLE	03/14/23 05:45
Total/NA	Analysis	6010D		1	353617	T8CQ	ELLE	03/14/23 17:51
Total/NA	Prep	7471A			353327	HUH3	ELLE	03/14/23 11:01
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 14:19

Client Sample ID: 2023-MW-09-0002' Lab Sample ID: 620-10149-25

Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-MW-09-0002' Lab Sample ID: 620-10149-25

Date Collected: 03/06/23 13:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 21:37
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C	RA	1	20544	CLR	EET NE	03/15/23 16:49
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 19:42
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 22:22
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 18:16
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 22:07

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09-0002' — Lab Sample ID: 620-10149-25

Date Collected: 03/06/23 13:00 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 89.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 21:28
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:30

Client Sample ID: 2023-MW-09-0204' — Lab Sample ID: 620-10149-26

Date Collected: 03/06/23 13:05 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-MW-09-0204' — Lab Sample ID: 620-10149-26

Date Collected: 03/06/23 13:05 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 94.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20516	CLR	EET NE	03/14/23 10:36
Total/NA	Analysis	8260C		1	20518	CLR	EET NE	03/14/23 22:02
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C	RA	1	20544	CLR	EET NE	03/15/23 17:15
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 20:11
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 23:02
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 23:10
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 22:29
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 23:02
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:07

Client Sample ID: 2023-MW-09-0406' — Lab Sample ID: 620-10149-27

Date Collected: 03/06/23 13:10 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09-0406' Lab Sample ID: 620-10149-27

Date Collected: 03/06/23 13:10 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20675	CLR	EET NE	03/20/23 10:07
Total/NA	Analysis	8260C		1	20676	CLR	EET NE	03/20/23 15:34
Total/NA	Prep	3546			20685	BMS	EET NE	03/20/23 13:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 15:57
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 15:48
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 18:33
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 22:40
Total/NA	Prep	3050B			353642	HUH3	ELLE	03/15/23 05:32
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 18:23
Total/NA	Prep	7471A			353327	HUH3	ELLE	03/14/23 11:01
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:58

Client Sample ID: 2023-MW-09-0608' Lab Sample ID: 620-10149-28

Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-MW-09-0608' Lab Sample ID: 620-10149-28

Date Collected: 03/06/23 13:15 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 19:50
Total/NA	Pre Prep	Frozen Preserve	RA		20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035	RA		20616	CLR	EET NE	03/16/23 16:25
Total/NA	Analysis	8260C	RA	1	20617	CLR	EET NE	03/16/23 22:35
Total/NA	Prep	3546			20686	BMS	EET NE	03/20/23 14:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 17:22
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/13/23 23:41
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 23:27
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 23:14

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09-0608' — Lab Sample ID: 620-10149-28

Date Collected: 03/06/23 13:15 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 22:04
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:18

Client Sample ID: 2023-MW-09-0810' — Lab Sample ID: 620-10149-29

Date Collected: 03/06/23 13:20 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-MW-09-0810' — Lab Sample ID: 620-10149-29

Date Collected: 03/06/23 13:20 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 79.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 20:16
Total/NA	Prep	3546			20686	BMS	EET NE	03/20/23 14:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 17:50
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/14/23 00:20
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 19:24
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 23:25
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/16/23 00:12
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/16/23 00:16
Total/NA	Prep	7471A			353327	HUH3	ELLE	03/14/23 11:01
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 14:15

Client Sample ID: 2023-MW-09-1012' — Lab Sample ID: 620-10149-30

Date Collected: 03/06/23 13:25 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09-1012' Lab Sample ID: 620-10149-30

Date Collected: 03/06/23 13:25 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 20:42
Total/NA	Prep	3546			20686	BMS	EET NE	03/20/23 14:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 18:18
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/14/23 01:00
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 19:42
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 23:36
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 22:32
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/15/23 22:36
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:33

Client Sample ID: 2023-FD-08 Lab Sample ID: 620-10149-31

Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-FD-08 Lab Sample ID: 620-10149-31

Date Collected: 03/06/23 08:00 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 89.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20616	CLR	EET NE	03/16/23 16:25
Total/NA	Analysis	8260C		1	20617	CLR	EET NE	03/16/23 22:59
Total/NA	Prep	3546			20686	BMS	EET NE	03/20/23 14:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 18:46
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/14/23 01:39
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20476	SFL	EET NE	03/13/23 20:52
Total/NA	Prep	537 (mod)	RE		352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot	RE		352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)	RE	1	356249	QD9Y	ELLE	03/22/23 23:47

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-08 — Lab Sample ID: 620-10149-31

Date Collected: 03/06/23 08:00 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 89.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537 (mod)			357567	X5YV	ELLE	03/25/23 19:20
Total/NA	Cleanup	Extract Aliquot			357574	X5YV	ELLE	03/26/23 22:04
Total/NA	Analysis	EPA 537 (Mod)		1	359101	QD9Y	ELLE	03/30/23 18:53
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 23:37
Total/NA	Prep	7471A			353327	HUH3	ELLE	03/14/23 11:01
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 14:13

Client Sample ID: 2023-FD-09 — Lab Sample ID: 620-10149-32

Date Collected: 03/06/23 08:05 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20425	DWC	EET NE	03/10/23 08:54

Client Sample ID: 2023-FD-09 — Lab Sample ID: 620-10149-32

Date Collected: 03/06/23 08:05 — **Matrix: Solid**
Date Received: 03/07/23 16:41 — **Percent Solids: 83.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 21:34
Total/NA	Prep	3546			20686	BMS	EET NE	03/20/23 14:14
Total/NA	Analysis	8270D		1	20738	JS	EET NE	03/22/23 19:14
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/14/23 02:18
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20477	SFL	EET NE	03/13/23 23:42
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/22/23 23:58
Total/NA	Prep	3050B			353270	HUH3	ELLE	03/14/23 09:00
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 22:20
Total/NA	Prep	7471A			353211	HUH3	ELLE	03/14/23 07:49
Total/NA	Analysis	7471B		1	353417	UEFS	ELLE	03/14/23 13:20

Client Sample ID: Trip Blank-08 — Lab Sample ID: 620-10149-33

Date Collected: 03/06/23 00:00 — **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 13:51

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03-1012' Lab Sample ID: 620-10149-34

Date Collected: 03/06/23 14:20 **Matrix: Solid**
Date Received: 03/07/23 16:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	MA VPH SUM		1	661529	MAN	EET BUF	03/15/23 07:51
Total/NA	Analysis	Moisture		1	20387	DWC	EET NE	03/09/23 08:51

Client Sample ID: 2023-MW-03-1012' Lab Sample ID: 620-10149-34

Date Collected: 03/06/23 14:20 **Matrix: Solid**
Date Received: 03/07/23 16:41 **Percent Solids: 80.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Pre Prep	Frozen Preserve			20342	KFS	EET NE	03/07/23 19:00
Total/NA	Prep	5035			20572	CLR	EET NE	03/15/23 12:58
Total/NA	Analysis	8260C		1	20544	CLR	EET NE	03/15/23 22:00
Total/NA	Prep	3546			20686	BMS	EET NE	03/20/23 14:14
Total/NA	Analysis	8270D		1	20762	JS	EET NE	03/23/23 11:51
Total/NA	Prep	5035A_H			661243	JLS	EET BUF	03/13/23 07:46
Total/NA	Analysis	MAVPH		1	661242	JLS	EET BUF	03/14/23 02:57
Total/NA	Prep	3540C			20455	BMS	EET NE	03/10/23 15:43
Total/NA	Analysis	8082		1	20507	SFL	EET NE	03/14/23 19:59
Total/NA	Prep	537 (mod)			352780	RC3V	ELLE	03/13/23 07:31
Total/NA	Cleanup	Extract Aliquot			352926	RC3V	ELLE	03/13/23 11:17
Total/NA	Analysis	EPA 537 (Mod)		1	356249	QD9Y	ELLE	03/23/23 00:09
Total/NA	Prep	3050B			352756	HUH3	ELLE	03/13/23 05:34
Total/NA	Analysis	6010D		1	354115	S4PD	ELLE	03/15/23 17:48
Total/NA	Prep	3050B			352756	HUH3	ELLE	03/13/23 05:34
Total/NA	Analysis	6010D		10	354115	S4PD	ELLE	03/15/23 17:54
Total/NA	Prep	7471A			352727	UAMX	ELLE	03/12/23 21:21
Total/NA	Analysis	7471B		1	353146	UEFS	ELLE	03/13/23 20:58

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3540C	Solid	PCB-1016
8082	3540C	Solid	PCB-1221
8082	3540C	Solid	PCB-1232
8082	3540C	Solid	PCB-1242
8082	3540C	Solid	PCB-1248
8082	3540C	Solid	PCB-1254
8082	3540C	Solid	PCB-1260
8082	3540C	Solid	PCB-1262
8082	3540C	Solid	PCB-1268
8260C	5035	Solid	1,1,1,2-Tetrachloroethane
8260C	5035	Solid	1,1,1-Trichloroethane
8260C	5035	Solid	1,1,2,2-Tetrachloroethane
8260C	5035	Solid	1,1,2-Trichloroethane
8260C	5035	Solid	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C	5035	Solid	1,1-Dichloroethane
8260C	5035	Solid	1,1-Dichloroethene
8260C	5035	Solid	1,1-Dichloropropene
8260C	5035	Solid	1,2,3-Trichlorobenzene
8260C	5035	Solid	1,2,3-Trichloropropane
8260C	5035	Solid	1,2,4-Trichlorobenzene
8260C	5035	Solid	1,2,4-Trimethylbenzene
8260C	5035	Solid	1,2-Dibromo-3-Chloropropane
8260C	5035	Solid	1,2-Dibromoethane (EDB)
8260C	5035	Solid	1,2-Dichlorobenzene
8260C	5035	Solid	1,2-Dichloroethane
8260C	5035	Solid	1,2-Dichloropropane
8260C	5035	Solid	1,3,5-Trichlorobenzene
8260C	5035	Solid	1,3,5-Trimethylbenzene
8260C	5035	Solid	1,3-Dichlorobenzene
8260C	5035	Solid	1,3-Dichloropropane
8260C	5035	Solid	1,3-Dichloropropene, Total
8260C	5035	Solid	1,4-Dichlorobenzene
8260C	5035	Solid	1,4-Dioxane
8260C	5035	Solid	2,2-Dichloropropane
8260C	5035	Solid	2-Butanone (MEK)
8260C	5035	Solid	2-Chlorotoluene
8260C	5035	Solid	2-Hexanone (MBK)
8260C	5035	Solid	4-Chlorotoluene
8260C	5035	Solid	4-Isopropyltoluene
8260C	5035	Solid	4-Methyl-2-pentanone (MIBK)
8260C	5035	Solid	Acetone
8260C	5035	Solid	Acrylonitrile
8260C	5035	Solid	Benzene
8260C	5035	Solid	Bromobenzene
8260C	5035	Solid	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C	5035	Solid	Bromodichloromethane
8260C	5035	Solid	Bromoform
8260C	5035	Solid	Bromomethane
8260C	5035	Solid	Carbon disulfide
8260C	5035	Solid	Carbon tetrachloride
8260C	5035	Solid	Chlorobenzene
8260C	5035	Solid	Chloroethane
8260C	5035	Solid	Chloroform
8260C	5035	Solid	Chloromethane
8260C	5035	Solid	cis-1,2-Dichloroethene
8260C	5035	Solid	cis-1,3-Dichloropropene
8260C	5035	Solid	Dibromochloromethane
8260C	5035	Solid	Dibromomethane
8260C	5035	Solid	Dichlorodifluoromethane (Freon 12)
8260C	5035	Solid	di-Isopropyl ether
8260C	5035	Solid	Ethanol
8260C	5035	Solid	Ethyl ether
8260C	5035	Solid	Ethyl tert-butyl ether
8260C	5035	Solid	Ethylbenzene
8260C	5035	Solid	Hexachlorobutadiene
8260C	5035	Solid	Isopropylbenzene
8260C	5035	Solid	m,p-Xylene
8260C	5035	Solid	Methyl tert-butyl ether
8260C	5035	Solid	Methylene Chloride
8260C	5035	Solid	Naphthalene
8260C	5035	Solid	n-Butylbenzene
8260C	5035	Solid	N-Propylbenzene
8260C	5035	Solid	o-Xylene
8260C	5035	Solid	sec-Butylbenzene
8260C	5035	Solid	Styrene
8260C	5035	Solid	Tert-amyl methyl ether
8260C	5035	Solid	tert-Butanol
8260C	5035	Solid	tert-Butylbenzene
8260C	5035	Solid	Tetrachloroethene
8260C	5035	Solid	Tetrahydrofuran
8260C	5035	Solid	Toluene
8260C	5035	Solid	trans-1,2-Dichloroethene
8260C	5035	Solid	trans-1,3-Dichloropropene
8260C	5035	Solid	trans-1,4-Dichloro-2-butene
8260C	5035	Solid	Trichloroethene
8260C	5035	Solid	Trichlorofluoromethane (Freon 11)
8260C	5035	Solid	Vinyl chloride
8260C	5035	Solid	Xylenes, Total
8270D	3546	Solid	1,2,4,5-Tetrachlorobenzene
8270D	3546	Solid	1,2,4-Trichlorobenzene
8270D	3546	Solid	1,2-Dichlorobenzene
8270D	3546	Solid	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	1,4-Dichlorobenzene
8270D	3546	Solid	1-Methylnaphthalene
8270D	3546	Solid	2,4,5-Trichlorophenol
8270D	3546	Solid	2,4,6-Trichlorophenol
8270D	3546	Solid	2,4-Dichlorophenol
8270D	3546	Solid	2,4-Dimethylphenol
8270D	3546	Solid	2,4-Dinitrophenol
8270D	3546	Solid	2,4-Dinitrotoluene
8270D	3546	Solid	2,6-Dinitrotoluene
8270D	3546	Solid	2-Chloronaphthalene
8270D	3546	Solid	2-Chlorophenol
8270D	3546	Solid	2-Methylnaphthalene
8270D	3546	Solid	2-Methylphenol
8270D	3546	Solid	2-Nitroaniline
8270D	3546	Solid	2-Nitrophenol
8270D	3546	Solid	3 & 4 Methylphenol
8270D	3546	Solid	3,3'-Dichlorobenzidine
8270D	3546	Solid	3-Nitroaniline
8270D	3546	Solid	4,6-Dinitro-2-methylphenol
8270D	3546	Solid	4-Bromophenyl phenyl ether
8270D	3546	Solid	4-Chloro-3-methylphenol
8270D	3546	Solid	4-Chloroaniline
8270D	3546	Solid	4-Chlorophenyl phenyl ether
8270D	3546	Solid	4-Nitroaniline
8270D	3546	Solid	4-Nitrophenol
8270D	3546	Solid	Acenaphthene
8270D	3546	Solid	Acenaphthylene
8270D	3546	Solid	Acetophenone
8270D	3546	Solid	Aniline
8270D	3546	Solid	Anthracene
8270D	3546	Solid	Azobenzene/Diphenyldiazene
8270D	3546	Solid	Benzidine
8270D	3546	Solid	Benzo[a]anthracene
8270D	3546	Solid	Benzo[a]pyrene
8270D	3546	Solid	Benzo[b]fluoranthene
8270D	3546	Solid	Benzo[g,h,i]perylene
8270D	3546	Solid	Benzo[k]fluoranthene
8270D	3546	Solid	Benzoic acid
8270D	3546	Solid	Benzyl alcohol
8270D	3546	Solid	bis (2-chloroisopropyl) ether
8270D	3546	Solid	Bis(2-chloroethoxy)methane
8270D	3546	Solid	Bis(2-chloroethyl)ether
8270D	3546	Solid	Bis(2-ethylhexyl) phthalate
8270D	3546	Solid	Butyl benzyl phthalate
8270D	3546	Solid	Carbazole
8270D	3546	Solid	Chrysene
8270D	3546	Solid	Dibenz(a,h)anthracene

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3546	Solid	Dibenzofuran
8270D	3546	Solid	Diethyl phthalate
8270D	3546	Solid	Dimethyl phthalate
8270D	3546	Solid	Di-n-butyl phthalate
8270D	3546	Solid	Di-n-octyl phthalate
8270D	3546	Solid	Fluoranthene
8270D	3546	Solid	Fluorene
8270D	3546	Solid	Hexachlorobenzene
8270D	3546	Solid	Hexachlorobutadiene
8270D	3546	Solid	Hexachlorocyclopentadiene
8270D	3546	Solid	Hexachloroethane
8270D	3546	Solid	Indeno[1,2,3-cd]pyrene
8270D	3546	Solid	Isophorone
8270D	3546	Solid	Naphthalene
8270D	3546	Solid	Nitrobenzene
8270D	3546	Solid	N-Nitrosodimethylamine
8270D	3546	Solid	N-Nitrosodi-n-propylamine
8270D	3546	Solid	N-Nitrosodiphenylamine
8270D	3546	Solid	Pentachloronitrobenzene
8270D	3546	Solid	Pentachlorophenol
8270D	3546	Solid	Phenanthrene
8270D	3546	Solid	Phenol
8270D	3546	Solid	Pyrene
8270D	3546	Solid	Pyridine
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-23
Illinois	NELAP	200003	09-30-23
Iowa	State	374	03-01-23 *
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	30	04-01-23
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23
Louisiana (All)	NELAP	02031	06-30-23
Maine	State	NY00044	12-04-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Laboratory: Eurofins Buffalo (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Maryland	State	294	03-31-23
Massachusetts	State	M-NY044	06-30-23
Michigan	State	9937	03-31-23
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-23
New Jersey	NELAP	NY455	06-30-23
New York	NELAP	10026	03-31-23
Pennsylvania	NELAP	68-00281	07-31-23
Rhode Island	State	LAO00328	12-30-22 *
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-23
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23
Washington	State	C784	02-10-23 *
Wisconsin	State	998310390	08-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
Washington	State	C457	04-11-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10149-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MA VPH SUM	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
MAVPH	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET BUF
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
6010D	Metals (ICP)	SW846	ELLE
7471B	Mercury (CVAA)	MA DEP	ELLE
Moisture	Percent Moisture	EPA	EET NE
3050B	Preparation, Metals	SW846	ELLE
3540C	Soxhlet Extraction	SW846	EET NE
3546	Microwave Extraction	SW846	EET NE
5035	Closed System Purge and Trap	SW846	EET NE
5035A_H	Closed System Purge and Trap	SW846	EET BUF
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
7471A	Preparation, Mercury	SW846	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE
Frozen Preserve	Freezing Samples	None	EET NE

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10149-1	2023-MW-08-0002'	Solid	03/06/23 08:45	03/07/23 16:41
620-10149-2	2023-MW-08-0204'	Solid	03/06/23 08:50	03/07/23 16:41
620-10149-3	2023-MW-08-0406'	Solid	03/06/23 08:55	03/07/23 16:41
620-10149-4	2023-MW-08-0608'	Solid	03/06/23 09:00	03/07/23 16:41
620-10149-5	2023-MW-08-0810'	Solid	03/06/23 09:05	03/07/23 16:41
620-10149-6	2023-MW-08-1012'	Solid	03/06/23 09:10	03/07/23 16:41
620-10149-7	2023-SB-10-0002'	Solid	03/06/23 09:50	03/07/23 16:41
620-10149-8	2023-SB-10-0204'	Solid	03/06/23 09:55	03/07/23 16:41
620-10149-9	2023-SB-10-0406'	Solid	03/06/23 10:00	03/07/23 16:41
620-10149-10	2023-SB-10-0608'	Solid	03/06/23 10:05	03/07/23 16:41
620-10149-11	2023-SB-10-0810'	Solid	03/06/23 10:10	03/07/23 16:41
620-10149-12	2023-SB-10-1012'	Solid	03/06/23 10:15	03/07/23 16:41
620-10149-13	2023-SB-11-0002'	Solid	03/06/23 10:50	03/07/23 16:41
620-10149-14	2023-SB-11-0204'	Solid	03/06/23 10:55	03/07/23 16:41
620-10149-15	2023-SB-11-0406'	Solid	03/06/23 11:00	03/07/23 16:41
620-10149-16	2023-SB-11-0608'	Solid	03/06/23 11:05	03/07/23 16:41
620-10149-17	2023-SB-11-0810'	Solid	03/06/23 11:10	03/07/23 16:41
620-10149-18	2023-SB-11-1012'	Solid	03/06/23 11:15	03/07/23 16:41
620-10149-19	2023-SB-09-0002'	Solid	03/06/23 12:10	03/07/23 16:41
620-10149-20	2023-SB-09-0204'	Solid	03/06/23 12:15	03/07/23 16:41
620-10149-21	2023-SB-09-0406'	Solid	03/06/23 12:20	03/07/23 16:41
620-10149-22	2023-SB-09-0608'	Solid	03/06/23 12:25	03/07/23 16:41
620-10149-23	2023-SB-09-0810'	Solid	03/06/23 12:30	03/07/23 16:41
620-10149-24	2023-SB-09-1012'	Solid	03/06/23 12:35	03/07/23 16:41
620-10149-25	2023-MW-09-0002'	Solid	03/06/23 13:00	03/07/23 16:41
620-10149-26	2023-MW-09-0204'	Solid	03/06/23 13:05	03/07/23 16:41
620-10149-27	2023-MW-09-0406'	Solid	03/06/23 13:10	03/07/23 16:41
620-10149-28	2023-MW-09-0608'	Solid	03/06/23 13:15	03/07/23 16:41
620-10149-29	2023-MW-09-0810'	Solid	03/06/23 13:20	03/07/23 16:41
620-10149-30	2023-MW-09-1012'	Solid	03/06/23 13:25	03/07/23 16:41
620-10149-31	2023-FD-08	Solid	03/06/23 08:00	03/07/23 16:41
620-10149-32	2023-FD-09	Solid	03/06/23 08:05	03/07/23 16:41
620-10149-33	Trip Blank-08	Solid	03/06/23 00:00	03/07/23 16:41
620-10149-34	2023-MW-03-1012'	Solid	03/06/23 14:20	03/07/23 16:41

620-10149 Chain of Custody

10149

Chain of Custody Record

eurofins | Environment Testing

	Sampler: BF + KM	Lab PM	Carrier Tracking No(s):	COC No: 620-8842-1096 15
	Phone:	E-Mail:	State of Origin:	Page: Page 15 of 17

Bridget Fortier			
Company: Nobis Engineering, Inc.	PWSID:	Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): Stnd.		
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone: 978-399-9657	PO #: S00001.002		
Email: bfortier@nobis-group.com	WO #:		
Project Name: American Tissue Mill	Project #:		
Site: Templeton MA	SSOW#:		

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:					X	X	J		F				X	
01	2023-SW-08-0002'	3/6/23	08:45	G	Solid			✓	✓	✓	✓	✓	✓	7	
02	2023-MW-08-0204'		08:50		Solid			✓	✓	✓	✓	✓	✓	7	
03	2023-MW-08-0406'		08:55		Solid			✓	✓	✓	✓	✓	✓		
04	2023-MW-08-0608'		09:00		Solid			✓	✓	✓	✓	✓	✓		
05	2023-MW-08-0810'		09:05		Solid			✓	✓	✓	—	✓	✓		
06	2023-MW-08-1012'		09:10		Solid			✓	✓	✓	✓	✓	✓		
07	2023-SB-10-0002'		09:50		Solid			✓	✓	✓	—	✓	✓		
08	2023-SB-10-0204'		09:55		Solid			✓	✓	✓	—	✓	✓		
09	2023-SB-10-0406'		10:00		Solid			✓	✓	✓	✓	✓	✓		
10	2023-SB-10-0608'		10:05		Solid			✓	✓	✓	—	—	—		
11	2023-SB-10-0810'		10:10		Solid			✓	✓	✓	✓	✓	✓		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV Other (specify): Equis EDD

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/7/23 12:15	Nobis		3/7/23 12:15	EUE
Relinquished by:	3/7/23 16:41	EUE		3/7/23 16:41	EUE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 +0.2 4.4 #6

Ver 06/08/2021

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3/31/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: BF+KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096 16
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 16 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested:			
City: Lowell	TAT Requested (days): Stnd.			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: S00001.082			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals (6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							G		T					
12	2023-SB-10-1012'	3/6/23	10:15	G	Solid	Y		✓	✓	✓	✓	✓	✓	7	
13	2023-SB-11-0002'		10:50		Solid			✓	✓	✓	✓	✓	✓		
14	2023-SB-11-0204'		10 55		Solid			✓	✓	✓	✓	✓	✓		
15	2023-SB-11-0406'		11.00		Solid			✓	✓	✓	✓	✓	✓		
16	2023-SB-11-0608'		11.05		Solid			✓	✓	✓	✓	✓	✓		
17	2023-SB-11-0810'		11.10		Solid			✓	✓	✓	✓	✓	✓		
18	2023-SB-11-1012'		11.15		Solid			✓	✓	✓	✓	✓	✓		
19	2023-SB-09-0002'		12:10		Solid			✓	✓	✓	✓	✓	✓		
20	2023-SB-09-0204'		12:15		Solid			✓	✓	✓	✓	✓	✓		
21	2023-SB-09-0406'		12:20		Solid			✓	✓	✓	✓	✓	✓		
22	2023-SB-09-0608'	↓	12:25	↓	Solid			✓	✓	✓	✓	✓	✓	↓	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify): Equis EDP

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 3/7/23 12:15	Company: Nobis	Received by:	Date/Time: 3/7/23 12:15	Company: ENE
Relinquished by:	Date/Time: 3/7/23 16:41	Company: ENE	Received by:	Date/Time: 3/7/23 16:41	Company: ENE
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.1 to 4.4 #6

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone. 413-789-9018

Chain of Custody Record

10149

eurofins | Environment Testing

Client Information	Sampler: BF+KM	Lab PM:	Carrier Tracking No(s):	COC No: 620-8842-1096.17
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 17 of 17
Company: Nobis Engineering, Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested.			
City: Lowell	TAT Requested (days): Stnd.			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 978-399-9651	PO #: 500001.007			
Email: bfortier@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #:			
Site: Templeton MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260C	SVOCs 8270	VPH MassDEP	PCBs 8082 (Soxhlet)	Metals 6010/6020	PFAS 537	Total Number of containers	Special Instructions/Note:
	Preservation Code:							F	F						
23	2023-SB-09-0816'	3/6/23	12:30	G	Solid			✓	✓	✓	✓	✓	✓	1	
24	2023-SB-09-1012'		12:35		Solid			✓	✓	✓	✓	✓	✓		
25	2023-MW-09-0002'		13:00		Solid			✓	✓	✓	✓	✓	✓		
26	2023-MW-09-0204'		13:05		Solid			✓	✓	✓	✓	✓	✓		
27	2023-MW-09-0406'		13:10		Solid		Y	✓	✓	✓	✓	✓	✓		
28	2023-MW-09-0608'		13:15		Solid			✓	✓	✓	✓	✓	✓		
29	2023-MW-09-0810'		13:20		Solid			✓	✓	✓	✓	✓	✓		
30	2023-MW-09-1012'		13:25		Solid			✓	✓	✓	✓	✓	✓		
31	2023-FD-08		08:00		Solid			✓	✓	✓	✓	✓	✓		
32	2023-FD-09		08:05					✓	✓	✓	✓	✓	✓	✓	
33	TRIP BLANK-08	—		✓				✓						3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III, IV, Other (specify): EQuIS EDD

Special Instructions/QC Requirements: email to amcgrath@nobis-group.com

Empty Kit Relinquished by:	Date.	Time.	Method of Shipment:
Relinquished by:	Date/Time: 3/7/23 12:15	Company: Nobis	Received by:	Date/Time: 3/7/23 12:15	Company: ENE
Relinquished by:	Date/Time: 3/7/23 1654	Company: ENE	Received by:	Date/Time: 3/7/23 16:41	Company: ENE
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 4.2 4.2 4.4 IR

Ver 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8576.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-03-1012' (620-10149-34)	3/6/23	14:20 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/23/23 16:23	ENE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				3-9-23 0945	ENE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.2

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-08-0002' (620-10149-1)	3/6/23	08:45 Eastern		Solid			X	X	X	2	
2023-MW-08-0204' (620-10149-2)	3/6/23	08:50 Eastern		Solid			X	X	X	2	
2023-MW-08-0406' (620-10149-3)	3/6/23	08:55 Eastern		Solid			X	X	X	2	
2023-MW-08-0608' (620-10149-4)	3/6/23	09:00 Eastern		Solid			X	X	X	2	
2023-MW-08-0810' (620-10149-5)	3/6/23	09:05 Eastern		Solid			X	X	X	2	
2023-MW-08-1012' (620-10149-6)	3/6/23	09:10 Eastern		Solid			X	X	X	1	
2023-SB-10-0002' (620-10149-7)	3/6/23	09:50 Eastern		Solid			X	X	X	2	
2023-SB-10-0204' (620-10149-8)	3/6/23	09:55 Eastern		Solid			X	X	X	2	
2023-SB-10-0406' (620-10149-9)	3/6/23	10:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/7/23 17:50	Company: ENF	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: MMP	Date/Time: 3/9/23 0945	Company ENF
Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.9 1.2		

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-10-0608' (620-10149-10)	3/6/23	10:05 Eastern		Solid			X	X	X	2	
2023-SB-10-0810' (620-10149-11)	3/6/23	10:10 Eastern		Solid			X	X	X	2	
2023-SB-10-1012' (620-10149-12)	3/6/23	10:15 Eastern		Solid			X	X	X	2	
2023-SB-10-1012' (620-10149-12MS)	3/6/23	10:15 Eastern	MS	Solid			X	X	X	2	
2023-SB-10-1012' (620-10149-12MSD)	3/6/23	10:15 Eastern	MSD	Solid			X	X	X	2	
2023-SB-11-0002' (620-10149-13)	3/6/23	10:50 Eastern		Solid			X	X	X	2	
2023-SB-11-0204' (620-10149-14)	3/6/23	10:55 Eastern		Solid			X	X	X	2	
2023-SB-11-0406' (620-10149-15)	3/6/23	11:00 Eastern		Solid			X	X	X	2	
2023-SB-11-0608' (620-10149-16)	3/6/23	11:05 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	3/7/23 12:50	EUC	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3/9/23 0945	Company [signature]

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9 1.2

JM

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-SB-11-0810' (620-10149-17)	3/6/23	11:10 Eastern		Solid			X	X	X	2	
2023-SB-11-1012' (620-10149-18)	3/6/23	11:15 Eastern		Solid			X	X	X	2	
2023-SB-09-0002' (620-10149-19)	3/6/23	12:10 Eastern		Solid			X	X	X	2	
2023-SB-09-0204' (620-10149-20)	3/6/23	12:15 Eastern		Solid			X	X	X	2	
2023-SB-09-0406' (620-10149-21)	3/6/23	12:20 Eastern		Solid			X	X	X	2	
2023-SB-09-0608' (620-10149-22)	3/6/23	12:25 Eastern		Solid			X	X	X	2	
2023-SB-09-0810' (620-10149-23)	3/6/23	12:30 Eastern		Solid			X	X	X	2	
2023-SB-09-1012' (620-10149-24)	3/6/23	12:35 Eastern		Solid			X	X	X	2	
2023-MW-09-0002' (620-10149-25)	3/6/23	13:00 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/7/23 17:50	FedEx	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/9/23 0945	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9 1.2

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8557.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 3/16/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010MCP/3050B MA MCP Analyte List	7471MCP/7471A_Prep Mercury	PFC_IDA/Shake_SonicBath Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-09-0204' (620-10149-26)	3/6/23	13:05 Eastern		Solid			X	X	X	2	
2023-MW-09-0406' (620-10149-27)	3/6/23	13:10 Eastern		Solid			X	X	X	2	
2023-MW-09-0406' (620-10149-27MS)	3/6/23	13:10 Eastern	MS	Solid			X	X	X	2	
2023-MW-09-0406' (620-10149-27MSD)	3/6/23	13:10 Eastern	MSD	Solid			X	X	X	2	
2023-MW-09-0608' (620-10149-28)	3/6/23	13:15 Eastern		Solid			X	X	X	2	
2023-MW-09-0810' (620-10149-29)	3/6/23	13:20 Eastern		Solid			X	X	X	2	
2023-MW-09-1012' (620-10149-30)	3/6/23	13:25 Eastern		Solid			X	X	X	2	
2023-FD-08 (620-10149-31)	3/6/23	08:00 Eastern		Solid			X	X	X	2	
2023-FD-09 (620-10149-32)	3/6/23	08:05 Eastern		Solid			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/7/23 12:50	Eurofins			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/8/23 0945	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9 1.2

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-08-0002' (620-10149-1)	3/6/23	08:45 Eastern		Solid			X	X	1	
2023-MW-08-0204' (620-10149-2)	3/6/23	08:50 Eastern		Solid			X	X	1	
2023-MW-08-0406' (620-10149-3)	3/6/23	08:55 Eastern		Solid			X	X	1	
2023-MW-08-0608' (620-10149-4)	3/6/23	09:00 Eastern		Solid			X	X	1	
2023-MW-08-0810' (620-10149-5)	3/6/23	09:05 Eastern		Solid			X	X	1	
2023-MW-08-1012' (620-10149-6)	3/6/23	09:10 Eastern		Solid			X	X	1	
2023-SB-10-0002' (620-10149-7)	3/6/23	09:50 Eastern		Solid			X	X	1	
2023-SB-10-0204' (620-10149-8)	3/6/23	09:55 Eastern		Solid			X	X	1	
2023-SB-10-0406' (620-10149-9)	3/6/23	10:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	3/7/23 12:47	FedEx	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3-9-23 1000	Company TAB
				Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3 ICE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 2 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-10-0608' (620-10149-10)	3/6/23	10:05 Eastern		Solid			X	X	1	
2023-SB-10-0810' (620-10149-11)	3/6/23	10:10 Eastern		Solid			X	X	1	
2023-SB-10-1012' (620-10149-12)	3/6/23	10:15 Eastern		Solid			X	X	1	
2023-SB-10-1012' (620-10149-12MS)	3/6/23	10:15 Eastern	MS	Solid			X		1	
2023-SB-10-1012' (620-10149-12MSD)	3/6/23	10:15 Eastern	MSD	Solid			X		1	
2023-SB-11-0002' (620-10149-13)	3/6/23	10:50 Eastern		Solid			X	X	1	
2023-SB-11-0204' (620-10149-14)	3/6/23	10:55 Eastern		Solid			X	X	1	
2023-SB-11-0406' (620-10149-15)	3/6/23	11:00 Eastern		Solid			X	X	1	
2023-SB-11-0608' (620-10149-16)	3/6/23	11:05 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 3/7/23 17:47	Company	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 3 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-SB-11-0810' (620-10149-17)	3/6/23	11:10 Eastern		Solid			X	X	1	
2023-SB-11-1012' (620-10149-18)	3/6/23	11:15 Eastern		Solid			X	X	1	
2023-SB-09-0002' (620-10149-19)	3/6/23	12:10 Eastern		Solid			X	X	1	
2023-SB-09-0204' (620-10149-20)	3/6/23	12:15 Eastern		Solid			X	X	1	
2023-SB-09-0406' (620-10149-21)	3/6/23	12:20 Eastern		Solid			X	X	1	
2023-SB-09-0608' (620-10149-22)	3/6/23	12:25 Eastern		Solid			X	X	1	
2023-SB-09-0810' (620-10149-23)	3/6/23	12:30 Eastern		Solid			X	X	1	
2023-SB-09-1012' (620-10149-24)	3/6/23	12:35 Eastern		Solid			X	X	1	
2023-MW-09-0002' (620-10149-25)	3/6/23	13:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	3/7/23 12:47	[illegible]	Fedex		
	Relinquished by:	Date/Time:	Company	Received by: See pg 1	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8558.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 4 of 4
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-09-0204' (620-10149-26)	3/6/23	13:05 Eastern		Solid			X	X	1	
2023-MW-09-0406' (620-10149-27)	3/6/23	13:10 Eastern		Solid			X	X	1	
2023-MW-09-0406' (620-10149-27MS)	3/6/23	13:10 Eastern	MS	Solid			X		1	
2023-MW-09-0406' (620-10149-27MSD)	3/6/23	13:10 Eastern	MSD	Solid			X		1	
2023-MW-09-0608' (620-10149-28)	3/6/23	13:15 Eastern		Solid			X	X	1	
2023-MW-09-0810' (620-10149-29)	3/6/23	13:20 Eastern		Solid			X	X	1	
2023-MW-09-1012' (620-10149-30)	3/6/23	13:25 Eastern		Solid			X	X	1	
2023-FD-08 (620-10149-31)	3/6/23	08:00 Eastern		Solid			X	X	1	
2023-FD-09 (620-10149-32)	3/6/23	08:05 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/7/23 12:47	CHG			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				see pg 1		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8575.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Massachusetts		Job #: 620-10149-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/16/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	MAVPH/5035A_M_Calc (MOD) Standard Targets and Carbon Ranges	MAVPH_SUM/ MAVPH Adjusted Range Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
2023-MW-03-1012' (620-10149-34)	3/6/23	14:20 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		3/8/23 16:23	EVE	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					3-9-23 1000	TAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6 TCE

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 620-8558.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Becky.Mason@et.eurofinsus.com	State of Origin: Connecticut	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Connecticut		Job #: 620-10155-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 3/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Lockheed Martin-Sikorsky Stratford	Project #: 62000882			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470RCP/7470A_Prep Hg	6010RCP/3005A_TOT As/Cr/Mn/Zn	6020RCP/3020A As	6010RCP/3005A_TOT Cr	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW0110S (620-10155-8MSD)	3/7/23	10:11 Eastern	MSD	Water						X	1	
MW0110SDUP (620-10155-9)	3/7/23	10:11 Eastern		Water						X	1	
MW0110D (620-10155-11)	3/7/23	12:11 Eastern		Water						X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/7/23 12:47	Company EAE	Received by: FedEx	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: see pg 1	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10149-1

Login Number: 10149
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10149-1

Login Number: 10149
List Number: 3
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 03/09/23 02:26 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10149-1

Login Number: 10149
List Number: 2
Creator: Ballard, Megan

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/09/23 10:22 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10149-1

Login Number: 10149
List Number: 4
Creator: Foreman, Leah M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 03/09/23 02:29 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-14138-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

my EOL

Job Notes

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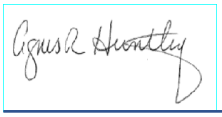
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-14138-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-14138-1 through 620-14138-53

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 10/03/2023

Job ID: 620-14138-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-14138-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/26/2023 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

PCBs
Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: ATM-PCB-2-0003 (620-14138-2). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: Due to the matrix, the following sample could not be concentrated to the final method required volume: ATM-PCB-34-0003 (620-14138-36). The reporting limits (RLs) are elevated proportionately.

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-PCB-3-0003 (620-14138-3), ATM-PCB-5-0003 (620-14138-5), ATM-PCB-5-0003 (620-14138-5[MS]), ATM-PCB-5-0003 (620-14138-5[MSD]), ATM-PCB-11-0003 (620-14138-11), ATM-PCB-13-0003 (620-14138-13), FD-01-092523 (620-14138-14), ATM-PCB-16-0003 (620-14138-17), ATM-PCB-35-0003 (620-14138-37), ATM-PCB-35-0003 (620-14138-37[MS]), ATM-PCB-35-0003 (620-14138-37[MSD]), ATM-PCB-50-0003 (620-14138-39), ATM-PCB-37-0003 (620-14138-40), ATM-PCB-38-0003 (620-14138-41), ATM-PCB-49-0003 (620-14138-42), ATM-PCB-39-0003 (620-14138-43), ATM-PCB-40-0003 (620-14138-44), ATM-PCB-41-0003 (620-14138-45), ATM-PCB-42-0003 (620-14138-46), ATM-PCB-43-0003 (620-14138-47), FD-03-092623 (620-14138-48), ATM-PCB-44-0003 (620-14138-49), ATM-PCB-45-0003 (620-14138-50), ATM-PCB-46-0003 (620-14138-51) and ATM-PCB-47-0003 (620-14138-52). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 620-27243 and 620-27243 and analytical batch 620-27362 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: ATM-PCB-4-0003 (620-14138-4). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-PCB-7-0003 (620-14138-7), ATM-PCB-9-0003 (620-14138-9), ATM-PCB-10-0003 (620-14138-10), ATM-PCB-14-0003 (620-14138-15), ATM-PCB-15-0003 (620-14138-16), ATM-PCB-17-0003 (620-14138-18), ATM-PCB-18-0003 (620-14138-19) and ATM-PCB-36-0003 (620-14138-38). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27427/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Job ID: 620-14138-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27429/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-PCB-23-0003 (620-14138-24), ATM-PCB-24-0003 (620-14138-25), ATM-PCB-25-0003 (620-14138-26), ATM-PCB-30-0003 (620-14138-31) and FD-02-092523 (620-14138-32). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: ATM-PCB-27-0003 (620-14138-28). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: The following sample required a dilution due to the nature of the sample matrix: ATM-PCB-21-0003 (620-14138-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-1-0003 — Lab Sample ID: 620-14138-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.213		0.0252	0.0196	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-2-0003 — Lab Sample ID: 620-14138-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.323		0.0260	0.0202	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-3-0003 — Lab Sample ID: 620-14138-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	30.5		1.02	0.796	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-4-0003 — Lab Sample ID: 620-14138-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.395		0.0229	0.0179	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-5-0003 — Lab Sample ID: 620-14138-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.20		0.222	0.173	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-6-0003 — Lab Sample ID: 620-14138-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.155		0.0230	0.0179	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-7-0003 — Lab Sample ID: 620-14138-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.62		0.471	0.366	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-8-0003 — Lab Sample ID: 620-14138-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.968		0.0233	0.0181	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-9-0003 — Lab Sample ID: 620-14138-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.5		0.472	0.368	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-10-0003 — Lab Sample ID: 620-14138-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	33.2		1.08	0.843	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-11-0003 — Lab Sample ID: 620-14138-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.91		0.119	0.0923	mg/Kg	5	☼	8082	Total/NA

Client Sample ID: ATM-PCB-12-0003 — Lab Sample ID: 620-14138-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.760		0.0239	0.0186	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-13-0003 — Lab Sample ID: 620-14138-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.65		0.237	0.184	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: FD-01-092523 — Lab Sample ID: 620-14138-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.69		0.0473	0.0368	mg/Kg	2	☼	8082	Total/NA

Client Sample ID: ATM-PCB-14-0003 — Lab Sample ID: 620-14138-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.9		1.19	0.927	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-15-0003 — Lab Sample ID: 620-14138-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	9.39		0.468	0.364	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-16-0003 — Lab Sample ID: 620-14138-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	8.47		0.229	0.178	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-17-0003 — Lab Sample ID: 620-14138-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.0		0.457	0.356	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-18-0003 — Lab Sample ID: 620-14138-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	13.2		0.440	0.342	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-19-0003 — Lab Sample ID: 620-14138-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.237		0.0220	0.0171	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-20-0003 — Lab Sample ID: 620-14138-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	5.13		0.218	0.170	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-21-0003 — Lab Sample ID: 620-14138-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.17		0.192	0.149	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-22-0003 — Lab Sample ID: 620-14138-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.714		0.0224	0.0175	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-23-0003 — Lab Sample ID: 620-14138-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	14.6		0.514	0.400	mg/Kg	20	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-24-0003 — Lab Sample ID: 620-14138-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	93.6		2.27	1.77	mg/Kg	100	☼	8082	Total/NA

Client Sample ID: ATM-PCB-25-0003 — Lab Sample ID: 620-14138-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	18.5		1.03	0.804	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-26-0003 — Lab Sample ID: 620-14138-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0707		0.0214	0.0166	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-27-0003 — Lab Sample ID: 620-14138-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.121		0.0193	0.0150	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-28-0003 — Lab Sample ID: 620-14138-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.27		0.227	0.176	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-29-0003 — Lab Sample ID: 620-14138-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.50		0.209	0.163	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-30-0003 — Lab Sample ID: 620-14138-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	35.6		2.11	1.64	mg/Kg	100	☼	8082	Total/NA

Client Sample ID: FD-02-092523 — Lab Sample ID: 620-14138-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	13.2		0.386	0.300	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-PCB-31-0003 — Lab Sample ID: 620-14138-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.222		0.0182	0.0141	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-32-0003 — Lab Sample ID: 620-14138-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0958		0.0223	0.0173	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-33-0003 — Lab Sample ID: 620-14138-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.393		0.0219	0.0170	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-PCB-34-0003 — Lab Sample ID: 620-14138-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	12.1		0.412	0.320	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-35-0003 — Lab Sample ID: 620-14138-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.19		0.200	0.156	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-36-0003 — Lab Sample ID: 620-14138-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	20.4		0.923	0.718	mg/Kg	50	☼	8082	Total/NA

Client Sample ID: ATM-PCB-50-0003 — Lab Sample ID: 620-14138-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.907		0.215	0.167	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-37-0003 — Lab Sample ID: 620-14138-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.59		0.202	0.157	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-38-0003 — Lab Sample ID: 620-14138-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.246		0.215	0.167	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-49-0003 — Lab Sample ID: 620-14138-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.54		0.220	0.171	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-39-0003 — Lab Sample ID: 620-14138-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.17		0.204	0.159	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-40-0003 — Lab Sample ID: 620-14138-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.316		0.197	0.153	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-41-0003 — Lab Sample ID: 620-14138-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.965		0.201	0.156	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-42-0003 — Lab Sample ID: 620-14138-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.314		0.208	0.162	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-43-0003 — Lab Sample ID: 620-14138-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.185	J	0.197	0.153	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: FD-03-092623 — Lab Sample ID: 620-14138-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.253		0.205	0.160	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-44-0003 — Lab Sample ID: 620-14138-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.924		0.200	0.155	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-45-0003 — Lab Sample ID: 620-14138-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.09		0.185	0.144	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-46-0003 — Lab Sample ID: 620-14138-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.10		0.199	0.154	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-47-0003 — Lab Sample ID: 620-14138-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.219		0.205	0.160	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-PCB-48-0003 — Lab Sample ID: 620-14138-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0616		0.0211	0.0164	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-1-0003

Date Collected: 09/25/23 08:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-1

Matrix: Solid
Percent Solids: 78.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0252	0.0181	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1221	ND		0.0252	0.00744	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1232	ND		0.0252	0.00698	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1242	ND		0.0252	0.00398	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1248	ND		0.0252	0.00787	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1254	**0.213**		0.0252	0.0196	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1262	ND		0.0252	0.00587	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1260	ND		0.0252	0.00542	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1
PCB-1268	ND		0.0252	0.00537	mg/Kg	☼	09/27/23 15:53	09/30/23 06:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*
Tetrachloro-m-xylene	*94*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*
DCB Decachlorobiphenyl (Surr)	*142*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*
DCB Decachlorobiphenyl (Surr)	*46*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 06:27*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**21.5**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**78.5**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-2-0003

Date Collected: 09/25/23 08:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-2

Matrix: Solid
Percent Solids: 76.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0260	0.0187	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1221	ND		0.0260	0.00768	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1232	ND		0.0260	0.00720	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1242	ND		0.0260	0.00411	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1248	ND		0.0260	0.00812	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1254	**0.323**		0.0260	0.0202	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1262	ND		0.0260	0.00605	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1260	ND		0.0260	0.00559	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1
PCB-1268	ND		0.0260	0.00553	mg/Kg	☼	09/27/23 15:53	09/30/23 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*
Tetrachloro-m-xylene	*90*		*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*
DCB Decachlorobiphenyl (Surr)	*169*	*S1+*	*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*
DCB Decachlorobiphenyl (Surr)	*70*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 06:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**23.4**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**76.6**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-3-0003

Date Collected: 09/25/23 08:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-3

Matrix: Solid
Percent Solids: 97.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.02	0.737	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1221	ND		1.02	0.302	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1232	ND		1.02	0.283	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1242	ND		1.02	0.162	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1248	ND		1.02	0.320	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1254	**30.5**		1.02	0.796	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1262	ND		1.02	0.238	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1260	ND		1.02	0.220	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50
PCB-1268	ND		1.02	0.218	mg/Kg	☼	09/27/23 15:53	10/02/23 20:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:05*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**97.7**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-4-0003

Date Collected: 09/25/23 09:00
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-4

Matrix: Solid
Percent Solids: 83.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0229	0.0165	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1221	ND		0.0229	0.00678	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1232	ND		0.0229	0.00636	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1242	ND		0.0229	0.00363	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1248	ND		0.0229	0.00717	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1254	**0.395**		0.0229	0.0179	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1262	ND		0.0229	0.00535	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1260	ND		0.0229	0.00493	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1
PCB-1268	ND		0.0229	0.00489	mg/Kg	☼	09/27/23 15:53	10/02/23 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*
Tetrachloro-m-xylene	*66*		*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*
DCB Decachlorobiphenyl (Surr)	*10*	*p S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 20:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.1**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-5-0003 Lab Sample ID: 620-14138-5

Date Collected: 09/25/23 09:20 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.222	0.160	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1221	ND		0.222	0.0655	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1232	ND		0.222	0.0614	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1242	ND		0.222	0.0350	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1248	ND		0.222	0.0693	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1254	**7.20**		0.222	0.173	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1262	ND		0.222	0.0517	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1260	ND	F1	0.222	0.0477	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10
PCB-1268	ND		0.222	0.0472	mg/Kg	☼	09/27/23 16:02	10/02/23 20:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 20:40*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.0**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**87.0**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-6-0003

Date Collected: 09/25/23 09:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-6

Matrix: Solid
Percent Solids: 84.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0230	0.0166	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1221	ND		0.0230	0.00680	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1232	ND		0.0230	0.00637	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1242	ND		0.0230	0.00364	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1248	ND		0.0230	0.00719	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1254	**0.155**		0.0230	0.0179	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1262	ND		0.0230	0.00536	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1260	ND		0.0230	0.00495	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1
PCB-1268	ND		0.0230	0.00490	mg/Kg	☼	09/27/23 15:53	09/30/23 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/27/23 15:53*	*09/30/23 03:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**84.7**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-7-0003

Date Collected: 09/25/23 09:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-7

Matrix: Solid
Percent Solids: 83.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.471	0.339	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1221	ND		0.471	0.139	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1232	ND		0.471	0.130	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1242	ND		0.471	0.0744	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1248	ND		0.471	0.147	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1254	**2.62**		0.471	0.366	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1262	ND		0.471	0.110	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1260	ND		0.471	0.101	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20
PCB-1268	ND		0.471	0.100	mg/Kg	☼	09/27/23 15:53	10/03/23 13:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:04*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.1**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-8-0003

Date Collected: 09/25/23 09:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-8

Matrix: Solid
Percent Solids: 85.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0233	0.0168	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1221	ND		0.0233	0.00688	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1232	ND		0.0233	0.00645	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1242	ND		0.0233	0.00368	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1248	ND		0.0233	0.00727	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1254	**0.968**		0.0233	0.0181	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1262	ND		0.0233	0.00542	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1260	ND		0.0233	0.00500	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1
PCB-1268	ND		0.0233	0.00496	mg/Kg	☼	09/27/23 15:53	09/30/23 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*		*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*
DCB Decachlorobiphenyl (Surr)	*131*		*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*
DCB Decachlorobiphenyl (Surr)	*33*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 09:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.9**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-9-0003
Lab Sample ID: 620-14138-9
Date Collected: 09/25/23 10:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.472	0.340	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1221	ND		0.472	0.140	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1232	ND		0.472	0.131	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1242	ND		0.472	0.0746	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1248	ND		0.472	0.148	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1254	**11.5**		0.472	0.368	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1262	ND		0.472	0.110	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1260	ND		0.472	0.102	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20
PCB-1268	ND		0.472	0.101	mg/Kg	☼	09/27/23 15:53	10/03/23 12:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 12:30*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.6**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.4**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-10-0003

Date Collected: 09/25/23 10:10
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-10

Matrix: Solid
Percent Solids: 90.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.08	0.781	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1221	ND		1.08	0.320	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1232	ND		1.08	0.300	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1242	ND		1.08	0.171	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1248	ND		1.08	0.339	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1254	**33.2**		1.08	0.843	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1262	ND		1.08	0.252	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1260	ND		1.08	0.233	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50
PCB-1268	ND		1.08	0.231	mg/Kg	☼	09/27/23 15:53	10/03/23 15:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 15:05*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.7**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**90.3**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-11-0003 Lab Sample ID: 620-14138-11

Date Collected: 09/25/23 10:45 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 81.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.119	0.0854	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1221	ND		0.119	0.0350	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1232	ND		0.119	0.0328	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1242	ND		0.119	0.0187	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1248	ND		0.119	0.0371	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1254	**2.91**		0.119	0.0923	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1262	ND		0.119	0.0276	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1260	ND		0.119	0.0255	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5
PCB-1268	ND		0.119	0.0253	mg/Kg	☼	09/27/23 15:53	10/02/23 21:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 21:51*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**81.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-12-0003 **Lab Sample ID: 620-14138-12**
Date Collected: 09/25/23 10:50 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 81.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0239	0.0172	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1221	ND		0.0239	0.00707	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1232	ND		0.0239	0.00663	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1242	ND		0.0239	0.00378	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1248	ND		0.0239	0.00748	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1254	**0.760**		0.0239	0.0186	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1262	ND		0.0239	0.00558	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1260	ND		0.0239	0.00515	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1
PCB-1268	ND		0.0239	0.00510	mg/Kg	☼	09/27/23 15:53	09/30/23 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*
Tetrachloro-m-xylene	*100*		*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*
DCB Decachlorobiphenyl (Surr)	*42*	*p*	*30 - 150*	*09/27/23 15:53*	*09/30/23 02:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**81.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-13-0003 Lab Sample ID: 620-14138-13

Date Collected: 09/25/23 11:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 82.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.237	0.171	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1221	ND		0.237	0.0700	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1232	ND		0.237	0.0656	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1242	ND		0.237	0.0374	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1248	ND		0.237	0.0740	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1254	**7.65**		0.237	0.184	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1262	ND		0.237	0.0552	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1260	ND		0.237	0.0509	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10
PCB-1268	ND		0.237	0.0504	mg/Kg	☼	09/27/23 15:53	10/02/23 22:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.0**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**82.0**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: FD-01-092523 Lab Sample ID: 620-14138-14

Date Collected: 09/25/23 08:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 81.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0473	0.0341	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1221	ND		0.0473	0.0140	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1232	ND		0.0473	0.0131	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1242	ND		0.0473	0.00747	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1248	ND		0.0473	0.0148	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1254	**1.69**		0.0473	0.0368	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1262	ND		0.0473	0.0110	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1260	ND		0.0473	0.0102	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2
PCB-1268	ND		0.0473	0.0101	mg/Kg	☼	09/27/23 15:53	10/02/23 22:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/02/23 22:26*	*2*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**18.2**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**81.8**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-14-0003 Lab Sample ID: 620-14138-15

Date Collected: 09/25/23 11:25 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 82.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.19	0.858	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1221	ND		1.19	0.352	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1232	ND		1.19	0.330	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1242	ND		1.19	0.188	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1248	ND		1.19	0.372	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1254	**11.9**		1.19	0.927	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1262	ND		1.19	0.278	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1260	ND		1.19	0.256	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50
PCB-1268	ND		1.19	0.254	mg/Kg	☼	09/27/23 15:53	10/03/23 13:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 15:53*	*10/03/23 13:39*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**17.2**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**82.8**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-15-0003 Lab Sample ID: 620-14138-16

Date Collected: 09/25/23 11:35 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 85.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.468	0.337	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1221	ND		0.468	0.138	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1232	ND		0.468	0.130	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1242	ND		0.468	0.0739	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1248	ND		0.468	0.146	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1254	**9.39**		0.468	0.364	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1262	ND		0.468	0.109	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1260	ND		0.468	0.101	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20
PCB-1268	ND		0.468	0.0996	mg/Kg	☼	09/27/23 16:07	10/03/23 15:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 15:23*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.8**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.2**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-16-0003

Date Collected: 09/25/23 11:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-17

Matrix: Solid
Percent Solids: 83.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.229	0.165	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1221	ND		0.229	0.0678	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1232	ND		0.229	0.0635	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1242	ND		0.229	0.0362	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1248	ND		0.229	0.0717	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1254	**8.47**		0.229	0.178	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1262	ND		0.229	0.0534	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1260	ND		0.229	0.0493	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10
PCB-1268	ND		0.229	0.0488	mg/Kg	☼	09/27/23 16:07	10/02/23 23:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/02/23 23:19*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.7**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**83.3**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-17-0003

Date Collected: 09/25/23 12:05
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-18

Matrix: Solid
Percent Solids: 85.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.457	0.329	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1221	ND		0.457	0.135	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1232	ND		0.457	0.127	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1242	ND		0.457	0.0722	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1248	ND		0.457	0.143	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1254	**11.0**		0.457	0.356	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1262	ND		0.457	0.107	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1260	ND		0.457	0.0983	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20
PCB-1268	ND		0.457	0.0974	mg/Kg	☼	09/27/23 16:07	10/03/23 14:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 14:13*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.7**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.3**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-18-0003

Date Collected: 09/25/23 12:10
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-19

Matrix: Solid
Percent Solids: 88.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.440	0.317	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1221	ND		0.440	0.130	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1232	ND		0.440	0.122	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1242	ND		0.440	0.0695	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1248	ND		0.440	0.138	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1254	**13.2**		0.440	0.342	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1262	ND		0.440	0.103	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1260	ND		0.440	0.0946	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20
PCB-1268	ND		0.440	0.0937	mg/Kg	☼	09/27/23 16:07	10/03/23 12:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:07*	*10/03/23 12:47*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.6**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**88.4**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-19-0003

Date Collected: 09/25/23 12:20
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-20

Matrix: Solid
Percent Solids: 89.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0220	0.0158	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1221	ND		0.0220	0.00649	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1232	ND		0.0220	0.00608	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1242	ND		0.0220	0.00347	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1248	ND		0.0220	0.00686	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1254	**0.237**		0.0220	0.0171	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1262	ND		0.0220	0.00512	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1260	ND		0.0220	0.00472	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1
PCB-1268	ND		0.0220	0.00468	mg/Kg	☼	09/27/23 16:07	09/30/23 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*
DCB Decachlorobiphenyl (Surr)	*133*		*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*
DCB Decachlorobiphenyl (Surr)	*62*	*p*	*30 - 150*	*09/27/23 16:07*	*09/30/23 08:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.7**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-20-0003

Date Collected: 09/25/23 12:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-21

Matrix: Solid
Percent Solids: 89.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.218	0.157	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1221	ND		0.218	0.0644	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1232	ND		0.218	0.0604	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1242	ND		0.218	0.0344	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1248	ND		0.218	0.0681	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1254	**5.13**		0.218	0.170	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1262	ND		0.218	0.0508	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1260	ND		0.218	0.0468	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10
PCB-1268	ND		0.218	0.0464	mg/Kg	☼	09/29/23 15:34	10/03/23 00:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*09/29/23 15:34*	*10/03/23 00:53*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.1**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-21-0003

Date Collected: 09/25/23 13:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-22

Matrix: Solid
Percent Solids: 89.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.192	0.138	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1221	ND		0.192	0.0568	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1232	ND		0.192	0.0532	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1242	ND		0.192	0.0303	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1248	ND		0.192	0.0600	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1254	**4.17**		0.192	0.149	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1262	ND		0.192	0.0448	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1260	ND		0.192	0.0413	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10
PCB-1268	ND		0.192	0.0409	mg/Kg	☼	10/02/23 16:28	10/03/23 18:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*10/02/23 16:28*	*10/03/23 18:00*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.8**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.2**		0.1	0.1	%			09/27/23 10:56	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-22-0003

Date Collected: 09/25/23 13:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-23

Matrix: Solid
Percent Solids: 85.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0224	0.0162	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1221	ND		0.0224	0.00663	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1232	ND		0.0224	0.00622	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1242	ND		0.0224	0.00355	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1248	ND		0.0224	0.00701	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1254	**0.714**		0.0224	0.0175	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1262	ND		0.0224	0.00523	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1260	ND		0.0224	0.00483	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1
PCB-1268	ND		0.0224	0.00478	mg/Kg	☼	10/02/23 16:28	10/03/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*
DCB Decachlorobiphenyl (Surr)	*45*		*30 - 150*	*10/02/23 16:28*	*10/03/23 17:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**14.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**85.1**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-23-0003

Date Collected: 09/25/23 13:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-24

Matrix: Solid
Percent Solids: 75.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.514	0.371	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1221	ND		0.514	0.152	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1232	ND		0.514	0.142	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1242	ND		0.514	0.0813	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1248	ND		0.514	0.161	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1254	**14.6**		0.514	0.400	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1262	ND		0.514	0.120	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1260	ND		0.514	0.111	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20
PCB-1268	ND		0.514	0.110	mg/Kg	☼	09/29/23 15:34	10/03/23 13:26	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:26*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**24.3**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**75.7**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-24-0003

Date Collected: 09/25/23 13:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-25

Matrix: Solid
Percent Solids: 86.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.27	1.64	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1221	ND		2.27	0.672	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1232	ND		2.27	0.629	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1242	ND		2.27	0.359	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1248	ND		2.27	0.710	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1254	**93.6**		2.27	1.77	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1262	ND		2.27	0.529	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1260	ND		2.27	0.489	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100
PCB-1268	ND		2.27	0.484	mg/Kg	☼	09/29/23 15:34	10/03/23 13:44	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 13:44*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.9**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**86.1**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-25-0003 Lab Sample ID: 620-14138-26

Date Collected: 09/25/23 14:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 88.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.03	0.744	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1221	ND		1.03	0.305	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1232	ND		1.03	0.286	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1242	ND		1.03	0.163	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1248	ND		1.03	0.323	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1254	**18.5**		1.03	0.804	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1262	ND		1.03	0.241	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1260	ND		1.03	0.222	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50
PCB-1268	ND		1.03	0.220	mg/Kg	☼	09/29/23 15:34	10/03/23 14:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:01*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**88.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-26-0003 Lab Sample ID: 620-14138-27

Date Collected: 09/25/23 14:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 89.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0214	0.0154	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1221	ND		0.0214	0.00631	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1232	ND		0.0214	0.00592	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1242	ND		0.0214	0.00338	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1248	ND		0.0214	0.00668	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1254	**0.0707**		0.0214	0.0166	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1262	ND		0.0214	0.00498	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1260	ND		0.0214	0.00459	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1
PCB-1268	ND		0.0214	0.00455	mg/Kg	☼	09/29/23 15:34	10/03/23 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*
Tetrachloro-m-xylene	*43*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*30*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*31*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**10.1**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**89.9**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-27-0003 Lab Sample ID: 620-14138-28

Date Collected: 09/25/23 14:20 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 91.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0193	0.0139	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1221	ND		0.0193	0.00569	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1232	ND		0.0193	0.00533	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1242	ND		0.0193	0.00304	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1248	ND		0.0193	0.00602	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1254	**0.121**		0.0193	0.0150	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1262	ND		0.0193	0.00449	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1260	ND		0.0193	0.00414	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1
PCB-1268	ND		0.0193	0.00410	mg/Kg	☼	09/29/23 15:34	10/03/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*
DCB Decachlorobiphenyl (Surr)	*31*		*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*
DCB Decachlorobiphenyl (Surr)	*28*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**91.8**		0.1	0.1	%			09/27/23 10:56	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-28-0003

Date Collected: 09/25/23 14:25
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-29

Matrix: Solid
Percent Solids: 86.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.227	0.163	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1221	ND		0.227	0.0670	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1232	ND		0.227	0.0628	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1242	ND		0.227	0.0358	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1248	ND		0.227	0.0709	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1254	**1.27**		0.227	0.176	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1262	ND		0.227	0.0529	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1260	ND		0.227	0.0488	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10
PCB-1268	ND		0.227	0.0483	mg/Kg	☼	09/29/23 15:34	10/03/23 03:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*
Tetrachloro-m-xylene	*78*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:23*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.4**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**86.6**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-29-0003 Lab Sample ID: 620-14138-30

Date Collected: 09/25/23 14:35 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 87.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.209	0.151	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1221	ND		0.209	0.0618	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1232	ND		0.209	0.0579	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1242	ND		0.209	0.0330	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1248	ND		0.209	0.0653	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1254	**1.50**		0.209	0.163	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1262	ND		0.209	0.0487	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1260	ND		0.209	0.0450	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10
PCB-1268	ND		0.209	0.0445	mg/Kg	☼	09/29/23 15:34	10/03/23 03:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:34*	*10/03/23 03:40*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.0**		0.1	0.1	%			09/27/23 10:56	1
Percent Solids (EPA Moisture)	**87.0**		0.1	0.1	%			09/27/23 10:56	1

Client Sample ID: ATM-PCB-30-0003 Lab Sample ID: 620-14138-31

Date Collected: 09/25/23 14:55 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 86.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.11	1.52	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1221	ND		2.11	0.622	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1232	ND		2.11	0.583	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1242	ND		2.11	0.333	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1248	ND		2.11	0.658	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1254	**35.6**		2.11	1.64	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1262	ND		2.11	0.491	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1260	ND		2.11	0.453	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100
PCB-1268	ND		2.11	0.449	mg/Kg	☼	09/29/23 15:34	10/03/23 14:54	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 14:54*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.9**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**86.1**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: FD-02-092523 Lab Sample ID: 620-14138-32

Date Collected: 09/25/23 09:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 86.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.386	0.278	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1221	ND		0.386	0.114	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1232	ND		0.386	0.107	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1242	ND		0.386	0.0610	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1248	ND		0.386	0.121	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1254	**13.2**		0.386	0.300	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1262	ND		0.386	0.0899	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1260	ND		0.386	0.0830	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20
PCB-1268	ND		0.386	0.0822	mg/Kg	☼	09/29/23 15:34	10/03/23 15:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:34*	*10/03/23 15:12*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**13.3**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**86.7**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-31-0003 Lab Sample ID: 620-14138-33

Date Collected: 09/25/23 15:00 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 88.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0182	0.0131	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1221	ND		0.0182	0.00537	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1232	ND		0.0182	0.00504	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1242	ND		0.0182	0.00287	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1248	ND		0.0182	0.00568	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1254	**0.222**		0.0182	0.0141	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1262	ND		0.0182	0.00424	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1260	ND		0.0182	0.00391	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1
PCB-1268	ND		0.0182	0.00387	mg/Kg	☼	09/29/23 15:34	10/03/23 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*
DCB Decachlorobiphenyl (Surr)	*50*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**11.5**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**88.5**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-32-0003 Lab Sample ID: 620-14138-34

Date Collected: 09/25/23 15:10 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 83.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0223	0.0160	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1221	ND		0.0223	0.00658	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1232	ND		0.0223	0.00617	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1242	ND		0.0223	0.00352	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1248	ND		0.0223	0.00696	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1254	**0.0958**		0.0223	0.0173	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1262	ND		0.0223	0.00519	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1260	ND		0.0223	0.00479	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1
PCB-1268	ND		0.0223	0.00474	mg/Kg	☼	09/29/23 15:34	10/03/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*
Tetrachloro-m-xylene	*55*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*
DCB Decachlorobiphenyl (Surr)	*41*		*30 - 150*	*09/29/23 15:34*	*10/03/23 15:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**16.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**83.9**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-33-0003

Date Collected: 09/26/23 08:45
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-35

Matrix: Solid
Percent Solids: 84.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0219	0.0158	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1221	ND		0.0219	0.00647	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1232	ND		0.0219	0.00607	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1242	ND		0.0219	0.00346	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1248	ND		0.0219	0.00684	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1254	**0.393**		0.0219	0.0170	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1262	ND		0.0219	0.00510	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1260	ND		0.0219	0.00471	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1
PCB-1268	ND		0.0219	0.00467	mg/Kg	☼	09/29/23 15:34	10/03/23 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*
DCB Decachlorobiphenyl (Surr)	*45*		*30 - 150*	*09/29/23 15:34*	*10/03/23 16:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**15.9**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**84.1**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-34-0003 Lab Sample ID: 620-14138-36

Date Collected: 09/26/23 08:50 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 87.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.412	0.297	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1221	ND		0.412	0.122	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1232	ND		0.412	0.114	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1242	ND		0.412	0.0651	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1248	ND		0.412	0.129	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1254	**12.1**		0.412	0.320	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1262	ND		0.412	0.0959	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1260	ND		0.412	0.0885	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10
PCB-1268	ND		0.412	0.0877	mg/Kg	☼	09/29/23 15:34	10/03/23 05:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*
Tetrachloro-m-xylene	*87*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*
DCB Decachlorobiphenyl (Surr)	*87*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*09/29/23 15:34*	*10/03/23 05:24*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**87.4**		0.1	0.1	%			09/27/23 12:46	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-35-0003

Date Collected: 09/26/23 09:00
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-37

Matrix: Solid
Percent Solids: 95.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.200	0.144	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1221	ND		0.200	0.0591	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1232	ND		0.200	0.0554	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1242	ND		0.200	0.0316	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1248	ND		0.200	0.0625	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1254	**4.19**		0.200	0.156	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1262	ND		0.200	0.0466	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1260	ND	F1	0.200	0.0430	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10
PCB-1268	ND		0.200	0.0426	mg/Kg	☼	09/27/23 16:02	10/02/23 17:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/27/23 16:02*	*10/02/23 17:13*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.8**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**95.2**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-36-0003

Date Collected: 09/26/23 09:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-38

Matrix: Solid
Percent Solids: 92.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.923	0.665	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1221	ND		0.923	0.273	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1232	ND		0.923	0.256	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1242	ND		0.923	0.146	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1248	ND		0.923	0.288	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1254	**20.4**		0.923	0.718	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1262	ND		0.923	0.215	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1260	ND		0.923	0.198	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50
PCB-1268	ND		0.923	0.197	mg/Kg	☼	09/29/23 15:37	10/03/23 14:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 14:48*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**92.9**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-50-0003 Lab Sample ID: 620-14138-39

Date Collected: 09/26/23 09:55 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 91.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.215	0.155	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1221	ND		0.215	0.0634	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1232	ND		0.215	0.0595	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1242	ND		0.215	0.0339	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1248	ND		0.215	0.0671	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1254	**0.907**		0.215	0.167	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1262	ND		0.215	0.0500	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1260	ND		0.215	0.0462	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10
PCB-1268	ND		0.215	0.0457	mg/Kg	☼	09/29/23 15:37	10/03/23 02:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:28*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.0**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**91.0**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-37-0003 Lab Sample ID: 620-14138-40

Date Collected: 09/26/23 09:40 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 93.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.202	0.146	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1221	ND		0.202	0.0597	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1232	ND		0.202	0.0560	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1242	ND		0.202	0.0319	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1248	ND		0.202	0.0632	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1254	**2.59**		0.202	0.157	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1262	ND		0.202	0.0471	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1260	ND		0.202	0.0435	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10
PCB-1268	ND		0.202	0.0431	mg/Kg	☼	09/29/23 15:37	10/03/23 02:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 02:46*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.9**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-38-0003 Lab Sample ID: 620-14138-41

Date Collected: 09/26/23 09:45 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 91.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.215	0.155	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1221	ND		0.215	0.0634	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1232	ND		0.215	0.0595	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1242	ND		0.215	0.0339	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1248	ND		0.215	0.0671	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1254	**0.246**		0.215	0.167	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1262	ND		0.215	0.0500	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1260	ND		0.215	0.0461	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10
PCB-1268	ND		0.215	0.0457	mg/Kg	☼	09/29/23 15:37	10/03/23 03:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:03*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**8.2**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**91.8**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-49-0003

Date Collected: 09/26/23 10:05
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-42

Matrix: Solid
Percent Solids: 87.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.220	0.158	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1221	ND		0.220	0.0649	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1232	ND		0.220	0.0608	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1242	ND		0.220	0.0347	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1248	ND		0.220	0.0686	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1254	**4.54**		0.220	0.171	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1262	ND		0.220	0.0512	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1260	ND		0.220	0.0472	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10
PCB-1268	ND		0.220	0.0468	mg/Kg	☼	09/29/23 15:37	10/03/23 03:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:21*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**12.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**87.4**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-39-0003 Lab Sample ID: 620-14138-43

Date Collected: 09/26/23 10:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 93.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.204	0.147	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1221	ND		0.204	0.0604	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1232	ND		0.204	0.0566	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1242	ND		0.204	0.0323	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1248	ND		0.204	0.0638	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1254	**2.17**		0.204	0.159	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1262	ND		0.204	0.0476	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1260	ND		0.204	0.0439	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10
PCB-1268	ND		0.204	0.0435	mg/Kg	☼	09/29/23 15:37	10/03/23 03:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:39*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.9**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-40-0003 Lab Sample ID: 620-14138-44

Date Collected: 09/26/23 10:30 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 90.5**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.197	0.142	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1221	ND		0.197	0.0582	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1232	ND		0.197	0.0546	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1242	ND		0.197	0.0311	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1248	ND		0.197	0.0615	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1254	**0.316**		0.197	0.153	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1262	ND		0.197	0.0459	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1260	ND		0.197	0.0423	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10
PCB-1268	ND		0.197	0.0419	mg/Kg	☼	09/29/23 15:37	10/03/23 03:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 03:56*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.5**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**90.5**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-41-0003

Date Collected: 09/26/23 10:35
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-45

Matrix: Solid
Percent Solids: 93.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.201	0.145	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1221	ND		0.201	0.0593	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1232	ND		0.201	0.0556	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1242	ND		0.201	0.0317	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1248	ND		0.201	0.0627	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1254	**0.965**		0.201	0.156	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1262	ND		0.201	0.0468	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1260	ND		0.201	0.0432	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10
PCB-1268	ND		0.201	0.0428	mg/Kg	☼	09/29/23 15:37	10/03/23 04:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:14*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.3**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.7**		0.1	0.1	%			09/27/23 12:46	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-42-0003

Date Collected: 09/26/23 10:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-46

Matrix: Solid
Percent Solids: 94.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.208	0.150	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1221	ND		0.208	0.0615	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1232	ND		0.208	0.0577	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1242	ND		0.208	0.0329	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1248	ND		0.208	0.0651	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1254	**0.314**		0.208	0.162	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1262	ND		0.208	0.0485	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1260	ND		0.208	0.0448	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10
PCB-1268	ND		0.208	0.0444	mg/Kg	☼	09/29/23 15:37	10/03/23 04:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:32*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**94.4**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-43-0003 Lab Sample ID: 620-14138-47

Date Collected: 09/26/23 10:45 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 93.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.197	0.142	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1221	ND		0.197	0.0581	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1232	ND		0.197	0.0545	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1242	ND		0.197	0.0311	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1248	ND		0.197	0.0615	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1254	**0.185**	**J**	0.197	0.153	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1262	ND		0.197	0.0458	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1260	ND		0.197	0.0423	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10
PCB-1268	ND		0.197	0.0419	mg/Kg	☼	09/29/23 15:37	10/03/23 04:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 04:49*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**6.6**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**93.4**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: FD-03-092623

Date Collected: 09/26/23 08:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-48

Matrix: Solid
Percent Solids: 92.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.205	0.148	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1221	ND		0.205	0.0607	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1232	ND		0.205	0.0569	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1242	ND		0.205	0.0324	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1248	ND		0.205	0.0642	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1254	**0.253**		0.205	0.160	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1262	ND		0.205	0.0478	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1260	ND		0.205	0.0441	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10
PCB-1268	ND		0.205	0.0437	mg/Kg	☼	09/29/23 15:37	10/03/23 05:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:07*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.7**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**92.3**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-44-0003 Lab Sample ID: 620-14138-49

Date Collected: 09/26/23 10:50 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 94.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.200	0.144	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1221	ND		0.200	0.0590	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1232	ND		0.200	0.0553	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1242	ND		0.200	0.0316	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1248	ND		0.200	0.0624	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1254	**0.924**		0.200	0.155	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1262	ND		0.200	0.0465	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1260	ND		0.200	0.0429	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10
PCB-1268	ND		0.200	0.0425	mg/Kg	☼	09/29/23 15:37	10/03/23 05:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:25*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.2**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**94.8**		0.1	0.1	%			09/27/23 12:46	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-45-0003

Date Collected: 09/26/23 10:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-50

Matrix: Solid
Percent Solids: 91.0

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.185	0.133	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1221	ND		0.185	0.0546	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1232	ND		0.185	0.0512	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1242	ND		0.185	0.0292	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1248	ND		0.185	0.0577	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1254	**1.09**		0.185	0.144	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1262	ND		0.185	0.0430	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1260	ND		0.185	0.0397	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10
PCB-1268	ND		0.185	0.0394	mg/Kg	☼	09/29/23 15:37	10/03/23 05:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 05:42*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**9.0**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**91.0**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-46-0003 Lab Sample ID: 620-14138-51

Date Collected: 09/26/23 11:05 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 94.8**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.199	0.143	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1221	ND		0.199	0.0587	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1232	ND		0.199	0.0550	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1242	ND		0.199	0.0314	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1248	ND		0.199	0.0620	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1254	**1.10**		0.199	0.154	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1262	ND		0.199	0.0463	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1260	ND		0.199	0.0427	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10
PCB-1268	ND		0.199	0.0423	mg/Kg	☼	09/29/23 15:37	10/03/23 06:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:00*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.2**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**94.8**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-47-0003 Lab Sample ID: 620-14138-52

Date Collected: 09/26/23 11:10 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 95.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.205	0.148	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1221	ND		0.205	0.0607	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1232	ND		0.205	0.0569	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1242	ND		0.205	0.0324	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1248	ND		0.205	0.0642	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1254	**0.219**		0.205	0.160	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1262	ND		0.205	0.0479	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1260	ND		0.205	0.0442	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10
PCB-1268	ND		0.205	0.0437	mg/Kg	☼	09/29/23 15:37	10/03/23 06:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:37*	*10/03/23 06:18*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**5.0**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**95.0**		0.1	0.1	%			09/27/23 12:46	1

Client Sample ID: ATM-PCB-48-0003 Lab Sample ID: 620-14138-53

Date Collected: 09/26/23 11:15 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 92.9**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0211	0.0152	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1221	ND		0.0211	0.00624	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1232	ND		0.0211	0.00585	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1242	ND		0.0211	0.00334	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1248	ND		0.0211	0.00660	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1254	**0.0616**		0.0211	0.0164	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1262	ND		0.0211	0.00492	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1260	ND		0.0211	0.00454	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1
PCB-1268	ND		0.0211	0.00450	mg/Kg	☼	09/27/23 15:53	09/30/23 05:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*
Tetrachloro-m-xylene	*96*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*30 - 150*	*09/27/23 15:53*	*09/30/23 05:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**7.1**		0.1	0.1	%			09/27/23 12:46	1
Percent Solids (EPA Moisture)	**92.9**		0.1	0.1	%			09/27/23 12:46	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14138-1	ATM-PCB-1-0003	100	94	142	46 p
620-14138-2	ATM-PCB-2-0003	75	90	169 S1+	70 p
620-14138-3	ATM-PCB-3-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-4	ATM-PCB-4-0003	68	66	67	10 p S1-
620-14138-5	ATM-PCB-5-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-5 MS	ATM-PCB-5-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-5 MSD	ATM-PCB-5-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-6	ATM-PCB-6-0003	58	63	55	42
620-14138-7	ATM-PCB-7-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-8	ATM-PCB-8-0003	44	41	131	33 p
620-14138-9	ATM-PCB-9-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-10	ATM-PCB-10-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-11	ATM-PCB-11-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-12	ATM-PCB-12-0003	97	100	82	42 p
620-14138-13	ATM-PCB-13-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-14	FD-01-092523	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-15	ATM-PCB-14-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-16	ATM-PCB-15-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-17	ATM-PCB-16-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-18	ATM-PCB-17-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-19	ATM-PCB-18-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-20	ATM-PCB-19-0003	68	69	133	62 p
620-14138-21	ATM-PCB-20-0003	69	72	81	59
620-14138-22	ATM-PCB-21-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-23	ATM-PCB-22-0003	77	69	48	45
620-14138-24	ATM-PCB-23-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-25	ATM-PCB-24-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-26	ATM-PCB-25-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-27	ATM-PCB-26-0003	45	43	30	31
620-14138-28	ATM-PCB-27-0003	42	41	31	28 S1-
620-14138-29	ATM-PCB-28-0003	72	78	87	82
620-14138-30	ATM-PCB-29-0003	74	80	79	68
620-14138-31	ATM-PCB-30-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-32	FD-02-092523	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-33	ATM-PCB-31-0003	72	62	57	50
620-14138-34	ATM-PCB-32-0003	60	55	42	41
620-14138-35	ATM-PCB-33-0003	66	58	48	45
620-14138-36	ATM-PCB-34-0003	83	87	87	64
620-14138-37	ATM-PCB-35-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-37 MS	ATM-PCB-35-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-37 MSD	ATM-PCB-35-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-38	ATM-PCB-36-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-39	ATM-PCB-50-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-40	ATM-PCB-37-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-41	ATM-PCB-38-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-42	ATM-PCB-49-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-43	ATM-PCB-39-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-44	ATM-PCB-40-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-45	ATM-PCB-41-0003	0 S1-	0 S1-	0 S1-	0 S1-

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14138-46	ATM-PCB-42-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-47	ATM-PCB-43-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-48	FD-03-092623	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-49	ATM-PCB-44-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-50	ATM-PCB-45-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-51	ATM-PCB-46-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-52	ATM-PCB-47-0003	0 S1-	0 S1-	0 S1-	0 S1-
620-14138-53	ATM-PCB-48-0003	91	96	77	73
620-14138-53 MS	ATM-PCB-48-0003	95	90	81	53 p
620-14138-53 MSD	ATM-PCB-48-0003	91	100	90	97
LCS 620-27244/2-A	Lab Control Sample	60	53	45	44
LCS 620-27344/2-A	Lab Control Sample	75	79	62	68
LCS 620-27345/2-A	Lab Control Sample	81	80	67	72
LCS 620-27400/2-A	Lab Control Sample	60	63	51	51
LCSD 620-27244/3-A	Lab Control Sample Dup	52	57	42	42
LCSD 620-27344/3-A	Lab Control Sample Dup	81	85	60	65
LCSD 620-27345/3-A	Lab Control Sample Dup	70	68	59	63
LCSD 620-27400/3-A	Lab Control Sample Dup	60	64	51	50
MB 620-27244/1-A	Method Blank	55	57	46	44
MB 620-27344/1-A	Method Blank	71	74	55	59
MB 620-27345/1-A	Method Blank	72	68	58	61
MB 620-27400/1-A	Method Blank	72	75	61	60

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: 620-14138-5 MS
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-5-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.188	0.2051	J	mg/Kg	☼	109	40 - 140
PCB-1260	ND	F1	0.188	0.9462	F1	mg/Kg	☼	503	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*

Lab Sample ID: 620-14138-5 MSD
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-5-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.181	0.2041	J	mg/Kg	☼	112	40 - 140	0	30
PCB-1260	ND	F1	0.181	1.081	F1	mg/Kg	☼	595	40 - 140	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*

Lab Sample ID: 620-14138-37 MS
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.170	0.1560	J	mg/Kg	☼	92	40 - 140
PCB-1260	ND	F1	0.170	0.6198	F1	mg/Kg	☼	364	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*

Lab Sample ID: 620-14138-37 MSD
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA
Prep Batch: 27243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.174	0.1730	J	mg/Kg	☼	100	40 - 140	10	30
PCB-1260	ND	F1	0.174	0.5917	F1	mg/Kg	☼	340	40 - 140	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-14138-37 MSD
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA
Prep Batch: 27243

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150
DCB Decachlorobiphenyl (Surr)	0	S1-	30 - 150

Lab Sample ID: MB 620-27244/1-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/27/23 15:53	09/30/23 04:43	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/27/23 15:53	09/30/23 04:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		30 - 150	09/27/23 15:53	09/30/23 04:43	1
Tetrachloro-m-xylene	57		30 - 150	09/27/23 15:53	09/30/23 04:43	1
DCB Decachlorobiphenyl (Surr)	46		30 - 150	09/27/23 15:53	09/30/23 04:43	1
DCB Decachlorobiphenyl (Surr)	44		30 - 150	09/27/23 15:53	09/30/23 04:43	1

Lab Sample ID: LCS 620-27244/2-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27244

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1349		mg/Kg		81	40 - 140		
PCB-1016			0.167	0.1268		mg/Kg		76	40 - 140		
PCB-1260			0.167	0.1282		mg/Kg		77	40 - 140		
PCB-1260			0.167	0.1353		mg/Kg		81	40 - 140		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	60		30 - 150
Tetrachloro-m-xylene	53		30 - 150
DCB Decachlorobiphenyl (Surr)	45		30 - 150
DCB Decachlorobiphenyl (Surr)	44		30 - 150

Lab Sample ID: LCSD 620-27244/3-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27244

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1146		mg/Kg		69	40 - 140	16	30
PCB-1016			0.167	0.1156		mg/Kg		69	40 - 140	9	30

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-27244/3-A
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27244

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1260			0.167	0.1204		mg/Kg		72	40 - 140	6	30
PCB-1260			0.167	0.1306		mg/Kg		78	40 - 140	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*52*		*30 - 150*
Tetrachloro-m-xylene	*57*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*

Lab Sample ID: 620-14138-53 MS
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: ATM-PCB-48-0003
Prep Type: Total/NA
Prep Batch: 27244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		0.173	0.1556		mg/Kg	☼	90	40 - 140
PCB-1260	ND		0.173	0.1754		mg/Kg	☼	101	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*95*		*30 - 150*
Tetrachloro-m-xylene	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*53*	*p*	*30 - 150*

Lab Sample ID: 620-14138-53 MSD
Matrix: Solid
Analysis Batch: 27330

Client Sample ID: ATM-PCB-48-0003
Prep Type: Total/NA
Prep Batch: 27244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		0.177	0.1572		mg/Kg	☼	89	40 - 140	1	30
PCB-1260	ND		0.177	0.1777		mg/Kg	☼	100	40 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*30 - 150*
Tetrachloro-m-xylene	*100*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*97*		*30 - 150*

Lab Sample ID: MB 620-27344/1-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:34	10/02/23 21:42	1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27344/1-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:34	10/02/23 21:42	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:34	10/02/23 21:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*09/29/23 15:34*	*10/02/23 21:42*	*1*

Lab Sample ID: LCS 620-27344/2-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27344

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1332		mg/Kg		80	40 - 140		
PCB-1016			0.167	0.1315		mg/Kg		79	40 - 140		
PCB-1260			0.167	0.1472		mg/Kg		88	40 - 140		
PCB-1260			0.167	0.1540		mg/Kg		92	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*30 - 150*
Tetrachloro-m-xylene	*79*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*

Lab Sample ID: LCSD 620-27344/3-A
Matrix: Solid
Analysis Batch: 27364

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27344

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1393		mg/Kg		84	40 - 140	4	30
PCB-1016			0.167	0.1378		mg/Kg		83	40 - 140	5	30
PCB-1260			0.167	0.1420		mg/Kg		85	40 - 140	4	30
PCB-1260			0.167	0.1469		mg/Kg		88	40 - 140	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*85*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*

Lab Sample ID: MB 620-27345/1-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:37	10/03/23 01:17	1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27345/1-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:37	10/03/23 01:17	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:37	10/03/23 01:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*09/29/23 15:37*	*10/03/23 01:17*	*1*

Lab Sample ID: LCS 620-27345/2-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27345

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1533		mg/Kg		92	40 - 140		
PCB-1016			0.167	0.1432		mg/Kg		86	40 - 140		
PCB-1260			0.167	0.1737		mg/Kg		104	40 - 140		
PCB-1260			0.167	0.1587		mg/Kg		95	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*80*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*

Lab Sample ID: LCSD 620-27345/3-A
Matrix: Solid
Analysis Batch: 27362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27345

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1360		mg/Kg		82	40 - 140	12	30
PCB-1016			0.167	0.1282		mg/Kg		77	40 - 140	11	30
PCB-1260			0.167	0.1610		mg/Kg		97	40 - 140	8	30
PCB-1260			0.167	0.1458		mg/Kg		87	40 - 140	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*30 - 150*
Tetrachloro-m-xylene	*68*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27400/1-A
Matrix: Solid
Analysis Batch: 27427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		10/02/23 16:28	10/03/23 16:00	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		10/02/23 16:28	10/03/23 16:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*
Tetrachloro-m-xylene	*75*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*10/02/23 16:28*	*10/03/23 16:00*	*1*

Lab Sample ID: LCS 620-27400/2-A
Matrix: Solid
Analysis Batch: 27427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27400

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.09989		mg/Kg		60	40 - 140		
PCB-1016			0.167	0.09855		mg/Kg		59	40 - 140		
PCB-1260			0.167	0.1100		mg/Kg		66	40 - 140		
PCB-1260			0.167	0.1111		mg/Kg		67	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 150*
Tetrachloro-m-xylene	*63*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*51*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*51*		*30 - 150*

Lab Sample ID: LCSD 620-27400/3-A
Matrix: Solid
Analysis Batch: 27427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27400

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1022		mg/Kg		61	40 - 140	2	30
PCB-1016			0.167	0.09636		mg/Kg		58	40 - 140	2	30
PCB-1260			0.167	0.1101		mg/Kg		66	40 - 140	0	30
PCB-1260			0.167	0.1101		mg/Kg		66	40 - 140	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 150*
Tetrachloro-m-xylene	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*51*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*50*		*30 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 620-14138-5 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-5-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	13.0			13.6		%				4	5
Percent Solids	87.0			86.4		%				0.6	5

Lab Sample ID: 620-14138-10 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-10-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.7			9.4		%				4	5
Percent Solids	90.3			90.6		%				0.4	5

Lab Sample ID: 620-14138-11 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-11-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.1			18.1		%				0.07	5
Percent Solids	81.9			81.9		%				0	5

Lab Sample ID: 620-14138-21 DU
Matrix: Solid
Analysis Batch: 27226

Client Sample ID: ATM-PCB-20-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.9			10.7		%				2	5
Percent Solids	89.1			89.3		%				0.2	5

Lab Sample ID: 620-14138-37 DU
Matrix: Solid
Analysis Batch: 27235

Client Sample ID: ATM-PCB-35-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	4.8			4.6		%				5	5
Percent Solids	95.2			95.4		%				0.2	5

Lab Sample ID: 620-14138-50 DU
Matrix: Solid
Analysis Batch: 27235

Client Sample ID: ATM-PCB-45-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.0			9.4		%				4	5
Percent Solids	91.0			90.6		%				0.4	5

Lab Sample ID: 620-14138-53 DU
Matrix: Solid
Analysis Batch: 27235

Client Sample ID: ATM-PCB-48-0003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	7.1			7.3		%				3	5
Percent Solids	92.9			92.7		%				0.2	5

GC Semi VOA

Prep Batch: 27243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-5	ATM-PCB-5-0003	Total/NA	Solid	3540C	
620-14138-37	ATM-PCB-35-0003	Total/NA	Solid	3540C	
620-14138-5 MS	ATM-PCB-5-0003	Total/NA	Solid	3540C	
620-14138-5 MSD	ATM-PCB-5-0003	Total/NA	Solid	3540C	
620-14138-37 MS	ATM-PCB-35-0003	Total/NA	Solid	3540C	
620-14138-37 MSD	ATM-PCB-35-0003	Total/NA	Solid	3540C	

Prep Batch: 27244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-1	ATM-PCB-1-0003	Total/NA	Solid	3540C	
620-14138-2	ATM-PCB-2-0003	Total/NA	Solid	3540C	
620-14138-3	ATM-PCB-3-0003	Total/NA	Solid	3540C	
620-14138-4	ATM-PCB-4-0003	Total/NA	Solid	3540C	
620-14138-6	ATM-PCB-6-0003	Total/NA	Solid	3540C	
620-14138-7	ATM-PCB-7-0003	Total/NA	Solid	3540C	
620-14138-8	ATM-PCB-8-0003	Total/NA	Solid	3540C	
620-14138-9	ATM-PCB-9-0003	Total/NA	Solid	3540C	
620-14138-10	ATM-PCB-10-0003	Total/NA	Solid	3540C	
620-14138-11	ATM-PCB-11-0003	Total/NA	Solid	3540C	
620-14138-12	ATM-PCB-12-0003	Total/NA	Solid	3540C	
620-14138-13	ATM-PCB-13-0003	Total/NA	Solid	3540C	
620-14138-14	FD-01-092523	Total/NA	Solid	3540C	
620-14138-15	ATM-PCB-14-0003	Total/NA	Solid	3540C	
620-14138-16	ATM-PCB-15-0003	Total/NA	Solid	3540C	
620-14138-17	ATM-PCB-16-0003	Total/NA	Solid	3540C	
620-14138-18	ATM-PCB-17-0003	Total/NA	Solid	3540C	
620-14138-19	ATM-PCB-18-0003	Total/NA	Solid	3540C	
620-14138-20	ATM-PCB-19-0003	Total/NA	Solid	3540C	
620-14138-53	ATM-PCB-48-0003	Total/NA	Solid	3540C	
MB 620-27244/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27244/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27244/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-14138-53 MS	ATM-PCB-48-0003	Total/NA	Solid	3540C	
620-14138-53 MSD	ATM-PCB-48-0003	Total/NA	Solid	3540C	

Analysis Batch: 27330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-1	ATM-PCB-1-0003	Total/NA	Solid	8082	27244
620-14138-2	ATM-PCB-2-0003	Total/NA	Solid	8082	27244
620-14138-6	ATM-PCB-6-0003	Total/NA	Solid	8082	27244
620-14138-8	ATM-PCB-8-0003	Total/NA	Solid	8082	27244
620-14138-12	ATM-PCB-12-0003	Total/NA	Solid	8082	27244
620-14138-20	ATM-PCB-19-0003	Total/NA	Solid	8082	27244
620-14138-53	ATM-PCB-48-0003	Total/NA	Solid	8082	27244
MB 620-27244/1-A	Method Blank	Total/NA	Solid	8082	27244
LCS 620-27244/2-A	Lab Control Sample	Total/NA	Solid	8082	27244
LCSD 620-27244/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27244
620-14138-53 MSD	ATM-PCB-48-0003	Total/NA	Solid	8082	27244

GC Semi VOA

Prep Batch: 27344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-21	ATM-PCB-20-0003	Total/NA	Solid	3540C	
620-14138-24	ATM-PCB-23-0003	Total/NA	Solid	3540C	
620-14138-25	ATM-PCB-24-0003	Total/NA	Solid	3540C	
620-14138-26	ATM-PCB-25-0003	Total/NA	Solid	3540C	
620-14138-27	ATM-PCB-26-0003	Total/NA	Solid	3540C	
620-14138-28	ATM-PCB-27-0003	Total/NA	Solid	3540C	
620-14138-29	ATM-PCB-28-0003	Total/NA	Solid	3540C	
620-14138-30	ATM-PCB-29-0003	Total/NA	Solid	3540C	
620-14138-31	ATM-PCB-30-0003	Total/NA	Solid	3540C	
620-14138-32	FD-02-092523	Total/NA	Solid	3540C	
620-14138-33	ATM-PCB-31-0003	Total/NA	Solid	3540C	
620-14138-34	ATM-PCB-32-0003	Total/NA	Solid	3540C	
620-14138-35	ATM-PCB-33-0003	Total/NA	Solid	3540C	
620-14138-36	ATM-PCB-34-0003	Total/NA	Solid	3540C	
MB 620-27344/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27344/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27344/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Prep Batch: 27345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-38	ATM-PCB-36-0003	Total/NA	Solid	3540C	
620-14138-39	ATM-PCB-50-0003	Total/NA	Solid	3540C	
620-14138-40	ATM-PCB-37-0003	Total/NA	Solid	3540C	
620-14138-41	ATM-PCB-38-0003	Total/NA	Solid	3540C	
620-14138-42	ATM-PCB-49-0003	Total/NA	Solid	3540C	
620-14138-43	ATM-PCB-39-0003	Total/NA	Solid	3540C	
620-14138-44	ATM-PCB-40-0003	Total/NA	Solid	3540C	
620-14138-45	ATM-PCB-41-0003	Total/NA	Solid	3540C	
620-14138-46	ATM-PCB-42-0003	Total/NA	Solid	3540C	
620-14138-47	ATM-PCB-43-0003	Total/NA	Solid	3540C	
620-14138-48	FD-03-092623	Total/NA	Solid	3540C	
620-14138-49	ATM-PCB-44-0003	Total/NA	Solid	3540C	
620-14138-50	ATM-PCB-45-0003	Total/NA	Solid	3540C	
620-14138-51	ATM-PCB-46-0003	Total/NA	Solid	3540C	
620-14138-52	ATM-PCB-47-0003	Total/NA	Solid	3540C	
MB 620-27345/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27345/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27345/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 27362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-3	ATM-PCB-3-0003	Total/NA	Solid	8082	27244
620-14138-4	ATM-PCB-4-0003	Total/NA	Solid	8082	27244
620-14138-5	ATM-PCB-5-0003	Total/NA	Solid	8082	27243
620-14138-11	ATM-PCB-11-0003	Total/NA	Solid	8082	27244
620-14138-13	ATM-PCB-13-0003	Total/NA	Solid	8082	27244
620-14138-14	FD-01-092523	Total/NA	Solid	8082	27244
620-14138-17	ATM-PCB-16-0003	Total/NA	Solid	8082	27244
620-14138-37	ATM-PCB-35-0003	Total/NA	Solid	8082	27243
620-14138-39	ATM-PCB-50-0003	Total/NA	Solid	8082	27345
620-14138-40	ATM-PCB-37-0003	Total/NA	Solid	8082	27345

GC Semi VOA (Continued)

Analysis Batch: 27362 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-41	ATM-PCB-38-0003	Total/NA	Solid	8082	27345
620-14138-42	ATM-PCB-49-0003	Total/NA	Solid	8082	27345
620-14138-43	ATM-PCB-39-0003	Total/NA	Solid	8082	27345
620-14138-44	ATM-PCB-40-0003	Total/NA	Solid	8082	27345
620-14138-45	ATM-PCB-41-0003	Total/NA	Solid	8082	27345
620-14138-46	ATM-PCB-42-0003	Total/NA	Solid	8082	27345
620-14138-47	ATM-PCB-43-0003	Total/NA	Solid	8082	27345
620-14138-48	FD-03-092623	Total/NA	Solid	8082	27345
620-14138-49	ATM-PCB-44-0003	Total/NA	Solid	8082	27345
620-14138-50	ATM-PCB-45-0003	Total/NA	Solid	8082	27345
620-14138-51	ATM-PCB-46-0003	Total/NA	Solid	8082	27345
620-14138-52	ATM-PCB-47-0003	Total/NA	Solid	8082	27345
MB 620-27345/1-A	Method Blank	Total/NA	Solid	8082	27345
LCS 620-27345/2-A	Lab Control Sample	Total/NA	Solid	8082	27345
LCSD 620-27345/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27345
620-14138-5 MS	ATM-PCB-5-0003	Total/NA	Solid	8082	27243
620-14138-5 MSD	ATM-PCB-5-0003	Total/NA	Solid	8082	27243
620-14138-37 MS	ATM-PCB-35-0003	Total/NA	Solid	8082	27243
620-14138-37 MSD	ATM-PCB-35-0003	Total/NA	Solid	8082	27243
620-14138-53 MS	ATM-PCB-48-0003	Total/NA	Solid	8082	27244

Analysis Batch: 27364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-21	ATM-PCB-20-0003	Total/NA	Solid	8082	27344
620-14138-29	ATM-PCB-28-0003	Total/NA	Solid	8082	27344
620-14138-30	ATM-PCB-29-0003	Total/NA	Solid	8082	27344
620-14138-36	ATM-PCB-34-0003	Total/NA	Solid	8082	27344
MB 620-27344/1-A	Method Blank	Total/NA	Solid	8082	27344
LCS 620-27344/2-A	Lab Control Sample	Total/NA	Solid	8082	27344
LCSD 620-27344/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27344

Prep Batch: 27400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-22	ATM-PCB-21-0003	Total/NA	Solid	3540C	
620-14138-23	ATM-PCB-22-0003	Total/NA	Solid	3540C	
MB 620-27400/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27400/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27400/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 27427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-7	ATM-PCB-7-0003	Total/NA	Solid	8082	27244
620-14138-9	ATM-PCB-9-0003	Total/NA	Solid	8082	27244
620-14138-10	ATM-PCB-10-0003	Total/NA	Solid	8082	27244
620-14138-15	ATM-PCB-14-0003	Total/NA	Solid	8082	27244
620-14138-16	ATM-PCB-15-0003	Total/NA	Solid	8082	27244
620-14138-18	ATM-PCB-17-0003	Total/NA	Solid	8082	27244
620-14138-19	ATM-PCB-18-0003	Total/NA	Solid	8082	27244
620-14138-38	ATM-PCB-36-0003	Total/NA	Solid	8082	27345
MB 620-27400/1-A	Method Blank	Total/NA	Solid	8082	27400
LCS 620-27400/2-A	Lab Control Sample	Total/NA	Solid	8082	27400

GC Semi VOA (Continued)

Analysis Batch: 27427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 620-27400/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27400

Analysis Batch: 27429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-22	ATM-PCB-21-0003	Total/NA	Solid	8082	27400
620-14138-23	ATM-PCB-22-0003	Total/NA	Solid	8082	27400
620-14138-24	ATM-PCB-23-0003	Total/NA	Solid	8082	27344
620-14138-25	ATM-PCB-24-0003	Total/NA	Solid	8082	27344
620-14138-26	ATM-PCB-25-0003	Total/NA	Solid	8082	27344
620-14138-27	ATM-PCB-26-0003	Total/NA	Solid	8082	27344
620-14138-28	ATM-PCB-27-0003	Total/NA	Solid	8082	27344
620-14138-31	ATM-PCB-30-0003	Total/NA	Solid	8082	27344
620-14138-32	FD-02-092523	Total/NA	Solid	8082	27344
620-14138-33	ATM-PCB-31-0003	Total/NA	Solid	8082	27344
620-14138-34	ATM-PCB-32-0003	Total/NA	Solid	8082	27344
620-14138-35	ATM-PCB-33-0003	Total/NA	Solid	8082	27344

General Chemistry

Analysis Batch: 27226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-1	ATM-PCB-1-0003	Total/NA	Solid	Moisture	
620-14138-2	ATM-PCB-2-0003	Total/NA	Solid	Moisture	
620-14138-3	ATM-PCB-3-0003	Total/NA	Solid	Moisture	
620-14138-4	ATM-PCB-4-0003	Total/NA	Solid	Moisture	
620-14138-5	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-6	ATM-PCB-6-0003	Total/NA	Solid	Moisture	
620-14138-7	ATM-PCB-7-0003	Total/NA	Solid	Moisture	
620-14138-8	ATM-PCB-8-0003	Total/NA	Solid	Moisture	
620-14138-9	ATM-PCB-9-0003	Total/NA	Solid	Moisture	
620-14138-10	ATM-PCB-10-0003	Total/NA	Solid	Moisture	
620-14138-11	ATM-PCB-11-0003	Total/NA	Solid	Moisture	
620-14138-12	ATM-PCB-12-0003	Total/NA	Solid	Moisture	
620-14138-13	ATM-PCB-13-0003	Total/NA	Solid	Moisture	
620-14138-14	FD-01-092523	Total/NA	Solid	Moisture	
620-14138-15	ATM-PCB-14-0003	Total/NA	Solid	Moisture	
620-14138-16	ATM-PCB-15-0003	Total/NA	Solid	Moisture	
620-14138-17	ATM-PCB-16-0003	Total/NA	Solid	Moisture	
620-14138-18	ATM-PCB-17-0003	Total/NA	Solid	Moisture	
620-14138-19	ATM-PCB-18-0003	Total/NA	Solid	Moisture	
620-14138-20	ATM-PCB-19-0003	Total/NA	Solid	Moisture	
620-14138-21	ATM-PCB-20-0003	Total/NA	Solid	Moisture	
620-14138-22	ATM-PCB-21-0003	Total/NA	Solid	Moisture	
620-14138-23	ATM-PCB-22-0003	Total/NA	Solid	Moisture	
620-14138-24	ATM-PCB-23-0003	Total/NA	Solid	Moisture	
620-14138-25	ATM-PCB-24-0003	Total/NA	Solid	Moisture	
620-14138-26	ATM-PCB-25-0003	Total/NA	Solid	Moisture	
620-14138-27	ATM-PCB-26-0003	Total/NA	Solid	Moisture	
620-14138-28	ATM-PCB-27-0003	Total/NA	Solid	Moisture	
620-14138-29	ATM-PCB-28-0003	Total/NA	Solid	Moisture	
620-14138-30	ATM-PCB-29-0003	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 27226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-5 MS	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-5 MSD	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-5 DU	ATM-PCB-5-0003	Total/NA	Solid	Moisture	
620-14138-10 DU	ATM-PCB-10-0003	Total/NA	Solid	Moisture	
620-14138-11 DU	ATM-PCB-11-0003	Total/NA	Solid	Moisture	
620-14138-21 DU	ATM-PCB-20-0003	Total/NA	Solid	Moisture	

Analysis Batch: 27235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14138-31	ATM-PCB-30-0003	Total/NA	Solid	Moisture	
620-14138-32	FD-02-092523	Total/NA	Solid	Moisture	
620-14138-33	ATM-PCB-31-0003	Total/NA	Solid	Moisture	
620-14138-34	ATM-PCB-32-0003	Total/NA	Solid	Moisture	
620-14138-35	ATM-PCB-33-0003	Total/NA	Solid	Moisture	
620-14138-36	ATM-PCB-34-0003	Total/NA	Solid	Moisture	
620-14138-37	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-38	ATM-PCB-36-0003	Total/NA	Solid	Moisture	
620-14138-39	ATM-PCB-50-0003	Total/NA	Solid	Moisture	
620-14138-40	ATM-PCB-37-0003	Total/NA	Solid	Moisture	
620-14138-41	ATM-PCB-38-0003	Total/NA	Solid	Moisture	
620-14138-42	ATM-PCB-49-0003	Total/NA	Solid	Moisture	
620-14138-43	ATM-PCB-39-0003	Total/NA	Solid	Moisture	
620-14138-44	ATM-PCB-40-0003	Total/NA	Solid	Moisture	
620-14138-45	ATM-PCB-41-0003	Total/NA	Solid	Moisture	
620-14138-46	ATM-PCB-42-0003	Total/NA	Solid	Moisture	
620-14138-47	ATM-PCB-43-0003	Total/NA	Solid	Moisture	
620-14138-48	FD-03-092623	Total/NA	Solid	Moisture	
620-14138-49	ATM-PCB-44-0003	Total/NA	Solid	Moisture	
620-14138-50	ATM-PCB-45-0003	Total/NA	Solid	Moisture	
620-14138-51	ATM-PCB-46-0003	Total/NA	Solid	Moisture	
620-14138-52	ATM-PCB-47-0003	Total/NA	Solid	Moisture	
620-14138-53	ATM-PCB-48-0003	Total/NA	Solid	Moisture	
620-14138-37 MS	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-37 MSD	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-53 MS	ATM-PCB-48-0003	Total/NA	Solid	Moisture	
620-14138-53 MSD	ATM-PCB-48-0003	Total/NA	Solid	Moisture	
620-14138-37 DU	ATM-PCB-35-0003	Total/NA	Solid	Moisture	
620-14138-50 DU	ATM-PCB-45-0003	Total/NA	Solid	Moisture	
620-14138-53 DU	ATM-PCB-48-0003	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-1-0003 **Lab Sample ID: 620-14138-1**
Date Collected: 09/25/23 08:30 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-1-0003 **Lab Sample ID: 620-14138-1**
Date Collected: 09/25/23 08:30 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 78.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 06:27

Client Sample ID: ATM-PCB-2-0003 **Lab Sample ID: 620-14138-2**
Date Collected: 09/25/23 08:40 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-2-0003 **Lab Sample ID: 620-14138-2**
Date Collected: 09/25/23 08:40 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 76.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 06:44

Client Sample ID: ATM-PCB-3-0003 **Lab Sample ID: 620-14138-3**
Date Collected: 09/25/23 08:55 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-3-0003 **Lab Sample ID: 620-14138-3**
Date Collected: 09/25/23 08:55 **Matrix: Solid**
Date Received: 09/26/23 14:30 **Percent Solids: 97.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		50	27362	SFL	EET NE	10/02/23 20:05

Client Sample ID: ATM-PCB-4-0003 **Lab Sample ID: 620-14138-4**
Date Collected: 09/25/23 09:00 **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-4-0003
Lab Sample ID: 620-14138-4
Date Collected: 09/25/23 09:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27362	SFL	EET NE	10/02/23 20:22

Client Sample ID: ATM-PCB-5-0003
Lab Sample ID: 620-14138-5
Date Collected: 09/25/23 09:20
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-5-0003
Lab Sample ID: 620-14138-5
Date Collected: 09/25/23 09:20
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27243	AAH	EET NE	09/27/23 16:02
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 20:40

Client Sample ID: ATM-PCB-6-0003
Lab Sample ID: 620-14138-6
Date Collected: 09/25/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-6-0003
Lab Sample ID: 620-14138-6
Date Collected: 09/25/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 03:21

Client Sample ID: ATM-PCB-7-0003
Lab Sample ID: 620-14138-7
Date Collected: 09/25/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-7-0003
Lab Sample ID: 620-14138-7
Date Collected: 09/25/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 13:04

Client Sample ID: ATM-PCB-8-0003
Lab Sample ID: 620-14138-8
Date Collected: 09/25/23 09:50
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-8-0003
Lab Sample ID: 620-14138-8
Date Collected: 09/25/23 09:50
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 09:37

Client Sample ID: ATM-PCB-9-0003
Lab Sample ID: 620-14138-9
Date Collected: 09/25/23 10:00
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-9-0003
Lab Sample ID: 620-14138-9
Date Collected: 09/25/23 10:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 12:30

Client Sample ID: ATM-PCB-10-0003
Lab Sample ID: 620-14138-10
Date Collected: 09/25/23 10:10
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-10-0003
Lab Sample ID: 620-14138-10
Date Collected: 09/25/23 10:10
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		50	27427	SFL	EET NE	10/03/23 15:05

Client Sample ID: ATM-PCB-11-0003
Lab Sample ID: 620-14138-11
Date Collected: 09/25/23 10:45
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-11-0003
Lab Sample ID: 620-14138-11
Date Collected: 09/25/23 10:45
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		5	27362	SFL	EET NE	10/02/23 21:51

Client Sample ID: ATM-PCB-12-0003
Lab Sample ID: 620-14138-12
Date Collected: 09/25/23 10:50
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-12-0003
Lab Sample ID: 620-14138-12
Date Collected: 09/25/23 10:50
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 02:12

Client Sample ID: ATM-PCB-13-0003
Lab Sample ID: 620-14138-13
Date Collected: 09/25/23 11:15
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-13-0003 — Lab Sample ID: 620-14138-13

Date Collected: 09/25/23 11:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 82.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 22:08

Client Sample ID: FD-01-092523 — Lab Sample ID: 620-14138-14

Date Collected: 09/25/23 08:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: FD-01-092523 — Lab Sample ID: 620-14138-14

Date Collected: 09/25/23 08:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 81.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		2	27362	SFL	EET NE	10/02/23 22:26

Client Sample ID: ATM-PCB-14-0003 — Lab Sample ID: 620-14138-15

Date Collected: 09/25/23 11:25 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-14-0003 — Lab Sample ID: 620-14138-15

Date Collected: 09/25/23 11:25 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		50	27427	SFL	EET NE	10/03/23 13:39

Client Sample ID: ATM-PCB-15-0003 — Lab Sample ID: 620-14138-16

Date Collected: 09/25/23 11:35 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-15-0003
Lab Sample ID: 620-14138-16
Date Collected: 09/25/23 11:35
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 15:23

Client Sample ID: ATM-PCB-16-0003
Lab Sample ID: 620-14138-17
Date Collected: 09/25/23 11:55
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-16-0003
Lab Sample ID: 620-14138-17
Date Collected: 09/25/23 11:55
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 23:19

Client Sample ID: ATM-PCB-17-0003
Lab Sample ID: 620-14138-18
Date Collected: 09/25/23 12:05
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-17-0003
Lab Sample ID: 620-14138-18
Date Collected: 09/25/23 12:05
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 14:13

Client Sample ID: ATM-PCB-18-0003
Lab Sample ID: 620-14138-19
Date Collected: 09/25/23 12:10
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-18-0003 — Lab Sample ID: 620-14138-19
Date Collected: 09/25/23 12:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 88.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		20	27427	SFL	EET NE	10/03/23 12:47

Client Sample ID: ATM-PCB-19-0003 — Lab Sample ID: 620-14138-20
Date Collected: 09/25/23 12:20 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-19-0003 — Lab Sample ID: 620-14138-20
Date Collected: 09/25/23 12:20 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 89.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 16:07
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 08:28

Client Sample ID: ATM-PCB-20-0003 — Lab Sample ID: 620-14138-21
Date Collected: 09/25/23 12:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-20-0003 — Lab Sample ID: 620-14138-21
Date Collected: 09/25/23 12:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 00:53

Client Sample ID: ATM-PCB-21-0003 — Lab Sample ID: 620-14138-22
Date Collected: 09/25/23 13:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-21-0003
Date Collected: 09/25/23 13:30
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-22
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27400	BJJ	EET NE	10/02/23 16:28
Total/NA	Analysis	8082		10	27429	SFL	EET NE	10/03/23 18:00

Client Sample ID: ATM-PCB-22-0003
Date Collected: 09/25/23 13:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-22-0003
Date Collected: 09/25/23 13:40
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-23
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27400	BJJ	EET NE	10/02/23 16:28
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 17:43

Client Sample ID: ATM-PCB-23-0003
Date Collected: 09/25/23 13:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-23-0003
Date Collected: 09/25/23 13:50
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-24
Matrix: Solid
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		20	27429	SFL	EET NE	10/03/23 13:26

Client Sample ID: ATM-PCB-24-0003
Date Collected: 09/25/23 13:55
Date Received: 09/26/23 14:30

Lab Sample ID: 620-14138-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-24-0003 — Lab Sample ID: 620-14138-25
Date Collected: 09/25/23 13:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 86.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		100	27429	SFL	EET NE	10/03/23 13:44

Client Sample ID: ATM-PCB-25-0003 — Lab Sample ID: 620-14138-26
Date Collected: 09/25/23 14:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-25-0003 — Lab Sample ID: 620-14138-26
Date Collected: 09/25/23 14:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 88.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		50	27429	SFL	EET NE	10/03/23 14:01

Client Sample ID: ATM-PCB-26-0003 — Lab Sample ID: 620-14138-27
Date Collected: 09/25/23 14:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-26-0003 — Lab Sample ID: 620-14138-27
Date Collected: 09/25/23 14:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 89.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 14:19

Client Sample ID: ATM-PCB-27-0003 — Lab Sample ID: 620-14138-28
Date Collected: 09/25/23 14:20 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-27-0003
Lab Sample ID: 620-14138-28
Date Collected: 09/25/23 14:20
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 14:37

Client Sample ID: ATM-PCB-28-0003
Lab Sample ID: 620-14138-29
Date Collected: 09/25/23 14:25
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-28-0003
Lab Sample ID: 620-14138-29
Date Collected: 09/25/23 14:25
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 03:23

Client Sample ID: ATM-PCB-29-0003
Lab Sample ID: 620-14138-30
Date Collected: 09/25/23 14:35
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27226	JPC	EET NE	09/27/23 10:56

Client Sample ID: ATM-PCB-29-0003
Lab Sample ID: 620-14138-30
Date Collected: 09/25/23 14:35
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 03:40

Client Sample ID: ATM-PCB-30-0003
Lab Sample ID: 620-14138-31
Date Collected: 09/25/23 14:55
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-30-0003 — Lab Sample ID: 620-14138-31

Date Collected: 09/25/23 14:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 86.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		100	27429	SFL	EET NE	10/03/23 14:54

Client Sample ID: FD-02-092523 — Lab Sample ID: 620-14138-32

Date Collected: 09/25/23 09:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: FD-02-092523 — Lab Sample ID: 620-14138-32

Date Collected: 09/25/23 09:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 86.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		20	27429	SFL	EET NE	10/03/23 15:12

Client Sample ID: ATM-PCB-31-0003 — Lab Sample ID: 620-14138-33

Date Collected: 09/25/23 15:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-31-0003 — Lab Sample ID: 620-14138-33

Date Collected: 09/25/23 15:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 15:30

Client Sample ID: ATM-PCB-32-0003 — Lab Sample ID: 620-14138-34

Date Collected: 09/25/23 15:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-32-0003 — Lab Sample ID: 620-14138-34

Date Collected: 09/25/23 15:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 83.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 15:48

Client Sample ID: ATM-PCB-33-0003 — Lab Sample ID: 620-14138-35

Date Collected: 09/26/23 08:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-33-0003 — Lab Sample ID: 620-14138-35

Date Collected: 09/26/23 08:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 84.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		1	27429	SFL	EET NE	10/03/23 16:05

Client Sample ID: ATM-PCB-34-0003 — Lab Sample ID: 620-14138-36

Date Collected: 09/26/23 08:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-34-0003 — Lab Sample ID: 620-14138-36

Date Collected: 09/26/23 08:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27344	BJJ	EET NE	09/29/23 15:34
Total/NA	Analysis	8082		10	27364	SFL	EET NE	10/03/23 05:24

Client Sample ID: ATM-PCB-35-0003 — Lab Sample ID: 620-14138-37

Date Collected: 09/26/23 09:00 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-35-0003
Lab Sample ID: 620-14138-37
Date Collected: 09/26/23 09:00
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27243	AAH	EET NE	09/27/23 16:02
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/02/23 17:13

Client Sample ID: ATM-PCB-36-0003
Lab Sample ID: 620-14138-38
Date Collected: 09/26/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-36-0003
Lab Sample ID: 620-14138-38
Date Collected: 09/26/23 09:30
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		50	27427	SFL	EET NE	10/03/23 14:48

Client Sample ID: ATM-PCB-50-0003
Lab Sample ID: 620-14138-39
Date Collected: 09/26/23 09:55
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-50-0003
Lab Sample ID: 620-14138-39
Date Collected: 09/26/23 09:55
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 02:28

Client Sample ID: ATM-PCB-37-0003
Lab Sample ID: 620-14138-40
Date Collected: 09/26/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Client Sample ID: ATM-PCB-37-0003
Lab Sample ID: 620-14138-40
Date Collected: 09/26/23 09:40
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 02:46

Client Sample ID: ATM-PCB-38-0003
Lab Sample ID: 620-14138-41
Date Collected: 09/26/23 09:45
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-38-0003
Lab Sample ID: 620-14138-41
Date Collected: 09/26/23 09:45
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:03

Client Sample ID: ATM-PCB-49-0003
Lab Sample ID: 620-14138-42
Date Collected: 09/26/23 10:05
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-49-0003
Lab Sample ID: 620-14138-42
Date Collected: 09/26/23 10:05
Matrix: Solid
Date Received: 09/26/23 14:30
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:21

Client Sample ID: ATM-PCB-39-0003
Lab Sample ID: 620-14138-43
Date Collected: 09/26/23 10:15
Matrix: Solid
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-39-0003 — Lab Sample ID: 620-14138-43

Date Collected: 09/26/23 10:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 93.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:39

Client Sample ID: ATM-PCB-40-0003 — Lab Sample ID: 620-14138-44

Date Collected: 09/26/23 10:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-40-0003 — Lab Sample ID: 620-14138-44

Date Collected: 09/26/23 10:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 90.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 03:56

Client Sample ID: ATM-PCB-41-0003 — Lab Sample ID: 620-14138-45

Date Collected: 09/26/23 10:35 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-41-0003 — Lab Sample ID: 620-14138-45

Date Collected: 09/26/23 10:35 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 93.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 04:14

Client Sample ID: ATM-PCB-42-0003 — Lab Sample ID: 620-14138-46

Date Collected: 09/26/23 10:40 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-42-0003 — Lab Sample ID: 620-14138-46

Date Collected: 09/26/23 10:40 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 04:32

Client Sample ID: ATM-PCB-43-0003 — Lab Sample ID: 620-14138-47

Date Collected: 09/26/23 10:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-43-0003 — Lab Sample ID: 620-14138-47

Date Collected: 09/26/23 10:45 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 93.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 04:49

Client Sample ID: FD-03-092623 — Lab Sample ID: 620-14138-48

Date Collected: 09/26/23 08:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: FD-03-092623 — Lab Sample ID: 620-14138-48

Date Collected: 09/26/23 08:30 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 92.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 05:07

Client Sample ID: ATM-PCB-44-0003 — Lab Sample ID: 620-14138-49

Date Collected: 09/26/23 10:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-44-0003 — Lab Sample ID: 620-14138-49

Date Collected: 09/26/23 10:50 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 94.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 05:25

Client Sample ID: ATM-PCB-45-0003 — Lab Sample ID: 620-14138-50

Date Collected: 09/26/23 10:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-45-0003 — Lab Sample ID: 620-14138-50

Date Collected: 09/26/23 10:55 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 91.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 05:42

Client Sample ID: ATM-PCB-46-0003 — Lab Sample ID: 620-14138-51

Date Collected: 09/26/23 11:05 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-46-0003 — Lab Sample ID: 620-14138-51

Date Collected: 09/26/23 11:05 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 94.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 06:00

Client Sample ID: ATM-PCB-47-0003 — Lab Sample ID: 620-14138-52

Date Collected: 09/26/23 11:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-PCB-47-0003 — Lab Sample ID: 620-14138-52

Date Collected: 09/26/23 11:10 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 95.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		10	27362	SFL	EET NE	10/03/23 06:18

Client Sample ID: ATM-PCB-48-0003 — Lab Sample ID: 620-14138-53

Date Collected: 09/26/23 11:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27235	JPC	EET NE	09/27/23 12:46

Client Sample ID: ATM-PCB-48-0003 — Lab Sample ID: 620-14138-53

Date Collected: 09/26/23 11:15 — **Matrix: Solid**
Date Received: 09/26/23 14:30 — **Percent Solids: 92.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27244	AAH	EET NE	09/27/23 15:53
Total/NA	Analysis	8082		1	27330	SFL	EET NE	09/30/23 05:35

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14138-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
Moisture	Percent Moisture	EPA	EET NE
3540C	Soxhlet Extraction	SW846	EET NE

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14138-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-14138-1	ATM-PCB-1-0003	Solid	09/25/23 08:30	09/26/23 14:30
620-14138-2	ATM-PCB-2-0003	Solid	09/25/23 08:40	09/26/23 14:30
620-14138-3	ATM-PCB-3-0003	Solid	09/25/23 08:55	09/26/23 14:30
620-14138-4	ATM-PCB-4-0003	Solid	09/25/23 09:00	09/26/23 14:30
620-14138-5	ATM-PCB-5-0003	Solid	09/25/23 09:20	09/26/23 14:30
620-14138-6	ATM-PCB-6-0003	Solid	09/25/23 09:30	09/26/23 14:30
620-14138-7	ATM-PCB-7-0003	Solid	09/25/23 09:40	09/26/23 14:30
620-14138-8	ATM-PCB-8-0003	Solid	09/25/23 09:50	09/26/23 14:30
620-14138-9	ATM-PCB-9-0003	Solid	09/25/23 10:00	09/26/23 14:30
620-14138-10	ATM-PCB-10-0003	Solid	09/25/23 10:10	09/26/23 14:30
620-14138-11	ATM-PCB-11-0003	Solid	09/25/23 10:45	09/26/23 14:30
620-14138-12	ATM-PCB-12-0003	Solid	09/25/23 10:50	09/26/23 14:30
620-14138-13	ATM-PCB-13-0003	Solid	09/25/23 11:15	09/26/23 14:30
620-14138-14	FD-01-092523	Solid	09/25/23 08:00	09/26/23 14:30
620-14138-15	ATM-PCB-14-0003	Solid	09/25/23 11:25	09/26/23 14:30
620-14138-16	ATM-PCB-15-0003	Solid	09/25/23 11:35	09/26/23 14:30
620-14138-17	ATM-PCB-16-0003	Solid	09/25/23 11:55	09/26/23 14:30
620-14138-18	ATM-PCB-17-0003	Solid	09/25/23 12:05	09/26/23 14:30
620-14138-19	ATM-PCB-18-0003	Solid	09/25/23 12:10	09/26/23 14:30
620-14138-20	ATM-PCB-19-0003	Solid	09/25/23 12:20	09/26/23 14:30
620-14138-21	ATM-PCB-20-0003	Solid	09/25/23 12:30	09/26/23 14:30
620-14138-22	ATM-PCB-21-0003	Solid	09/25/23 13:30	09/26/23 14:30
620-14138-23	ATM-PCB-22-0003	Solid	09/25/23 13:40	09/26/23 14:30
620-14138-24	ATM-PCB-23-0003	Solid	09/25/23 13:50	09/26/23 14:30
620-14138-25	ATM-PCB-24-0003	Solid	09/25/23 13:55	09/26/23 14:30
620-14138-26	ATM-PCB-25-0003	Solid	09/25/23 14:00	09/26/23 14:30
620-14138-27	ATM-PCB-26-0003	Solid	09/25/23 14:15	09/26/23 14:30
620-14138-28	ATM-PCB-27-0003	Solid	09/25/23 14:20	09/26/23 14:30
620-14138-29	ATM-PCB-28-0003	Solid	09/25/23 14:25	09/26/23 14:30
620-14138-30	ATM-PCB-29-0003	Solid	09/25/23 14:35	09/26/23 14:30
620-14138-31	ATM-PCB-30-0003	Solid	09/25/23 14:55	09/26/23 14:30
620-14138-32	FD-02-092523	Solid	09/25/23 09:00	09/26/23 14:30
620-14138-33	ATM-PCB-31-0003	Solid	09/25/23 15:00	09/26/23 14:30
620-14138-34	ATM-PCB-32-0003	Solid	09/25/23 15:10	09/26/23 14:30
620-14138-35	ATM-PCB-33-0003	Solid	09/26/23 08:45	09/26/23 14:30
620-14138-36	ATM-PCB-34-0003	Solid	09/26/23 08:50	09/26/23 14:30
620-14138-37	ATM-PCB-35-0003	Solid	09/26/23 09:00	09/26/23 14:30
620-14138-38	ATM-PCB-36-0003	Solid	09/26/23 09:30	09/26/23 14:30
620-14138-39	ATM-PCB-50-0003	Solid	09/26/23 09:55	09/26/23 14:30
620-14138-40	ATM-PCB-37-0003	Solid	09/26/23 09:40	09/26/23 14:30
620-14138-41	ATM-PCB-38-0003	Solid	09/26/23 09:45	09/26/23 14:30
620-14138-42	ATM-PCB-49-0003	Solid	09/26/23 10:05	09/26/23 14:30
620-14138-43	ATM-PCB-39-0003	Solid	09/26/23 10:15	09/26/23 14:30
620-14138-44	ATM-PCB-40-0003	Solid	09/26/23 10:30	09/26/23 14:30
620-14138-45	ATM-PCB-41-0003	Solid	09/26/23 10:35	09/26/23 14:30
620-14138-46	ATM-PCB-42-0003	Solid	09/26/23 10:40	09/26/23 14:30
620-14138-47	ATM-PCB-43-0003	Solid	09/26/23 10:45	09/26/23 14:30
620-14138-48	FD-03-092623	Solid	09/26/23 08:30	09/26/23 14:30
620-14138-49	ATM-PCB-44-0003	Solid	09/26/23 10:50	09/26/23 14:30
620-14138-50	ATM-PCB-45-0003	Solid	09/26/23 10:55	09/26/23 14:30
620-14138-51	ATM-PCB-46-0003	Solid	09/26/23 11:05	09/26/23 14:30
620-14138-52	ATM-PCB-47-0003	Solid	09/26/23 11:10	09/26/23 14:30
620-14138-53	ATM-PCB-48-0003	Solid	09/26/23 11:15	09/26/23 14:30

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Chain of Custody Record

eurofins | Environment Testing

620-14138 Chain of Custody

	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:

Analysis Requested

Address: 585 Middlesex Street	Due Date Requested: 10/3/23
City: Lowell	TAT Requested (days): 5 day
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No
Phone: 774-245-3618	PO #: S00001.002/400
Email: bfortier@nobis-group.com	WO #:
Project Name: 4 Holeman Street, Templeton MA	Project #:
Site: American Tissue Mill	SSOW#:

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (Soxhlet)	Total Number of containers	Special Instructions/Note:
	Preservation Code:									
-1	ATM-PCB-1-0003	9-25-23	8:30	C	Water			X		
-2	ATM-PCB-2-0003		8:40		Water			X		
-3	ATM-PCB-3-0003		8:55		Water			X		
-4	ATM-PCB-4-0003		9:00		Water			X		
-5	ATM-PCB-5-0003		9:20		Water		X	X		This sample is MS/MSD
-6	ATM-PCB-6-0003		9:30		Water			X		
-7	ATM-PCB-7-0003		9:40		Water			X		
-8	ATM-PCB-8-0003		9:50					X		
-9	ATM-PCB-9-0003		10:00					X		
-10	ATM-PCB-10-0003		10:10					X		
-11	ATM-PCB-11-0003		10:45					X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: send results EDD to Dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	9-26-23 12:33		Received by:	9/26/23 12:34	
Relinquished by:	9/26/23 14:30		Received by:	9/26/23 14:30	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.2 -0.2 3.4 #6 1.2 -0.2 4#6

Ver: 06/08/2021

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10/3/2023

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Chain of Custody Record

urofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

eurofins | Environment Testing

Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: S00001 002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (SOxhlet)	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
-12	ATM-PCB-12-0003	9-25-23	1050	C	S ~~Water~~			X		
-13	ATM-PCB-13-0003		1115		S ~~Water~~			X		
-14	FD-01-092523		800		S ~~Water~~			X		
-15	ATM-PCB-14-0003		1125		S ~~Water~~			X		
-16	ATM-PCB-15-0003		1135		S ~~Water~~			X		
-17	ATM-PCB-16-0003		1155		S ~~Water~~			X		
-18	ATM-PCB-17-0003		1205		S ~~Water~~			X		
-19	ATM-PCB-18-0003		1210					X		
-20	ATM-PCB-19-0003		1220					X		
-21	ATM-PCB-20-0003		1230					X		
-22	ATM-PCB-21-0003		1330					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: please send Equis EDD to dmcgrath@nobisgroup.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
[signature]	9-26-23 12:33		[signature]	9/26/23 12:34	EM
[signature]	9/26/23 14:30	EM	[signature]	9/26/23 14:30	EM

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
		3.2 to .2 3.4 #6 / 1.2 to .2 1.4 #6

Ver: 06/08/2021

10/3/2023

14138

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: 500001.002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (Soxhlet)	Total Number of containers	Special Instructions/Note:
	Preservation Code:									
-23	ATM-PCB-22-0003	9-25-23	1340	C	S Water			X		
-24	ATM-PCB-23-0003		1350		S Water			X		
-25	ATM-PCB-24-0003		1355		S Water			X		
-26	ATM-PCB-25-0003		1400		S Water			X		
-27	ATM-PCB-26-0003		1415		S Water			X		
-28	ATM-PCB-27-0003		1420		S Water			X		
-29	ATM-PCB-28-0003		1425		S Water			X		
-30	ATM-PCB-29-0003		1435					X		
-31	ATM-PCB-30-0003		1455					X		
-32	FD-02-092523		900					X		
-33	ATM-PCB-31-0003		1500					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: please send EQuIS EDD to dmgrathwohl@nobis-group.com

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-26-23 12:33			9/26/23 12:34	EM
2		9/26/23 14:30			9/26/23 14:30	EM
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.2 +0.2 1.2 PE/1.2 +0.2 1.4 PE6

Ver: 06/08/2021

14138

Chain of Custody Record

eurofins | Environment Testing

New England
Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Client Information	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page: Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10/3/23			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: 5000001 002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue Mill	SSOW#:			

Analysis Requested

PCBs 6082 (SOXHLET)

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 6082 (SOXHLET)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
-34 ATM-PCB-32-0003	9-25-23	1510	C	S Water			X		
-35 ATM-PCB-33-0003	9-26-23	845		S Water			X		
-36 ATM-PCB-34-0003	9-26-23	850		S Water			X		
-37 ATM-PCB-35-0003	9-26-23	900		S Water		X	X		MS/MSD
-38 ATM-PCB-36-0003	9-26 23	930		S Water			X		
-39 ATM-PCB-50-0003		955		S Water			X		
-40 ATM-PCB-37-0003		940		S Water			X		
-41 ATM-PCB-38-0003		945					X		
-42 ATM-PCB-49-0003		1005					X		
-43 ATM-PCB-39-0003		1015					X		
-44 ATM-PCB-40-0003		1030					X		

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send PQLs EDD to dmcgrath@nobis-group.com

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-26-23 12:33			9/26/23 12:34	
2		9/26/23 14:30			9/26/23 14:30	EWG
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.2 +0.2 3.4 #6/1.2 +0.2 1.4 #5

14138

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: S Stone	Lab PM	Carrier Tracking No(s)	COC No 620-9105-1141.3
Client Contact: Bridget Fortier	Phone	E-Mail	State of Origin	Page Page 3 of 3
Company: Nobis Engineering, Inc	PWSID			Job #:
Address: 585 Middlesex Street	Due Date Requested: 10-3			
City: Lowell	TAT Requested (days): 5 day			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone: 774-245-3612	PO #: S00001.002/400			
Email: bfortier@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site: American Tissue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCBs 8082 (soxhlet)	Total Number of containers	Special Instructions/Note:
				Preservation Code:		X	X		X	
-45	ATM-PCB-41-0003	9-26-23	1035	C	Water					
-46	ATM-PCB-42-0003		1040		Water					
-47	ATM-PCB-43-0003		1045		Water					
-48	FD-03-92623		830		Water					
-49	ATM-PCB-44-0003		1050		Water					
-50	ATM-PCB-45-0003		1055		Water					
-51	ATM-PCB-46-0003		1105		Water					
-52	ATM-PCB-47-0003		1110							
-53	ATM-PCB-48-0003		1115				X			MS/MSD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: equis EDD to dmcgrath@nobis-group.com

Empty Kit Relinquished by	Date	Time.	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9-26-23 12:33		[signature]	9/26/23 12:34	[illegible]
[signature]	9/26/23 14:30	[illegible]	[signature]	9/26/23 14:30	GNE

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.2 +0.2 3.4 #6 / 1.2 +0.2 1.4 #6

Ver: 06/08/2021

10/3/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-14138-1

Login Number: 14138
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 5/15/2023 3:35:58 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10579-2

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

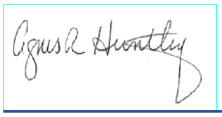
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10579-2

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/15/2023

Job ID: 620-10579-2

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10579-2

Receipt
The samples were received on 4/3/2023 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

LCMS
Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-08 (620-10579-4) is outside of the QC limits for the initial injection. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the sample injection standard in the re-extracted sample(s) was within the QC acceptance limits. The data is reported.

Method 537 (modified): The recovery for the labeled isotope(s) d9-N-EtFOSE-M, d3-NMePFOSA and d5-NEtPFOSA in the following sample: 2023-MW-02 (620-10579-2) are outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) were again outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope(s) d5-NEtPFOSA in the following sample: 2023-MW-08 (620-10579-4) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was again outside the QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-01 — Lab Sample ID: 620-10579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	0.244	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.199	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.220	J I	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.892	J I	1.99	0.497	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.991	J	1.99	0.298	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-02 — Lab Sample ID: 620-10579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.709	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.910	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.23	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.709	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.21	J I	1.93	0.482	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	3.22		1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.587	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.311	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RE	0.516	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.564	J H	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	0.517	J H	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	0.844	J I H	1.94	0.484	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.91	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.369	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-07 — Lab Sample ID: 620-10579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.367	J	1.86	0.278	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.36	J	1.86	0.928	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.419	J	1.86	0.278	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.520	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.249	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.44	J	1.86	0.464	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.15	J	1.86	0.278	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-08 — Lab Sample ID: 620-10579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.197	J	1.81	0.181	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.483	J	1.81	0.271	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	0.308	J H	2.00	0.300	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-09 — Lab Sample ID: 620-10579-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.905	J	1.78	0.266	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.411	J	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.191	J	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.484	J I	1.78	0.444	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.701	J	1.78	0.266	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-PFB-01 — Lab Sample ID: 620-10579-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-01
Date Collected: 03/31/23 12:15
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.99	0.796	ng/L		04/20/23 10:11	05/09/23 18:53	1
11Cl-PF3OUdS	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
4:2 Fluorotelomer sulfonic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
6:2 Fluorotelomer sulfonic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
8:2 Fluorotelomer sulfonic acid	ND		1.99	0.597	ng/L		04/20/23 10:11	05/09/23 18:53	1
9Cl-PF3ONS	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
DONA	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
HFPODA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSAA	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSAA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSA	ND		1.99	0.696	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorobutanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorobutanoic acid	ND		1.99	0.995	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorodecanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorodecanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorododecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroheptanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroheptanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexadecanoic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexanesulfonic acid	**0.244**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexanoic acid	**0.199**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorononanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorononanoic acid	**0.220**	**J I**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctadecanoic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanesulfonamide	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanesulfonic acid	**0.892**	**J I**	1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanoic acid	**0.991**	**J**	1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoropentanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoropentanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorotetradecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorotridecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroundecanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
M2-6:2 FTS	*137*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
M2-8:2 FTS	*153*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C2 PFTeDA	*106*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C3 HFPO-DA	*90*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C3 PFBS	*154*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C4 PFBA	*117*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C4 PFHpA	*104*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C8 PFOA	*106*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C8 PFOS	*110*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:53*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01
Lab Sample ID: 620-10579-1
Date Collected: 03/31/23 12:15
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	114		31 - 174	04/20/23 10:11	05/09/23 18:53	1
d5-NEtFOSAA	117		29 - 195	04/20/23 10:11	05/09/23 18:53	1
d7-N-MeFOSE-M	75		10 - 178	04/20/23 10:11	05/09/23 18:53	1
d9-N-EtFOSE-M	74		10 - 177	04/20/23 10:11	05/09/23 18:53	1
13C3 PFHxS	115		28 - 188	04/20/23 10:11	05/09/23 18:53	1
13C5 PFHxA	102		24 - 179	04/20/23 10:11	05/09/23 18:53	1
13C6 PFDA	112		49 - 163	04/20/23 10:11	05/09/23 18:53	1
13C7 PFUnA	116		34 - 174	04/20/23 10:11	05/09/23 18:53	1
d3-NMePFOSA	20		10 - 155	04/20/23 10:11	05/09/23 18:53	1
d5-NEtPFOSA	18		10 - 159	04/20/23 10:11	05/09/23 18:53	1
13C8 FOSA	101		10 - 168	04/20/23 10:11	05/09/23 18:53	1
13C2-PFDoDA	116		17 - 176	04/20/23 10:11	05/09/23 18:53	1
13C9 PFNA	116		51 - 167	04/20/23 10:11	05/09/23 18:53	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-02

Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.93	0.771	ng/L		04/20/23 10:11	05/05/23 00:54	1
11Cl-PF3OUdS	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
4:2 Fluorotelomer sulfonic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
6:2 Fluorotelomer sulfonic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
8:2 Fluorotelomer sulfonic acid	ND		1.93	0.578	ng/L		04/20/23 10:11	05/05/23 00:54	1
9Cl-PF3ONS	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
DONA	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
HFPODA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSAA	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSAA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSA	ND		1.93	0.674	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorobutanesulfonic acid	**0.709**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorobutanoic acid	ND		1.93	0.963	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorodecanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorodecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorododecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroheptanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroheptanoic acid	**0.910**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexadecanoic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexanesulfonic acid	**1.23**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexanoic acid	**0.709**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorononanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorononanoic acid	ND		1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctadecanoic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanesulfonamide	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanesulfonic acid	**1.21**	**J I**	1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanoic acid	**3.22**		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoropentanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoropentanoic acid	**0.587**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorotetradecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorotridecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroundecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*130*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
M2-6:2 FTS	*135*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
M2-8:2 FTS	*143*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C2 PFTeDA	*99*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C3 HFPO-DA	*113*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C3 PFBS	*138*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C4 PFBA	*116*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C4 PFHpA	*118*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C5 PFPeA	*121*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C8 PFOA	*117*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C8 PFOS	*118*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:54*	*1*

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	115		31 - 174	04/20/23 10:11	05/05/23 00:54	1
d5-NEtFOSAA	107		29 - 195	04/20/23 10:11	05/05/23 00:54	1
d7-N-MeFOSE-M	14		10 - 178	04/20/23 10:11	05/05/23 00:54	1
d9-N-EtFOSE-M	8	*5-	10 - 177	04/20/23 10:11	05/05/23 00:54	1
13C3 PFHxS	124		28 - 188	04/20/23 10:11	05/05/23 00:54	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/05/23 00:54	1
13C6 PFDA	112		49 - 163	04/20/23 10:11	05/05/23 00:54	1
13C7 PFUnA	110		34 - 174	04/20/23 10:11	05/05/23 00:54	1
d3-NMePFOSA	0.3	*5-	10 - 155	04/20/23 10:11	05/05/23 00:54	1
d5-NEtPFOSA	0.4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:54	1
13C8 FOSA	49		10 - 168	04/20/23 10:11	05/05/23 00:54	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/05/23 00:54	1
13C9 PFNA	112		51 - 167	04/20/23 10:11	05/05/23 00:54	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.94	0.774	ng/L		05/10/23 08:01	05/12/23 06:57	1
11Cl-PF3OUdS	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.581	ng/L		05/10/23 08:01	05/12/23 06:57	1
9Cl-PF3ONS	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
DONA	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
HFPODA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSAA	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSE	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSAA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSA	ND	H	1.94	0.678	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSE	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorobutanesulfonic acid	**0.311**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorobutanoic acid	ND	H	1.94	0.968	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorodecanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorodecanoic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorododecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroheptanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroheptanoic acid	**0.516**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexadecanoic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexanesulfonic acid	**0.564**	**J H**	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexanoic acid	**0.517**	**J H**	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorononanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorononanoic acid	ND	H	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctadecanoic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanesulfonamide	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanesulfonic acid	**0.844**	**J I H**	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanoic acid	**1.91**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoropentanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoropentanoic acid	**0.369**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-02
Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorotridecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroundecanoic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
M2-6:2 FTS	*135*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
M2-8:2 FTS	*133*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C2 PFTeDA	*6*	**5-*	*10 - 179*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 HFPO-DA	*106*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 PFBS	*135*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C4 PFBA	*110*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C4 PFHpA	*102*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C5 PFPeA	*123*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 PFOA	*101*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 PFOS	*100*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d3-NMeFOSAA	*86*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d5-NEtFOSAA	*74*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d7-N-MeFOSE-M	*0.4*	**5-*	*10 - 178*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d9-N-EtFOSE-M	*0.3*	**5-*	*10 - 177*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 PFHxS	*113*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C5 PFHxA	*101*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C6 PFDA	*94*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C7 PFUnA	*67*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d3-NMePFOSA	*0.07*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d5-NEtPFOSA	*0.08*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 FOSA	*9*	**5-*	*10 - 168*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C2-PFDoDA	*27*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C9 PFNA	*106*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:57*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-07
Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.86	0.742	ng/L		04/20/23 10:11	05/09/23 19:04	1
11Cl-PF3OUdS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
4:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
6:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
8:2 Fluorotelomer sulfonic acid	ND		1.86	0.557	ng/L		04/20/23 10:11	05/09/23 19:04	1
9Cl-PF3ONS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
DONA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
HFPODA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSAA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSAA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSA	ND		1.86	0.650	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorobutanesulfonic acid	**0.367**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorobutanoic acid	**1.36**	**J**	1.86	0.928	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorodecanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorodecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorododecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroheptanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroheptanoic acid	**0.419**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexanesulfonic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexanoic acid	**0.520**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorononanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorononanoic acid	**0.249**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanesulfonamide	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanesulfonic acid	**1.44**	**J**	1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanoic acid	**1.15**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoropentanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoropentanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorotetradecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorotridecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroundecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*125*		*10 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
M2-6:2 FTS	*143*		*17 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C2 PFTeDA	*93*		*10 - 179*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C3 HFPO-DA	*98*		*17 - 185*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C3 PFBS	*165*		*16 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C4 PFHpA	*114*		*31 - 182*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C5 PFPeA	*142*		*38 - 187*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C8 PFOA	*116*		*48 - 162*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C8 PFOS	*121*		*51 - 159*	*04/20/23 10:11*	*05/09/23 19:04*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07
Lab Sample ID: 620-10579-3
Date Collected: 03/31/23 10:55
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	121		31 - 174	04/20/23 10:11	05/09/23 19:04	1
d5-NEtFOSAA	123		29 - 195	04/20/23 10:11	05/09/23 19:04	1
d7-N-MeFOSE-M	95		10 - 178	04/20/23 10:11	05/09/23 19:04	1
d9-N-EtFOSE-M	90		10 - 177	04/20/23 10:11	05/09/23 19:04	1
13C3 PFHxS	127		28 - 188	04/20/23 10:11	05/09/23 19:04	1
13C5 PFHxA	106		24 - 179	04/20/23 10:11	05/09/23 19:04	1
13C6 PFDA	120		49 - 163	04/20/23 10:11	05/09/23 19:04	1
13C7 PFUnA	118		34 - 174	04/20/23 10:11	05/09/23 19:04	1
d3-NMePFOSA	41		10 - 155	04/20/23 10:11	05/09/23 19:04	1
d5-NEtPFOSA	34		10 - 159	04/20/23 10:11	05/09/23 19:04	1
13C8 FOSA	115		10 - 168	04/20/23 10:11	05/09/23 19:04	1
13C2-PFDoDA	113		17 - 176	04/20/23 10:11	05/09/23 19:04	1
13C9 PFNA	124		51 - 167	04/20/23 10:11	05/09/23 19:04	1

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.81	0.722	ng/L		04/20/23 10:11	05/05/23 01:16	1
11Cl-PF3OUdS	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
4:2 Fluorotelomer sulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
6:2 Fluorotelomer sulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
8:2 Fluorotelomer sulfonic acid	ND		1.81	0.542	ng/L		04/20/23 10:11	05/05/23 01:16	1
9Cl-PF3ONS	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
DONA	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
HFPODA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSAA	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSE	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSAA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSA	ND		1.81	0.632	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSE	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorobutanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorobutanoic acid	ND		1.81	0.903	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorodecanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorodecanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorododecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroheptanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroheptanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexadecanoic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexanesulfonic acid	ND		1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexanoic acid	**0.197**	**J**	1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorononanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorononanoic acid	ND		1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctadecanoic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanesulfonamide	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanesulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanoic acid	**0.483**	**J**	1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoropentanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoropentanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorotetradecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorotridecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroundecanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*141*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
M2-6:2 FTS	*155*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
M2-8:2 FTS	*153*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C2 PFTeDA	*110*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C3 HFPO-DA	*124*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C3 PFBS	*144*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C4 PFHpA	*131*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C5 PFPeA	*130*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C8 PFOA	*124*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C8 PFOS	*120*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:16*	*1*

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	116		31 - 174	04/20/23 10:11	05/05/23 01:16	1
d5-NEtFOSAA	114		29 - 195	04/20/23 10:11	05/05/23 01:16	1
d7-N-MeFOSE-M	67		10 - 178	04/20/23 10:11	05/05/23 01:16	1
d9-N-EtFOSE-M	59		10 - 177	04/20/23 10:11	05/05/23 01:16	1
13C3 PFHxS	130		28 - 188	04/20/23 10:11	05/05/23 01:16	1
13C5 PFHxA	123		24 - 179	04/20/23 10:11	05/05/23 01:16	1
13C6 PFDA	121		49 - 163	04/20/23 10:11	05/05/23 01:16	1
13C7 PFUnA	123		34 - 174	04/20/23 10:11	05/05/23 01:16	1
d3-NMePFOSA	12		10 - 155	04/20/23 10:11	05/05/23 01:16	1
d5-NEtPFOSA	9	*5-	10 - 159	04/20/23 10:11	05/05/23 01:16	1
13C8 FOSA	103		10 - 168	04/20/23 10:11	05/05/23 01:16	1
13C2-PFDoDA	118		17 - 176	04/20/23 10:11	05/05/23 01:16	1
13C9 PFNA	114		51 - 167	04/20/23 10:11	05/05/23 01:16	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	2.00	0.799	ng/L		05/10/23 08:01	05/12/23 07:08	1
11Cl-PF3OUdS	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
4:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
6:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
8:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.599	ng/L		05/10/23 08:01	05/12/23 07:08	1
9Cl-PF3ONS	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
DONA	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
HFPODA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSAA	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSE	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSAA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSA	ND	H	2.00	0.699	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSE	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorobutanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorobutanoic acid	ND	H	2.00	0.998	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorodecanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorodecanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorododecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroheptanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroheptanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexadecanoic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexanesulfonic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexanoic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorononanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorononanoic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctadecanoic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanesulfonamide	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanesulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanoic acid	**0.308**	**J H**	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoropentanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoropentanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-08
Date Collected: 03/31/23 11:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-4
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorotridecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroundecanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*155*		*10 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
M2-6:2 FTS	*171*		*17 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
M2-8:2 FTS	*184*		*33 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C2 PFTeDA	*52*		*10 - 179*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 HFPO-DA	*140*		*17 - 185*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 PFBS	*170*		*16 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C4 PFBA	*110*		*42 - 165*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C4 PFHpA	*127*		*31 - 182*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C5 PFPeA	*155*		*38 - 187*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 PFOA	*127*		*48 - 162*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 PFOS	*133*		*51 - 159*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d3-NMeFOSAA	*130*		*31 - 174*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d5-NEtFOSAA	*130*		*29 - 195*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d7-N-MeFOSE-M	*19*		*10 - 178*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d9-N-EtFOSE-M	*17*		*10 - 177*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 PFHxS	*142*		*28 - 188*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C5 PFHxA	*125*		*24 - 179*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C6 PFDA	*135*		*49 - 163*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C7 PFUnA	*128*		*34 - 174*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d3-NMePFOSA	*0.4*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d5-NEtPFOSA	*0.2*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 FOSA	*101*		*10 - 168*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C2-PFDoDA	*111*		*17 - 176*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C9 PFNA	*135*		*51 - 167*	*05/10/23 08:01*	*05/12/23 07:08*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-09
Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.78	0.710	ng/L		04/20/23 10:11	05/05/23 01:28	1
11Cl-PF3OUdS	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
4:2 Fluorotelomer sulfonic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
6:2 Fluorotelomer sulfonic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
8:2 Fluorotelomer sulfonic acid	ND		1.78	0.533	ng/L		04/20/23 10:11	05/05/23 01:28	1
9Cl-PF3ONS	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
DONA	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
HFPODA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSAA	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSE	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSAA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSA	ND		1.78	0.622	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSE	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorobutanesulfonic acid	**0.905**	**J**	1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorobutanoic acid	ND		1.78	0.888	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorodecanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorodecanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorododecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroheptanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroheptanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexadecanoic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexanesulfonic acid	**0.411**	**J**	1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexanoic acid	**0.191**	**J**	1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorononanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorononanoic acid	ND		1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctadecanoic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanesulfonamide	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanesulfonic acid	**0.484**	**J I**	1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanoic acid	**0.701**	**J**	1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoropentanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoropentanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorotetradecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorotridecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroundecanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*135*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
M2-6:2 FTS	*142*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
M2-8:2 FTS	*168*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C2 PFTeDA	*129*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C3 HFPO-DA	*95*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C3 PFBS	*153*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C4 PFBA	*126*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C4 PFHpA	*125*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C8 PFOA	*124*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C8 PFOS	*124*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:28*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09
Lab Sample ID: 620-10579-5
Date Collected: 03/31/23 09:20
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	120		31 - 174	04/20/23 10:11	05/05/23 01:28	1
d5-NEtFOSAA	122		29 - 195	04/20/23 10:11	05/05/23 01:28	1
d7-N-MeFOSE-M	94		10 - 178	04/20/23 10:11	05/05/23 01:28	1
d9-N-EtFOSE-M	93		10 - 177	04/20/23 10:11	05/05/23 01:28	1
13C3 PFHxS	131		28 - 188	04/20/23 10:11	05/05/23 01:28	1
13C5 PFHxA	116		24 - 179	04/20/23 10:11	05/05/23 01:28	1
13C6 PFDA	122		49 - 163	04/20/23 10:11	05/05/23 01:28	1
13C7 PFUnA	124		34 - 174	04/20/23 10:11	05/05/23 01:28	1
d3-NMePFOSA	37		10 - 155	04/20/23 10:11	05/05/23 01:28	1
d5-NEtPFOSA	34		10 - 159	04/20/23 10:11	05/05/23 01:28	1
13C8 FOSA	118		10 - 168	04/20/23 10:11	05/05/23 01:28	1
13C2-PFDoDA	125		17 - 176	04/20/23 10:11	05/05/23 01:28	1
13C9 PFNA	115		51 - 167	04/20/23 10:11	05/05/23 01:28	1

Client Sample ID: 2023-PFB-01 Lab Sample ID: 620-10579-6

Date Collected: 03/31/23 18:30 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.97	0.787	ng/L		04/20/23 10:11	05/05/23 01:39	1
11Cl-PF3OUdS	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
4:2 Fluorotelomer sulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
6:2 Fluorotelomer sulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
8:2 Fluorotelomer sulfonic acid	ND		1.97	0.591	ng/L		04/20/23 10:11	05/05/23 01:39	1
9Cl-PF3ONS	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
DONA	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
HFPODA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSAA	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSE	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSAA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSA	ND		1.97	0.689	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSE	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorobutanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorobutanoic acid	ND		1.97	0.984	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorodecanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorodecanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorododecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroheptanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroheptanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexadecanoic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexanesulfonic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexanoic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorononanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorononanoic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctadecanoic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanesulfonamide	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanesulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoropentanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoropentanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorotetradecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorotridecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroundecanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*136*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
M2-6:2 FTS	*149*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
M2-8:2 FTS	*152*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C2 PFTeDA	*129*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C3 HFPO-DA	*116*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C3 PFBS	*131*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C4 PFHpA	*127*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C5 PFPeA	*127*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C8 PFOA	*125*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C8 PFOS	*127*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:39*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-PFB-01
Lab Sample ID: 620-10579-6
Date Collected: 03/31/23 18:30
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	116		31 - 174	04/20/23 10:11	05/05/23 01:39	1
d5-NEtFOSAA	119		29 - 195	04/20/23 10:11	05/05/23 01:39	1
d7-N-MeFOSE-M	93		10 - 178	04/20/23 10:11	05/05/23 01:39	1
d9-N-EtFOSE-M	95		10 - 177	04/20/23 10:11	05/05/23 01:39	1
13C3 PFHxS	129		28 - 188	04/20/23 10:11	05/05/23 01:39	1
13C5 PFHxA	129		24 - 179	04/20/23 10:11	05/05/23 01:39	1
13C6 PFDA	118		49 - 163	04/20/23 10:11	05/05/23 01:39	1
13C7 PFUnA	121		34 - 174	04/20/23 10:11	05/05/23 01:39	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/05/23 01:39	1
d5-NEtPFOSA	56		10 - 159	04/20/23 10:11	05/05/23 01:39	1
13C8 FOSA	117		10 - 168	04/20/23 10:11	05/05/23 01:39	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/05/23 01:39	1
13C9 PFNA	124		51 - 167	04/20/23 10:11	05/05/23 01:39	1

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	PFTDA	HFPODA	C3PFBS	PFBA	C4PFHA
Lab Sample ID	Client Sample ID	(10-200)	(17-200)	(33-200)	(10-179)	(17-185)	(16-200)	(42-165)	(31-182)
620-10579-1	2023-MW-01	114	137	153	106	90	154	117	104
620-10579-2	2023-MW-02	130	135	143	99	113	138	116	118
620-10579-2 - RE	2023-MW-02	145	135	133	6 *5-	106	135	110	102
620-10579-3	2023-MW-07	125	143	165	93	98	165	124	114
620-10579-4	2023-MW-08	141	155	153	110	124	144	124	131
620-10579-4 - RE	2023-MW-08	155	171	184	52	140	170	110	127
620-10579-5	2023-MW-09	135	142	168	129	95	153	126	125
620-10579-6	2023-PFB-01	136	149	152	129	116	131	121	127
LCS 410-366531/2-A	Lab Control Sample	125	133	142	118	110	118	100	117
LCS 410-374042/3-A	Lab Control Sample	155	162	168	115	125	140	110	125
LCSD 410-374042/4-A	Lab Control Sample Dup	147	168	162	113	135	137	122	126
MB 410-366531/1-A	Method Blank	113	118	132	101	94	102	96	110
MB 410-374042/1-A	Method Blank	145	160	165	111	107	129	97	124

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA	C8PFOA	C8PFOS	d3NMFOS	d5NEFOS	NMFM	NEFM	C3PFHS
Lab Sample ID	Client Sample ID	(38-187)	(48-162)	(51-159)	(31-174)	(29-195)	(10-178)	(10-177)	(28-188)
620-10579-1	2023-MW-01	132	106	110	114	117	75	74	115
620-10579-2	2023-MW-02	121	117	118	115	107	14	8 *5-	124
620-10579-2 - RE	2023-MW-02	123	101	100	86	74	0.4 *5-	0.3 *5-	113
620-10579-3	2023-MW-07	142	116	121	121	123	95	90	127
620-10579-4	2023-MW-08	130	124	120	116	114	67	59	130
620-10579-4 - RE	2023-MW-08	155	127	133	130	130	19	17	142
620-10579-5	2023-MW-09	132	124	124	120	122	94	93	131
620-10579-6	2023-PFB-01	127	125	127	116	119	93	95	129
LCS 410-366531/2-A	Lab Control Sample	113	116	113	113	115	87	85	120
LCS 410-374042/3-A	Lab Control Sample	132	127	134	127	125	91	88	134
LCSD 410-374042/4-A	Lab Control Sample Dup	131	125	130	124	120	90	84	132
MB 410-366531/1-A	Method Blank	103	105	102	95	99	81	80	106
MB 410-374042/1-A	Method Blank	124	118	126	120	118	86	81	128

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C5PHA	C6PFDA	13C7PUA	d3NMFSA	d5NPFSA	PFOSA	PFDoDA	C9PFNA
Lab Sample ID	Client Sample ID	(24-179)	(49-163)	(34-174)	(10-155)	(10-159)	(10-168)	(17-176)	(51-167)
620-10579-1	2023-MW-01	102	112	116	20	18	101	116	116
620-10579-2	2023-MW-02	109	112	110	0.3 *5-	0.4 *5-	49	106	112
620-10579-2 - RE	2023-MW-02	101	94	67	0.07 *5-	0.08 *5-	9 *5-	27	106
620-10579-3	2023-MW-07	106	120	118	41	34	115	113	124
620-10579-4	2023-MW-08	123	121	123	12	9 *5-	103	118	114
620-10579-4 - RE	2023-MW-08	125	135	128	0.4 *5-	0.2 *5-	101	111	135
620-10579-5	2023-MW-09	116	122	124	37	34	118	125	115
620-10579-6	2023-PFB-01	129	118	121	56	56	117	120	124
LCS 410-366531/2-A	Lab Control Sample	118	114	117	54	49	116	117	108
LCS 410-374042/3-A	Lab Control Sample	137	122	128	77	72	127	116	133
LCSD 410-374042/4-A	Lab Control Sample Dup	129	128	125	70	65	122	119	130
MB 410-366531/1-A	Method Blank	109	100	102	56	52	99	106	98
MB 410-374042/1-A	Method Blank	124	124	124	69	64	120	114	127

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		04/20/23 10:11	05/04/23 21:46	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		04/20/23 10:11	05/04/23 21:46	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
DONA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
HFPODA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSAA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSAA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSA	ND		2.00	0.700	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-8:2 FTS	*132*		*33 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 PFBS	*102*		*16 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFBA	*96*		*42 - 165*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFHpA	*110*		*31 - 182*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C5 PFPeA	*103*		*38 - 187*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C8 PFOA	*105*		*48 - 162*	*04/20/23 10:11*	*05/04/23 21:46*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		51 - 159	04/20/23 10:11	05/04/23 21:46	1
d3-NMeFOSAA	95		31 - 174	04/20/23 10:11	05/04/23 21:46	1
d5-NEtFOSAA	99		29 - 195	04/20/23 10:11	05/04/23 21:46	1
d7-N-MeFOSE-M	81		10 - 178	04/20/23 10:11	05/04/23 21:46	1
d9-N-EtFOSE-M	80		10 - 177	04/20/23 10:11	05/04/23 21:46	1
13C3 PFHxS	106		28 - 188	04/20/23 10:11	05/04/23 21:46	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/04/23 21:46	1
13C6 PFDA	100		49 - 163	04/20/23 10:11	05/04/23 21:46	1
13C7 PFUnA	102		34 - 174	04/20/23 10:11	05/04/23 21:46	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/04/23 21:46	1
d5-NEtPFOSA	52		10 - 159	04/20/23 10:11	05/04/23 21:46	1
13C8 FOSA	99		10 - 168	04/20/23 10:11	05/04/23 21:46	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/04/23 21:46	1
13C9 PFNA	98		51 - 167	04/20/23 10:11	05/04/23 21:46	1

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	25.64		ng/L		104	50 - 146
11Cl-PF3OUdS	23.8	22.26		ng/L		94	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	23.85		ng/L		100	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	23.74		ng/L		98	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.72		ng/L		93	55 - 138
9Cl-PF3ONS	23.8	21.21		ng/L		89	59 - 135
DONA	24.2	23.71		ng/L		98	55 - 143
HFPODA	25.6	24.19		ng/L		94	50 - 135
NEtFOSAA	25.6	24.04		ng/L		94	55 - 134
NEtFOSA	25.6	27.04		ng/L		106	61 - 134
NEtFOSE	25.6	25.95		ng/L		101	60 - 136
NMeFOSAA	25.6	25.46		ng/L		99	59 - 140
NMeFOSA	25.6	27.19		ng/L		106	64 - 143
NMeFOSE	25.6	26.14		ng/L		102	55 - 144
Perfluorobutanesulfonic acid	22.7	21.97		ng/L		97	53 - 138
Perfluorobutanoic acid	25.6	25.47		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	24.7	23.63		ng/L		96	55 - 137
Perfluorodecanoic acid	25.6	25.78		ng/L		101	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.45		ng/L		95	48 - 138
Perfluorododecanoic acid	25.6	24.96		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	24.4	25.00		ng/L		103	56 - 140
Perfluoroheptanoic acid	25.6	25.36		ng/L		99	59 - 145
Perfluorohexadecanoic acid	25.6	21.75		ng/L		85	41 - 158
Perfluorohexanesulfonic acid	23.3	22.33		ng/L		96	58 - 134
Perfluorohexanoic acid	25.6	22.43		ng/L		88	58 - 139
Perfluorononanesulfonic acid	24.6	23.55		ng/L		96	59 - 136
Perfluorononanoic acid	25.6	25.14		ng/L		98	61 - 139
Perfluorooctadecanoic acid	25.6	20.85		ng/L		81	29 - 172

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	25.6	24.56		ng/L		96	43 - 167
Perfluorooctanesulfonic acid	23.7	21.94		ng/L		93	45 - 150
Perfluorooctanoic acid	25.6	24.80		ng/L		97	51 - 145
Perfluoropentanesulfonic acid	24.0	24.25		ng/L		101	55 - 140
Perfluoropentanoic acid	25.6	24.96		ng/L		97	57 - 141
Perfluorotetradecanoic acid	25.6	24.34		ng/L		95	62 - 139
Perfluorotridecanoic acid	25.6	25.74		ng/L		101	58 - 146
Perfluoroundecanoic acid	25.6	26.31		ng/L		103	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*125*		*10 - 200*
M2-6:2 FTS	*133*		*17 - 200*
M2-8:2 FTS	*142*		*33 - 200*
13C2 PFTeDA	*118*		*10 - 179*
13C3 HFPO-DA	*110*		*17 - 185*
13C3 PFBS	*118*		*16 - 200*
13C4 PFBA	*100*		*42 - 165*
13C4 PFHpA	*117*		*31 - 182*
13C5 PFPeA	*113*		*38 - 187*
13C8 PFOA	*116*		*48 - 162*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*113*		*31 - 174*
d5-NEtFOSAA	*115*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*85*		*10 - 177*
13C3 PFHxS	*120*		*28 - 188*
13C5 PFHxA	*118*		*24 - 179*
13C6 PFDA	*114*		*49 - 163*
13C7 PFUnA	*117*		*34 - 174*
d3-NMePFOSA	*54*		*10 - 155*
d5-NEtPFOSA	*49*		*10 - 159*
13C8 FOSA	*116*		*10 - 168*
13C2-PFDoDA	*117*		*17 - 176*
13C9 PFNA	*108*		*51 - 167*

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		05/10/23 08:01	05/12/23 05:51	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		05/10/23 08:01	05/12/23 05:51	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
DONA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
HFPODA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSAA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSAA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSA	ND		2.00	0.700	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-6:2 FTS	*160*		*17 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2 PFTeDA	*111*		*10 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 HFPO-DA	*107*		*17 - 185*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFBS	*129*		*16 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFBA	*97*		*42 - 165*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFHpA	*124*		*31 - 182*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFPeA	*124*		*38 - 187*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOA	*118*		*48 - 162*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOS	*126*		*51 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMeFOSAA	*120*		*31 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtFOSAA	*118*		*29 - 195*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d7-N-MeFOSE-M	*86*		*10 - 178*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d9-N-EtFOSE-M	*81*		*10 - 177*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFHxS	*128*		*28 - 188*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFHxA	*124*		*24 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C6 PFDA	*124*		*49 - 163*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C7 PFUnA	*124*		*34 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	69		10 - 155	05/10/23 08:01	05/12/23 05:51	1
d5-NEtPFOSA	64		10 - 159	05/10/23 08:01	05/12/23 05:51	1
13C8 FOSA	120		10 - 168	05/10/23 08:01	05/12/23 05:51	1
13C2-PFDoDA	114		17 - 176	05/10/23 08:01	05/12/23 05:51	1
13C9 PFNA	127		51 - 167	05/10/23 08:01	05/12/23 05:51	1

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	13.75		ng/L		56	50 - 146
11Cl-PF3OUdS	23.8	15.47		ng/L		65	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	16.51		ng/L		69	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	17.47		ng/L		72	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	15.33		ng/L		63	55 - 138
9Cl-PF3ONS	23.8	16.13		ng/L		68	59 - 135
DONA	24.2	17.83		ng/L		74	55 - 143
HFPODA	25.6	19.60		ng/L		77	50 - 135
NEtFOSAA	25.6	17.15		ng/L		67	55 - 134
NEtFOSA	25.6	19.74		ng/L		77	61 - 134
NEtFOSE	25.6	17.97		ng/L		70	60 - 136
NMeFOSAA	25.6	16.82		ng/L		66	59 - 140
NMeFOSA	25.6	19.43		ng/L		76	64 - 143
NMeFOSE	25.6	18.67		ng/L		73	55 - 144
Perfluorobutanesulfonic acid	22.7	15.70		ng/L		69	53 - 138
Perfluorobutanoic acid	25.6	17.75		ng/L		69	59 - 136
Perfluorodecanesulfonic acid	24.7	16.51		ng/L		67	55 - 137
Perfluorodecanoic acid	25.6	20.02		ng/L		78	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	15.27		ng/L		62	48 - 138
Perfluorododecanoic acid	25.6	18.89		ng/L		74	59 - 143
Perfluoroheptanesulfonic acid	24.4	16.66		ng/L		68	56 - 140
Perfluoroheptanoic acid	25.6	18.98		ng/L		74	59 - 145
Perfluorohexadecanoic acid	25.6	16.57		ng/L		65	41 - 158
Perfluorohexanesulfonic acid	23.3	15.83		ng/L		68	58 - 134
Perfluorohexanoic acid	25.6	16.32		ng/L		64	58 - 139
Perfluorononanesulfonic acid	24.6	15.85		ng/L		64	59 - 136
Perfluorononanoic acid	25.6	18.41		ng/L		72	61 - 139
Perfluorooctadecanoic acid	25.6	16.51		ng/L		65	29 - 172
Perfluorooctanesulfonamide	25.6	16.86		ng/L		66	43 - 167
Perfluorooctanesulfonic acid	23.7	16.19		ng/L		68	45 - 150
Perfluorooctanoic acid	25.6	20.10		ng/L		79	51 - 145
Perfluoropentanesulfonic acid	24.0	16.12		ng/L		67	55 - 140
Perfluoropentanoic acid	25.6	17.11		ng/L		67	57 - 141
Perfluorotetradecanoic acid	25.6	17.88		ng/L		70	62 - 139
Perfluorotridecanoic acid	25.6	18.58		ng/L		73	58 - 146
Perfluoroundecanoic acid	25.6	18.81		ng/L		73	60 - 141

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	155		10 - 200
M2-6:2 FTS	162		17 - 200
M2-8:2 FTS	168		33 - 200
13C2 PFTeDA	115		10 - 179
13C3 HFPO-DA	125		17 - 185
13C3 PFBS	140		16 - 200
13C4 PFBA	110		42 - 165
13C4 PFHpA	125		31 - 182
13C5 PFPeA	132		38 - 187
13C8 PFOA	127		48 - 162
13C8 PFOS	134		51 - 159
d3-NMeFOSAA	127		31 - 174
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	91		10 - 178
d9-N-EtFOSE-M	88		10 - 177
13C3 PFHxS	134		28 - 188
13C5 PFHxA	137		24 - 179
13C6 PFDA	122		49 - 163
13C7 PFUnA	128		34 - 174
d3-NMePFOSA	77		10 - 155
d5-NEtPFOSA	72		10 - 159
13C8 FOSA	127		10 - 168
13C2-PFDoDA	116		17 - 176
13C9 PFNA	133		51 - 167

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS			24.7	14.31		ng/L		58	50 - 146	4	30
11Cl-PF3OUdS			23.8	16.60		ng/L		70	53 - 139	7	30
4:2 Fluorotelomer sulfonic acid			23.9	17.25		ng/L		72	55 - 139	4	30
6:2 Fluorotelomer sulfonic acid			24.3	16.77		ng/L		69	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	16.32		ng/L		67	55 - 138	6	30
9Cl-PF3ONS			23.8	16.72		ng/L		70	59 - 135	4	30
DONA			24.2	17.69		ng/L		73	55 - 143	1	30
HFPODA			25.6	18.61		ng/L		73	50 - 135	5	30
NEtFOSAA			25.6	18.00		ng/L		70	55 - 134	5	30
NEtFOSA			25.6	20.65		ng/L		81	61 - 134	5	30
NEtFOSE			25.6	18.85		ng/L		74	60 - 136	5	30
NMeFOSAA			25.6	18.46		ng/L		72	59 - 140	9	30
NMeFOSA			25.6	18.92		ng/L		74	64 - 143	3	30
NMeFOSE			25.6	17.97		ng/L		70	55 - 144	4	30
Perfluorobutanesulfonic acid			22.7	16.38		ng/L		72	53 - 138	4	30
Perfluorobutanoic acid			25.6	17.78		ng/L		69	59 - 136	0	30
Perfluorodecanesulfonic acid			24.7	16.60		ng/L		67	55 - 137	1	30
Perfluorodecanoic acid			25.6	19.60		ng/L		77	56 - 138	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	15.85		ng/L		64	48 - 138	4	30
Perfluorododecanoic acid			25.6	19.20		ng/L		75	59 - 143	2	30
Perfluoroheptanesulfonic acid			24.4	17.09		ng/L		70	56 - 140	3	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid			25.6	18.70		ng/L		73	59 - 145	1	30
Perfluorohexadecanoic acid			25.6	17.37		ng/L		68	41 - 158	5	30
Perfluorohexanesulfonic acid			23.3	16.34		ng/L		70	58 - 134	3	30
Perfluorohexanoic acid			25.6	17.67		ng/L		69	58 - 139	8	30
Perfluorononanesulfonic acid			24.6	17.23		ng/L		70	59 - 136	8	30
Perfluorononanoic acid			25.6	18.69		ng/L		73	61 - 139	2	30
Perfluorooctadecanoic acid			25.6	17.90		ng/L		70	29 - 172	8	30
Perfluorooctanesulfonamide			25.6	17.99		ng/L		70	43 - 167	7	30
Perfluorooctanesulfonic acid			23.7	16.90		ng/L		71	45 - 150	4	30
Perfluorooctanoic acid			25.6	18.79		ng/L		73	51 - 145	7	30
Perfluoropentanesulfonic acid			24.0	17.33		ng/L		72	55 - 140	7	30
Perfluoropentanoic acid			25.6	17.91		ng/L		70	57 - 141	5	30
Perfluorotetradecanoic acid			25.6	18.16		ng/L		71	62 - 139	2	30
Perfluorotridecanoic acid			25.6	17.88		ng/L		70	58 - 146	4	30
Perfluoroundecanoic acid			25.6	19.38		ng/L		76	60 - 141	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*147*		*10 - 200*
M2-6:2 FTS	*168*		*17 - 200*
M2-8:2 FTS	*162*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*135*		*17 - 185*
13C3 PFBS	*137*		*16 - 200*
13C4 PFBA	*122*		*42 - 165*
13C4 PFHpA	*126*		*31 - 182*
13C5 PFPeA	*131*		*38 - 187*
13C8 PFOA	*125*		*48 - 162*
13C8 PFOS	*130*		*51 - 159*
d3-NMeFOSAA	*124*		*31 - 174*
d5-NEtFOSAA	*120*		*29 - 195*
d7-N-MeFOSE-M	*90*		*10 - 178*
d9-N-EtFOSE-M	*84*		*10 - 177*
13C3 PFHxS	*132*		*28 - 188*
13C5 PFHxA	*129*		*24 - 179*
13C6 PFDA	*128*		*49 - 163*
13C7 PFUnA	*125*		*34 - 174*
d3-NMePFOSA	*70*		*10 - 155*
d5-NEtPFOSA	*65*		*10 - 159*
13C8 FOSA	*122*		*10 - 168*
13C2-PFDoDA	*119*		*17 - 176*
13C9 PFNA	*130*		*51 - 167*

LCMS

Prep Batch: 366531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	SPE	
620-10579-2	2023-MW-02	Total/NA	Water	SPE	
620-10579-3	2023-MW-07	Total/NA	Water	SPE	
620-10579-4	2023-MW-08	Total/NA	Water	SPE	
620-10579-5	2023-MW-09	Total/NA	Water	SPE	
620-10579-6	2023-PFB-01	Total/NA	Water	SPE	
MB 410-366531/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	SPE	

Analysis Batch: 372358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2	2023-MW-02	Total/NA	Water	537 IDA	366531
620-10579-4	2023-MW-08	Total/NA	Water	537 IDA	366531
620-10579-5	2023-MW-09	Total/NA	Water	537 IDA	366531
620-10579-6	2023-PFB-01	Total/NA	Water	537 IDA	366531
MB 410-366531/1-A	Method Blank	Total/NA	Water	537 IDA	366531
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	537 IDA	366531

Analysis Batch: 373753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	537 IDA	366531
620-10579-3	2023-MW-07	Total/NA	Water	537 IDA	366531

Prep Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2 - RE	2023-MW-02	Total/NA	Water	SPE	
620-10579-4 - RE	2023-MW-08	Total/NA	Water	SPE	
MB 410-374042/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Analysis Batch: 374796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2 - RE	2023-MW-02	Total/NA	Water	537 IDA	374042
620-10579-4 - RE	2023-MW-08	Total/NA	Water	537 IDA	374042
MB 410-374042/1-A	Method Blank	Total/NA	Water	537 IDA	374042
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	537 IDA	374042
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	374042

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01 Lab Sample ID: 620-10579-1
Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 18:53

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2
Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:54
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:57

Client Sample ID: 2023-MW-07 Lab Sample ID: 620-10579-3
Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 19:04

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4
Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:16
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 07:08

Client Sample ID: 2023-MW-09 Lab Sample ID: 620-10579-5
Date Collected: 03/31/23 09:20 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:28

Client Sample ID: 2023-PFB-01 Lab Sample ID: 620-10579-6
Date Collected: 03/31/23 18:30 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:39

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
SPE	PFAS by SPE	Lab SOP	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10579-1	2023-MW-01	Water	03/31/23 12:15	04/03/23 13:14
620-10579-2	2023-MW-02	Water	03/31/23 16:00	04/03/23 13:14
620-10579-3	2023-MW-07	Water	03/31/23 10:55	04/03/23 13:14
620-10579-4	2023-MW-08	Water	03/31/23 11:00	04/03/23 13:14
620-10579-5	2023-MW-09	Water	03/31/23 09:20	04/03/23 13:14
620-10579-6	2023-PFB-01	Water	03/31/23 18:30	04/03/23 13:14

10579

Chain of Custody Record

eurofins | Environment Testing

620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water			✓					✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/15/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-2

Login Number: 10579
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-2

Login Number: 10579
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 5/15/2023 3:18:29 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10573-2

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

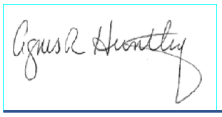
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10573-2

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/15/2023

Job ID: 620-10573-2

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10573-2

Comments
No additional comments.

Receipt
The samples were received on 3/31/2023 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

LCMS
Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-03 (620-10573-1) is outside of the QC limits for the initial injection and within QC limits for the re-injection. However, the recovery for the labeled isotope(s) in the re-injection sample is outside the QC acceptance limits. The values here are from the initial injection of the sample.

Method 537 (modified): The recovery for the labeled isotope(s) d3-NMePFOSA and d5-NEtPFOSA in the following sample: 2023-MW-05 (620-10573-4) and 2023-FD-01 (620-10573-5) are outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) were again outside the QC acceptance limits.

Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-05 (620-10573-4) is outside of the QC limits for the initial injection. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the sample injection standard in the re-extracted sample(s) was within the QC acceptance limits. The data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.467	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.79	J	1.91	0.957	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.852	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.374	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	1.09	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.222	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.41	J	1.91	0.479	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.60	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.834	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RA	0.294	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RA	1.83	J	1.91	0.957	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RA	0.768	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RA	1.20	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid - RA	0.193	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RA	1.29	J	1.91	0.479	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RA	1.47	J	1.91	0.287	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RA	0.829	J	1.91	0.287	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.318	J	1.99	0.299	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.19	J	1.99	0.996	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	1.45	J	1.99	0.299	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.635	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.610	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.565	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	16.8		1.99	0.498	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	10.5		1.99	0.299	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid	1.04	J	1.86	0.928	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.231	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.666	J I	1.86	0.464	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.24	J	1.86	0.278	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.480	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	2.03		1.93	0.963	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.731	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.326	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.530	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.286	J I	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.743	J	1.93	0.481	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.89	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.646	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.439	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RE	1.76	J H	1.87	0.935	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-05 (Continued)

Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid - RE	0.542	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.202	J H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	0.553	J H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid - RE	0.198	J I H	1.87	0.187	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonamide - RE	0.644	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	0.834	J H	1.87	0.467	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.64	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.542	J H	1.87	0.280	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-FD-01

Lab Sample ID: 620-10573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.501	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.86	J	1.91	0.953	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.946	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.242	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	1.19	J	1.91	0.191	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.42	J	1.91	0.477	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.76	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.852	J	1.91	0.286	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.625	J I H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid - RE	1.68	J H	1.98	0.988	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RE	0.803	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.247	J H	1.98	0.198	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	1.08	J H	1.98	0.198	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	1.23	J H	1.98	0.494	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.47	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.733	J H	1.98	0.296	ng/L	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.766	ng/L		04/20/23 10:11	05/04/23 23:15	1
11Cl-PF3OUdS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.574	ng/L		04/20/23 10:11	05/04/23 23:15	1
9Cl-PF3ONS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
DONA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
HFPODA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSAA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NEtFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSAA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSA	ND		1.91	0.670	ng/L		04/20/23 10:11	05/04/23 23:15	1
NMeFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorobutanesulfonic acid	**0.467**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorobutanoic acid	**1.79**	**J**	1.91	0.957	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorodecanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorodecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorododecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroheptanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroheptanoic acid	**0.852**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexanesulfonic acid	**0.374**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorohexanoic acid	**1.09**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorononanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorononanoic acid	**0.222**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanesulfonamide	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanesulfonic acid	**1.41**	**J**	1.91	0.479	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorooctanoic acid	**1.60**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoropentanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoropentanoic acid	**0.834**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorotetradecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluorotridecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/04/23 23:15	1
Perfluoroundecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/04/23 23:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*140*		*10 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
M2-6:2 FTS	*142*		*17 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
M2-8:2 FTS	*154*		*33 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C2 PFTeDA	*77*		*10 - 179*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C3 HFPO-DA	*85*		*17 - 185*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C3 PFBS	*143*		*16 - 200*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C4 PFBA	*122*		*42 - 165*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C4 PFHpA	*123*		*31 - 182*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C5 PFPeA	*127*		*38 - 187*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C8 PFOA	*118*		*48 - 162*	*04/20/23 10:11*	*05/04/23 23:15*	*1*
13C8 PFOS	*117*		*51 - 159*	*04/20/23 10:11*	*05/04/23 23:15*	*1*

Client Sample ID: 2023-MW-03 **Lab Sample ID: 620-10573-1**
Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	112		31 - 174	04/20/23 10:11	05/04/23 23:15	1
d5-NEtFOSAA	110		29 - 195	04/20/23 10:11	05/04/23 23:15	1
d7-N-MeFOSE-M	59		10 - 178	04/20/23 10:11	05/04/23 23:15	1
d9-N-EtFOSE-M	52		10 - 177	04/20/23 10:11	05/04/23 23:15	1
13C3 PFHxS	122		28 - 188	04/20/23 10:11	05/04/23 23:15	1
13C5 PFHxA	114		24 - 179	04/20/23 10:11	05/04/23 23:15	1
13C6 PFDA	118		49 - 163	04/20/23 10:11	05/04/23 23:15	1
13C7 PFUnA	114		34 - 174	04/20/23 10:11	05/04/23 23:15	1
d3-NMePFOSA	12		10 - 155	04/20/23 10:11	05/04/23 23:15	1
d5-NEtPFOSA	10		10 - 159	04/20/23 10:11	05/04/23 23:15	1
13C8 FOSA	98		10 - 168	04/20/23 10:11	05/04/23 23:15	1
13C2-PFDoDA	95		17 - 176	04/20/23 10:11	05/04/23 23:15	1
13C9 PFNA	113		51 - 167	04/20/23 10:11	05/04/23 23:15	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.766	ng/L		04/20/23 10:11	05/09/23 18:08	1
11Cl-PF3OUdS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.574	ng/L		04/20/23 10:11	05/09/23 18:08	1
9Cl-PF3ONS	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
DONA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
HFPODA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSAA	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NEtFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSAA	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSA	ND		1.91	0.670	ng/L		04/20/23 10:11	05/09/23 18:08	1
NMeFOSE	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorobutanesulfonic acid	**0.294**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorobutanoic acid	**1.83**	**J**	1.91	0.957	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorodecanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorodecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorododecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroheptanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroheptanoic acid	**0.768**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexanesulfonic acid	ND		1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorohexanoic acid	**1.20**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorononanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorononanoic acid	**0.193**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctadecanoic acid	ND		1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanesulfonamide	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanesulfonic acid	**1.29**	**J**	1.91	0.479	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorooctanoic acid	**1.47**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoropentanesulfonic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoropentanoic acid	**0.829**	**J**	1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluorotridecanoic acid	ND		1.91	0.383	ng/L		04/20/23 10:11	05/09/23 18:08	1
Perfluoroundecanoic acid	ND		1.91	0.287	ng/L		04/20/23 10:11	05/09/23 18:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*129*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
M2-6:2 FTS	*149*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
M2-8:2 FTS	*157*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C2 PFTeDA	*73*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 HFPO-DA	*118*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 PFBS	*151*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C4 PFHpA	*108*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C5 PFPeA	*133*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 PFOA	*108*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 PFOS	*115*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d3-NMeFOSAA	*113*		*31 - 174*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d5-NEtFOSAA	*114*		*29 - 195*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d7-N-MeFOSE-M	*56*		*10 - 178*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d9-N-EtFOSE-M	*52*		*10 - 177*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C3 PFHxS	*119*		*28 - 188*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C5 PFHxA	*104*		*24 - 179*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C6 PFDA	*116*		*49 - 163*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C7 PFUnA	*116*		*34 - 174*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d3-NMePFOSA	*10*		*10 - 155*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
d5-NEtPFOSA	*8*	*5-	*10 - 159*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C8 FOSA	*100*		*10 - 168*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C2-PFDoDA	*95*		*17 - 176*	*04/20/23 10:11*	*05/09/23 18:08*	*1*
13C9 PFNA	*115*		*51 - 167*	*04/20/23 10:11*	*05/09/23 18:08*	*1*

Client Sample ID: 2023-MW-04 **Lab Sample ID: 620-10573-2**
Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.99	0.796	ng/L		04/20/23 10:11	05/09/23 18:20	1
11Cl-PF3OUdS	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
4:2 Fluorotelomer sulfonic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
6:2 Fluorotelomer sulfonic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
8:2 Fluorotelomer sulfonic acid	ND		1.99	0.597	ng/L		04/20/23 10:11	05/09/23 18:20	1
9Cl-PF3ONS	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
DONA	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
HFPODA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSAA	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NEtFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSAA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSA	ND		1.99	0.697	ng/L		04/20/23 10:11	05/09/23 18:20	1
NMeFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorobutanesulfonic acid	**0.318**	**J**	1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorobutanoic acid	**1.19**	**J**	1.99	0.996	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorodecanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorodecanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorododecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroheptanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroheptanoic acid	**1.45**	**J**	1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexadecanoic acid	ND		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexanesulfonic acid	**0.635**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorohexanoic acid	**0.610**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorononanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorononanoic acid	**0.565**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctadecanoic acid	ND	F1	1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanesulfonamide	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanesulfonic acid	**16.8**		1.99	0.498	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorooctanoic acid	**10.5**		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoropentanesulfonic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoropentanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorotetradecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluorotridecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:20	1
Perfluoroundecanoic acid	ND		1.99	0.299	ng/L		04/20/23 10:11	05/09/23 18:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*122*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
M2-6:2 FTS	*144*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C2 PFTeDA	*75*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C3 HFPO-DA	*119*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C3 PFBS	*157*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C4 PFHpA	*106*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C5 PFPeA	*133*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C8 PFOA	*107*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:20*	*1*
13C8 PFOS	*116*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:20*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04
Lab Sample ID: 620-10573-2
Date Collected: 03/30/23 14:20
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	119		31 - 174	04/20/23 10:11	05/09/23 18:20	1
d5-NEtFOSAA	130		29 - 195	04/20/23 10:11	05/09/23 18:20	1
d7-N-MeFOSE-M	75		10 - 178	04/20/23 10:11	05/09/23 18:20	1
d9-N-EtFOSE-M	66		10 - 177	04/20/23 10:11	05/09/23 18:20	1
13C3 PFHxS	122		28 - 188	04/20/23 10:11	05/09/23 18:20	1
13C5 PFHxA	98		24 - 179	04/20/23 10:11	05/09/23 18:20	1
13C6 PFDA	121		49 - 163	04/20/23 10:11	05/09/23 18:20	1
13C7 PFUnA	124		34 - 174	04/20/23 10:11	05/09/23 18:20	1
d3-NMePFOSA	15		10 - 155	04/20/23 10:11	05/09/23 18:20	1
d5-NEtPFOSA	12		10 - 159	04/20/23 10:11	05/09/23 18:20	1
13C8 FOSA	104		10 - 168	04/20/23 10:11	05/09/23 18:20	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/09/23 18:20	1
13C9 PFNA	119		51 - 167	04/20/23 10:11	05/09/23 18:20	1

Client Sample ID: 2023-MW-06 **Lab Sample ID: 620-10573-3**
Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.86	0.743	ng/L		04/20/23 10:11	05/05/23 00:10	1
11Cl-PF3OUdS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
4:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
6:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
8:2 Fluorotelomer sulfonic acid	ND		1.86	0.557	ng/L		04/20/23 10:11	05/05/23 00:10	1
9Cl-PF3ONS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
DONA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
HFPODA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSAA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NEtFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSAA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSA	ND		1.86	0.650	ng/L		04/20/23 10:11	05/05/23 00:10	1
NMeFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorobutanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorobutanoic acid	**1.04**	**J**	1.86	0.928	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorodecanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorodecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorododecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroheptanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroheptanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexanesulfonic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorohexanoic acid	**0.231**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorononanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorononanoic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanesulfonamide	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanesulfonic acid	**0.666**	**J I**	1.86	0.464	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorooctanoic acid	**1.24**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoropentanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoropentanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorotetradecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluorotridecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/05/23 00:10	1
Perfluoroundecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/05/23 00:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*126*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
M2-6:2 FTS	*138*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
M2-8:2 FTS	*159*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C2 PFTeDA	*121*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C3 HFPO-DA	*102*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C3 PFBS	*135*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C4 PFBA	*67*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C4 PFHpA	*119*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C5 PFPeA	*125*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C8 PFOA	*116*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:10*	*1*
13C8 PFOS	*119*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:10*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06
Lab Sample ID: 620-10573-3
Date Collected: 03/30/23 12:10
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	114		31 - 174	04/20/23 10:11	05/05/23 00:10	1
d5-NEtFOSAA	118		29 - 195	04/20/23 10:11	05/05/23 00:10	1
d7-N-MeFOSE-M	87		10 - 178	04/20/23 10:11	05/05/23 00:10	1
d9-N-EtFOSE-M	79		10 - 177	04/20/23 10:11	05/05/23 00:10	1
13C3 PFHxS	123		28 - 188	04/20/23 10:11	05/05/23 00:10	1
13C5 PFHxA	116		24 - 179	04/20/23 10:11	05/05/23 00:10	1
13C6 PFDA	116		49 - 163	04/20/23 10:11	05/05/23 00:10	1
13C7 PFUnA	121		34 - 174	04/20/23 10:11	05/05/23 00:10	1
d3-NMePFOSA	37		10 - 155	04/20/23 10:11	05/05/23 00:10	1
d5-NEtPFOSA	32		10 - 159	04/20/23 10:11	05/05/23 00:10	1
13C8 FOSA	110		10 - 168	04/20/23 10:11	05/05/23 00:10	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/05/23 00:10	1
13C9 PFNA	115		51 - 167	04/20/23 10:11	05/05/23 00:10	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.93	0.770	ng/L		04/20/23 10:11	05/05/23 00:21	1
11Cl-PF3OUdS	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
4:2 Fluorotelomer sulfonic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
6:2 Fluorotelomer sulfonic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
8:2 Fluorotelomer sulfonic acid	ND		1.93	0.578	ng/L		04/20/23 10:11	05/05/23 00:21	1
9Cl-PF3ONS	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
DONA	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
HFPODA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSAA	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NEtFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSAA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSA	ND		1.93	0.674	ng/L		04/20/23 10:11	05/05/23 00:21	1
NMeFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorobutanesulfonic acid	**0.480**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorobutanoic acid	**2.03**		1.93	0.963	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorodecanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorodecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorododecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroheptanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroheptanoic acid	**0.731**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexadecanoic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexanesulfonic acid	**0.326**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorohexanoic acid	**0.530**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorononanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorononanoic acid	**0.286**	**J I**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctadecanoic acid	ND		1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanesulfonamide	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanesulfonic acid	**0.743**	**J**	1.93	0.481	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorooctanoic acid	**1.89**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoropentanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoropentanoic acid	**0.646**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorotetradecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluorotridecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:21	1
Perfluoroundecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*123*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
M2-6:2 FTS	*159*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
M2-8:2 FTS	*154*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C2 PFTeDA	*54*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C3 PFBS	*159*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C4 PFBA	*115*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C4 PFHpA	*107*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C8 PFOA	*111*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:21*	*1*
13C8 PFOS	*110*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:21*	*1*

Client Sample ID: 2023-MW-05 Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	94		31 - 174	04/20/23 10:11	05/05/23 00:21	1
d5-NEtFOSAA	93		29 - 195	04/20/23 10:11	05/05/23 00:21	1
d7-N-MeFOSE-M	32		10 - 178	04/20/23 10:11	05/05/23 00:21	1
d9-N-EtFOSE-M	29		10 - 177	04/20/23 10:11	05/05/23 00:21	1
13C3 PFHxS	124		28 - 188	04/20/23 10:11	05/05/23 00:21	1
13C5 PFHxA	98		24 - 179	04/20/23 10:11	05/05/23 00:21	1
13C6 PFDA	106		49 - 163	04/20/23 10:11	05/05/23 00:21	1
13C7 PFUnA	107		34 - 174	04/20/23 10:11	05/05/23 00:21	1
d3-NMePFOSA	5	*5-	10 - 155	04/20/23 10:11	05/05/23 00:21	1
d5-NEtPFOSA	4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:21	1
13C8 FOSA	74		10 - 168	04/20/23 10:11	05/05/23 00:21	1
13C2-PFDoDA	90		17 - 176	04/20/23 10:11	05/05/23 00:21	1
13C9 PFNA	105		51 - 167	04/20/23 10:11	05/05/23 00:21	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.87	0.748	ng/L		05/10/23 08:01	05/12/23 06:35	1
11Cl-PF3OUdS	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.87	0.561	ng/L		05/10/23 08:01	05/12/23 06:35	1
9Cl-PF3ONS	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
DONA	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
HFPODA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSAA	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NEtFOSE	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSAA	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSA	ND	H	1.87	0.654	ng/L		05/10/23 08:01	05/12/23 06:35	1
NMeFOSE	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorobutanesulfonic acid	**0.439**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorobutanoic acid	**1.76**	**J H**	1.87	0.935	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorodecanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorodecanoic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorododecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroheptanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroheptanoic acid	**0.542**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexadecanoic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexanesulfonic acid	**0.202**	**J H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorohexanoic acid	**0.553**	**J H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorononanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorononanoic acid	**0.198**	**J I H**	1.87	0.187	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctadecanoic acid	ND	H	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanesulfonamide	**0.644**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanesulfonic acid	**0.834**	**J H**	1.87	0.467	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorooctanoic acid	**1.64**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoropentanesulfonic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoropentanoic acid	**0.542**	**J H**	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-05
Lab Sample ID: 620-10573-4
Date Collected: 03/30/23 15:05
Matrix: Water
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluorotridecanoic acid	ND	H	1.87	0.374	ng/L		05/10/23 08:01	05/12/23 06:35	1
Perfluoroundecanoic acid	ND	H	1.87	0.280	ng/L		05/10/23 08:01	05/12/23 06:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*131*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
M2-6:2 FTS	*168*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
M2-8:2 FTS	*174*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C2 PFTeDA	*72*		*10 - 179*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 HFPO-DA	*99*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 PFBS	*197*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C4 PFBA	*129*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C4 PFHpA	*107*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C5 PFPeA	*167*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 PFOA	*109*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 PFOS	*115*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d3-NMeFOSAA	*105*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d5-NEtFOSAA	*102*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d7-N-MeFOSE-M	*12*		*10 - 178*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d9-N-EtFOSE-M	*13*		*10 - 177*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C3 PFHxS	*126*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C5 PFHxA	*99*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C6 PFDA	*117*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C7 PFUnA	*119*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d3-NMePFOSA	*0.2*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
d5-NEtPFOSA	*0.2*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C8 FOSA	*36*		*10 - 168*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C2-PFDoDA	*102*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:35*	*1*
13C9 PFNA	*120*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:35*	*1*

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10573-5**
Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.91	0.762	ng/L		04/20/23 10:11	05/05/23 00:32	1
11Cl-PF3OUdS	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
4:2 Fluorotelomer sulfonic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
6:2 Fluorotelomer sulfonic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
8:2 Fluorotelomer sulfonic acid	ND		1.91	0.572	ng/L		04/20/23 10:11	05/05/23 00:32	1
9Cl-PF3ONS	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
DONA	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
HFPODA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSAA	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NEtFOSE	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSAA	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSA	ND		1.91	0.667	ng/L		04/20/23 10:11	05/05/23 00:32	1
NMeFOSE	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorobutanesulfonic acid	**0.501**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorobutanoic acid	**1.86**	**J**	1.91	0.953	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorodecanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorodecanoic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorododecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroheptanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroheptanoic acid	**0.946**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexadecanoic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexanesulfonic acid	**0.242**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorohexanoic acid	**1.19**	**J**	1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorononanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorononanoic acid	ND		1.91	0.191	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctadecanoic acid	ND		1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanesulfonamide	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanesulfonic acid	**1.42**	**J**	1.91	0.477	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorooctanoic acid	**1.76**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoropentanesulfonic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoropentanoic acid	**0.852**	**J**	1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorotetradecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluorotridecanoic acid	ND		1.91	0.381	ng/L		04/20/23 10:11	05/05/23 00:32	1
Perfluoroundecanoic acid	ND		1.91	0.286	ng/L		04/20/23 10:11	05/05/23 00:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*135*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
M2-6:2 FTS	*146*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
M2-8:2 FTS	*145*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C2 PFTeDA	*97*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C3 HFPO-DA	*99*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C3 PFBS	*154*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C4 PFHpA	*112*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C5 PFPeA	*128*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C8 PFOA	*111*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:32*	*1*
13C8 PFOS	*116*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:32*	*1*

Client Sample ID: 2023-FD-01 **Lab Sample ID: 620-10573-5**
Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	112		31 - 174	04/20/23 10:11	05/05/23 00:32	1
d5-NEtFOSAA	109		29 - 195	04/20/23 10:11	05/05/23 00:32	1
d7-N-MeFOSE-M	13		10 - 178	04/20/23 10:11	05/05/23 00:32	1
d9-N-EtFOSE-M	10		10 - 177	04/20/23 10:11	05/05/23 00:32	1
13C3 PFHxS	127		28 - 188	04/20/23 10:11	05/05/23 00:32	1
13C5 PFHxA	104		24 - 179	04/20/23 10:11	05/05/23 00:32	1
13C6 PFDA	113		49 - 163	04/20/23 10:11	05/05/23 00:32	1
13C7 PFUnA	111		34 - 174	04/20/23 10:11	05/05/23 00:32	1
d3-NMePFOSA	0.2	*5-	10 - 155	04/20/23 10:11	05/05/23 00:32	1
d5-NEtPFOSA	0.4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:32	1
13C8 FOSA	56		10 - 168	04/20/23 10:11	05/05/23 00:32	1
13C2-PFDoDA	100		17 - 176	04/20/23 10:11	05/05/23 00:32	1
13C9 PFNA	113		51 - 167	04/20/23 10:11	05/05/23 00:32	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.98	0.790	ng/L		05/10/23 08:01	05/12/23 06:46	1
11Cl-PF3OUdS	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.98	0.593	ng/L		05/10/23 08:01	05/12/23 06:46	1
9Cl-PF3ONS	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
DONA	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
HFPODA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSAA	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NEtFOSE	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSAA	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSA	ND	H	1.98	0.691	ng/L		05/10/23 08:01	05/12/23 06:46	1
NMeFOSE	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorobutanesulfonic acid	**0.625**	**J I H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorobutanoic acid	**1.68**	**J H**	1.98	0.988	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorodecanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorodecanoic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorododecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroheptanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroheptanoic acid	**0.803**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexadecanoic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexanesulfonic acid	**0.247**	**J H**	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorohexanoic acid	**1.08**	**J H**	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorononanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorononanoic acid	ND	H	1.98	0.198	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctadecanoic acid	ND	H	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanesulfonamide	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanesulfonic acid	**1.23**	**J H**	1.98	0.494	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorooctanoic acid	**1.47**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoropentanesulfonic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoropentanoic acid	**0.733**	**J H**	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluorotridecanoic acid	ND	H	1.98	0.395	ng/L		05/10/23 08:01	05/12/23 06:46	1
Perfluoroundecanoic acid	ND	H	1.98	0.296	ng/L		05/10/23 08:01	05/12/23 06:46	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*170*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
M2-6:2 FTS	*175*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
M2-8:2 FTS	*195*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C2 PFTeDA	*98*		*10 - 179*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 HFPO-DA	*152*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 PFBS	*184*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C4 PFBA	*140*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C4 PFHpA	*125*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C5 PFPeA	*157*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 PFOA	*128*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 PFOS	*138*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d3-NMeFOSAA	*128*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d5-NEtFOSAA	*133*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d7-N-MeFOSE-M	*38*		*10 - 178*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d9-N-EtFOSE-M	*35*		*10 - 177*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C3 PFHxS	*144*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C5 PFHxA	*123*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C6 PFDA	*140*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C7 PFUnA	*135*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d3-NMePFOSA	*0.4*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
d5-NEtPFOSA	*0.4*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C8 FOSA	*96*		*10 - 168*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C2-PFDoDA	*125*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:46*	*1*
13C9 PFNA	*139*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:46*	*1*

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	PFTDA	HFPODA	C3PFBS	PFBA	C4PFHA
Lab Sample ID	Client Sample ID	(10-200)	(17-200)	(33-200)	(10-179)	(17-185)	(16-200)	(42-165)	(31-182)
620-10573-1	2023-MW-03	140	142	154	77	85	143	122	123
620-10573-1 - RA	2023-MW-03	129	149	157	73	118	151	121	108
620-10573-2	2023-MW-04	122	144	165	75	119	157	124	106
620-10573-2 MS	2023-MW-04	118	143	159	113	91	155	121	100
620-10573-2 MSD	2023-MW-04	126	137	163	122	91	155	124	112
620-10573-3	2023-MW-06	126	138	159	121	102	135	67	119
620-10573-4	2023-MW-05	123	159	154	54	94	159	115	107
620-10573-4 - RE	2023-MW-05	131	168	174	72	99	197	129	107
620-10573-5	2023-FD-01	135	146	145	97	99	154	121	112
620-10573-5 - RE	2023-FD-01	170	175	195	98	152	184	140	125
LCS 410-366531/2-A	Lab Control Sample	125	133	142	118	110	118	100	117
LCS 410-374042/3-A	Lab Control Sample	155	162	168	115	125	140	110	125
LCSD 410-374042/4-A	Lab Control Sample Dup	147	168	162	113	135	137	122	126
MB 410-366531/1-A	Method Blank	113	118	132	101	94	102	96	110
MB 410-374042/1-A	Method Blank	145	160	165	111	107	129	97	124

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA	C8PFOA	C8PFOS	d3NMFOS	d5NEFOS	NMFM	NEFM	C3PFHS
Lab Sample ID	Client Sample ID	(38-187)	(48-162)	(51-159)	(31-174)	(29-195)	(10-178)	(10-177)	(28-188)
620-10573-1	2023-MW-03	127	118	117	112	110	59	52	122
620-10573-1 - RA	2023-MW-03	133	108	115	113	114	56	52	119
620-10573-2	2023-MW-04	133	107	116	119	130	75	66	122
620-10573-2 MS	2023-MW-04	128	101	115	116	124	87	82	117
620-10573-2 MSD	2023-MW-04	126	113	120	119	125	87	78	126
620-10573-3	2023-MW-06	125	116	119	114	118	87	79	123
620-10573-4	2023-MW-05	132	111	110	94	93	32	29	124
620-10573-4 - RE	2023-MW-05	167	109	115	105	102	12	13	126
620-10573-5	2023-FD-01	128	111	116	112	109	13	10	127
620-10573-5 - RE	2023-FD-01	157	128	138	128	133	38	35	144
LCS 410-366531/2-A	Lab Control Sample	113	116	113	113	115	87	85	120
LCS 410-374042/3-A	Lab Control Sample	132	127	134	127	125	91	88	134
LCSD 410-374042/4-A	Lab Control Sample Dup	131	125	130	124	120	90	84	132
MB 410-366531/1-A	Method Blank	103	105	102	95	99	81	80	106
MB 410-374042/1-A	Method Blank	124	118	126	120	118	86	81	128

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C5PHA	C6PFDA	13C7PUA	d3NMFSA	d5NPFSA	PFOSA	PFDoDA	C9PFNA
Lab Sample ID	Client Sample ID	(24-179)	(49-163)	(34-174)	(10-155)	(10-159)	(10-168)	(17-176)	(51-167)
620-10573-1	2023-MW-03	114	118	114	12	10	98	95	113
620-10573-1 - RA	2023-MW-03	104	116	116	10	8 *5-	100	95	115
620-10573-2	2023-MW-04	98	121	124	15	12	104	120	119
620-10573-2 MS	2023-MW-04	97	116	120	25	20	110	118	117
620-10573-2 MSD	2023-MW-04	106	119	124	24	19	115	124	119
620-10573-3	2023-MW-06	116	116	121	37	32	110	120	115
620-10573-4	2023-MW-05	98	106	107	5 *5-	4 *5-	74	90	105
620-10573-4 - RE	2023-MW-05	99	117	119	0.2 *5-	0.2 *5-	36	102	120
620-10573-5	2023-FD-01	104	113	111	0.2 *5-	0.4 *5-	56	100	113
620-10573-5 - RE	2023-FD-01	123	140	135	0.4 *5-	0.4 *5-	96	125	139
LCS 410-366531/2-A	Lab Control Sample	118	114	117	54	49	116	117	108
LCS 410-374042/3-A	Lab Control Sample	137	122	128	77	72	127	116	133
LCSD 410-374042/4-A	Lab Control Sample Dup	129	128	125	70	65	122	119	130

Isotope Dilution Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C5PHA (24-179)	C6PFDA (49-163)	13C7PUA (34-174)	d3NMFSA (10-155)	d5NPFSA (10-159)	PFOSA (10-168)	PFDoDA (17-176)	C9PFNA (51-167)
MB 410-366531/1-A	Method Blank	109	100	102	56	52	99	106	98
MB 410-374042/1-A	Method Blank	124	124	124	69	64	120	114	127

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		04/20/23 10:11	05/04/23 21:46	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		04/20/23 10:11	05/04/23 21:46	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
DONA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
HFPODA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSAA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSAA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSA	ND		2.00	0.700	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-8:2 FTS	*132*		*33 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 PFBS	*102*		*16 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFBA	*96*		*42 - 165*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFHpA	*110*		*31 - 182*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C5 PFPeA	*103*		*38 - 187*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C8 PFOA	*105*		*48 - 162*	*04/20/23 10:11*	*05/04/23 21:46*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		51 - 159	04/20/23 10:11	05/04/23 21:46	1
d3-NMeFOSAA	95		31 - 174	04/20/23 10:11	05/04/23 21:46	1
d5-NEtFOSAA	99		29 - 195	04/20/23 10:11	05/04/23 21:46	1
d7-N-MeFOSE-M	81		10 - 178	04/20/23 10:11	05/04/23 21:46	1
d9-N-EtFOSE-M	80		10 - 177	04/20/23 10:11	05/04/23 21:46	1
13C3 PFHxS	106		28 - 188	04/20/23 10:11	05/04/23 21:46	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/04/23 21:46	1
13C6 PFDA	100		49 - 163	04/20/23 10:11	05/04/23 21:46	1
13C7 PFUnA	102		34 - 174	04/20/23 10:11	05/04/23 21:46	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/04/23 21:46	1
d5-NEtPFOSA	52		10 - 159	04/20/23 10:11	05/04/23 21:46	1
13C8 FOSA	99		10 - 168	04/20/23 10:11	05/04/23 21:46	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/04/23 21:46	1
13C9 PFNA	98		51 - 167	04/20/23 10:11	05/04/23 21:46	1

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	25.64		ng/L		104	50 - 146
11Cl-PF3OUdS	23.8	22.26		ng/L		94	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	23.85		ng/L		100	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	23.74		ng/L		98	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.72		ng/L		93	55 - 138
9Cl-PF3ONS	23.8	21.21		ng/L		89	59 - 135
DONA	24.2	23.71		ng/L		98	55 - 143
HFPODA	25.6	24.19		ng/L		94	50 - 135
NEtFOSAA	25.6	24.04		ng/L		94	55 - 134
NEtFOSA	25.6	27.04		ng/L		106	61 - 134
NEtFOSE	25.6	25.95		ng/L		101	60 - 136
NMeFOSAA	25.6	25.46		ng/L		99	59 - 140
NMeFOSA	25.6	27.19		ng/L		106	64 - 143
NMeFOSE	25.6	26.14		ng/L		102	55 - 144
Perfluorobutanesulfonic acid	22.7	21.97		ng/L		97	53 - 138
Perfluorobutanoic acid	25.6	25.47		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	24.7	23.63		ng/L		96	55 - 137
Perfluorodecanoic acid	25.6	25.78		ng/L		101	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.45		ng/L		95	48 - 138
Perfluorododecanoic acid	25.6	24.96		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	24.4	25.00		ng/L		103	56 - 140
Perfluoroheptanoic acid	25.6	25.36		ng/L		99	59 - 145
Perfluorohexadecanoic acid	25.6	21.75		ng/L		85	41 - 158
Perfluorohexanesulfonic acid	23.3	22.33		ng/L		96	58 - 134
Perfluorohexanoic acid	25.6	22.43		ng/L		88	58 - 139
Perfluorononanesulfonic acid	24.6	23.55		ng/L		96	59 - 136
Perfluorononanoic acid	25.6	25.14		ng/L		98	61 - 139
Perfluorooctadecanoic acid	25.6	20.85		ng/L		81	29 - 172

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	25.6	24.56		ng/L		96	43 - 167
Perfluorooctanesulfonic acid	23.7	21.94		ng/L		93	45 - 150
Perfluorooctanoic acid	25.6	24.80		ng/L		97	51 - 145
Perfluoropentanesulfonic acid	24.0	24.25		ng/L		101	55 - 140
Perfluoropentanoic acid	25.6	24.96		ng/L		97	57 - 141
Perfluorotetradecanoic acid	25.6	24.34		ng/L		95	62 - 139
Perfluorotridecanoic acid	25.6	25.74		ng/L		101	58 - 146
Perfluoroundecanoic acid	25.6	26.31		ng/L		103	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*125*		*10 - 200*
M2-6:2 FTS	*133*		*17 - 200*
M2-8:2 FTS	*142*		*33 - 200*
13C2 PFTeDA	*118*		*10 - 179*
13C3 HFPO-DA	*110*		*17 - 185*
13C3 PFBS	*118*		*16 - 200*
13C4 PFBA	*100*		*42 - 165*
13C4 PFHpA	*117*		*31 - 182*
13C5 PFPeA	*113*		*38 - 187*
13C8 PFOA	*116*		*48 - 162*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*113*		*31 - 174*
d5-NEtFOSAA	*115*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*85*		*10 - 177*
13C3 PFHxS	*120*		*28 - 188*
13C5 PFHxA	*118*		*24 - 179*
13C6 PFDA	*114*		*49 - 163*
13C7 PFUnA	*117*		*34 - 174*
d3-NMePFOSA	*54*		*10 - 155*
d5-NEtPFOSA	*49*		*10 - 159*
13C8 FOSA	*116*		*10 - 168*
13C2-PFDoDA	*117*		*17 - 176*
13C9 PFNA	*108*		*51 - 167*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	ND		22.9	19.99		ng/L		87	50 - 146
11Cl-PF3OUdS	ND		22.1	23.15		ng/L		105	53 - 139
4:2 Fluorotelomer sulfonic acid	ND		22.2	20.99		ng/L		94	55 - 139
6:2 Fluorotelomer sulfonic acid	ND		22.5	20.92		ng/L		93	28 - 173
8:2 Fluorotelomer sulfonic acid	ND		22.8	20.99		ng/L		92	55 - 138
9Cl-PF3ONS	ND		22.1	22.83		ng/L		103	59 - 135
DONA	ND		22.5	25.80		ng/L		115	55 - 143
HFPODA	ND		23.8	30.91		ng/L		130	50 - 135
NEtFOSAA	ND		23.8	22.92		ng/L		96	55 - 134

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
NEtFOSA	ND		23.8	25.76		ng/L		108	61 - 134
NEtFOSE	ND		23.8	24.30		ng/L		102	60 - 136
NMeFOSAA	ND		23.8	22.63		ng/L		95	59 - 140
NMeFOSA	ND		23.8	25.70		ng/L		108	64 - 143
NMeFOSE	ND		23.8	23.77		ng/L		100	55 - 144
Perfluorobutanesulfonic acid	0.318	J	21.0	19.22		ng/L		90	53 - 138
Perfluorobutanoic acid	1.19	J	23.8	24.80		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	ND		22.9	23.65		ng/L		103	55 - 137
Perfluorodecanoic acid	ND		23.8	25.88		ng/L		109	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	ND		23.0	22.57		ng/L		98	48 - 138
Perfluorododecanoic acid	ND		23.8	23.21		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	ND		22.6	23.47		ng/L		104	56 - 140
Perfluoroheptanoic acid	1.45	J	23.8	24.35		ng/L		96	59 - 145
Perfluorohexadecanoic acid	ND		23.8	18.35		ng/L		77	41 - 158
Perfluorohexanesulfonic acid	0.635	J	21.7	22.21		ng/L		99	58 - 134
Perfluorohexanoic acid	0.610	J	23.8	25.68		ng/L		105	58 - 139
Perfluorononanesulfonic acid	ND		22.8	23.31		ng/L		102	59 - 136
Perfluorononanoic acid	0.565	J	23.8	23.60		ng/L		97	61 - 139
Perfluorooctadecanoic acid	ND	F1	23.8	6.748	F1	ng/L		28	29 - 172
Perfluorooctanesulfonamide	ND		23.8	23.59		ng/L		99	43 - 167
Perfluorooctanesulfonic acid	16.8		22.0	40.53		ng/L		108	45 - 150
Perfluorooctanoic acid	10.5		23.8	39.29		ng/L		121	51 - 145
Perfluoropentanesulfonic acid	ND		22.3	23.24		ng/L		104	55 - 140
Perfluoropentanoic acid	ND		23.8	22.76		ng/L		96	57 - 141
Perfluorotetradecanoic acid	ND		23.8	23.22		ng/L		98	62 - 139
Perfluorotridecanoic acid	ND		23.8	23.15		ng/L		97	58 - 146
Perfluoroundecanoic acid	ND		23.8	24.78		ng/L		104	60 - 141

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
M2-4:2 FTS	*118*		*10 - 200*
M2-6:2 FTS	*143*		*17 - 200*
M2-8:2 FTS	*159*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*91*		*17 - 185*
13C3 PFBS	*155*		*16 - 200*
13C4 PFBA	*121*		*42 - 165*
13C4 PFHpA	*100*		*31 - 182*
13C5 PFPeA	*128*		*38 - 187*
13C8 PFOA	*101*		*48 - 162*
13C8 PFOS	*115*		*51 - 159*
d3-NMeFOSAA	*116*		*31 - 174*
d5-NEtFOSAA	*124*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*82*		*10 - 177*
13C3 PFHxS	*117*		*28 - 188*
13C5 PFHxA	*97*		*24 - 179*
13C6 PFDA	*116*		*49 - 163*
13C7 PFUnA	*120*		*34 - 174*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 373753

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
d3-NMePFOSA	25		10 - 155
d5-NEtPFOSA	20		10 - 159
13C8 FOSA	110		10 - 168
13C2-PFDoDA	118		17 - 176
13C9 PFNA	117		51 - 167

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 372358

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS	ND		24.2	23.84		ng/L		99	50 - 146	0	30
11Cl-PF3OUdS	ND		23.3	23.56		ng/L		101	53 - 139	9	30
4:2 Fluorotelomer sulfonic acid	ND		23.4	22.14		ng/L		94	55 - 139	2	30
6:2 Fluorotelomer sulfonic acid	ND		23.8	23.21		ng/L		98	28 - 173	1	30
8:2 Fluorotelomer sulfonic acid	ND		24.0	21.72		ng/L		90	55 - 138	1	30
9Cl-PF3ONS	ND		23.3	22.10		ng/L		95	59 - 135	9	30
DONA	ND		23.7	25.02		ng/L		106	55 - 143	3	30
HFPODA	ND		25.1	30.49		ng/L		122	50 - 135	14	30
NEtFOSAA	ND		25.1	23.02		ng/L		92	55 - 134	3	30
NEtFOSA	ND		25.1	27.09		ng/L		108	61 - 134	10	30
NEtFOSE	ND		25.1	25.26		ng/L		101	60 - 136	2	30
NMeFOSAA	ND		25.1	25.52		ng/L		102	59 - 140	7	30
NMeFOSA	ND		25.1	24.76		ng/L		99	64 - 143	8	30
NMeFOSE	ND		25.1	23.80		ng/L		95	55 - 144	5	30
Perfluorobutanesulfonic acid	ND		22.2	24.33		ng/L		110	53 - 138	0	30
Perfluorobutanoic acid	1.16	J	25.1	25.66		ng/L		98	59 - 136	4	30
Perfluorodecanesulfonic acid	ND		24.2	24.29		ng/L		100	55 - 137	9	30
Perfluorodecanoic acid	ND		25.1	26.17		ng/L		104	56 - 138	8	30
Perfluorododecanesulfonic acid (PFDoS)	ND		24.3	23.48		ng/L		97	48 - 138	7	30
Perfluorododecanoic acid	ND		25.1	25.48		ng/L		102	59 - 143	6	30
Perfluoroheptanesulfonic acid	ND		23.9	23.88		ng/L		100	56 - 140	8	30
Perfluoroheptanoic acid	2.32		25.1	27.12		ng/L		99	59 - 145	4	30
Perfluorohexadecanoic acid	ND		25.1	17.55		ng/L		70	41 - 158	9	30
Perfluorohexanesulfonic acid	0.880	J	22.9	22.98		ng/L		97	58 - 134	3	30
Perfluorohexanoic acid	0.632	J	25.1	24.88		ng/L		97	58 - 139	6	30
Perfluorononanesulfonic acid	ND		24.1	23.89		ng/L		99	59 - 136	9	30
Perfluorononanoic acid	0.531	J	25.1	25.09		ng/L		98	61 - 139	2	30
Perfluorooctadecanoic acid	ND		25.1	3.974		ng/L		16	29 - 172	89	30
Perfluorooctanesulfonamide	ND		25.1	25.25		ng/L		101	43 - 167	7	30
Perfluorooctanesulfonic acid	16.1		23.2	39.18		ng/L		99	45 - 150	2	30
Perfluorooctanoic acid	9.78		25.1	35.78		ng/L		104	51 - 145	8	30
Perfluoropentanesulfonic acid	ND		23.5	24.26		ng/L		103	55 - 140	6	30
Perfluoropentanoic acid	0.655	J	25.1	24.75		ng/L		96	57 - 141	6	30
Perfluorotetradecanoic acid	ND		25.1	23.85		ng/L		95	62 - 139	6	30
Perfluorotridecanoic acid	ND		25.1	24.36		ng/L		97	58 - 146	0	30
Perfluoroundecanoic acid	ND		25.1	26.40		ng/L		105	60 - 141	9	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
M2-4:2 FTS	126		10 - 200
M2-6:2 FTS	137		17 - 200
M2-8:2 FTS	163		33 - 200
13C2 PFTeDA	122		10 - 179
13C3 HFPO-DA	91		17 - 185
13C3 PFBS	155		16 - 200
13C4 PFBA	124		42 - 165
13C4 PFHpA	112		31 - 182
13C5 PFPeA	126		38 - 187
13C8 PFOA	113		48 - 162
13C8 PFOS	120		51 - 159
d3-NMeFOSAA	119		31 - 174
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	87		10 - 178
d9-N-EtFOSE-M	78		10 - 177
13C3 PFHxS	126		28 - 188
13C5 PFHxA	106		24 - 179
13C6 PFDA	119		49 - 163
13C7 PFUnA	124		34 - 174
d3-NMePFOSA	24		10 - 155
d5-NEtPFOSA	19		10 - 159
13C8 FOSA	115		10 - 168
13C2-PFDoDA	124		17 - 176
13C9 PFNA	119		51 - 167

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		05/10/23 08:01	05/12/23 05:51	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		05/10/23 08:01	05/12/23 05:51	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
DONA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
HFPODA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSAA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSAA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSA	ND		2.00	0.700	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-6:2 FTS	*160*		*17 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2 PFTeDA	*111*		*10 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 HFPO-DA	*107*		*17 - 185*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFBS	*129*		*16 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFBA	*97*		*42 - 165*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFHpA	*124*		*31 - 182*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFPeA	*124*		*38 - 187*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOA	*118*		*48 - 162*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOS	*126*		*51 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMeFOSAA	*120*		*31 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtFOSAA	*118*		*29 - 195*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d7-N-MeFOSE-M	*86*		*10 - 178*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d9-N-EtFOSE-M	*81*		*10 - 177*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFHxS	*128*		*28 - 188*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFHxA	*124*		*24 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C6 PFDA	*124*		*49 - 163*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C7 PFUnA	*124*		*34 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMePFOSA	*69*		*10 - 155*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtPFOSA	*64*		*10 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 FOSA	*120*		*10 - 168*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2-PFDoDA	*114*		*17 - 176*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C9 PFNA	*127*		*51 - 167*	*05/10/23 08:01*	*05/12/23 05:51*	*1*

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	13.75		ng/L		56	50 - 146
11Cl-PF3OUdS	23.8	15.47		ng/L		65	53 - 139

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4:2 Fluorotelomer sulfonic acid	23.9	16.51		ng/L		69	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	17.47		ng/L		72	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	15.33		ng/L		63	55 - 138
9Cl-PF3ONS	23.8	16.13		ng/L		68	59 - 135
DONA	24.2	17.83		ng/L		74	55 - 143
HFPODA	25.6	19.60		ng/L		77	50 - 135
NEtFOSAA	25.6	17.15		ng/L		67	55 - 134
NEtFOSA	25.6	19.74		ng/L		77	61 - 134
NEtFOSE	25.6	17.97		ng/L		70	60 - 136
NMeFOSAA	25.6	16.82		ng/L		66	59 - 140
NMeFOSA	25.6	19.43		ng/L		76	64 - 143
NMeFOSE	25.6	18.67		ng/L		73	55 - 144
Perfluorobutanesulfonic acid	22.7	15.70		ng/L		69	53 - 138
Perfluorobutanoic acid	25.6	17.75		ng/L		69	59 - 136
Perfluorodecanesulfonic acid	24.7	16.51		ng/L		67	55 - 137
Perfluorodecanoic acid	25.6	20.02		ng/L		78	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	15.27		ng/L		62	48 - 138
Perfluorododecanoic acid	25.6	18.89		ng/L		74	59 - 143
Perfluoroheptanesulfonic acid	24.4	16.66		ng/L		68	56 - 140
Perfluoroheptanoic acid	25.6	18.98		ng/L		74	59 - 145
Perfluorohexadecanoic acid	25.6	16.57		ng/L		65	41 - 158
Perfluorohexanesulfonic acid	23.3	15.83		ng/L		68	58 - 134
Perfluorohexanoic acid	25.6	16.32		ng/L		64	58 - 139
Perfluorononanesulfonic acid	24.6	15.85		ng/L		64	59 - 136
Perfluorononanoic acid	25.6	18.41		ng/L		72	61 - 139
Perfluorooctadecanoic acid	25.6	16.51		ng/L		65	29 - 172
Perfluorooctanesulfonamide	25.6	16.86		ng/L		66	43 - 167
Perfluorooctanesulfonic acid	23.7	16.19		ng/L		68	45 - 150
Perfluorooctanoic acid	25.6	20.10		ng/L		79	51 - 145
Perfluoropentanesulfonic acid	24.0	16.12		ng/L		67	55 - 140
Perfluoropentanoic acid	25.6	17.11		ng/L		67	57 - 141
Perfluorotetradecanoic acid	25.6	17.88		ng/L		70	62 - 139
Perfluorotridecanoic acid	25.6	18.58		ng/L		73	58 - 146
Perfluoroundecanoic acid	25.6	18.81		ng/L		73	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*155*		*10 - 200*
M2-6:2 FTS	*162*		*17 - 200*
M2-8:2 FTS	*168*		*33 - 200*
13C2 PFTeDA	*115*		*10 - 179*
13C3 HFPO-DA	*125*		*17 - 185*
13C3 PFBS	*140*		*16 - 200*
13C4 PFBA	*110*		*42 - 165*
13C4 PFHpA	*125*		*31 - 182*
13C5 PFPeA	*132*		*38 - 187*
13C8 PFOA	*127*		*48 - 162*
13C8 PFOS	*134*		*51 - 159*
d3-NMeFOSAA	*127*		*31 - 174*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	91		10 - 178
d9-N-EtFOSE-M	88		10 - 177
13C3 PFHxS	134		28 - 188
13C5 PFHxA	137		24 - 179
13C6 PFDA	122		49 - 163
13C7 PFUnA	128		34 - 174
d3-NMePFOSA	77		10 - 155
d5-NEtPFOSA	72		10 - 159
13C8 FOSA	127		10 - 168
13C2-PFDoDA	116		17 - 176
13C9 PFNA	133		51 - 167

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS			24.7	14.31		ng/L		58	50 - 146	4	30
11Cl-PF3OUdS			23.8	16.60		ng/L		70	53 - 139	7	30
4:2 Fluorotelomer sulfonic acid			23.9	17.25		ng/L		72	55 - 139	4	30
6:2 Fluorotelomer sulfonic acid			24.3	16.77		ng/L		69	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	16.32		ng/L		67	55 - 138	6	30
9Cl-PF3ONS			23.8	16.72		ng/L		70	59 - 135	4	30
DONA			24.2	17.69		ng/L		73	55 - 143	1	30
HFPODA			25.6	18.61		ng/L		73	50 - 135	5	30
NEtFOSAA			25.6	18.00		ng/L		70	55 - 134	5	30
NEtFOSA			25.6	20.65		ng/L		81	61 - 134	5	30
NEtFOSE			25.6	18.85		ng/L		74	60 - 136	5	30
NMeFOSAA			25.6	18.46		ng/L		72	59 - 140	9	30
NMeFOSA			25.6	18.92		ng/L		74	64 - 143	3	30
NMeFOSE			25.6	17.97		ng/L		70	55 - 144	4	30
Perfluorobutanesulfonic acid			22.7	16.38		ng/L		72	53 - 138	4	30
Perfluorobutanoic acid			25.6	17.78		ng/L		69	59 - 136	0	30
Perfluorodecanesulfonic acid			24.7	16.60		ng/L		67	55 - 137	1	30
Perfluorodecanoic acid			25.6	19.60		ng/L		77	56 - 138	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	15.85		ng/L		64	48 - 138	4	30
Perfluorododecanoic acid			25.6	19.20		ng/L		75	59 - 143	2	30
Perfluoroheptanesulfonic acid			24.4	17.09		ng/L		70	56 - 140	3	30
Perfluoroheptanoic acid			25.6	18.70		ng/L		73	59 - 145	1	30
Perfluorohexadecanoic acid			25.6	17.37		ng/L		68	41 - 158	5	30
Perfluorohexanesulfonic acid			23.3	16.34		ng/L		70	58 - 134	3	30
Perfluorohexanoic acid			25.6	17.67		ng/L		69	58 - 139	8	30
Perfluorononanesulfonic acid			24.6	17.23		ng/L		70	59 - 136	8	30
Perfluorononanoic acid			25.6	18.69		ng/L		73	61 - 139	2	30
Perfluorooctadecanoic acid			25.6	17.90		ng/L		70	29 - 172	8	30
Perfluorooctanesulfonamide			25.6	17.99		ng/L		70	43 - 167	7	30
Perfluorooctanesulfonic acid			23.7	16.90		ng/L		71	45 - 150	4	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid			25.6	18.79		ng/L		73	51 - 145	7	30
Perfluoropentanesulfonic acid			24.0	17.33		ng/L		72	55 - 140	7	30
Perfluoropentanoic acid			25.6	17.91		ng/L		70	57 - 141	5	30
Perfluorotetradecanoic acid			25.6	18.16		ng/L		71	62 - 139	2	30
Perfluorotridecanoic acid			25.6	17.88		ng/L		70	58 - 146	4	30
Perfluoroundecanoic acid			25.6	19.38		ng/L		76	60 - 141	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*147*		*10 - 200*
M2-6:2 FTS	*168*		*17 - 200*
M2-8:2 FTS	*162*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*135*		*17 - 185*
13C3 PFBS	*137*		*16 - 200*
13C4 PFBA	*122*		*42 - 165*
13C4 PFHpA	*126*		*31 - 182*
13C5 PFPeA	*131*		*38 - 187*
13C8 PFOA	*125*		*48 - 162*
13C8 PFOS	*130*		*51 - 159*
d3-NMeFOSAA	*124*		*31 - 174*
d5-NEtFOSAA	*120*		*29 - 195*
d7-N-MeFOSE-M	*90*		*10 - 178*
d9-N-EtFOSE-M	*84*		*10 - 177*
13C3 PFHxS	*132*		*28 - 188*
13C5 PFHxA	*129*		*24 - 179*
13C6 PFDA	*128*		*49 - 163*
13C7 PFUnA	*125*		*34 - 174*
d3-NMePFOSA	*70*		*10 - 155*
d5-NEtPFOSA	*65*		*10 - 159*
13C8 FOSA	*122*		*10 - 168*
13C2-PFDoDA	*119*		*17 - 176*
13C9 PFNA	*130*		*51 - 167*

LCMS

Prep Batch: 366531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	SPE	
620-10573-1 - RA	2023-MW-03	Total/NA	Water	SPE	
620-10573-2	2023-MW-04	Total/NA	Water	SPE	
620-10573-3	2023-MW-06	Total/NA	Water	SPE	
620-10573-4	2023-MW-05	Total/NA	Water	SPE	
620-10573-5	2023-FD-01	Total/NA	Water	SPE	
MB 410-366531/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	SPE	
620-10573-2 MS	2023-MW-04	Total/NA	Water	SPE	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	SPE	

Analysis Batch: 372358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	537 IDA	366531
620-10573-3	2023-MW-06	Total/NA	Water	537 IDA	366531
620-10573-4	2023-MW-05	Total/NA	Water	537 IDA	366531
620-10573-5	2023-FD-01	Total/NA	Water	537 IDA	366531
MB 410-366531/1-A	Method Blank	Total/NA	Water	537 IDA	366531
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	537 IDA	366531
620-10573-2 MSD	2023-MW-04	Total/NA	Water	537 IDA	366531

Analysis Batch: 373753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1 - RA	2023-MW-03	Total/NA	Water	537 IDA	366531
620-10573-2	2023-MW-04	Total/NA	Water	537 IDA	366531
620-10573-2 MS	2023-MW-04	Total/NA	Water	537 IDA	366531

Prep Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-4 - RE	2023-MW-05	Total/NA	Water	SPE	
620-10573-5 - RE	2023-FD-01	Total/NA	Water	SPE	
MB 410-374042/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Analysis Batch: 374796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-4 - RE	2023-MW-05	Total/NA	Water	537 IDA	374042
620-10573-5 - RE	2023-FD-01	Total/NA	Water	537 IDA	374042
MB 410-374042/1-A	Method Blank	Total/NA	Water	537 IDA	374042
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	537 IDA	374042
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	374042

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Date Collected: 03/30/23 11:25 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/04/23 23:15
Total/NA	Prep	SPE	RA		366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA	RA	1	373753	UUV6	ELLE	05/09/23 18:08

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 18:20

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Date Collected: 03/30/23 12:10 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:10

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:21
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:35

Client Sample ID: 2023-FD-01 — Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 — **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:32
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:46

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10573-2
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
SPE	PFAS by SPE	Lab SOP	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10573-1	2023-MW-03	Water	03/30/23 11:25	03/31/23 15:05
620-10573-2	2023-MW-04	Water	03/30/23 14:20	03/31/23 15:05
620-10573-3	2023-MW-06	Water	03/30/23 12:10	03/31/23 15:05
620-10573-4	2023-MW-05	Water	03/30/23 15:05	03/31/23 15:05
620-10573-5	2023-FD-01	Water	03/30/23 08:00	03/31/23 15:05

10573

620-10573 Chain of Custody

Chain of Custody Record

Boston #215

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Sampler: L Mato. S Stone	Lab PM:	Carrier Tracking No(s).	COC No: 620-9105-1141 1
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 3
Company: Nobis Engineering Inc.	PWSID:			Job #:
Address: 585 Middlesex Street	Due Date Requested			
City: Lowell	TAT Requested (days): STD			
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No			
Phone:	PO #: S00001.002			
Email: bfortier@nobis-group.com / dmcgrath@nobis-group.com	WO #:			
Project Name: 4 Holeman Street, Templeton MA	Project #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs SW846 8260	SVOCs SW846 8270	VPH SW846 8082	PCBs 8082	Metals 6020/7471A	PFAS EPA method 537.1	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
01	2023-MW-03	3/30/23	1125	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-04		1420		Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-06		1210		Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-05		1505		Water			✓	✓	✓	✓	✓	✓		
05	2023-FD-01		800		Water			✓	✓	✓	✓	✓	✓		
06	Trip Blank 2023-TB-01		700		Water			✓		✓					
					Water										
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I II, III, IV, Other (specify)

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com 2023-MW-04 is MS/MSD EQuis EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
L Mato	3/30/23 724		Basement Fridge	3/30/23 724	
[signature]	3/30/23 3:07		[signature]	3/31/23 1505	EtA
[signature]	4/3/23 1314	EtA	[signature]	4/3/23 1314	EWG

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: 2 G W 2 2.8 HG

Ver: 06/08/2021

5/15/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-2

Login Number: 10573
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-2

Login Number: 10573
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 5/11/2023 3:47:54 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10573-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

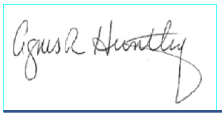
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10573-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10573-1 through 620-10573-6

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☑	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/11/2023

Job ID: 620-10573-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10573-1

Receipt
The samples were received on 3/31/2023 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: Hexachlorobutadiene.
(CCVIS 620-21052/3)

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Tert-amyl methyl ether.
(CCVIS 620-21055/3)

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, Ethanol, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Tert-amyl methyl ether.
(CCVIS 620-21085/3)

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for analytical batch 620-21085 recovered outside control limits for the following analytes: Bromomethane, Dichlorodifluoromethane, and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 620-21085 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Methods 8270C, 8270D, 8270D SIM: The laboratory control sample (LCS) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Methods 8270C, 8270D, 8270D SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Benzo[a]anthracene, Benzo[a]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The individual percent recoveries were within acceptance criteria.

Methods 8270C, 8270D, 8270D SIM: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to

Job ID: 620-10573-1 (Continued)

Laboratory: Eurofins New England (Continued)

be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 620-21036/1-A). These results have been reported and qualified.

Methods 8270D, 8270D SIM: The continuing calibration verification (CCV) associated with batch 620-21209 recovered above the upper control limit for 1-Methylnaphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 620-21209/6).

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21216/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-21080 and analytical batch 620-21159 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Benzidine, Pyridine and Phenol. MCP allows for <10% of analytes to fall outside of control limits. The affected target analytes recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The laboratory control sample (LCS) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: N-Nitrosodimethylamine. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Aniline. The affected target analytes recovered within acceptance limits in the LCS, therefore the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, 4-Chloroaniline, Aniline, Benzidine, Benzoic acid, Hexachlorobutadiene, Hexachlorocyclopentadiene, N-Nitrosodimethylamine, Pentachloronitrobenzene, Phenol and Pyridine. The individual percent recoveries are within acceptance limits unless otherwise specified in another NCM.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21036 and analytical batch 620-21311 recovered outside control limits for the following analytes: Aniline, Benzidine and Pyridine. MCP allows for <10% of analytes to fall outside of control limits. The affected target analytes recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21311/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH2.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 620-21124 were outside control limits for one or more analytes, see QC Sample Results for detail. The %R fail is due to the way the whole baseline is integrated for samples, and is not just a sum of peaks as in QC samples. The associated laboratory control sample (LCS) recovery is within acceptance limits; therefore, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 620-10573-1 (Continued)

Laboratory: Eurofins New England (Continued)

GC Semi VOA
Method 8082: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: 2023-MW-04 (620-10573-2). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

Methods 8082, 8082A: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 620-21137 and analytical batch 620-21181 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-03 — Lab Sample ID: 620-10573-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0860		0.0543	0.0423	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0746		0.0543	0.0422	ug/L	1		8270D	Total/NA
Fluorene	0.0810		0.0543	0.0371	ug/L	1		8270D	Total/NA
Benzoic acid	8.82	J B	10.9	6.05	ug/L	1		8270D	Total/NA
Zinc	18.4		10.0	4.00	ug/L	1		6020B	Total Recoverable
Arsenic	0.989	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	17.6		2.00	0.746	ug/L	1		6020B	Total Recoverable
Nickel	2.27		1.00	0.400	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-04 — Lab Sample ID: 620-10573-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	41.5		10.0	4.00	ug/L	1		6020B	Total Recoverable
Barium	26.0		2.00	0.746	ug/L	1		6020B	Total Recoverable
Lead	0.146	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-06 — Lab Sample ID: 620-10573-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	8.30		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	0.991	J	2.00	0.334	ug/L	1		6020B	Total Recoverable
Lead	0.257	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable
Mercury	0.0824	J	0.200	0.0790	ug/L	1		7470A	Total/NA

Client Sample ID: 2023-MW-05 — Lab Sample ID: 620-10573-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.61	J	10.0	0.902	ug/L	1		8260C	Total/NA
Ethanol	69.5	J	200	9.08	ug/L	1		8260C	Total/NA
Benzo[a]anthracene	0.0440	J *1	0.0500	0.0413	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0412	J	0.0500	0.0375	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.0342	J *- *1	0.0500	0.0342	ug/L	1		8270D	Total/NA
Zinc	22.0		10.0	4.00	ug/L	1		6020B	Total Recoverable
Barium	34.0		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	1.72	J	2.00	0.334	ug/L	1		6020B	Total Recoverable
Nickel	1.24		1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.331	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable
Vanadium	1.47	J	4.00	0.794	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-FD-01
Lab Sample ID: 620-10573-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.146		0.0500	0.0470	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.0454	J *1	0.0500	0.0413	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0407	J	0.0500	0.0375	ug/L	1		8270D	Total/NA
Fluoranthene	0.0452	J	0.0500	0.0341	ug/L	1		8270D	Total/NA
Naphthalene	0.425		0.0500	0.0464	ug/L	1		8270D	Total/NA
Phenanthrene	0.0351	J	0.0500	0.0339	ug/L	1		8270D	Total/NA
Zinc	23.0		10.0	4.00	ug/L	1		6020B	Total Recoverable
Arsenic	1.11	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	18.5		2.00	0.746	ug/L	1		6020B	Total Recoverable
Nickel	2.75		1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.0820	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-TB-01
Lab Sample ID: 620-10573-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-03

Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 20:59	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 20:59	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 20:59	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 20:59	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 20:59	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 20:59	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 20:59	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 20:59	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 20:59	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 20:59	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 20:59	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 20:59	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 20:59	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 20:59	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 20:59	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 20:59	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 20:59	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 20:59	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 20:59	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 20:59	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 20:59	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 20:59	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 20:59	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 20:59	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 20:59	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 20:59	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 20:59	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 20:59	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 20:59	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 20:59	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 20:59	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 20:59	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 20:59	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 20:59	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 20:59	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 20:59	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 20:59	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 20:59	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 20:59	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 20:59	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 20:59	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 20:59	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 20:59	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 20:59	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 20:59	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 20:59	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 20:59	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 20:59	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 20:59	1

Client Sample ID: 2023-MW-03 **Lab Sample ID: 620-10573-1**
Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 20:59	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 20:59	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 20:59	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 20:59	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 20:59	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 20:59	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 20:59	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 20:59	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 20:59	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 20:59	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 20:59	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 20:59	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 20:59	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 20:59	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 20:59	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 20:59	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 20:59	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 20:59	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 20:59	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 20:59	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 20:59	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 20:59	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 20:59	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 20:59	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 20:59	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 20:59	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 20:59	1
Ethanol	ND		200	9.08	ug/L			04/04/23 20:59	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 20:59	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/04/23 20:59*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 20:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*04/04/23 20:59*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*04/04/23 20:59*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0543	0.0538	ug/L		04/05/23 09:47	04/10/23 17:15	1
2-Methylnaphthalene	ND		0.0543	0.0511	ug/L		04/05/23 09:47	04/10/23 17:15	1
Acenaphthene	**0.0860**		0.0543	0.0423	ug/L		04/05/23 09:47	04/10/23 17:15	1
Acenaphthylene	**0.0746**		0.0543	0.0422	ug/L		04/05/23 09:47	04/10/23 17:15	1
Anthracene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[a]anthracene	ND		0.0543	0.0449	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[a]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[b]fluoranthene	ND		0.0543	0.0408	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[g,h,i]perylene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Benzo[k]fluoranthene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Chrysene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03
Lab Sample ID: 620-10573-1
Date Collected: 03/30/23 11:25
Matrix: Water
Date Received: 03/31/23 15:05

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0543	0.0372	ug/L		04/05/23 09:47	04/10/23 17:15	1
Fluoranthene	ND		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 17:15	1
Fluorene	**0.0810**		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 17:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 17:15	1
Naphthalene	ND		0.0543	0.0504	ug/L		04/05/23 09:47	04/10/23 17:15	1
Phenanthrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 17:15	1
Pyrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:15*	*1*
Terphenyl-d14	*55*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:15*	*1*
Benzo(e)pyrene-d12	*46*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:15*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.43	0.932	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,2,4-Trichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,2-Dichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,3-Dichlorobenzene	ND		5.43	1.38	ug/L		04/05/23 09:47	04/12/23 17:07	1
1,4-Dichlorobenzene	ND		5.43	1.53	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4,5-Trichlorophenol	ND		5.43	1.17	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4,6-Trichlorophenol	ND		5.43	0.988	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dichlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dimethylphenol	ND		5.43	0.662	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dinitrophenol	ND		10.9	5.88	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,4-Dinitrotoluene	ND		5.43	1.03	ug/L		04/05/23 09:47	04/12/23 17:07	1
2,6-Dinitrotoluene	ND		5.43	0.827	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Chloronaphthalene	ND		5.43	1.07	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Chlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Methylphenol	ND		5.43	0.582	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Nitroaniline	ND		5.43	0.741	ug/L		04/05/23 09:47	04/12/23 17:07	1
2-Nitrophenol	ND		5.43	0.838	ug/L		04/05/23 09:47	04/12/23 17:07	1
3 & 4 Methylphenol	ND		10.9	0.713	ug/L		04/05/23 09:47	04/12/23 17:07	1
3,3'-Dichlorobenzidine	ND		5.43	1.55	ug/L		04/05/23 09:47	04/12/23 17:07	1
3-Nitroaniline	ND		5.43	0.962	ug/L		04/05/23 09:47	04/12/23 17:07	1
4,6-Dinitro-2-methylphenol	ND		5.43	3.87	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Bromophenyl phenyl ether	ND		5.43	0.899	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Chloro-3-methylphenol	ND		5.43	0.857	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Chloroaniline	ND		5.43	2.24	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Chlorophenyl phenyl ether	ND		5.43	0.973	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Nitroaniline	ND		5.43	0.970	ug/L		04/05/23 09:47	04/12/23 17:07	1
4-Nitrophenol	ND		21.7	0.716	ug/L		04/05/23 09:47	04/12/23 17:07	1
Acetophenone	ND		5.43	0.792	ug/L		04/05/23 09:47	04/12/23 17:07	1
Aniline	ND	*-	5.43	1.52	ug/L		04/05/23 09:47	04/12/23 17:07	1
Azobenzene/Diphenyldiazene	ND		5.43	0.810	ug/L		04/05/23 09:47	04/12/23 17:07	1
Benzidine	ND	*-	21.7	2.09	ug/L		04/05/23 09:47	04/12/23 17:07	1
Benzoic acid	**8.82**	**J B**	10.9	6.05	ug/L		04/05/23 09:47	04/12/23 17:07	1
Benzyl alcohol	ND		5.43	0.638	ug/L		04/05/23 09:47	04/12/23 17:07	1
Bis(2-chloroethoxy)methane	ND		5.43	0.702	ug/L		04/05/23 09:47	04/12/23 17:07	1
Bis(2-chloroethyl)ether	ND		5.43	0.753	ug/L		04/05/23 09:47	04/12/23 17:07	1

Client Sample ID: 2023-MW-03 Lab Sample ID: 620-10573-1

Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.43	1.06	ug/L		04/05/23 09:47	04/12/23 17:07	1
Bis(2-ethylhexyl) phthalate	ND		10.9	6.39	ug/L		04/05/23 09:47	04/12/23 17:07	1
Butyl benzyl phthalate	ND		5.43	0.939	ug/L		04/05/23 09:47	04/12/23 17:07	1
Carbazole	ND		5.43	0.992	ug/L		04/05/23 09:47	04/12/23 17:07	1
Dibenzofuran	ND		5.43	0.852	ug/L		04/05/23 09:47	04/12/23 17:07	1
Diethyl phthalate	ND		5.43	0.952	ug/L		04/05/23 09:47	04/12/23 17:07	1
Dimethyl phthalate	ND		5.43	0.833	ug/L		04/05/23 09:47	04/12/23 17:07	1
Di-n-butyl phthalate	ND		5.43	0.998	ug/L		04/05/23 09:47	04/12/23 17:07	1
Di-n-octyl phthalate	ND		5.43	1.12	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachlorobenzene	ND		5.43	0.820	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachlorobutadiene	ND		5.43	1.24	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachlorocyclopentadiene	ND		5.43	1.08	ug/L		04/05/23 09:47	04/12/23 17:07	1
Hexachloroethane	ND		5.43	1.39	ug/L		04/05/23 09:47	04/12/23 17:07	1
Isophorone	ND		5.43	0.552	ug/L		04/05/23 09:47	04/12/23 17:07	1
Nitrobenzene	ND		5.43	0.782	ug/L		04/05/23 09:47	04/12/23 17:07	1
N-Nitrosodimethylamine	ND		5.43	0.607	ug/L		04/05/23 09:47	04/12/23 17:07	1
N-Nitrosodi-n-propylamine	ND		5.43	0.859	ug/L		04/05/23 09:47	04/12/23 17:07	1
N-Nitrosodiphenylamine	ND		5.43	1.01	ug/L		04/05/23 09:47	04/12/23 17:07	1
Pentachloronitrobenzene	ND		5.43	0.668	ug/L		04/05/23 09:47	04/12/23 17:07	1
Pentachlorophenol	ND		10.9	3.36	ug/L		04/05/23 09:47	04/12/23 17:07	1
Phenol	ND		5.43	0.690	ug/L		04/05/23 09:47	04/12/23 17:07	1
Pyridine	ND	*-	5.43	1.46	ug/L		04/05/23 09:47	04/12/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*30 - 130*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
2-Fluorophenol (Surr)	*40*		*15 - 110*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
Nitrobenzene-d5 (Surr)	*60*		*30 - 130*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
Phenol-d5 (Surr)	*24*		*15 - 110*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*04/05/23 09:47*	*04/12/23 17:07*	*1*
Terphenyl-d14	*63*		*30 - 130*	*04/05/23 09:47*	*04/12/23 17:07*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:57	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:57	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 17:57	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:57	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:57	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 17:57	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 17:57	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*		*04/06/23 17:57*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 17:57*	*1*

Client Sample ID: 2023-MW-03
Date Collected: 03/30/23 11:25
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-1
Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/10/23 12:08	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:55	04/10/23 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*
Tetrachloro-m-xylene	*50*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*04/06/23 11:55*	*04/10/23 12:08*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**18.4**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 08:07	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 08:07	1
Arsenic	**0.989**	**J**	2.00	0.680	ug/L		04/07/23 04:43	04/10/23 08:07	1
Barium	**17.6**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 08:07	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 08:07	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 08:07	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 08:07	1
Nickel	**2.27**		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 08:07	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 08:07	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 08:07	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 08:07	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 08:07	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 08:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:28	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-04
Date Collected: 03/30/23 14:20
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-2
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/05/23 18:20	1
Acetone	ND		10.0	0.902	ug/L			04/05/23 18:20	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/05/23 18:20	1
Benzene	ND		1.00	0.250	ug/L			04/05/23 18:20	1
Bromobenzene	ND		1.00	0.403	ug/L			04/05/23 18:20	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/05/23 18:20	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/05/23 18:20	1
Bromoform	ND		1.00	0.454	ug/L			04/05/23 18:20	1
Bromomethane	ND	*+	2.00	0.627	ug/L			04/05/23 18:20	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/05/23 18:20	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/05/23 18:20	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/05/23 18:20	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/05/23 18:20	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/05/23 18:20	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/05/23 18:20	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/05/23 18:20	1
Chloroethane	ND		2.00	0.405	ug/L			04/05/23 18:20	1
Chloroform	ND		1.00	0.297	ug/L			04/05/23 18:20	1
Chloromethane	ND		2.00	0.485	ug/L			04/05/23 18:20	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/05/23 18:20	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/05/23 18:20	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/05/23 18:20	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/05/23 18:20	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/05/23 18:20	1
Dibromomethane	ND	*+ F1	1.00	0.364	ug/L			04/05/23 18:20	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/05/23 18:20	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/05/23 18:20	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/05/23 18:20	1
Dichlorodifluoromethane (Freon 12)	ND	*- F1	2.00	0.289	ug/L			04/05/23 18:20	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/05/23 18:20	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/05/23 18:20	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/05/23 18:20	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/05/23 18:20	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/05/23 18:20	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/05/23 18:20	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/05/23 18:20	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/05/23 18:20	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/05/23 18:20	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/05/23 18:20	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/05/23 18:20	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/05/23 18:20	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/05/23 18:20	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/05/23 18:20	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/05/23 18:20	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/05/23 18:20	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/05/23 18:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/05/23 18:20	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/05/23 18:20	1
Naphthalene	ND		2.00	0.696	ug/L			04/05/23 18:20	1

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/05/23 18:20	1
Styrene	ND		1.00	0.419	ug/L			04/05/23 18:20	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/05/23 18:20	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/05/23 18:20	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/05/23 18:20	1
Toluene	ND		1.00	0.283	ug/L			04/05/23 18:20	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/05/23 18:20	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/05/23 18:20	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/05/23 18:20	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/05/23 18:20	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/05/23 18:20	1
Trichloroethene	ND		1.00	0.364	ug/L			04/05/23 18:20	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/05/23 18:20	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/05/23 18:20	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/05/23 18:20	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/05/23 18:20	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/05/23 18:20	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/05/23 18:20	1
o-Xylene	ND		1.00	0.428	ug/L			04/05/23 18:20	1
Tetrahydrofuran	ND	F1	2.00	0.704	ug/L			04/05/23 18:20	1
Ethyl ether	ND		1.00	0.421	ug/L			04/05/23 18:20	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/05/23 18:20	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/05/23 18:20	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/05/23 18:20	1
tert-Butanol	ND		10.0	8.52	ug/L			04/05/23 18:20	1
1,4-Dioxane	ND	*- F1	50.0	7.43	ug/L			04/05/23 18:20	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/05/23 18:20	1
Ethanol	ND	F1 F2	200	9.08	ug/L			04/05/23 18:20	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/05/23 18:20	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/05/23 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/05/23 18:20*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/05/23 18:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/05/23 18:20*	*1*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*04/05/23 18:20*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 17:11	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 17:11	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:11	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 17:11	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[a]anthracene	ND	*1	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 17:11	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 17:11	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 17:11	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-04
Lab Sample ID: 620-10573-2
Date Collected: 03/30/23 14:20
Matrix: Water
Date Received: 03/31/23 15:05

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	*- *1	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 17:11	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:11	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:11	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:11	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 17:11	1
Phenanthrene	ND		0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 17:11	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*100*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:11*	*1*
Terphenyl-d14	*76*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:11*	*1*
Benzo(e)pyrene-d12	*64*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:11*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 16:36	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 16:36	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 16:36	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 16:36	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 16:36	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 16:36	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 16:36	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 16:36	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 16:36	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 16:36	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 16:36	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 16:36	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 16:36	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 16:36	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 16:36	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 16:36	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 16:36	1

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 16:36	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 16:36	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 16:36	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 16:36	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 16:36	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 16:36	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 16:36	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 16:36	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 16:36	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 16:36	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 16:36	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 16:36	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 16:36	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 16:36	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 16:36	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 16:36	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 16:36	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 16:36	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*30 - 130*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
2-Fluorophenol (Surr)	*43*		*15 - 110*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
Nitrobenzene-d5 (Surr)	*97*		*30 - 130*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
Phenol-d5 (Surr)	*24*		*15 - 110*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 110*	*04/04/23 08:36*	*04/10/23 16:36*	*1*
Terphenyl-d14	*84*		*30 - 130*	*04/04/23 08:36*	*04/10/23 16:36*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:22	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 17:22	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 17:22	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:22	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 17:22	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 17:22	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 17:22	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 17:22*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 17:22*	*1*

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 20:58	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/07/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*
Tetrachloro-m-xylene	*37*		*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*
DCB Decachlorobiphenyl (Surr)	*377*	*S1+*	*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*
DCB Decachlorobiphenyl (Surr)	*55*	*p*	*30 - 150*	*04/06/23 11:55*	*04/07/23 20:58*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**41.5**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 07:45	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 07:45	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 04:43	04/10/23 07:45	1
Barium	**26.0**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 07:45	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 07:45	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 07:45	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 07:45	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 07:45	1
Lead	**0.146**	**J**	0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 07:45	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 07:45	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 07:45	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 07:45	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 07:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 14:43	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-06

Date Collected: 03/30/23 12:10
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-3

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 21:25	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 21:25	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 21:25	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 21:25	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 21:25	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 21:25	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 21:25	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 21:25	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 21:25	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 21:25	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 21:25	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 21:25	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 21:25	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 21:25	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 21:25	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 21:25	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 21:25	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 21:25	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 21:25	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 21:25	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 21:25	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 21:25	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 21:25	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 21:25	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 21:25	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 21:25	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 21:25	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 21:25	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 21:25	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 21:25	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 21:25	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 21:25	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 21:25	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 21:25	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 21:25	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 21:25	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 21:25	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 21:25	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 21:25	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 21:25	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 21:25	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 21:25	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 21:25	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 21:25	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 21:25	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 21:25	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 21:25	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 21:25	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 21:25	1

Client Sample ID: 2023-MW-06 **Lab Sample ID: 620-10573-3**
Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 21:25	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 21:25	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 21:25	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 21:25	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 21:25	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 21:25	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 21:25	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 21:25	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 21:25	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 21:25	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 21:25	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 21:25	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 21:25	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 21:25	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 21:25	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 21:25	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 21:25	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 21:25	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 21:25	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 21:25	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 21:25	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 21:25	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 21:25	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 21:25	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 21:25	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 21:25	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 21:25	1
Ethanol	ND		200	9.08	ug/L			04/04/23 21:25	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 21:25	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*04/04/23 21:25*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 21:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/04/23 21:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*04/04/23 21:25*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 17:41	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 17:41	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:41	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 17:41	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[a]anthracene	ND	*1	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 17:41	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 17:41	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 17:41	1

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-06
Lab Sample ID: 620-10573-3
Date Collected: 03/30/23 12:10
Matrix: Water
Date Received: 03/31/23 15:05

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	*- *1	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 17:41	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:41	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 17:41	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 17:41	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 17:41	1
Phenanthrene	ND		0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 17:41	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:41*	*1*
Terphenyl-d14	*75*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:41*	*1*
Benzo(e)pyrene-d12	*50*		*30 - 130*	*04/04/23 08:36*	*04/05/23 17:41*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 17:05	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 17:05	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 17:05	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 17:05	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 17:05	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 17:05	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 17:05	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 17:05	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 17:05	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 17:05	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 17:05	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 17:05	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 17:05	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 17:05	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 17:05	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 17:05	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 17:05	1

Client Sample ID: 2023-MW-06 Lab Sample ID: 620-10573-3

Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 17:05	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 17:05	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 17:05	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 17:05	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 17:05	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 17:05	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 17:05	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 17:05	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 17:05	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 17:05	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 17:05	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 17:05	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 17:05	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 17:05	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 17:05	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 17:05	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 17:05	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 17:05	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
2-Fluorophenol (Surr)	*40*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
Nitrobenzene-d5 (Surr)	*88*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
Phenol-d5 (Surr)	*22*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:05*	*1*
Terphenyl-d14	*80*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:05*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 18:32	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 18:32	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 18:32	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 18:32	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 18:32	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 18:32	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 18:32	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*89*		*70 - 130*		*04/06/23 18:32*	*1*
2,5-Dibromotoluene (pid)	*89*		*70 - 130*		*04/06/23 18:32*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-06

Date Collected: 03/30/23 12:10
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-3

Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 21:50	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/07/23 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*04/06/23 11:55*	*04/07/23 21:50*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:23	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:23	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:23	1
Barium	**8.30**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:23	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:23	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:23	1
Chromium	**0.991**	**J**	2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:23	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:23	1
Lead	**0.257**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:23	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:23	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:23	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:23	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0824**	**J**	0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:34	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 21:51	1
Acetone	**1.61**	**J**	10.0	0.902	ug/L			04/04/23 21:51	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 21:51	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 21:51	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 21:51	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 21:51	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 21:51	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 21:51	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 21:51	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 21:51	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 21:51	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 21:51	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 21:51	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 21:51	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 21:51	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 21:51	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 21:51	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 21:51	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 21:51	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 21:51	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 21:51	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 21:51	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 21:51	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 21:51	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 21:51	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 21:51	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 21:51	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 21:51	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 21:51	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 21:51	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 21:51	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 21:51	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 21:51	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 21:51	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 21:51	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 21:51	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 21:51	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 21:51	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 21:51	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 21:51	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 21:51	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 21:51	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 21:51	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 21:51	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 21:51	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 21:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 21:51	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 21:51	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 21:51	1

Client Sample ID: 2023-MW-05 Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 21:51	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 21:51	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 21:51	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 21:51	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 21:51	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 21:51	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 21:51	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 21:51	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 21:51	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 21:51	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 21:51	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 21:51	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 21:51	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 21:51	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 21:51	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 21:51	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 21:51	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 21:51	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 21:51	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 21:51	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 21:51	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 21:51	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 21:51	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 21:51	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 21:51	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 21:51	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 21:51	1
Ethanol	**69.5**	**J**	200	9.08	ug/L			04/04/23 21:51	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 21:51	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/04/23 21:51*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/23 21:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*04/04/23 21:51*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*04/04/23 21:51*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 18:11	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 18:11	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:11	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 18:11	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[a]anthracene	**0.0440**	**J *1**	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[b]fluoranthene	**0.0412**	**J**	0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 18:11	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 18:11	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 18:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**0.0342**	**J *- *1**	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 18:11	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:11	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:11	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:11	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 18:11	1
Phenanthrene	ND		0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 18:11	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:11*	*1*
Terphenyl-d14	*69*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:11*	*1*
Benzo(e)pyrene-d12	*50*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:11*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 17:34	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 17:34	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 17:34	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 17:34	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 17:34	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 17:34	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 17:34	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 17:34	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 17:34	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 17:34	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 17:34	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 17:34	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 17:34	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 17:34	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 17:34	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 17:34	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 17:34	1

Client Sample ID: 2023-MW-05 Lab Sample ID: 620-10573-4

Date Collected: 03/30/23 15:05 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 17:34	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 17:34	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 17:34	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 17:34	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 17:34	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 17:34	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 17:34	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 17:34	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 17:34	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 17:34	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 17:34	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 17:34	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 17:34	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 17:34	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 17:34	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 17:34	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 17:34	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 17:34	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
2-Fluorophenol (Surr)	*39*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
Nitrobenzene-d5 (Surr)	*85*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
Phenol-d5 (Surr)	*22*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*	*04/04/23 08:36*	*04/10/23 17:34*	*1*
Terphenyl-d14	*73*		*30 - 130*	*04/04/23 08:36*	*04/10/23 17:34*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:08	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:08	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 19:08	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:08	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:08	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 19:08	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 19:08	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*87*		*70 - 130*		*04/06/23 19:08*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 19:08*	*1*

Client Sample ID: 2023-MW-05
Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4
Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.455	0.0636	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1221	ND		0.455	0.169	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1232	ND		0.455	0.109	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1242	ND		0.455	0.0864	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1248	ND		0.455	0.186	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1254	ND		0.455	0.166	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1262	ND		0.455	0.182	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1260	ND		0.455	0.0864	ug/L		04/06/23 11:55	04/07/23 22:07	1
PCB-1268	ND		0.455	0.0955	ug/L		04/06/23 11:55	04/07/23 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*33*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*
Tetrachloro-m-xylene	*32*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*
DCB Decachlorobiphenyl (Surr)	*44*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*
DCB Decachlorobiphenyl (Surr)	*38*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:07*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**22.0**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 08:05	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 08:05	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 04:43	04/10/23 08:05	1
Barium	**34.0**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 08:05	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 08:05	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 08:05	1
Chromium	**1.72**	**J**	2.00	0.334	ug/L		04/07/23 04:43	04/10/23 08:05	1
Nickel	**1.24**		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 08:05	1
Lead	**0.331**	**J**	0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 08:05	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 08:05	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 08:05	1
Vanadium	**1.47**	**J**	4.00	0.794	ug/L		04/07/23 04:43	04/10/23 08:05	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 08:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:11	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-FD-01

Date Collected: 03/30/23 08:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-5

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/05/23 17:54	1
Acetone	ND		10.0	0.902	ug/L			04/05/23 17:54	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/05/23 17:54	1
Benzene	ND		1.00	0.250	ug/L			04/05/23 17:54	1
Bromobenzene	ND		1.00	0.403	ug/L			04/05/23 17:54	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/05/23 17:54	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/05/23 17:54	1
Bromoform	ND		1.00	0.454	ug/L			04/05/23 17:54	1
Bromomethane	ND	*+	2.00	0.627	ug/L			04/05/23 17:54	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/05/23 17:54	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/05/23 17:54	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/05/23 17:54	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/05/23 17:54	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/05/23 17:54	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/05/23 17:54	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/05/23 17:54	1
Chloroethane	ND		2.00	0.405	ug/L			04/05/23 17:54	1
Chloroform	ND		1.00	0.297	ug/L			04/05/23 17:54	1
Chloromethane	ND		2.00	0.485	ug/L			04/05/23 17:54	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/05/23 17:54	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/05/23 17:54	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/05/23 17:54	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/05/23 17:54	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/05/23 17:54	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/05/23 17:54	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/05/23 17:54	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/05/23 17:54	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/05/23 17:54	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/05/23 17:54	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/05/23 17:54	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/05/23 17:54	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/05/23 17:54	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/05/23 17:54	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/05/23 17:54	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/05/23 17:54	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/05/23 17:54	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/05/23 17:54	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/05/23 17:54	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/05/23 17:54	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/05/23 17:54	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/05/23 17:54	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/05/23 17:54	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/05/23 17:54	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/05/23 17:54	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/05/23 17:54	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/05/23 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/05/23 17:54	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/05/23 17:54	1
Naphthalene	ND		2.00	0.696	ug/L			04/05/23 17:54	1

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/05/23 17:54	1
Styrene	ND		1.00	0.419	ug/L			04/05/23 17:54	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/05/23 17:54	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/05/23 17:54	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/05/23 17:54	1
Toluene	ND		1.00	0.283	ug/L			04/05/23 17:54	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/05/23 17:54	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/05/23 17:54	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/05/23 17:54	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/05/23 17:54	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/05/23 17:54	1
Trichloroethene	ND		1.00	0.364	ug/L			04/05/23 17:54	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/05/23 17:54	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/05/23 17:54	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/05/23 17:54	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/05/23 17:54	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/05/23 17:54	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/05/23 17:54	1
o-Xylene	ND		1.00	0.428	ug/L			04/05/23 17:54	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/05/23 17:54	1
Ethyl ether	ND		1.00	0.421	ug/L			04/05/23 17:54	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/05/23 17:54	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/05/23 17:54	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/05/23 17:54	1
tert-Butanol	ND		10.0	8.52	ug/L			04/05/23 17:54	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/05/23 17:54	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/05/23 17:54	1
Ethanol	ND		200	9.08	ug/L			04/05/23 17:54	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/05/23 17:54	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/05/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/05/23 17:54*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/05/23 17:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*		*04/05/23 17:54*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*04/05/23 17:54*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 18:40	1
2-Methylnaphthalene	**0.146**		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 18:40	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:40	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 18:40	1
Anthracene	ND		0.0500	0.0449	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[a]anthracene	**0.0454**	**J *1**	0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[a]pyrene	ND	*1	0.0500	0.0406	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[b]fluoranthene	**0.0407**	**J**	0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[g,h,i]perylene	ND	*1	0.0500	0.0331	ug/L		04/04/23 08:36	04/05/23 18:40	1
Benzo[k]fluoranthene	ND	*1	0.0500	0.0373	ug/L		04/04/23 08:36	04/05/23 18:40	1
Chrysene	ND		0.0500	0.0372	ug/L		04/04/23 08:36	04/05/23 18:40	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-FD-01
Date Collected: 03/30/23 08:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-5
Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND	*- *1	0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 18:40	1
Fluoranthene	**0.0452**	**J**	0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:40	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 18:40	1
Indeno[1,2,3-cd]pyrene	ND	*- *1	0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 18:40	1
Naphthalene	**0.425**		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 18:40	1
Phenanthrene	**0.0351**	**J**	0.0500	0.0339	ug/L		04/04/23 08:36	04/05/23 18:40	1
Pyrene	ND		0.0500	0.0378	ug/L		04/04/23 08:36	04/05/23 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:40*	*1*
Terphenyl-d14	*68*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:40*	*1*
Benzo(e)pyrene-d12	*48*		*30 - 130*	*04/04/23 08:36*	*04/05/23 18:40*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/10/23 18:03	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/10/23 18:03	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/10/23 18:03	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/10/23 18:03	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/10/23 18:03	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/10/23 18:03	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/10/23 18:03	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/10/23 18:03	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/10/23 18:03	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/10/23 18:03	1
Aniline	ND	*-	5.00	1.40	ug/L		04/04/23 08:36	04/10/23 18:03	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/10/23 18:03	1
Benzidine	ND	*-	20.0	1.93	ug/L		04/04/23 08:36	04/10/23 18:03	1
Benzoic acid	ND		10.0	5.56	ug/L		04/04/23 08:36	04/10/23 18:03	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/10/23 18:03	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/10/23 18:03	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/10/23 18:03	1

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/10/23 18:03	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/10/23 18:03	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/10/23 18:03	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/10/23 18:03	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/10/23 18:03	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/10/23 18:03	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/10/23 18:03	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/10/23 18:03	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/10/23 18:03	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/10/23 18:03	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/10/23 18:03	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/10/23 18:03	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/10/23 18:03	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/10/23 18:03	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/10/23 18:03	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/10/23 18:03	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/10/23 18:03	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/10/23 18:03	1
Pyridine	ND	*-	5.00	1.34	ug/L		04/04/23 08:36	04/10/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*30 - 130*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
2-Fluorophenol (Surr)	*33*		*15 - 110*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
Nitrobenzene-d5 (Surr)	*73*		*30 - 130*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
Phenol-d5 (Surr)	*19*		*15 - 110*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*15 - 110*	*04/04/23 08:36*	*04/10/23 18:03*	*1*
Terphenyl-d14	*72*		*30 - 130*	*04/04/23 08:36*	*04/10/23 18:03*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:43	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 19:43	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 19:43	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:43	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 19:43	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 19:43	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 19:43	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*		*04/06/23 19:43*	*1*
2,5-Dibromotoluene (pid)	*85*		*70 - 130*		*04/06/23 19:43*	*1*

Client Sample ID: 2023-FD-01 Lab Sample ID: 620-10573-5

Date Collected: 03/30/23 08:00 **Matrix: Water**
Date Received: 03/31/23 15:05

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.435	0.0609	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1221	ND		0.435	0.162	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1232	ND		0.435	0.104	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1242	ND		0.435	0.0826	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1248	ND		0.435	0.178	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1254	ND		0.435	0.159	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1262	ND		0.435	0.174	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1260	ND		0.435	0.0826	ug/L		04/06/23 11:55	04/07/23 22:25	1
PCB-1268	ND		0.435	0.0913	ug/L		04/06/23 11:55	04/07/23 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:25*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**23.0**		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 08:03	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 08:03	1
Arsenic	**1.11**	**J**	2.00	0.680	ug/L		04/07/23 04:43	04/10/23 08:03	1
Barium	**18.5**		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 08:03	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 08:03	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 08:03	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 08:03	1
Nickel	**2.75**		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 08:03	1
Lead	**0.0820**	**J**	0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 08:03	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 08:03	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 08:03	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 08:03	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 08:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 15:07	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-TB-01
Date Collected: 03/30/23 07:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-6
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 16:04	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 16:04	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 16:04	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 16:04	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 16:04	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 16:04	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 16:04	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 16:04	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 16:04	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/04/23 16:04	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 16:04	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 16:04	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 16:04	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 16:04	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 16:04	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 16:04	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 16:04	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 16:04	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 16:04	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 16:04	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 16:04	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 16:04	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 16:04	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 16:04	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 16:04	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 16:04	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 16:04	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 16:04	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/04/23 16:04	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 16:04	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 16:04	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 16:04	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 16:04	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 16:04	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 16:04	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 16:04	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 16:04	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 16:04	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 16:04	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 16:04	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 16:04	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 16:04	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 16:04	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 16:04	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 16:04	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 16:04	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 16:04	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 16:04	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 16:04	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-TB-01
Date Collected: 03/30/23 07:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-6
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 16:04	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 16:04	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 16:04	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 16:04	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 16:04	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 16:04	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 16:04	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 16:04	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 16:04	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 16:04	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 16:04	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 16:04	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 16:04	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 16:04	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 16:04	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 16:04	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 16:04	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 16:04	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 16:04	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 16:04	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 16:04	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 16:04	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 16:04	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 16:04	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 16:04	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/04/23 16:04	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 16:04	1
Ethanol	ND	*-	200	9.08	ug/L			04/04/23 16:04	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 16:04	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/04/23 16:04*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/04/23 16:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 16:04*	*1*
Dibromofluoromethane (Surr)	*127*		*70 - 130*		*04/04/23 16:04*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:02	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:02	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 15:02	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:02	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:02	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 15:02	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-TB-01
Date Collected: 03/30/23 07:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-6
Matrix: Water

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 15:02	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*81*		*70 - 130*		*04/06/23 15:02*	*1*
2,5-Dibromotoluene (pid)	*81*		*70 - 130*		*04/06/23 15:02*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10573-1	2023-MW-03	94	95	111	101
620-10573-2	2023-MW-04	88	95	129	123
620-10573-2 MS	2023-MW-04	97	96	125	124
620-10573-2 MSD	2023-MW-04	96	95	122	123
620-10573-3	2023-MW-06	94	95	107	99
620-10573-4	2023-MW-05	95	96	112	100
620-10573-5	2023-FD-01	88	94	128	125
620-10573-6	2023-TB-01	91	96	129	127
LCS 620-21052/4	Lab Control Sample	98	96	102	97
LCS 620-21055/4	Lab Control Sample	96	96	125	120
LCS 620-21085/4	Lab Control Sample	97	97	127	121
LCSD 620-21052/5	Lab Control Sample Dup	99	95	102	97
LCSD 620-21055/5	Lab Control Sample Dup	97	95	125	120
LCSD 620-21085/5	Lab Control Sample Dup	97	93	121	119
MB 620-21052/7	Method Blank	95	94	101	96
MB 620-21055/7	Method Blank	92	95	129	128
MB 620-21085/7	Method Blank	90	97	130	129

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	TPHL	BePd12
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-10573-1	2023-MW-03	59	55	46
620-10573-2	2023-MW-04	100	76	64
620-10573-2 MS	2023-MW-04	47	45	51
620-10573-2 MSD	2023-MW-04	61	54	60
620-10573-3	2023-MW-06	90	75	50
620-10573-4	2023-MW-05	90	69	50
620-10573-5	2023-FD-01	78	68	48
LCS 620-21036/2-A	Lab Control Sample	68	55	35
LCS 620-21080/2-A	Lab Control Sample	70	67	80
LCSD 620-21036/3-A	Lab Control Sample Dup	75	61	64
LCSD 620-21080/3-A	Lab Control Sample Dup	72	62	79
MB 620-21036/1-A	Method Blank	50	47	20 S1-
MB 620-21080/1-A	Method Blank	80	65	81

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14
BePd12 = Benzo(e)pyrene-d12

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10573-1	2023-MW-03	60	40	60	24	63	63
620-10573-2	2023-MW-04	93	43	97	24	90	84
620-10573-2 MS	2023-MW-04	55	41	57	31	59	58
620-10573-2 MSD	2023-MW-04	58	41	61	30	64	64
620-10573-3	2023-MW-06	83	40	88	22	84	80
620-10573-4	2023-MW-05	83	39	85	22	81	73
620-10573-5	2023-FD-01	71	33	73	19	72	72
LCS 620-21036/13-A	Lab Control Sample	69	59	67	41	82	70
LCS 620-21080/4-A	Lab Control Sample	52	35	54	22	70	77
LCSD 620-21036/14-A	Lab Control Sample Dup	65	54	70	38	81	70
LCSD 620-21080/5-A	Lab Control Sample Dup	63	46	63	31	79	69
MB 620-21036/1-A	Method Blank	54	60	57	43	63	66
MB 620-21080/1-A	Method Blank	67	55	69	36	75	68

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		25DBTf1	25DBTp1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10573-1	2023-MW-03	85	86
620-10573-2	2023-MW-04	88	88
620-10573-2 MS	2023-MW-04	85	84
620-10573-2 MSD	2023-MW-04	91	91
620-10573-3	2023-MW-06	89	89
620-10573-4	2023-MW-05	87	88
620-10573-5	2023-FD-01	86	85
620-10573-6	2023-TB-01	81	81
LCS 620-21124/3	Lab Control Sample	86	88
LCSD 620-21124/4	Lab Control Sample Dup	88	89
MB 620-21124/6	Method Blank	88	88

Surrogate Legend

25DBTf = 2,5-Dibromotoluene (fid)
25DBTp = 2,5-Dibromotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10573-1	2023-MW-03	50	50	69	58
620-10573-2	2023-MW-04	45	37	377 S1+	55 p

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10573-2 MS	2023-MW-04	44	42	48	52
620-10573-2 MSD	2023-MW-04	60	58	86	62
620-10573-3	2023-MW-06	60	60	70	59
620-10573-4	2023-MW-05	33	32	44	38
620-10573-5	2023-FD-01	63	58	69	66
LCS 620-21137/2-A	Lab Control Sample	54	52	84	67
LCSD 620-21137/3-A	Lab Control Sample Dup	58	56	95	75
MB 620-21137/1-A	Method Blank	92	92	99	81

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21052/7
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 13:24	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 13:24	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 13:24	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 13:24	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 13:24	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 13:24	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 13:24	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 13:24	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 13:24	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 13:24	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 13:24	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 13:24	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 13:24	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 13:24	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 13:24	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 13:24	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 13:24	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 13:24	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 13:24	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 13:24	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 13:24	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 13:24	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 13:24	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 13:24	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 13:24	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 13:24	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 13:24	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 13:24	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 13:24	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 13:24	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 13:24	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 13:24	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 13:24	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 13:24	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 13:24	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 13:24	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 13:24	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 13:24	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 13:24	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 13:24	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 13:24	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 13:24	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 13:24	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 13:24	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 13:24	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 13:24	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 13:24	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21052/7
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 13:24	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 13:24	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 13:24	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 13:24	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 13:24	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 13:24	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 13:24	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 13:24	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 13:24	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 13:24	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 13:24	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 13:24	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 13:24	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 13:24	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 13:24	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 13:24	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 13:24	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 13:24	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 13:24	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 13:24	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 13:24	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 13:24	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 13:24	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 13:24	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 13:24	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 13:24	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 13:24	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 13:24	1
Ethanol	ND		200	9.08	ug/L			04/04/23 13:24	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 13:24	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 13:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/04/23 13:24*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/04/23 13:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/04/23 13:24*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*04/04/23 13:24*	*1*

Lab Sample ID: LCS 620-21052/4
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.15		ug/L		91	70 - 130
Acetone	20.0	21.73		ug/L		109	70 - 130
Acrylonitrile	20.0	18.57		ug/L		93	70 - 130
Benzene	20.0	19.39		ug/L		97	70 - 130
Bromobenzene	20.0	20.72		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21052/4
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	18.81		ug/L		94	70 - 130
Bromodichloromethane	20.0	18.23		ug/L		91	70 - 130
Bromoform	20.0	21.28		ug/L		106	70 - 130
Bromomethane	20.0	16.33		ug/L		82	70 - 130
2-Butanone (MEK)	20.0	21.63		ug/L		108	70 - 130
n-Butylbenzene	20.0	21.50		ug/L		107	70 - 130
sec-Butylbenzene	20.0	20.15		ug/L		101	70 - 130
tert-Butylbenzene	20.0	18.55		ug/L		93	70 - 130
Carbon disulfide	20.0	18.32		ug/L		92	70 - 130
Carbon tetrachloride	20.0	18.34		ug/L		92	70 - 130
Chlorobenzene	20.0	20.36		ug/L		102	70 - 130
Chloroethane	20.0	20.13		ug/L		101	70 - 130
Chloroform	20.0	18.32		ug/L		92	70 - 130
Chloromethane	20.0	20.36		ug/L		102	70 - 130
2-Chlorotoluene	20.0	23.06		ug/L		115	70 - 130
4-Chlorotoluene	20.0	23.40		ug/L		117	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	23.03		ug/L		115	70 - 130
Dibromochloromethane	20.0	18.44		ug/L		92	70 - 130
1,2-Dibromoethane (EDB)	20.0	19.45		ug/L		97	70 - 130
Dibromomethane	20.0	18.84		ug/L		94	70 - 130
1,2-Dichlorobenzene	20.0	23.19		ug/L		116	70 - 130
1,3-Dichlorobenzene	20.0	22.48		ug/L		112	70 - 130
1,4-Dichlorobenzene	20.0	20.85		ug/L		104	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	24.06		ug/L		120	70 - 130
1,1-Dichloroethane	20.0	18.72		ug/L		94	70 - 130
1,2-Dichloroethane	20.0	18.98		ug/L		95	70 - 130
1,1-Dichloroethene	20.0	18.48		ug/L		92	70 - 130
cis-1,2-Dichloroethene	20.0	18.03		ug/L		90	70 - 130
trans-1,2-Dichloroethene	20.0	18.54		ug/L		93	70 - 130
1,2-Dichloropropane	20.0	19.03		ug/L		95	70 - 130
1,3-Dichloropropane	20.0	19.57		ug/L		98	70 - 130
2,2-Dichloropropane	20.0	18.23		ug/L		91	70 - 130
1,1-Dichloropropene	20.0	20.09		ug/L		100	70 - 130
cis-1,3-Dichloropropene	20.0	19.12		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	21.02		ug/L		105	70 - 130
Ethylbenzene	20.0	21.76		ug/L		109	70 - 130
Hexachlorobutadiene	20.0	24.62		ug/L		123	70 - 130
2-Hexanone (MBK)	20.0	18.76		ug/L		94	70 - 130
Isopropylbenzene	20.0	20.58		ug/L		103	70 - 130
4-Isopropyltoluene	20.0	21.88		ug/L		109	70 - 130
Methyl tert-butyl ether	20.0	19.92		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	20.47		ug/L		102	70 - 130
Methylene Chloride	20.0	18.13		ug/L		91	70 - 130
Naphthalene	20.0	23.20		ug/L		116	70 - 130
N-Propylbenzene	20.0	22.89		ug/L		114	70 - 130
Styrene	20.0	21.08		ug/L		105	70 - 130
1,1,1,2-Tetrachloroethane	20.0	20.39		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	20.0	21.35		ug/L		107	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21052/4
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	20.0	18.91		ug/L		95	70 - 130
Toluene	20.0	18.94		ug/L		95	70 - 130
1,2,3-Trichlorobenzene	20.0	25.03		ug/L		125	70 - 130
1,2,4-Trichlorobenzene	20.0	21.27		ug/L		106	70 - 130
1,3,5-Trichlorobenzene	20.0	24.06		ug/L		120	70 - 130
1,1,1-Trichloroethane	20.0	18.40		ug/L		92	70 - 130
1,1,2-Trichloroethane	20.0	18.87		ug/L		94	70 - 130
Trichloroethene	20.0	18.49		ug/L		92	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	18.15		ug/L		91	70 - 130
1,2,3-Trichloropropane	20.0	21.74		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	20.0	20.71		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	20.0	20.74		ug/L		104	70 - 130
Vinyl chloride	20.0	19.12		ug/L		96	70 - 130
m,p-Xylene	20.0	23.40		ug/L		117	70 - 130
o-Xylene	20.0	20.51		ug/L		103	70 - 130
Tetrahydrofuran	20.0	19.41		ug/L		97	70 - 130
Ethyl ether	20.0	19.80		ug/L		99	70 - 130
Tert-amyl methyl ether	20.0	19.51		ug/L		98	70 - 130
Ethyl tert-butyl ether	20.0	17.65		ug/L		88	70 - 130
di-Isopropyl ether	20.0	20.24		ug/L		101	70 - 130
tert-Butanol	200	201.1		ug/L		101	70 - 130
1,4-Dioxane	200	184.9		ug/L		92	70 - 130
trans-1,4-Dichloro-2-butene	20.0	16.65		ug/L		83	70 - 130
Ethanol	400	331.9		ug/L		83	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 620-21052/5
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	17.54		ug/L		88	70 - 130	3	20
Acetone	20.0	18.82		ug/L		94	70 - 130	14	20
Acrylonitrile	20.0	18.37		ug/L		92	70 - 130	1	20
Benzene	20.0	18.86		ug/L		94	70 - 130	3	20
Bromobenzene	20.0	20.58		ug/L		103	70 - 130	1	20
Bromochloromethane	20.0	18.44		ug/L		92	70 - 130	2	20
Bromodichloromethane	20.0	17.65		ug/L		88	70 - 130	3	20
Bromoform	20.0	20.66		ug/L		103	70 - 130	3	20
Bromomethane	20.0	16.41		ug/L		82	70 - 130	0	20
2-Butanone (MEK)	20.0	20.18		ug/L		101	70 - 130	7	20
n-Butylbenzene	20.0	20.69		ug/L		103	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21052/5
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	19.41		ug/L		97	70 - 130	4	20
tert-Butylbenzene	20.0	18.19		ug/L		91	70 - 130	2	20
Carbon disulfide	20.0	17.68		ug/L		88	70 - 130	4	20
Carbon tetrachloride	20.0	17.82		ug/L		89	70 - 130	3	20
Chlorobenzene	20.0	19.85		ug/L		99	70 - 130	3	20
Chloroethane	20.0	18.86		ug/L		94	70 - 130	7	20
Chloroform	20.0	17.80		ug/L		89	70 - 130	3	20
Chloromethane	20.0	19.59		ug/L		98	70 - 130	4	20
2-Chlorotoluene	20.0	22.42		ug/L		112	70 - 130	3	20
4-Chlorotoluene	20.0	22.71		ug/L		114	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	20.0	22.12		ug/L		111	70 - 130	4	20
Dibromochloromethane	20.0	17.82		ug/L		89	70 - 130	3	20
1,2-Dibromoethane (EDB)	20.0	19.03		ug/L		95	70 - 130	2	20
Dibromomethane	20.0	18.10		ug/L		91	70 - 130	4	20
1,2-Dichlorobenzene	20.0	22.49		ug/L		112	70 - 130	3	20
1,3-Dichlorobenzene	20.0	21.84		ug/L		109	70 - 130	3	20
1,4-Dichlorobenzene	20.0	19.79		ug/L		99	70 - 130	5	20
Dichlorodifluoromethane (Freon 12)	20.0	23.63		ug/L		118	70 - 130	2	20
1,1-Dichloroethane	20.0	18.34		ug/L		92	70 - 130	2	20
1,2-Dichloroethane	20.0	18.71		ug/L		94	70 - 130	1	20
1,1-Dichloroethene	20.0	18.33		ug/L		92	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	17.75		ug/L		89	70 - 130	2	20
trans-1,2-Dichloroethene	20.0	17.97		ug/L		90	70 - 130	3	20
1,2-Dichloropropane	20.0	18.62		ug/L		93	70 - 130	2	20
1,3-Dichloropropane	20.0	19.02		ug/L		95	70 - 130	3	20
2,2-Dichloropropane	20.0	17.74		ug/L		89	70 - 130	3	20
1,1-Dichloropropene	20.0	19.87		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene	20.0	18.86		ug/L		94	70 - 130	1	20
trans-1,3-Dichloropropene	20.0	20.57		ug/L		103	70 - 130	2	20
Ethylbenzene	20.0	21.24		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	20.0	23.40		ug/L		117	70 - 130	5	20
2-Hexanone (MBK)	20.0	18.59		ug/L		93	70 - 130	1	20
Isopropylbenzene	20.0	20.24		ug/L		101	70 - 130	2	20
4-Isopropyltoluene	20.0	21.01		ug/L		105	70 - 130	4	20
Methyl tert-butyl ether	20.0	19.67		ug/L		98	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	20.36		ug/L		102	70 - 130	1	20
Methylene Chloride	20.0	17.74		ug/L		89	70 - 130	2	20
Naphthalene	20.0	22.28		ug/L		111	70 - 130	4	20
N-Propylbenzene	20.0	22.21		ug/L		111	70 - 130	3	20
Styrene	20.0	20.47		ug/L		102	70 - 130	3	20
1,1,1,2-Tetrachloroethane	20.0	19.79		ug/L		99	70 - 130	3	20
1,1,2,2-Tetrachloroethane	20.0	20.67		ug/L		103	70 - 130	3	20
Tetrachloroethene	20.0	18.53		ug/L		93	70 - 130	2	20
Toluene	20.0	18.32		ug/L		92	70 - 130	3	20
1,2,3-Trichlorobenzene	20.0	23.82		ug/L		119	70 - 130	5	20
1,2,4-Trichlorobenzene	20.0	20.65		ug/L		103	70 - 130	3	20
1,3,5-Trichlorobenzene	20.0	22.84		ug/L		114	70 - 130	5	20
1,1,1-Trichloroethane	20.0	17.91		ug/L		90	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21052/5
Matrix: Water
Analysis Batch: 21052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	20.0	18.19		ug/L		91	70 - 130	4	20
Trichloroethene	20.0	17.88		ug/L		89	70 - 130	3	20
Trichlorofluoromethane (Freon 11)	20.0	17.58		ug/L		88	70 - 130	3	20
1,2,3-Trichloropropane	20.0	20.97		ug/L		105	70 - 130	4	20
1,2,4-Trimethylbenzene	20.0	20.08		ug/L		100	70 - 130	3	20
1,3,5-Trimethylbenzene	20.0	20.15		ug/L		101	70 - 130	3	20
Vinyl chloride	20.0	19.06		ug/L		95	70 - 130	0	20
m,p-Xylene	20.0	22.85		ug/L		114	70 - 130	2	20
o-Xylene	20.0	20.27		ug/L		101	70 - 130	1	20
Tetrahydrofuran	20.0	19.74		ug/L		99	70 - 130	2	20
Ethyl ether	20.0	19.37		ug/L		97	70 - 130	2	20
Tert-amyl methyl ether	20.0	19.24		ug/L		96	70 - 130	1	20
Ethyl tert-butyl ether	20.0	17.70		ug/L		88	70 - 130	0	20
di-Isopropyl ether	20.0	20.11		ug/L		101	70 - 130	1	20
tert-Butanol	200	200.9		ug/L		100	70 - 130	0	20
1,4-Dioxane	200	184.4		ug/L		92	70 - 130	0	20
trans-1,4-Dichloro-2-butene	20.0	15.44		ug/L		77	70 - 130	8	20
Ethanol	400	303.6		ug/L		76	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 13:46	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 13:46	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 13:46	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 13:46	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 13:46	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 13:46	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 13:46	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 13:46	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 13:46	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 13:46	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 13:46	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 13:46	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 13:46	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 13:46	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 13:46	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 13:46	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 13:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.00	0.297	ug/L			04/04/23 13:46	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 13:46	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 13:46	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 13:46	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 13:46	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 13:46	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 13:46	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 13:46	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 13:46	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 13:46	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 13:46	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 13:46	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 13:46	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 13:46	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 13:46	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 13:46	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 13:46	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 13:46	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 13:46	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 13:46	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 13:46	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 13:46	1
Hexachlorobutadiene	0.2954	J	1.00	0.236	ug/L			04/04/23 13:46	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 13:46	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 13:46	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 13:46	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 13:46	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 13:46	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 13:46	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 13:46	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 13:46	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 13:46	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 13:46	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 13:46	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 13:46	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 13:46	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 13:46	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 13:46	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 13:46	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 13:46	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 13:46	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 13:46	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 13:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 13:46	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 13:46	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 13:46	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 13:46	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 13:46	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 13:46	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 13:46	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 13:46	1
Ethanol	ND		200	9.08	ug/L			04/04/23 13:46	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/04/23 13:46*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 13:46*	*1*
Dibromofluoromethane (Surr)	*128*		*70 - 130*		*04/04/23 13:46*	*1*

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.82		ug/L		94	70 - 130
Acetone	20.0	16.28		ug/L		81	70 - 130
Acrylonitrile	20.0	17.49		ug/L		87	70 - 130
Benzene	20.0	19.86		ug/L		99	70 - 130
Bromobenzene	20.0	19.22		ug/L		96	70 - 130
Bromochloromethane	20.0	23.80		ug/L		119	70 - 130
Bromodichloromethane	20.0	22.21		ug/L		111	70 - 130
Bromoform	20.0	22.19		ug/L		111	70 - 130
Bromomethane	20.0	25.77		ug/L		129	70 - 130
2-Butanone (MEK)	20.0	13.01	*-	ug/L		65	70 - 130
n-Butylbenzene	20.0	21.15		ug/L		106	70 - 130
sec-Butylbenzene	20.0	21.18		ug/L		106	70 - 130
tert-Butylbenzene	20.0	19.21		ug/L		96	70 - 130
Carbon disulfide	20.0	19.74		ug/L		99	70 - 130
Carbon tetrachloride	20.0	20.47		ug/L		102	70 - 130
Chlorobenzene	20.0	22.08		ug/L		110	70 - 130
Chloroethane	20.0	17.58		ug/L		88	70 - 130
Chloroform	20.0	20.49		ug/L		102	70 - 130
Chloromethane	20.0	19.69		ug/L		98	70 - 130
2-Chlorotoluene	20.0	21.06		ug/L		105	70 - 130
4-Chlorotoluene	20.0	21.03		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	21.43		ug/L		107	70 - 130
Dibromochloromethane	20.0	22.01		ug/L		110	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	20.14		ug/L		101	70 - 130
Dibromomethane	20.0	24.55		ug/L		123	70 - 130
1,2-Dichlorobenzene	20.0	23.81		ug/L		119	70 - 130
1,3-Dichlorobenzene	20.0	19.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	21.85		ug/L		109	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.59	*-	ug/L		63	70 - 130
1,1-Dichloroethane	20.0	18.20		ug/L		91	70 - 130
1,2-Dichloroethane	20.0	23.32		ug/L		117	70 - 130
1,1-Dichloroethene	20.0	18.02		ug/L		90	70 - 130
cis-1,2-Dichloroethene	20.0	21.80		ug/L		109	70 - 130
trans-1,2-Dichloroethene	20.0	19.35		ug/L		97	70 - 130
1,2-Dichloropropane	20.0	21.69		ug/L		108	70 - 130
1,3-Dichloropropane	20.0	19.01		ug/L		95	70 - 130
2,2-Dichloropropane	20.0	17.94		ug/L		90	70 - 130
1,1-Dichloropropene	20.0	17.55		ug/L		88	70 - 130
cis-1,3-Dichloropropene	20.0	19.57		ug/L		98	70 - 130
trans-1,3-Dichloropropene	20.0	20.59		ug/L		103	70 - 130
Ethylbenzene	20.0	21.90		ug/L		109	70 - 130
Hexachlorobutadiene	20.0	19.79		ug/L		99	70 - 130
2-Hexanone (MBK)	20.0	16.55		ug/L		83	70 - 130
Isopropylbenzene	20.0	19.59		ug/L		98	70 - 130
4-Isopropyltoluene	20.0	21.47		ug/L		107	70 - 130
Methyl tert-butyl ether	20.0	16.76		ug/L		84	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.14		ug/L		96	70 - 130
Methylene Chloride	20.0	18.32		ug/L		92	70 - 130
Naphthalene	20.0	17.58		ug/L		88	70 - 130
N-Propylbenzene	20.0	20.08		ug/L		100	70 - 130
Styrene	20.0	19.99		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	20.0	21.89		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.40		ug/L		112	70 - 130
Tetrachloroethene	20.0	18.11		ug/L		91	70 - 130
Toluene	20.0	19.13		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	20.0	18.64		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	20.0	18.05		ug/L		90	70 - 130
1,3,5-Trichlorobenzene	20.0	20.68		ug/L		103	70 - 130
1,1,1-Trichloroethane	20.0	18.92		ug/L		95	70 - 130
1,1,2-Trichloroethane	20.0	21.21		ug/L		106	70 - 130
Trichloroethene	20.0	17.83		ug/L		89	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	21.08		ug/L		105	70 - 130
1,2,3-Trichloropropane	20.0	19.67		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	20.0	21.82		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	20.0	21.64		ug/L		108	70 - 130
Vinyl chloride	20.0	18.38		ug/L		92	70 - 130
m,p-Xylene	40.0	47.21		ug/L		118	70 - 130
o-Xylene	20.0	22.60		ug/L		113	70 - 130
Tetrahydrofuran	20.0	16.39		ug/L		82	70 - 130
Ethyl ether	20.0	19.77		ug/L		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	20.0	15.79		ug/L		79	70 - 130
Ethyl tert-butyl ether	20.0	17.64		ug/L		88	70 - 130
di-Isopropyl ether	20.0	19.04		ug/L		95	70 - 130
tert-Butanol	200	162.1		ug/L		81	70 - 130
1,4-Dioxane	200	117.6	*-	ug/L		59	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.23		ug/L		101	70 - 130
Ethanol	400	274.5	*-	ug/L		69	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.37		ug/L		92	70 - 130	2	20
Acetone	20.0	15.64		ug/L		78	70 - 130	4	20
Acrylonitrile	20.0	17.62		ug/L		88	70 - 130	1	20
Benzene	20.0	19.57		ug/L		98	70 - 130	1	20
Bromobenzene	20.0	19.44		ug/L		97	70 - 130	1	20
Bromochloromethane	20.0	21.50		ug/L		108	70 - 130	10	20
Bromodichloromethane	20.0	21.62		ug/L		108	70 - 130	3	20
Bromoform	20.0	22.61		ug/L		113	70 - 130	2	20
Bromomethane	20.0	25.19		ug/L		126	70 - 130	2	20
2-Butanone (MEK)	20.0	12.56	*-	ug/L		63	70 - 130	3	20
n-Butylbenzene	20.0	21.32		ug/L		107	70 - 130	1	20
sec-Butylbenzene	20.0	20.95		ug/L		105	70 - 130	1	20
tert-Butylbenzene	20.0	19.08		ug/L		95	70 - 130	1	20
Carbon disulfide	20.0	19.06		ug/L		95	70 - 130	4	20
Carbon tetrachloride	20.0	20.39		ug/L		102	70 - 130	0	20
Chlorobenzene	20.0	22.14		ug/L		111	70 - 130	0	20
Chloroethane	20.0	18.44		ug/L		92	70 - 130	5	20
Chloroform	20.0	20.37		ug/L		102	70 - 130	1	20
Chloromethane	20.0	19.46		ug/L		97	70 - 130	1	20
2-Chlorotoluene	20.0	21.28		ug/L		106	70 - 130	1	20
4-Chlorotoluene	20.0	21.05		ug/L		105	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	20.0	22.17		ug/L		111	70 - 130	3	20
Dibromochloromethane	20.0	21.81		ug/L		109	70 - 130	1	20
1,2-Dibromoethane (EDB)	20.0	20.17		ug/L		101	70 - 130	0	20
Dibromomethane	20.0	25.20		ug/L		126	70 - 130	3	20
1,2-Dichlorobenzene	20.0	23.92		ug/L		120	70 - 130	0	20
1,3-Dichlorobenzene	20.0	19.98		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	20.0	21.79		ug/L		109	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	20.0	12.44	*-	ug/L		62	70 - 130	1	20
1,1-Dichloroethane	20.0	18.04		ug/L		90	70 - 130	1	20
1,2-Dichloroethane	20.0	23.31		ug/L		117	70 - 130	0	20
1,1-Dichloroethene	20.0	17.89		ug/L		89	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	19.98		ug/L		100	70 - 130	9	20
trans-1,2-Dichloroethene	20.0	20.44		ug/L		102	70 - 130	5	20
1,2-Dichloropropane	20.0	21.61		ug/L		108	70 - 130	0	20
1,3-Dichloropropane	20.0	19.16		ug/L		96	70 - 130	1	20
2,2-Dichloropropane	20.0	17.83		ug/L		89	70 - 130	1	20
1,1-Dichloropropene	20.0	17.60		ug/L		88	70 - 130	0	20
cis-1,3-Dichloropropene	20.0	19.65		ug/L		98	70 - 130	0	20
trans-1,3-Dichloropropene	20.0	20.76		ug/L		104	70 - 130	1	20
Ethylbenzene	20.0	22.08		ug/L		110	70 - 130	1	20
Hexachlorobutadiene	20.0	19.95		ug/L		100	70 - 130	1	20
2-Hexanone (MBK)	20.0	16.30		ug/L		82	70 - 130	2	20
Isopropylbenzene	20.0	19.63		ug/L		98	70 - 130	0	20
4-Isopropyltoluene	20.0	21.65		ug/L		108	70 - 130	1	20
Methyl tert-butyl ether	20.0	16.71		ug/L		84	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	20.0	19.41		ug/L		97	70 - 130	1	20
Methylene Chloride	20.0	19.45		ug/L		97	70 - 130	6	20
Naphthalene	20.0	17.61		ug/L		88	70 - 130	0	20
N-Propylbenzene	20.0	20.07		ug/L		100	70 - 130	0	20
Styrene	20.0	20.26		ug/L		101	70 - 130	1	20
1,1,1,2-Tetrachloroethane	20.0	22.05		ug/L		110	70 - 130	1	20
1,1,2,2-Tetrachloroethane	20.0	22.63		ug/L		113	70 - 130	1	20
Tetrachloroethene	20.0	17.85		ug/L		89	70 - 130	1	20
Toluene	20.0	19.01		ug/L		95	70 - 130	1	20
1,2,3-Trichlorobenzene	20.0	18.85		ug/L		94	70 - 130	1	20
1,2,4-Trichlorobenzene	20.0	18.28		ug/L		91	70 - 130	1	20
1,3,5-Trichlorobenzene	20.0	21.07		ug/L		105	70 - 130	2	20
1,1,1-Trichloroethane	20.0	18.84		ug/L		94	70 - 130	0	20
1,1,2-Trichloroethane	20.0	20.99		ug/L		105	70 - 130	1	20
Trichloroethene	20.0	17.36		ug/L		87	70 - 130	3	20
Trichlorofluoromethane (Freon 11)	20.0	20.83		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane	20.0	19.94		ug/L		100	70 - 130	1	20
1,2,4-Trimethylbenzene	20.0	21.99		ug/L		110	70 - 130	1	20
1,3,5-Trimethylbenzene	20.0	21.63		ug/L		108	70 - 130	0	20
Vinyl chloride	20.0	18.49		ug/L		92	70 - 130	1	20
m,p-Xylene	40.0	47.69		ug/L		119	70 - 130	1	20
o-Xylene	20.0	22.86		ug/L		114	70 - 130	1	20
Tetrahydrofuran	20.0	19.27		ug/L		96	70 - 130	16	20
Ethyl ether	20.0	19.81		ug/L		99	70 - 130	0	20
Tert-amyl methyl ether	20.0	15.57		ug/L		78	70 - 130	1	20
Ethyl tert-butyl ether	20.0	17.63		ug/L		88	70 - 130	0	20
di-Isopropyl ether	20.0	19.11		ug/L		96	70 - 130	0	20
tert-Butanol	200	157.3		ug/L		79	70 - 130	3	20
1,4-Dioxane	200	111.3	*-	ug/L		56	70 - 130	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			20.0	20.78		ug/L		104	70 - 130	3	20
Ethanol			400	328.7		ug/L		82	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: MB 620-21085/7
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/05/23 13:06	1
Acetone	ND		10.0	0.902	ug/L			04/05/23 13:06	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/05/23 13:06	1
Benzene	ND		1.00	0.250	ug/L			04/05/23 13:06	1
Bromobenzene	ND		1.00	0.403	ug/L			04/05/23 13:06	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/05/23 13:06	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/05/23 13:06	1
Bromoform	ND		1.00	0.454	ug/L			04/05/23 13:06	1
Bromomethane	ND		2.00	0.627	ug/L			04/05/23 13:06	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/05/23 13:06	1
n-Butylbenzene	0.6185	J	1.00	0.450	ug/L			04/05/23 13:06	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/05/23 13:06	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/05/23 13:06	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/05/23 13:06	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/05/23 13:06	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/05/23 13:06	1
Chloroethane	ND		2.00	0.405	ug/L			04/05/23 13:06	1
Chloroform	ND		1.00	0.297	ug/L			04/05/23 13:06	1
Chloromethane	ND		2.00	0.485	ug/L			04/05/23 13:06	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/05/23 13:06	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/05/23 13:06	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/05/23 13:06	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/05/23 13:06	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/05/23 13:06	1
Dibromomethane	ND		1.00	0.364	ug/L			04/05/23 13:06	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/05/23 13:06	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/05/23 13:06	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/05/23 13:06	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/05/23 13:06	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/05/23 13:06	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/05/23 13:06	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/05/23 13:06	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/05/23 13:06	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/05/23 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21085/7
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/05/23 13:06	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/05/23 13:06	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/05/23 13:06	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/05/23 13:06	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/05/23 13:06	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/05/23 13:06	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/05/23 13:06	1
Hexachlorobutadiene	0.3338	J	1.00	0.236	ug/L			04/05/23 13:06	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/05/23 13:06	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/05/23 13:06	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/05/23 13:06	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/05/23 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/05/23 13:06	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/05/23 13:06	1
Naphthalene	ND		2.00	0.696	ug/L			04/05/23 13:06	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/05/23 13:06	1
Styrene	ND		1.00	0.419	ug/L			04/05/23 13:06	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/05/23 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/05/23 13:06	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/05/23 13:06	1
Toluene	ND		1.00	0.283	ug/L			04/05/23 13:06	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/05/23 13:06	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/05/23 13:06	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/05/23 13:06	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/05/23 13:06	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/05/23 13:06	1
Trichloroethene	ND		1.00	0.364	ug/L			04/05/23 13:06	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/05/23 13:06	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/05/23 13:06	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/05/23 13:06	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/05/23 13:06	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/05/23 13:06	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/05/23 13:06	1
o-Xylene	ND		1.00	0.428	ug/L			04/05/23 13:06	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/05/23 13:06	1
Ethyl ether	ND		1.00	0.421	ug/L			04/05/23 13:06	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/05/23 13:06	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/05/23 13:06	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/05/23 13:06	1
tert-Butanol	ND		10.0	8.52	ug/L			04/05/23 13:06	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/05/23 13:06	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/05/23 13:06	1
Ethanol	ND		200	9.08	ug/L			04/05/23 13:06	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/05/23 13:06	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/05/23 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/05/23 13:06*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21085/7
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/05/23 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*		*04/05/23 13:06*	*1*
Dibromofluoromethane (Surr)	*129*		*70 - 130*		*04/05/23 13:06*	*1*

Lab Sample ID: LCS 620-21085/4
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	19.29		ug/L		96	70 - 130
Acetone	20.0	15.17		ug/L		76	70 - 130
Acrylonitrile	20.0	17.48		ug/L		87	70 - 130
Benzene	20.0	20.57		ug/L		103	70 - 130
Bromobenzene	20.0	20.07		ug/L		100	70 - 130
Bromochloromethane	20.0	22.69		ug/L		113	70 - 130
Bromodichloromethane	20.0	22.82		ug/L		114	70 - 130
Bromoform	20.0	23.18		ug/L		116	70 - 130
Bromomethane	20.0	26.65	*+	ug/L		133	70 - 130
2-Butanone (MEK)	20.0	23.16		ug/L		116	70 - 130
n-Butylbenzene	20.0	22.10		ug/L		111	70 - 130
sec-Butylbenzene	20.0	22.13		ug/L		111	70 - 130
tert-Butylbenzene	20.0	19.78		ug/L		99	70 - 130
Carbon disulfide	20.0	20.27		ug/L		101	70 - 130
Carbon tetrachloride	20.0	21.52		ug/L		108	70 - 130
Chlorobenzene	20.0	22.77		ug/L		114	70 - 130
Chloroethane	20.0	19.11		ug/L		96	70 - 130
Chloroform	20.0	21.51		ug/L		108	70 - 130
Chloromethane	20.0	20.15		ug/L		101	70 - 130
2-Chlorotoluene	20.0	22.00		ug/L		110	70 - 130
4-Chlorotoluene	20.0	21.80		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	23.50		ug/L		117	70 - 130
Dibromochloromethane	20.0	22.78		ug/L		114	70 - 130
1,2-Dibromoethane (EDB)	20.0	20.80		ug/L		104	70 - 130
Dibromomethane	20.0	25.81		ug/L		129	70 - 130
1,2-Dichlorobenzene	20.0	24.67		ug/L		123	70 - 130
1,3-Dichlorobenzene	20.0	20.71		ug/L		104	70 - 130
1,4-Dichlorobenzene	20.0	22.63		ug/L		113	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.37	*-	ug/L		62	70 - 130
1,1-Dichloroethane	20.0	19.00		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	22.96		ug/L		115	70 - 130
1,1-Dichloroethene	20.0	20.39		ug/L		102	70 - 130
cis-1,2-Dichloroethene	20.0	19.88		ug/L		99	70 - 130
trans-1,2-Dichloroethene	20.0	21.34		ug/L		107	70 - 130
1,2-Dichloropropane	20.0	22.72		ug/L		114	70 - 130
1,3-Dichloropropane	20.0	19.88		ug/L		99	70 - 130
2,2-Dichloropropane	20.0	18.15		ug/L		91	70 - 130
1,1-Dichloropropene	20.0	18.55		ug/L		93	70 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21085/4
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	20.0	20.34		ug/L		102	70 - 130
trans-1,3-Dichloropropene	20.0	21.02		ug/L		105	70 - 130
Ethylbenzene	20.0	22.98		ug/L		115	70 - 130
Hexachlorobutadiene	20.0	20.50		ug/L		103	70 - 130
2-Hexanone (MBK)	20.0	16.77		ug/L		84	70 - 130
Isopropylbenzene	20.0	20.50		ug/L		103	70 - 130
4-Isopropyltoluene	20.0	22.50		ug/L		113	70 - 130
Methyl tert-butyl ether	20.0	16.96		ug/L		85	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.30		ug/L		96	70 - 130
Methylene Chloride	20.0	18.24		ug/L		91	70 - 130
Naphthalene	20.0	18.31		ug/L		92	70 - 130
N-Propylbenzene	20.0	21.09		ug/L		105	70 - 130
Styrene	20.0	21.14		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	20.0	22.76		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	20.0	23.33		ug/L		117	70 - 130
Tetrachloroethene	20.0	18.59		ug/L		93	70 - 130
Toluene	20.0	19.91		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	20.0	19.44		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	20.0	18.72		ug/L		94	70 - 130
1,3,5-Trichlorobenzene	20.0	21.63		ug/L		108	70 - 130
1,1,1-Trichloroethane	20.0	19.68		ug/L		98	70 - 130
1,1,2-Trichloroethane	20.0	21.73		ug/L		109	70 - 130
Trichloroethene	20.0	18.60		ug/L		93	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	21.57		ug/L		108	70 - 130
1,2,3-Trichloropropane	20.0	20.80		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	20.0	22.88		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	20.0	22.44		ug/L		112	70 - 130
Vinyl chloride	20.0	19.51		ug/L		98	70 - 130
m,p-Xylene	40.0	49.18		ug/L		123	70 - 130
o-Xylene	20.0	23.59		ug/L		118	70 - 130
Tetrahydrofuran	20.0	15.44		ug/L		77	70 - 130
Ethyl ether	20.0	20.58		ug/L		103	70 - 130
Tert-amyl methyl ether	20.0	15.83		ug/L		79	70 - 130
Ethyl tert-butyl ether	20.0	18.10		ug/L		91	70 - 130
di-Isopropyl ether	20.0	19.63		ug/L		98	70 - 130
tert-Butanol	200	165.7		ug/L		83	70 - 130
1,4-Dioxane	200	117.1	*-	ug/L		59	70 - 130
trans-1,4-Dichloro-2-butene	20.0	21.03		ug/L		105	70 - 130
Ethanol	400	328.6		ug/L		82	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*127*		*70 - 130*
Dibromofluoromethane (Surr)	*121*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21085/5
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.76		ug/L		94	70 - 130	3	20
Acetone	20.0	14.61		ug/L		73	70 - 130	4	20
Acrylonitrile	20.0	17.96		ug/L		90	70 - 130	3	20
Benzene	20.0	19.76		ug/L		99	70 - 130	4	20
Bromobenzene	20.0	20.02		ug/L		100	70 - 130	0	20
Bromochloromethane	20.0	20.91		ug/L		105	70 - 130	8	20
Bromodichloromethane	20.0	22.16		ug/L		111	70 - 130	3	20
Bromoform	20.0	22.85		ug/L		114	70 - 130	1	20
Bromomethane	20.0	25.79		ug/L		129	70 - 130	3	20
2-Butanone (MEK)	20.0	21.56		ug/L		108	70 - 130	7	20
n-Butylbenzene	20.0	21.90		ug/L		109	70 - 130	1	20
sec-Butylbenzene	20.0	21.69		ug/L		108	70 - 130	2	20
tert-Butylbenzene	20.0	19.20		ug/L		96	70 - 130	3	20
Carbon disulfide	20.0	19.94		ug/L		100	70 - 130	2	20
Carbon tetrachloride	20.0	20.72		ug/L		104	70 - 130	4	20
Chlorobenzene	20.0	22.56		ug/L		113	70 - 130	1	20
Chloroethane	20.0	19.17		ug/L		96	70 - 130	0	20
Chloroform	20.0	20.85		ug/L		104	70 - 130	3	20
Chloromethane	20.0	19.88		ug/L		99	70 - 130	1	20
2-Chlorotoluene	20.0	21.62		ug/L		108	70 - 130	2	20
4-Chlorotoluene	20.0	21.59		ug/L		108	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	20.0	22.90		ug/L		115	70 - 130	3	20
Dibromochloromethane	20.0	21.84		ug/L		109	70 - 130	4	20
1,2-Dibromoethane (EDB)	20.0	19.91		ug/L		100	70 - 130	4	20
Dibromomethane	20.0	26.31	*+	ug/L		132	70 - 130	2	20
1,2-Dichlorobenzene	20.0	24.29		ug/L		121	70 - 130	2	20
1,3-Dichlorobenzene	20.0	20.41		ug/L		102	70 - 130	1	20
1,4-Dichlorobenzene	20.0	22.57		ug/L		113	70 - 130	0	20
Dichlorodifluoromethane (Freon 12)	20.0	12.63	*-	ug/L		63	70 - 130	2	20
1,1-Dichloroethane	20.0	18.75		ug/L		94	70 - 130	1	20
1,2-Dichloroethane	20.0	23.12		ug/L		116	70 - 130	1	20
1,1-Dichloroethene	20.0	16.96		ug/L		85	70 - 130	18	20
cis-1,2-Dichloroethene	20.0	21.99		ug/L		110	70 - 130	10	20
trans-1,2-Dichloroethene	20.0	18.90		ug/L		94	70 - 130	12	20
1,2-Dichloropropane	20.0	22.12		ug/L		111	70 - 130	3	20
1,3-Dichloropropane	20.0	18.93		ug/L		95	70 - 130	5	20
2,2-Dichloropropane	20.0	17.54		ug/L		88	70 - 130	3	20
1,1-Dichloropropene	20.0	18.04		ug/L		90	70 - 130	3	20
cis-1,3-Dichloropropene	20.0	19.65		ug/L		98	70 - 130	3	20
trans-1,3-Dichloropropene	20.0	20.67		ug/L		103	70 - 130	2	20
Ethylbenzene	20.0	22.58		ug/L		113	70 - 130	2	20
Hexachlorobutadiene	20.0	20.42		ug/L		102	70 - 130	0	20
2-Hexanone (MBK)	20.0	15.99		ug/L		80	70 - 130	5	20
Isopropylbenzene	20.0	20.60		ug/L		103	70 - 130	0	20
4-Isopropyltoluene	20.0	22.31		ug/L		112	70 - 130	1	20
Methyl tert-butyl ether	20.0	16.71		ug/L		84	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	19.18		ug/L		96	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21085/5
Matrix: Water
Analysis Batch: 21085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylene Chloride			20.0	19.28		ug/L		96	70 - 130	6	20
Naphthalene			20.0	18.29		ug/L		91	70 - 130	0	20
N-Propylbenzene			20.0	20.85		ug/L		104	70 - 130	1	20
Styrene			20.0	21.05		ug/L		105	70 - 130	0	20
1,1,1,2-Tetrachloroethane			20.0	22.46		ug/L		112	70 - 130	1	20
1,1,2,2-Tetrachloroethane			20.0	23.07		ug/L		115	70 - 130	1	20
Tetrachloroethene			20.0	17.88		ug/L		89	70 - 130	4	20
Toluene			20.0	18.99		ug/L		95	70 - 130	5	20
1,2,3-Trichlorobenzene			20.0	19.28		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene			20.0	18.68		ug/L		93	70 - 130	0	20
1,3,5-Trichlorobenzene			20.0	21.64		ug/L		108	70 - 130	0	20
1,1,1-Trichloroethane			20.0	18.87		ug/L		94	70 - 130	4	20
1,1,2-Trichloroethane			20.0	21.07		ug/L		105	70 - 130	3	20
Trichloroethene			20.0	18.02		ug/L		90	70 - 130	3	20
Trichlorofluoromethane (Freon 11)			20.0	20.95		ug/L		105	70 - 130	3	20
1,2,3-Trichloropropane			20.0	20.11		ug/L		101	70 - 130	3	20
1,2,4-Trimethylbenzene			20.0	22.53		ug/L		113	70 - 130	2	20
1,3,5-Trimethylbenzene			20.0	22.31		ug/L		112	70 - 130	1	20
Vinyl chloride			20.0	18.74		ug/L		94	70 - 130	4	20
m,p-Xylene			40.0	48.31		ug/L		121	70 - 130	2	20
o-Xylene			20.0	23.46		ug/L		117	70 - 130	1	20
Tetrahydrofuran			20.0	16.31		ug/L		82	70 - 130	5	20
Ethyl ether			20.0	19.74		ug/L		99	70 - 130	4	20
Tert-amyl methyl ether			20.0	15.59		ug/L		78	70 - 130	2	20
Ethyl tert-butyl ether			20.0	17.91		ug/L		90	70 - 130	1	20
di-Isopropyl ether			20.0	19.19		ug/L		96	70 - 130	2	20
tert-Butanol			200	172.6		ug/L		86	70 - 130	4	20
1,4-Dioxane			200	137.0	*-	ug/L		68	70 - 130	16	20
trans-1,4-Dichloro-2-butene			20.0	20.44		ug/L		102	70 - 130	3	20
Ethanol			400	365.0		ug/L		91	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 130*
Dibromofluoromethane (Surr)	*119*		*70 - 130*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		20.3	20.46		ug/L		101	70 - 130
Acetone	ND		20.3	15.45		ug/L		76	70 - 130
Acrylonitrile	ND		20.3	18.14		ug/L		89	70 - 130
Benzene	ND		20.3	20.28		ug/L		100	70 - 130
Bromobenzene	ND		20.3	20.10		ug/L		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	ND		20.3	22.27		ug/L		109	70 - 130
Bromodichloromethane	ND		20.3	22.59		ug/L		111	70 - 130
Bromoform	ND		20.3	21.79		ug/L		107	70 - 130
Bromomethane	ND	*+	20.3	19.62		ug/L		96	70 - 130
2-Butanone (MEK)	ND		20.3	21.17		ug/L		104	70 - 130
n-Butylbenzene	ND		20.3	22.95		ug/L		113	70 - 130
sec-Butylbenzene	ND		20.3	23.29		ug/L		114	70 - 130
tert-Butylbenzene	ND		20.3	20.45		ug/L		100	70 - 130
Carbon disulfide	ND		20.3	21.77		ug/L		107	70 - 130
Carbon tetrachloride	ND		20.3	22.84		ug/L		112	70 - 130
Chlorobenzene	ND		20.3	23.35		ug/L		115	70 - 130
Chloroethane	ND		20.3	20.87		ug/L		103	70 - 130
Chloroform	ND		20.3	21.58		ug/L		106	70 - 130
Chloromethane	ND		20.3	19.64		ug/L		97	70 - 130
2-Chlorotoluene	ND		20.3	22.32		ug/L		110	70 - 130
4-Chlorotoluene	ND		20.3	21.98		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	ND		20.3	21.18		ug/L		104	70 - 130
Dibromochloromethane	ND		20.3	21.72		ug/L		107	70 - 130
1,2-Dibromoethane (EDB)	ND		20.3	19.83		ug/L		97	70 - 130
Dibromomethane	ND	*+ F1	20.3	27.05	F1	ug/L		133	70 - 130
1,2-Dichlorobenzene	ND		20.3	24.58		ug/L		121	70 - 130
1,3-Dichlorobenzene	ND		20.3	20.83		ug/L		102	70 - 130
1,4-Dichlorobenzene	ND		20.3	22.67		ug/L		111	70 - 130
Dichlorodifluoromethane (Freon 12)	ND	*- F1	20.3	13.26	F1	ug/L		65	70 - 130
1,1-Dichloroethane	ND		20.3	20.03		ug/L		98	70 - 130
1,2-Dichloroethane	ND		20.3	24.06		ug/L		118	70 - 130
1,1-Dichloroethene	ND		20.3	18.76		ug/L		92	70 - 130
cis-1,2-Dichloroethene	ND		20.3	20.46		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		20.3	19.05		ug/L		94	70 - 130
1,2-Dichloropropane	ND		20.3	22.62		ug/L		111	70 - 130
1,3-Dichloropropane	ND		20.3	19.23		ug/L		95	70 - 130
2,2-Dichloropropane	ND		20.3	18.03		ug/L		89	70 - 130
1,1-Dichloropropene	ND		20.3	18.42		ug/L		91	70 - 130
cis-1,3-Dichloropropene	ND		20.3	18.65		ug/L		92	70 - 130
trans-1,3-Dichloropropene	ND		20.3	20.05		ug/L		99	70 - 130
Ethylbenzene	ND		20.3	23.45		ug/L		115	70 - 130
Hexachlorobutadiene	ND		20.3	20.98		ug/L		103	70 - 130
2-Hexanone (MBK)	ND		20.3	14.45		ug/L		71	70 - 130
Isopropylbenzene	ND		20.3	21.38		ug/L		105	70 - 130
4-Isopropyltoluene	ND		20.3	23.04		ug/L		113	70 - 130
Methyl tert-butyl ether	ND		20.3	15.62		ug/L		77	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		20.3	17.72		ug/L		87	70 - 130
Methylene Chloride	ND		20.3	19.17		ug/L		94	70 - 130
Naphthalene	ND		20.3	17.09		ug/L		84	70 - 130
N-Propylbenzene	ND		20.3	21.80		ug/L		107	70 - 130
Styrene	ND		20.3	20.87		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	ND		20.3	22.71		ug/L		112	70 - 130
1,1,2,2-Tetrachloroethane	ND		20.3	22.58		ug/L		111	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	ND		20.3	18.81		ug/L		92	70 - 130
Toluene	ND		20.3	19.97		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	ND		20.3	18.70		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	ND		20.3	18.11		ug/L		89	70 - 130
1,3,5-Trichlorobenzene	ND		20.3	21.25		ug/L		104	70 - 130
1,1,1-Trichloroethane	ND		20.3	19.98		ug/L		98	70 - 130
1,1,2-Trichloroethane	ND		20.3	21.28		ug/L		105	70 - 130
Trichloroethene	ND		20.3	18.96		ug/L		93	70 - 130
Trichlorofluoromethane (Freon 11)	ND		20.3	22.85		ug/L		112	70 - 130
1,2,3-Trichloropropane	ND		20.3	19.37		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	ND		20.3	23.23		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	ND		20.3	23.10		ug/L		114	70 - 130
Vinyl chloride	ND		20.3	20.98		ug/L		103	70 - 130
m,p-Xylene	ND		40.7	50.56		ug/L		124	70 - 130
o-Xylene	ND		20.3	24.01		ug/L		118	70 - 130
Tetrahydrofuran	ND	F1	20.3	15.92		ug/L		78	70 - 130
Ethyl ether	ND		20.3	19.08		ug/L		94	70 - 130
Tert-amyl methyl ether	ND		20.3	14.77		ug/L		73	70 - 130
Ethyl tert-butyl ether	ND		20.3	17.06		ug/L		84	70 - 130
di-Isopropyl ether	ND		20.3	18.76		ug/L		92	70 - 130
tert-Butanol	ND		203	147.4		ug/L		72	70 - 130
1,4-Dioxane	ND	*- F1	203	116.5	F1	ug/L		57	70 - 130
trans-1,4-Dichloro-2-butene	ND		20.3	19.42		ug/L		95	70 - 130
Ethanol	ND	F1 F2	407	281.2	F1	ug/L		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*124*		*70 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		20.3	20.59		ug/L		101	70 - 130	1	20
Acetone	ND		20.3	15.35		ug/L		75	70 - 130	1	20
Acrylonitrile	ND		20.3	16.76		ug/L		82	70 - 130	8	20
Benzene	ND		20.3	20.66		ug/L		102	70 - 130	2	20
Bromobenzene	ND		20.3	20.30		ug/L		100	70 - 130	1	20
Bromochloromethane	ND		20.3	21.58		ug/L		106	70 - 130	3	20
Bromodichloromethane	ND		20.3	22.56		ug/L		111	70 - 130	0	20
Bromoform	ND		20.3	22.21		ug/L		109	70 - 130	2	20
Bromomethane	ND	*+	20.3	20.26		ug/L		100	70 - 130	3	20
2-Butanone (MEK)	ND		20.3	21.51		ug/L		106	70 - 130	2	20
n-Butylbenzene	ND		20.3	23.62		ug/L		116	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	ND		20.3	23.52		ug/L		116	70 - 130	1	20
tert-Butylbenzene	ND		20.3	20.67		ug/L		102	70 - 130	1	20
Carbon disulfide	ND		20.3	21.87		ug/L		107	70 - 130	0	20
Carbon tetrachloride	ND		20.3	23.36		ug/L		115	70 - 130	2	20
Chlorobenzene	ND		20.3	23.59		ug/L		116	70 - 130	1	20
Chloroethane	ND		20.3	19.51		ug/L		96	70 - 130	7	20
Chloroform	ND		20.3	21.65		ug/L		106	70 - 130	0	20
Chloromethane	ND		20.3	19.78		ug/L		97	70 - 130	1	20
2-Chlorotoluene	ND		20.3	22.53		ug/L		111	70 - 130	1	20
4-Chlorotoluene	ND		20.3	22.30		ug/L		110	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		20.3	21.91		ug/L		108	70 - 130	3	20
Dibromochloromethane	ND		20.3	22.15		ug/L		109	70 - 130	2	20
1,2-Dibromoethane (EDB)	ND		20.3	20.24		ug/L		99	70 - 130	2	20
Dibromomethane	ND	*+ F1	20.3	26.48		ug/L		130	70 - 130	2	20
1,2-Dichlorobenzene	ND		20.3	25.16		ug/L		124	70 - 130	2	20
1,3-Dichlorobenzene	ND		20.3	21.03		ug/L		103	70 - 130	1	20
1,4-Dichlorobenzene	ND		20.3	23.27		ug/L		114	70 - 130	3	20
Dichlorodifluoromethane (Freon 12)	ND	*- F1	20.3	13.58	F1	ug/L		67	70 - 130	2	20
1,1-Dichloroethane	ND		20.3	20.12		ug/L		99	70 - 130	0	20
1,2-Dichloroethane	ND		20.3	23.48		ug/L		115	70 - 130	2	20
1,1-Dichloroethene	ND		20.3	20.92		ug/L		103	70 - 130	11	20
cis-1,2-Dichloroethene	ND		20.3	19.86		ug/L		98	70 - 130	3	20
trans-1,2-Dichloroethene	ND		20.3	20.42		ug/L		100	70 - 130	7	20
1,2-Dichloropropane	ND		20.3	22.89		ug/L		112	70 - 130	1	20
1,3-Dichloropropane	ND		20.3	19.40		ug/L		95	70 - 130	1	20
2,2-Dichloropropane	ND		20.3	18.57		ug/L		91	70 - 130	3	20
1,1-Dichloropropene	ND		20.3	19.28		ug/L		95	70 - 130	5	20
cis-1,3-Dichloropropene	ND		20.3	19.71		ug/L		97	70 - 130	6	20
trans-1,3-Dichloropropene	ND		20.3	20.62		ug/L		101	70 - 130	3	20
Ethylbenzene	ND		20.3	23.92		ug/L		118	70 - 130	2	20
Hexachlorobutadiene	ND		20.3	21.92		ug/L		108	70 - 130	4	20
2-Hexanone (MBK)	ND		20.3	15.75		ug/L		77	70 - 130	9	20
Isopropylbenzene	ND		20.3	21.56		ug/L		106	70 - 130	1	20
4-Isopropyltoluene	ND		20.3	24.01		ug/L		118	70 - 130	4	20
Methyl tert-butyl ether	ND		20.3	16.44		ug/L		81	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		20.3	18.16		ug/L		89	70 - 130	2	20
Methylene Chloride	ND		20.3	18.56		ug/L		91	70 - 130	3	20
Naphthalene	ND		20.3	18.18		ug/L		89	70 - 130	6	20
N-Propylbenzene	ND		20.3	22.21		ug/L		109	70 - 130	2	20
Styrene	ND		20.3	21.34		ug/L		105	70 - 130	2	20
1,1,1,2-Tetrachloroethane	ND		20.3	22.97		ug/L		113	70 - 130	1	20
1,1,2,2-Tetrachloroethane	ND		20.3	22.88		ug/L		112	70 - 130	1	20
Tetrachloroethene	ND		20.3	19.29		ug/L		95	70 - 130	2	20
Toluene	ND		20.3	20.41		ug/L		100	70 - 130	2	20
1,2,3-Trichlorobenzene	ND		20.3	19.47		ug/L		96	70 - 130	4	20
1,2,4-Trichlorobenzene	ND		20.3	18.76		ug/L		92	70 - 130	4	20
1,3,5-Trichlorobenzene	ND		20.3	22.31		ug/L		110	70 - 130	5	20
1,1,1-Trichloroethane	ND		20.3	20.20		ug/L		99	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21085

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		20.3	21.61		ug/L		106	70 - 130	2	20
Trichloroethene	ND		20.3	18.57		ug/L		91	70 - 130	2	20
Trichlorofluoromethane (Freon 11)	ND		20.3	23.46		ug/L		115	70 - 130	3	20
1,2,3-Trichloropropane	ND		20.3	19.81		ug/L		97	70 - 130	2	20
1,2,4-Trimethylbenzene	ND		20.3	23.64		ug/L		116	70 - 130	2	20
1,3,5-Trimethylbenzene	ND		20.3	23.28		ug/L		114	70 - 130	1	20
Vinyl chloride	ND		20.3	20.84		ug/L		102	70 - 130	1	20
m,p-Xylene	ND		40.7	51.33		ug/L		126	70 - 130	2	20
o-Xylene	ND		20.3	24.16		ug/L		119	70 - 130	1	20
Tetrahydrofuran	ND	F1	20.3	14.09	F1	ug/L		69	70 - 130	12	20
Ethyl ether	ND		20.3	19.93		ug/L		98	70 - 130	4	20
Tert-amyl methyl ether	ND		20.3	15.69		ug/L		77	70 - 130	6	20
Ethyl tert-butyl ether	ND		20.3	17.70		ug/L		87	70 - 130	4	20
di-Isopropyl ether	ND		20.3	19.36		ug/L		95	70 - 130	3	20
tert-Butanol	ND		203	159.8		ug/L		79	70 - 130	8	20
1,4-Dioxane	ND	*- F1	203	132.1	F1	ug/L		65	70 - 130	13	20
trans-1,4-Dichloro-2-butene	ND		20.3	19.86		ug/L		98	70 - 130	2	20
Ethanol	ND	F1 F2	407	372.3	F2	ug/L		91	70 - 130	28	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*122*		*70 - 130*
Dibromofluoromethane (Surr)	*123*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21036/1-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/04/23 08:36	04/12/23 17:37	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/04/23 08:36	04/12/23 17:37	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/04/23 08:36	04/12/23 17:37	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/04/23 08:36	04/12/23 17:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21036/1-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		5.00	0.771	ug/L		04/04/23 08:36	04/12/23 17:37	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/04/23 08:36	04/12/23 17:37	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/04/23 08:36	04/12/23 17:37	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/04/23 08:36	04/12/23 17:37	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/04/23 08:36	04/12/23 17:37	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/04/23 08:36	04/12/23 17:37	1
Acetophenone	ND		5.00	0.729	ug/L		04/04/23 08:36	04/12/23 17:37	1
Aniline	ND		5.00	1.40	ug/L		04/04/23 08:36	04/12/23 17:37	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/04/23 08:36	04/12/23 17:37	1
Benzidine	ND		20.0	1.93	ug/L		04/04/23 08:36	04/12/23 17:37	1
Benzoic acid	5.592	J	10.0	5.56	ug/L		04/04/23 08:36	04/12/23 17:37	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/04/23 08:36	04/12/23 17:37	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/04/23 08:36	04/12/23 17:37	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/04/23 08:36	04/12/23 17:37	1
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/04/23 08:36	04/12/23 17:37	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/04/23 08:36	04/12/23 17:37	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/04/23 08:36	04/12/23 17:37	1
Carbazole	ND		5.00	0.913	ug/L		04/04/23 08:36	04/12/23 17:37	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/04/23 08:36	04/12/23 17:37	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/04/23 08:36	04/12/23 17:37	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/04/23 08:36	04/12/23 17:37	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/04/23 08:36	04/12/23 17:37	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/04/23 08:36	04/12/23 17:37	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/04/23 08:36	04/12/23 17:37	1
Isophorone	ND		5.00	0.508	ug/L		04/04/23 08:36	04/12/23 17:37	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/04/23 08:36	04/12/23 17:37	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/04/23 08:36	04/12/23 17:37	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/04/23 08:36	04/12/23 17:37	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/04/23 08:36	04/12/23 17:37	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/04/23 08:36	04/12/23 17:37	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/04/23 08:36	04/12/23 17:37	1
Phenol	ND		5.00	0.635	ug/L		04/04/23 08:36	04/12/23 17:37	1
Pyridine	ND		5.00	1.34	ug/L		04/04/23 08:36	04/12/23 17:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*30 - 130*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
2-Fluorophenol (Surr)	*60*		*15 - 110*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
Phenol-d5 (Surr)	*43*		*15 - 110*	*04/04/23 08:36*	*04/12/23 17:37*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 110*	*04/04/23 08:36*	*04/12/23 17:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21036/1-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21036

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	66		30 - 130	04/04/23 08:36	04/12/23 17:37	1

Lab Sample ID: LCS 620-21036/13-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	20.52		ug/L		51	40 - 140
1,2,4-Trichlorobenzene	40.0	25.79		ug/L		64	40 - 140
1,2-Dichlorobenzene	40.0	26.88		ug/L		67	40 - 140
1,3-Dichlorobenzene	40.0	25.85		ug/L		65	40 - 140
1,4-Dichlorobenzene	40.0	26.03		ug/L		65	40 - 140
2,4,5-Trichlorophenol	40.0	31.42		ug/L		79	30 - 130
2,4,6-Trichlorophenol	40.0	29.65		ug/L		74	30 - 130
2,4-Dichlorophenol	40.0	27.59		ug/L		69	30 - 130
2,4-Dimethylphenol	40.0	27.57		ug/L		69	30 - 130
2,4-Dinitrophenol	40.0	41.83		ug/L		105	30 - 130
2,4-Dinitrotoluene	40.0	30.76		ug/L		77	40 - 140
2,6-Dinitrotoluene	40.0	30.62		ug/L		77	40 - 140
2-Chloronaphthalene	40.0	28.01		ug/L		70	40 - 140
2-Chlorophenol	40.0	30.45		ug/L		76	30 - 130
2-Methylphenol	40.0	29.51		ug/L		74	30 - 130
2-Nitroaniline	40.0	30.54		ug/L		76	40 - 140
2-Nitrophenol	40.0	27.96		ug/L		70	30 - 130
3 & 4 Methylphenol	40.0	28.05		ug/L		70	30 - 130
3,3'-Dichlorobenzidine	40.0	33.52		ug/L		84	40 - 140
3-Nitroaniline	40.0	25.69		ug/L		64	40 - 140
4,6-Dinitro-2-methylphenol	40.0	39.87		ug/L		100	30 - 130
4-Bromophenyl phenyl ether	40.0	29.81		ug/L		75	40 - 140
4-Chloro-3-methylphenol	40.0	29.55		ug/L		74	30 - 130
4-Chloroaniline	40.0	24.93		ug/L		62	40 - 140
4-Chlorophenyl phenyl ether	40.0	29.18		ug/L		73	40 - 140
4-Nitroaniline	40.0	33.91		ug/L		85	40 - 140
4-Nitrophenol	40.0	16.85	J	ug/L		42	30 - 130
Acetophenone	40.0	31.98		ug/L		80	40 - 140
Aniline	40.0	13.07	*-	ug/L		33	40 - 140
Azobenzene/Diphenyldiazene	40.0	28.49		ug/L		71	40 - 140
Benzidine	40.0	3.583	J *-	ug/L		9	40 - 140
Benzoic acid	40.0	28.30		ug/L		71	30 - 130
Benzyl alcohol	40.0	28.09		ug/L		70	40 - 140
Bis(2-chloroethoxy)methane	40.0	25.11		ug/L		63	40 - 140
Bis(2-chloroethyl)ether	40.0	28.82		ug/L		72	40 - 140
bis (2-chloroisopropyl) ether	40.0	25.79		ug/L		64	40 - 140
Bis(2-ethylhexyl) phthalate	40.0	34.66		ug/L		87	40 - 140
Butyl benzyl phthalate	40.0	35.13		ug/L		88	40 - 140
Carbazole	40.0	30.74		ug/L		77	40 - 140
Dibenzofuran	40.0	27.88		ug/L		70	40 - 140
Diethyl phthalate	40.0	31.38		ug/L		78	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21036/13-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl phthalate	40.0	29.28		ug/L		73	40 - 140
Di-n-butyl phthalate	40.0	32.80		ug/L		82	40 - 140
Di-n-octyl phthalate	40.0	34.12		ug/L		85	40 - 140
Hexachlorobenzene	40.0	30.06		ug/L		75	40 - 140
Hexachlorobutadiene	40.0	22.02		ug/L		55	40 - 140
Hexachlorocyclopentadiene	40.0	24.22		ug/L		61	40 - 140
Hexachloroethane	40.0	26.21		ug/L		66	40 - 140
Isophorone	40.0	21.76		ug/L		54	40 - 140
Nitrobenzene	40.0	26.88		ug/L		67	40 - 140
N-Nitrosodimethylamine	40.0	16.68		ug/L		42	40 - 140
N-Nitrosodi-n-propylamine	40.0	32.12		ug/L		80	40 - 140
N-Nitrosodiphenylamine	40.0	36.23		ug/L		91	40 - 140
Pentachloronitrobenzene	40.0	25.60		ug/L		64	40 - 140
Pentachlorophenol	40.0	29.26		ug/L		73	30 - 130
Phenol	40.0	17.02		ug/L		43	40 - 140
Pyridine	40.0	6.758	*-	ug/L		17	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*
2-Fluorophenol (Surr)	*59*		*15 - 110*
Nitrobenzene-d5 (Surr)	*67*		*30 - 130*
Phenol-d5 (Surr)	*41*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*82*		*15 - 110*
Terphenyl-d14	*70*		*30 - 130*

Lab Sample ID: LCSD 620-21036/14-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	40.0	20.49		ug/L		51	40 - 140	0	20
1,2,4-Trichlorobenzene	40.0	26.32		ug/L		66	40 - 140	2	20
1,2-Dichlorobenzene	40.0	24.99		ug/L		62	40 - 140	7	20
1,3-Dichlorobenzene	40.0	23.56		ug/L		59	40 - 140	9	20
1,4-Dichlorobenzene	40.0	23.89		ug/L		60	40 - 140	9	20
2,4,5-Trichlorophenol	40.0	28.61		ug/L		72	30 - 130	9	20
2,4,6-Trichlorophenol	40.0	28.54		ug/L		71	30 - 130	4	20
2,4-Dichlorophenol	40.0	27.55		ug/L		69	30 - 130	0	20
2,4-Dimethylphenol	40.0	27.74		ug/L		69	30 - 130	1	20
2,4-Dinitrophenol	40.0	35.70		ug/L		89	30 - 130	16	20
2,4-Dinitrotoluene	40.0	29.77		ug/L		74	40 - 140	3	20
2,6-Dinitrotoluene	40.0	29.99		ug/L		75	40 - 140	2	20
2-Chloronaphthalene	40.0	26.86		ug/L		67	40 - 140	4	20
2-Chlorophenol	40.0	27.10		ug/L		68	30 - 130	12	20
2-Methylphenol	40.0	26.17		ug/L		65	30 - 130	12	20
2-Nitroaniline	40.0	28.60		ug/L		72	40 - 140	7	20
2-Nitrophenol	40.0	29.09		ug/L		73	30 - 130	4	20
3 & 4 Methylphenol	40.0	25.01		ug/L		63	30 - 130	11	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21036/14-A
Matrix: Water
Analysis Batch: 21311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3,3'-Dichlorobenzidine			40.0	33.36		ug/L		83	40 - 140	0	20
3-Nitroaniline			40.0	24.88		ug/L		62	40 - 140	3	20
4,6-Dinitro-2-methylphenol			40.0	34.20		ug/L		85	30 - 130	15	20
4-Bromophenyl phenyl ether			40.0	30.65		ug/L		77	40 - 140	3	20
4-Chloro-3-methylphenol			40.0	28.90		ug/L		72	30 - 130	2	20
4-Chloroaniline			40.0	24.58		ug/L		61	40 - 140	1	20
4-Chlorophenyl phenyl ether			40.0	28.43		ug/L		71	40 - 140	3	20
4-Nitroaniline			40.0	30.94		ug/L		77	40 - 140	9	20
4-Nitrophenol			40.0	16.73	J	ug/L		42	30 - 130	1	20
Acetophenone			40.0	28.81		ug/L		72	40 - 140	10	20
Aniline			40.0	11.69	*-	ug/L		29	40 - 140	11	20
Azobenzene/Diphenyldiazene			40.0	27.50		ug/L		69	40 - 140	4	20
Benzidine			40.0	3.122	J *-	ug/L		8	40 - 140	14	20
Benzoic acid			40.0	23.87		ug/L		60	30 - 130	17	20
Benzyl alcohol			40.0	25.00		ug/L		63	40 - 140	12	20
Bis(2-chloroethoxy)methane			40.0	26.20		ug/L		65	40 - 140	4	20
Bis(2-chloroethyl)ether			40.0	26.11		ug/L		65	40 - 140	10	20
bis (2-chloroisopropyl) ether			40.0	22.59		ug/L		56	40 - 140	13	20
Bis(2-ethylhexyl) phthalate			40.0	35.01		ug/L		88	40 - 140	1	20
Butyl benzyl phthalate			40.0	34.92		ug/L		87	40 - 140	1	20
Carbazole			40.0	30.32		ug/L		76	40 - 140	1	20
Dibenzofuran			40.0	27.81		ug/L		70	40 - 140	0	20
Diethyl phthalate			40.0	30.51		ug/L		76	40 - 140	3	20
Dimethyl phthalate			40.0	28.87		ug/L		72	40 - 140	1	20
Di-n-butyl phthalate			40.0	33.02		ug/L		83	40 - 140	1	20
Di-n-octyl phthalate			40.0	33.06		ug/L		83	40 - 140	3	20
Hexachlorobenzene			40.0	30.64		ug/L		77	40 - 140	2	20
Hexachlorobutadiene			40.0	23.34		ug/L		58	40 - 140	6	20
Hexachlorocyclopentadiene			40.0	24.21		ug/L		61	40 - 140	0	20
Hexachloroethane			40.0	24.66		ug/L		62	40 - 140	6	20
Isophorone			40.0	22.44		ug/L		56	40 - 140	3	20
Nitrobenzene			40.0	27.24		ug/L		68	40 - 140	1	20
N-Nitrosodimethylamine			40.0	16.05		ug/L		40	40 - 140	4	20
N-Nitrosodi-n-propylamine			40.0	28.22		ug/L		71	40 - 140	13	20
N-Nitrosodiphenylamine			40.0	29.77		ug/L		74	40 - 140	20	20
Pentachloronitrobenzene			40.0	25.51		ug/L		64	40 - 140	0	20
Pentachlorophenol			40.0	27.64		ug/L		69	30 - 130	6	20
Phenol			40.0	16.27		ug/L		41	40 - 140	5	20
Pyridine			40.0	6.409	*-	ug/L		16	40 - 140	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*65*		*30 - 130*
2-Fluorophenol (Surr)	*54*		*15 - 110*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*
Phenol-d5 (Surr)	*38*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*81*		*15 - 110*
Terphenyl-d14	*70*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/05/23 09:47	04/07/23 14:52	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/05/23 09:47	04/07/23 14:52	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/05/23 09:47	04/07/23 14:52	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/05/23 09:47	04/07/23 14:52	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/05/23 09:47	04/07/23 14:52	1
Acetophenone	ND		5.00	0.729	ug/L		04/05/23 09:47	04/07/23 14:52	1
Aniline	ND		5.00	1.40	ug/L		04/05/23 09:47	04/07/23 14:52	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzidine	ND		20.0	1.93	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzoic acid	ND		40.0	40.0	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/05/23 09:47	04/07/23 14:52	1
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/05/23 09:47	04/07/23 14:52	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/05/23 09:47	04/07/23 14:52	1
Carbazole	ND		5.00	0.913	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/05/23 09:47	04/07/23 14:52	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/05/23 09:47	04/07/23 14:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		5.00	0.508	ug/L		04/05/23 09:47	04/07/23 14:52	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/05/23 09:47	04/07/23 14:52	1
Phenol	ND		5.00	0.635	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pyridine	ND		5.00	1.34	ug/L		04/05/23 09:47	04/07/23 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2-Fluorophenol (Surr)	*55*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Phenol-d5 (Surr)	*36*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Terphenyl-d14	*68*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	16.05		ug/L		40	40 - 140
1,2,4-Trichlorobenzene	40.0	19.46		ug/L		49	40 - 140
1,2-Dichlorobenzene	40.0	19.98		ug/L		50	40 - 140
1,3-Dichlorobenzene	40.0	19.10		ug/L		48	40 - 140
1,4-Dichlorobenzene	40.0	19.07		ug/L		48	40 - 140
2,4,5-Trichlorophenol	40.0	24.71		ug/L		62	30 - 130
2,4,6-Trichlorophenol	40.0	24.14		ug/L		60	30 - 130
2,4-Dichlorophenol	40.0	22.11		ug/L		55	30 - 130
2,4-Dimethylphenol	40.0	19.76		ug/L		49	30 - 130
2,4-Dinitrophenol	40.0	29.51		ug/L		74	30 - 130
2,4-Dinitrotoluene	40.0	29.82		ug/L		75	40 - 140
2,6-Dinitrotoluene	40.0	27.30		ug/L		68	40 - 140
2-Chloronaphthalene	40.0	21.64		ug/L		54	40 - 140
2-Chlorophenol	40.0	22.06		ug/L		55	30 - 130
2-Methylphenol	40.0	18.88		ug/L		47	30 - 130
2-Nitroaniline	40.0	26.85		ug/L		67	40 - 140
2-Nitrophenol	40.0	22.63		ug/L		57	30 - 130
3 & 4 Methylphenol	40.0	18.05		ug/L		45	30 - 130
3,3'-Dichlorobenzidine	40.0	41.03		ug/L		103	40 - 140
3-Nitroaniline	40.0	25.28		ug/L		63	40 - 140
4,6-Dinitro-2-methylphenol	40.0	33.96		ug/L		85	30 - 130
4-Bromophenyl phenyl ether	40.0	26.56		ug/L		66	40 - 140
4-Chloro-3-methylphenol	40.0	23.42		ug/L		59	30 - 130
4-Chloroaniline	40.0	18.16		ug/L		45	40 - 140
4-Chlorophenyl phenyl ether	40.0	24.22		ug/L		61	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4-Nitroaniline	40.0	35.09		ug/L		88	40 - 140
4-Nitrophenol	40.0	14.59	J	ug/L		36	30 - 130
Acetophenone	40.0	24.21		ug/L		61	40 - 140
Aniline	40.0	16.11		ug/L		40	40 - 140
Azobenzene/Diphenyldiazene	40.0	24.59		ug/L		61	40 - 140
Benzidine	40.0	6.263	J *-	ug/L		16	40 - 140
Benzoic acid	40.0	16.92		ug/L		42	30 - 130
Benzyl alcohol	40.0	18.98		ug/L		47	40 - 140
Bis(2-chloroethoxy)methane	40.0	20.28		ug/L		51	40 - 140
Bis(2-chloroethyl)ether	40.0	21.18		ug/L		53	40 - 140
bis (2-chloroisopropyl) ether	40.0	19.16		ug/L		48	40 - 140
Bis(2-ethylhexyl) phthalate	40.0	37.61		ug/L		94	40 - 140
Butyl benzyl phthalate	40.0	37.21		ug/L		93	40 - 140
Carbazole	40.0	32.62		ug/L		82	40 - 140
Dibenzofuran	40.0	23.23		ug/L		58	40 - 140
Diethyl phthalate	40.0	30.13		ug/L		75	40 - 140
Dimethyl phthalate	40.0	26.66		ug/L		67	40 - 140
Di-n-butyl phthalate	40.0	35.34		ug/L		88	40 - 140
Di-n-octyl phthalate	40.0	36.15		ug/L		90	40 - 140
Hexachlorobenzene	40.0	27.20		ug/L		68	40 - 140
Hexachlorobutadiene	40.0	17.05		ug/L		43	40 - 140
Hexachlorocyclopentadiene	40.0	16.78		ug/L		42	40 - 140
Hexachloroethane	40.0	19.23		ug/L		48	40 - 140
Isophorone	40.0	17.39		ug/L		43	40 - 140
Nitrobenzene	40.0	21.92		ug/L		55	40 - 140
N-Nitrosodimethylamine	40.0	11.21	*-	ug/L		28	40 - 140
N-Nitrosodi-n-propylamine	40.0	24.34		ug/L		61	40 - 140
N-Nitrosodiphenylamine	40.0	28.69		ug/L		72	40 - 140
Pentachloronitrobenzene	40.0	22.63		ug/L		57	40 - 140
Pentachlorophenol	40.0	26.52		ug/L		66	30 - 130
Phenol	40.0	9.606	*-	ug/L		24	40 - 140
Pyridine	40.0	10.19	*-	ug/L		25	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*52*		*30 - 130*
2-Fluorophenol (Surr)	*35*		*15 - 110*
Nitrobenzene-d5 (Surr)	*54*		*30 - 130*
Phenol-d5 (Surr)	*22*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*70*		*15 - 110*
Terphenyl-d14	*77*		*30 - 130*

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	40.0	19.39		ug/L		48	40 - 140	19	20
1,2,4-Trichlorobenzene	40.0	23.08		ug/L		58	40 - 140	17	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	40.0	21.76		ug/L		54	40 - 140	9	20
1,3-Dichlorobenzene	40.0	20.84		ug/L		52	40 - 140	9	20
1,4-Dichlorobenzene	40.0	20.96		ug/L		52	40 - 140	9	20
2,4,5-Trichlorophenol	40.0	29.52		ug/L		74	30 - 130	18	20
2,4,6-Trichlorophenol	40.0	28.08		ug/L		70	30 - 130	15	20
2,4-Dichlorophenol	40.0	25.20		ug/L		63	30 - 130	13	20
2,4-Dimethylphenol	40.0	24.21		ug/L		61	30 - 130	20	20
2,4-Dinitrophenol	40.0	39.89	*1	ug/L		100	30 - 130	30	20
2,4-Dinitrotoluene	40.0	31.21		ug/L		78	40 - 140	5	20
2,6-Dinitrotoluene	40.0	30.27		ug/L		76	40 - 140	10	20
2-Chloronaphthalene	40.0	26.01		ug/L		65	40 - 140	18	20
2-Chlorophenol	40.0	23.53		ug/L		59	30 - 130	6	20
2-Methylphenol	40.0	22.06		ug/L		55	30 - 130	16	20
2-Nitroaniline	40.0	30.19		ug/L		75	40 - 140	12	20
2-Nitrophenol	40.0	25.74		ug/L		64	30 - 130	13	20
3 & 4 Methylphenol	40.0	21.74		ug/L		54	30 - 130	19	20
3,3'-Dichlorobenzidine	40.0	41.58		ug/L		104	40 - 140	1	20
3-Nitroaniline	40.0	27.37		ug/L		68	40 - 140	8	20
4,6-Dinitro-2-methylphenol	40.0	41.21		ug/L		103	30 - 130	19	20
4-Bromophenyl phenyl ether	40.0	29.73		ug/L		74	40 - 140	11	20
4-Chloro-3-methylphenol	40.0	28.10		ug/L		70	30 - 130	18	20
4-Chloroaniline	40.0	22.72	*1	ug/L		57	40 - 140	22	20
4-Chlorophenyl phenyl ether	40.0	28.31		ug/L		71	40 - 140	16	20
4-Nitroaniline	40.0	35.00		ug/L		88	40 - 140	0	20
4-Nitrophenol	40.0	17.74	J	ug/L		44	30 - 130	19	20
Acetophenone	40.0	26.07		ug/L		65	40 - 140	7	20
Aniline	40.0	12.29	*- *1	ug/L		31	40 - 140	27	20
Azobenzene/Diphenyldiazene	40.0	29.30		ug/L		73	40 - 140	17	20
Benzidine	40.0	4.568	J *- *1	ug/L		11	40 - 140	31	20
Benzoic acid	40.0	28.35	*1	ug/L		71	30 - 130	50	20
Benzyl alcohol	40.0	20.96		ug/L		52	40 - 140	10	20
Bis(2-chloroethoxy)methane	40.0	23.23		ug/L		58	40 - 140	14	20
Bis(2-chloroethyl)ether	40.0	22.69		ug/L		57	40 - 140	7	20
bis (2-chloroisopropyl) ether	40.0	21.07		ug/L		53	40 - 140	9	20
Bis(2-ethylhexyl) phthalate	40.0	35.61		ug/L		89	40 - 140	5	20
Butyl benzyl phthalate	40.0	36.28		ug/L		91	40 - 140	3	20
Carbazole	40.0	33.36		ug/L		83	40 - 140	2	20
Dibenzofuran	40.0	27.18		ug/L		68	40 - 140	16	20
Diethyl phthalate	40.0	31.50		ug/L		79	40 - 140	4	20
Dimethyl phthalate	40.0	29.58		ug/L		74	40 - 140	10	20
Di-n-butyl phthalate	40.0	34.73		ug/L		87	40 - 140	2	20
Di-n-octyl phthalate	40.0	34.56		ug/L		86	40 - 140	4	20
Hexachlorobenzene	40.0	29.73		ug/L		74	40 - 140	9	20
Hexachlorobutadiene	40.0	20.95	*1	ug/L		52	40 - 140	21	20
Hexachlorocyclopentadiene	40.0	22.46	*1	ug/L		56	40 - 140	29	20
Hexachloroethane	40.0	21.15		ug/L		53	40 - 140	9	20
Isophorone	40.0	20.40		ug/L		51	40 - 140	16	20
Nitrobenzene	40.0	25.35		ug/L		63	40 - 140	14	20
N-Nitrosodimethylamine	40.0	17.23	*1	ug/L		43	40 - 140	42	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodi-n-propylamine			40.0	26.23		ug/L		66	40 - 140	7	20
N-Nitrosodiphenylamine			40.0	29.94		ug/L		75	40 - 140	4	20
Pentachloronitrobenzene			40.0	28.18	*1	ug/L		70	40 - 140	22	20
Pentachlorophenol			40.0	30.84		ug/L		77	30 - 130	15	20
Phenol			40.0	12.95	*- *1	ug/L		32	40 - 140	30	20
Pyridine			40.0	4.932	J *- *1	ug/L		12	40 - 140	70	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*30 - 130*
2-Fluorophenol (Surr)	*46*		*15 - 110*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*
Phenol-d5 (Surr)	*31*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*69*		*30 - 130*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	ND		38.5	16.52		ug/L		43	40 - 140
1,2,4-Trichlorobenzene	ND		38.5	20.72		ug/L		54	40 - 140
1,2-Dichlorobenzene	ND		38.5	20.49		ug/L		53	40 - 140
1,3-Dichlorobenzene	ND		38.5	20.02		ug/L		52	40 - 140
1,4-Dichlorobenzene	ND		38.5	19.89		ug/L		52	40 - 140
2,4,5-Trichlorophenol	ND		38.5	23.44		ug/L		61	30 - 130
2,4,6-Trichlorophenol	ND		38.5	23.27		ug/L		61	30 - 130
2,4-Dichlorophenol	ND		38.5	22.35		ug/L		58	30 - 130
2,4-Dimethylphenol	ND		38.5	22.31		ug/L		58	30 - 130
2,4-Dinitrophenol	ND		38.5	18.64		ug/L		48	30 - 130
2,4-Dinitrotoluene	ND		38.5	22.06		ug/L		57	40 - 140
2,6-Dinitrotoluene	ND		38.5	22.74		ug/L		59	40 - 140
2-Chloronaphthalene	ND		38.5	22.38		ug/L		58	40 - 140
2-Chlorophenol	ND		38.5	22.11		ug/L		57	30 - 130
2-Methylphenol	ND		38.5	20.20		ug/L		53	30 - 130
2-Nitroaniline	ND		38.5	24.21		ug/L		63	40 - 140
2-Nitrophenol	ND		38.5	22.10		ug/L		57	30 - 130
3 & 4 Methylphenol	ND		38.5	18.95		ug/L		49	30 - 130
3,3'-Dichlorobenzidine	ND		38.5	26.17		ug/L		68	40 - 140
3-Nitroaniline	ND		38.5	19.39		ug/L		50	40 - 140
4,6-Dinitro-2-methylphenol	ND		38.5	17.79		ug/L		46	30 - 130
4-Bromophenyl phenyl ether	ND		38.5	23.16		ug/L		60	40 - 140
4-Chloro-3-methylphenol	ND		38.5	22.40		ug/L		58	30 - 130
4-Chloroaniline	ND	F1 F2	38.5	9.755	F1	ug/L		25	40 - 140
4-Chlorophenyl phenyl ether	ND		38.5	22.05		ug/L		57	40 - 140
4-Nitroaniline	ND		38.5	23.06		ug/L		60	40 - 140
4-Nitrophenol	ND		38.5	16.38	J	ug/L		43	30 - 130
Acetophenone	ND		38.5	22.35		ug/L		58	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aniline	ND	*-	38.5	16.72		ug/L		43	40 - 140
Azobenzene/Diphenyldiazene	ND		38.5	21.63		ug/L		56	40 - 140
Benzidine	ND	F2 F1 *-	38.5	3.068	J F1	ug/L		8	40 - 140
Benzoic acid	ND		38.5	23.48		ug/L		61	30 - 130
Benzyl alcohol	ND		38.5	20.72		ug/L		54	40 - 140
Bis(2-chloroethoxy)methane	ND		38.5	20.66		ug/L		54	40 - 140
Bis(2-chloroethyl)ether	ND		38.5	20.52		ug/L		53	40 - 140
bis (2-chloroisopropyl) ether	ND		38.5	18.46		ug/L		48	40 - 140
Bis(2-ethylhexyl) phthalate	ND		38.5	27.07		ug/L		70	40 - 140
Butyl benzyl phthalate	ND		38.5	26.31		ug/L		68	40 - 140
Carbazole	ND		38.5	22.95		ug/L		60	40 - 140
Dibenzofuran	ND		38.5	21.62		ug/L		56	40 - 140
Diethyl phthalate	ND		38.5	22.68		ug/L		59	40 - 140
Dimethyl phthalate	ND		38.5	22.13		ug/L		58	40 - 140
Di-n-butyl phthalate	ND		38.5	25.32		ug/L		66	40 - 140
Di-n-octyl phthalate	ND		38.5	25.12		ug/L		65	40 - 140
Hexachlorobenzene	ND		38.5	22.74		ug/L		59	40 - 140
Hexachlorobutadiene	ND		38.5	18.46		ug/L		48	40 - 140
Hexachlorocyclopentadiene	ND	F1	38.5	6.315	F1	ug/L		16	40 - 140
Hexachloroethane	ND		38.5	18.43		ug/L		48	40 - 140
Isophorone	ND		38.5	16.93		ug/L		44	40 - 140
Nitrobenzene	ND		38.5	33.81		ug/L		88	40 - 140
N-Nitrosodimethylamine	ND	F1	38.5	13.53	F1	ug/L		35	40 - 140
N-Nitrosodi-n-propylamine	ND		38.5	22.08		ug/L		57	40 - 140
N-Nitrosodiphenylamine	ND		38.5	21.84		ug/L		57	40 - 140
Pentachloronitrobenzene	ND		38.5	18.21		ug/L		47	40 - 140
Pentachlorophenol	ND		38.5	17.09		ug/L		44	30 - 130
Phenol	ND	F1	38.5	10.33	F1	ug/L		27	40 - 140
Pyridine	ND	F1 *-	38.5	10.40	F1	ug/L		27	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*30 - 130*
2-Fluorophenol (Surr)	*41*		*15 - 110*
Nitrobenzene-d5 (Surr)	*57*		*30 - 130*
Phenol-d5 (Surr)	*31*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*59*		*15 - 110*
Terphenyl-d14	*58*		*30 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	ND		38.5	17.36		ug/L		45	40 - 140	5	20
1,2,4-Trichlorobenzene	ND		38.5	21.73		ug/L		57	40 - 140	5	20
1,2-Dichlorobenzene	ND		38.5	21.66		ug/L		56	40 - 140	6	20
1,3-Dichlorobenzene	ND		38.5	21.02		ug/L		55	40 - 140	5	20
1,4-Dichlorobenzene	ND		38.5	20.89		ug/L		54	40 - 140	5	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21159

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		38.5	25.44		ug/L		66	30 - 130	8	20
2,4,6-Trichlorophenol	ND		38.5	24.60		ug/L		64	30 - 130	6	20
2,4-Dichlorophenol	ND		38.5	23.97		ug/L		62	30 - 130	7	20
2,4-Dimethylphenol	ND		38.5	23.38		ug/L		61	30 - 130	5	20
2,4-Dinitrophenol	ND		38.5	17.74		ug/L		46	30 - 130	5	20
2,4-Dinitrotoluene	ND		38.5	24.70		ug/L		64	40 - 140	11	20
2,6-Dinitrotoluene	ND		38.5	24.73		ug/L		64	40 - 140	8	20
2-Chloronaphthalene	ND		38.5	23.64		ug/L		61	40 - 140	5	20
2-Chlorophenol	ND		38.5	23.79		ug/L		62	30 - 130	7	20
2-Methylphenol	ND		38.5	20.84		ug/L		54	30 - 130	3	20
2-Nitroaniline	ND		38.5	26.20		ug/L		68	40 - 140	8	20
2-Nitrophenol	ND		38.5	23.88		ug/L		62	30 - 130	8	20
3 & 4 Methylphenol	ND		38.5	19.81		ug/L		52	30 - 130	4	20
3,3'-Dichlorobenzidine	ND		38.5	31.11		ug/L		81	40 - 140	17	20
3-Nitroaniline	ND		38.5	22.44		ug/L		58	40 - 140	15	20
4,6-Dinitro-2-methylphenol	ND		38.5	17.59		ug/L		46	30 - 130	1	20
4-Bromophenyl phenyl ether	ND		38.5	24.37		ug/L		63	40 - 140	5	20
4-Chloro-3-methylphenol	ND		38.5	24.24		ug/L		63	30 - 130	8	20
4-Chloroaniline	ND	F1 F2	38.5	13.21	F2 F1	ug/L		34	40 - 140	30	20
4-Chlorophenyl phenyl ether	ND		38.5	23.43		ug/L		61	40 - 140	6	20
4-Nitroaniline	ND		38.5	26.92		ug/L		70	40 - 140	15	20
4-Nitrophenol	ND		38.5	17.46	J	ug/L		45	30 - 130	6	20
Acetophenone	ND		38.5	24.03		ug/L		62	40 - 140	7	20
Aniline	ND	*-	38.5	18.92		ug/L		49	40 - 140	12	20
Azobenzene/Diphenyldiazene	ND		38.5	23.16		ug/L		60	40 - 140	7	20
Benzidine	ND	F2 F1 *-	38.5	5.904	J F2 F1	ug/L		15	40 - 140	63	20
Benzoic acid	ND		38.5	23.29		ug/L		61	30 - 130	1	20
Benzyl alcohol	ND		38.5	21.33		ug/L		55	40 - 140	3	20
Bis(2-chloroethoxy)methane	ND		38.5	21.80		ug/L		57	40 - 140	5	20
Bis(2-chloroethyl)ether	ND		38.5	21.88		ug/L		57	40 - 140	6	20
bis (2-chloroisopropyl) ether	ND		38.5	19.72		ug/L		51	40 - 140	7	20
Bis(2-ethylhexyl) phthalate	ND		38.5	30.05		ug/L		78	40 - 140	10	20
Butyl benzyl phthalate	ND		38.5	29.10		ug/L		76	40 - 140	10	20
Carbazole	ND		38.5	25.55		ug/L		66	40 - 140	11	20
Dibenzofuran	ND		38.5	23.07		ug/L		60	40 - 140	7	20
Diethyl phthalate	ND		38.5	24.88		ug/L		65	40 - 140	9	20
Dimethyl phthalate	ND		38.5	24.01		ug/L		62	40 - 140	8	20
Di-n-butyl phthalate	ND		38.5	28.05		ug/L		73	40 - 140	10	20
Di-n-octyl phthalate	ND		38.5	27.81		ug/L		72	40 - 140	10	20
Hexachlorobenzene	ND		38.5	24.25		ug/L		63	40 - 140	6	20
Hexachlorobutadiene	ND		38.5	19.47		ug/L		51	40 - 140	5	20
Hexachlorocyclopentadiene	ND	F1	38.5	6.584	F1	ug/L		17	40 - 140	4	20
Hexachloroethane	ND		38.5	19.65		ug/L		51	40 - 140	6	20
Isophorone	ND		38.5	17.75		ug/L		46	40 - 140	5	20
Nitrobenzene	ND		38.5	35.75		ug/L		93	40 - 140	6	20
N-Nitrosodimethylamine	ND	F1	38.5	12.98	F1	ug/L		34	40 - 140	4	20
N-Nitrosodi-n-propylamine	ND		38.5	23.74		ug/L		62	40 - 140	7	20
N-Nitrosodiphenylamine	ND		38.5	25.00		ug/L		65	40 - 140	13	20
Pentachloronitrobenzene	ND		38.5	18.70		ug/L		49	40 - 140	3	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD **Client Sample ID: 2023-MW-04**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21159 **Prep Batch: 21080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachlorophenol	ND		38.5	19.26		ug/L		50	30 - 130	12	20
Phenol	ND	F1	38.5	10.23	F1	ug/L		27	40 - 140	1	20
Pyridine	ND	F1 *-	38.5	12.05	F1	ug/L		31	40 - 140	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*30 - 130*
2-Fluorophenol (Surr)	*41*		*15 - 110*
Nitrobenzene-d5 (Surr)	*61*		*30 - 130*
Phenol-d5 (Surr)	*30*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*64*		*15 - 110*
Terphenyl-d14	*64*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 620-21036/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21071 **Prep Batch: 21036**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/04/23 08:36	04/05/23 10:46	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/04/23 08:36	04/05/23 10:46	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/04/23 08:36	04/05/23 10:46	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/04/23 08:36	04/05/23 10:46	1
Anthracene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[a]anthracene	ND		0.0500	0.0413	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[a]pyrene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[g,h,i]perylene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Benzo[k]fluoranthene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Chrysene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Dibenz(a,h)anthracene	ND		0.0500	0.0342	ug/L		04/04/23 08:36	04/05/23 10:46	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 10:46	1
Fluorene	ND		0.0500	0.0341	ug/L		04/04/23 08:36	04/05/23 10:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0800	ug/L		04/04/23 08:36	04/05/23 10:46	1
Naphthalene	ND		0.0500	0.0464	ug/L		04/04/23 08:36	04/05/23 10:46	1
Phenanthrene	ND		0.200	0.200	ug/L		04/04/23 08:36	04/05/23 10:46	1
Pyrene	ND		0.200	0.200	ug/L		04/04/23 08:36	04/05/23 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*30 - 130*	*04/04/23 08:36*	*04/05/23 10:46*	*1*
Terphenyl-d14	*47*		*30 - 130*	*04/04/23 08:36*	*04/05/23 10:46*	*1*
Benzo(e)pyrene-d12	*20*	*S1-*	*30 - 130*	*04/04/23 08:36*	*04/05/23 10:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 620-21036/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	4.00	2.911		ug/L		73	40 - 140
2-Methylnaphthalene	4.00	2.886		ug/L		72	40 - 140
Acenaphthene	4.00	2.924		ug/L		73	40 - 140
Acenaphthylene	4.00	2.800		ug/L		70	40 - 140
Anthracene	4.00	2.721		ug/L		68	40 - 140
Benzo[a]anthracene	4.00	1.623		ug/L		41	40 - 140
Benzo[a]pyrene	4.00	2.150		ug/L		54	40 - 140
Benzo[b]fluoranthene	4.00	1.619		ug/L		40	40 - 140
Benzo[g,h,i]perylene	4.00	1.924		ug/L		48	40 - 140
Benzo[k]fluoranthene	4.00	2.295		ug/L		57	40 - 140
Chrysene	4.00	2.638		ug/L		66	40 - 140
Dibenz(a,h)anthracene	4.00	1.492	*-	ug/L		37	40 - 140
Fluoranthene	4.00	2.641		ug/L		66	40 - 140
Fluorene	4.00	2.657		ug/L		66	40 - 140
Indeno[1,2,3-cd]pyrene	4.00	1.386	*-	ug/L		35	40 - 140
Naphthalene	4.00	2.628		ug/L		66	40 - 140
Phenanthrene	4.00	2.857		ug/L		71	40 - 140
Pyrene	4.00	2.831		ug/L		71	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*
Terphenyl-d14	*55*		*30 - 130*
Benzo(e)pyrene-d12	*35*		*30 - 130*

Lab Sample ID: LCSD 620-21036/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	4.00	3.313		ug/L		83	40 - 140	13	20
2-Methylnaphthalene	4.00	3.292		ug/L		82	40 - 140	13	20
Acenaphthene	4.00	3.304		ug/L		83	40 - 140	12	20
Acenaphthylene	4.00	3.158		ug/L		79	40 - 140	12	20
Anthracene	4.00	2.914		ug/L		73	40 - 140	7	20
Benzo[a]anthracene	4.00	2.181	*1	ug/L		55	40 - 140	29	20
Benzo[a]pyrene	4.00	2.865	*1	ug/L		72	40 - 140	29	20
Benzo[b]fluoranthene	4.00	1.913		ug/L		48	40 - 140	17	20
Benzo[g,h,i]perylene	4.00	2.614	*1	ug/L		65	40 - 140	30	20
Benzo[k]fluoranthene	4.00	3.001	*1	ug/L		75	40 - 140	27	20
Chrysene	4.00	3.186		ug/L		80	40 - 140	19	20
Dibenz(a,h)anthracene	4.00	1.846	*1	ug/L		46	40 - 140	21	20
Fluoranthene	4.00	2.932		ug/L		73	40 - 140	10	20
Fluorene	4.00	2.710		ug/L		68	40 - 140	2	20
Indeno[1,2,3-cd]pyrene	4.00	1.911	*1	ug/L		48	40 - 140	32	20
Naphthalene	4.00	3.002		ug/L		75	40 - 140	13	20
Phenanthrene	4.00	3.018		ug/L		75	40 - 140	5	20
Pyrene	4.00	3.224		ug/L		81	40 - 140	13	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 620-21036/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21036

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*
Terphenyl-d14	*61*		*30 - 130*
Benzo(e)pyrene-d12	*64*		*30 - 130*

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/05/23 09:47	04/05/23 15:12	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/05/23 09:47	04/05/23 15:12	1
Anthracene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]anthracene	ND		0.0500	0.0413	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[g,h,i]perylene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[k]fluoranthene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Chrysene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Dibenz(a,h)anthracene	ND		0.0500	0.0342	ug/L		04/05/23 09:47	04/05/23 15:12	1
Fluoranthene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Fluorene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Naphthalene	0.04711	J	0.0500	0.0464	ug/L		04/05/23 09:47	04/05/23 15:12	1
Phenanthrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1
Pyrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Terphenyl-d14	*65*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Benzo(e)pyrene-d12	*81*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*

Lab Sample ID: LCS 620-21080/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	4.00	3.040		ug/L		76	40 - 140
2-Methylnaphthalene	4.00	2.880		ug/L		72	40 - 140
Acenaphthene	4.00	3.004		ug/L		75	40 - 140
Acenaphthylene	4.00	2.912		ug/L		73	40 - 140
Anthracene	4.00	3.135		ug/L		78	40 - 140
Benzo[a]anthracene	4.00	1.807		ug/L		45	40 - 140
Benzo[a]pyrene	4.00	2.620		ug/L		66	40 - 140
Benzo[b]fluoranthene	4.00	1.621		ug/L		41	40 - 140
Benzo[g,h,i]perylene	4.00	2.174		ug/L		54	40 - 140
Benzo[k]fluoranthene	4.00	2.704		ug/L		68	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 620-21080/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chrysene			4.00	3.197		ug/L		80	40 - 140		
Dibenz(a,h)anthracene			4.00	1.755		ug/L		44	40 - 140		
Fluoranthene			4.00	3.117		ug/L		78	40 - 140		
Fluorene			4.00	2.810		ug/L		70	40 - 140		
Indeno[1,2,3-cd]pyrene			4.00	1.619		ug/L		40	40 - 140		
Naphthalene			4.00	2.707		ug/L		68	40 - 140		
Phenanthrene			4.00	3.167		ug/L		79	40 - 140		
Pyrene			4.00	3.331		ug/L		83	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*
Terphenyl-d14	*67*		*30 - 130*
Benzo(e)pyrene-d12	*80*		*30 - 130*

Lab Sample ID: LCSD 620-21080/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			4.00	3.070		ug/L		77	40 - 140	1	20
2-Methylnaphthalene			4.00	3.063		ug/L		77	40 - 140	6	20
Acenaphthene			4.00	3.071		ug/L		77	40 - 140	2	20
Acenaphthylene			4.00	2.829		ug/L		71	40 - 140	3	20
Anthracene			4.00	2.783		ug/L		70	40 - 140	12	20
Benzo[a]anthracene			4.00	1.784		ug/L		45	40 - 140	1	20
Benzo[a]pyrene			4.00	2.395		ug/L		60	40 - 140	9	20
Benzo[b]fluoranthene			4.00	1.734		ug/L		43	40 - 140	7	20
Benzo[g,h,i]perylene			4.00	1.967		ug/L		49	40 - 140	10	20
Benzo[k]fluoranthene			4.00	2.588		ug/L		65	40 - 140	4	20
Chrysene			4.00	2.974		ug/L		74	40 - 140	7	20
Dibenz(a,h)anthracene			4.00	1.636		ug/L		41	40 - 140	7	20
Fluoranthene			4.00	2.808		ug/L		70	40 - 140	10	20
Fluorene			4.00	2.519		ug/L		63	40 - 140	11	20
Indeno[1,2,3-cd]pyrene			4.00	1.699		ug/L		42	40 - 140	5	20
Naphthalene			4.00	2.705		ug/L		68	40 - 140	0	20
Phenanthrene			4.00	2.859		ug/L		71	40 - 140	10	20
Pyrene			4.00	3.034		ug/L		76	40 - 140	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*
Terphenyl-d14	*62*		*30 - 130*
Benzo(e)pyrene-d12	*79*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21209

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	ND		4.17	2.523		ug/L		61	40 - 140
2-Methylnaphthalene	ND		4.17	2.211		ug/L		53	40 - 140
Acenaphthene	ND		4.17	2.154		ug/L		52	40 - 140
Acenaphthylene	ND		4.17	2.084		ug/L		50	40 - 140
Anthracene	ND		4.17	2.147		ug/L		52	40 - 140
Benzo[a]anthracene	ND	*1	4.17	4.704		ug/L		113	40 - 140
Benzo[a]pyrene	ND	*1	4.17	3.785		ug/L		91	40 - 140
Benzo[b]fluoranthene	ND		4.17	4.580		ug/L		110	40 - 140
Benzo[g,h,i]perylene	ND	*1	4.17	3.903		ug/L		94	40 - 140
Benzo[k]fluoranthene	ND	*1	4.17	3.509		ug/L		84	40 - 140
Chrysene	ND		4.17	3.425		ug/L		82	40 - 140
Dibenz(a,h)anthracene	ND	*- *1	4.17	4.307		ug/L		103	40 - 140
Fluoranthene	ND		4.17	2.058		ug/L		49	40 - 140
Fluorene	ND		4.17	1.678		ug/L		40	40 - 140
Indeno[1,2,3-cd]pyrene	ND	*- *1	4.17	4.701		ug/L		113	40 - 140
Naphthalene	ND		4.17	2.332		ug/L		56	40 - 140
Phenanthrene	ND		4.17	1.861		ug/L		45	40 - 140
Pyrene	ND		4.17	2.413		ug/L		58	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*47*		*30 - 130*
Terphenyl-d14	*45*		*30 - 130*
Benzo(e)pyrene-d12	*51*		*30 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21209

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	ND		4.00	3.283		ug/L		82	40 - 140	26	20
2-Methylnaphthalene	ND		4.00	2.806		ug/L		70	40 - 140	24	20
Acenaphthene	ND		4.00	2.813		ug/L		70	40 - 140	27	20
Acenaphthylene	ND		4.00	2.774		ug/L		69	40 - 140	28	20
Anthracene	ND		4.00	2.621		ug/L		66	40 - 140	20	20
Benzo[a]anthracene	ND	*1	4.00	5.549		ug/L		139	40 - 140	16	20
Benzo[a]pyrene	ND	*1	4.00	4.368		ug/L		109	40 - 140	14	20
Benzo[b]fluoranthene	ND		4.00	5.179		ug/L		129	40 - 140	12	20
Benzo[g,h,i]perylene	ND	*1	4.00	4.432		ug/L		111	40 - 140	13	20
Benzo[k]fluoranthene	ND	*1	4.00	4.095		ug/L		102	40 - 140	15	20
Chrysene	ND		4.00	3.962		ug/L		99	40 - 140	15	20
Dibenz(a,h)anthracene	ND	*- *1	4.00	4.850		ug/L		121	40 - 140	12	20
Fluoranthene	ND		4.00	2.395		ug/L		60	40 - 140	15	20
Fluorene	ND		4.00	1.923		ug/L		48	40 - 140	14	20
Indeno[1,2,3-cd]pyrene	ND	*- *1	4.00	5.316		ug/L		133	40 - 140	12	20
Naphthalene	ND		4.00	2.856		ug/L		71	40 - 140	20	20
Phenanthrene	ND		4.00	2.234		ug/L		56	40 - 140	18	20
Pyrene	ND		4.00	2.824		ug/L		71	40 - 140	16	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21209

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21080

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*61*		*30 - 130*
Terphenyl-d14	*54*		*30 - 130*
Benzo(e)pyrene-d12	*60*		*30 - 130*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 620-21124/6
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 13:44	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 13:44	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*

Lab Sample ID: LCS 620-21124/3
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C10 Aromatics	20.0	ND		ug/L		115	70 - 130
C5-C8 Aliphatics (unadjusted)	60.0	ND		ug/L		100	70 - 130
C9-C12 Aliphatics (unadjusted)	60.0	ND		ug/L		81	70 - 130
Benzene	20.0	20.29		ug/L		101	70 - 130
Ethylbenzene	20.0	21.87		ug/L		109	70 - 130
Methyl tert-butyl ether	20.0	18.80		ug/L		94	70 - 130
Naphthalene	20.0	21.58		ug/L		108	70 - 130
Toluene	20.0	20.18		ug/L		101	70 - 130
m,p-Xylene	40.0	41.83		ug/L		105	70 - 130
o-Xylene	20.0	22.10		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: LCSD 620-21124/4
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics			20.0	ND		ug/L		115	70 - 130	0	25
C5-C8 Aliphatics (unadjusted)			60.0	ND		ug/L		99	70 - 130	1	25
C9-C12 Aliphatics (unadjusted)			60.0	ND		ug/L		78	70 - 130	3	25
Benzene			20.0	20.24		ug/L		101	70 - 130	0	25
Ethylbenzene			20.0	21.59		ug/L		108	70 - 130	1	25
Methyl tert-butyl ether			20.0	19.23		ug/L		96	70 - 130	2	25
Naphthalene			20.0	21.94		ug/L		110	70 - 130	2	25
Toluene			20.0	19.95		ug/L		100	70 - 130	1	25
m,p-Xylene			40.0	41.12		ug/L		103	70 - 130	2	25
o-Xylene			20.0	21.92		ug/L		110	70 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*
2,5-Dibromotoluene (pid)	*89*		*70 - 130*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21124

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C10 Aromatics	ND		20.3	ND		ug/L		NC	70 - 130
C5-C8 Aliphatics (unadjusted)	ND		61.0	150.2		ug/L		NC	70 - 130
C9-C12 Aliphatics (unadjusted)	ND		61.0	218.9		ug/L		NC	70 - 130
Benzene	ND		20.3	22.02		ug/L		108	70 - 130
Ethylbenzene	ND		20.3	23.81		ug/L		117	70 - 130
Methyl tert-butyl ether	ND		20.3	19.93		ug/L		98	70 - 130
Naphthalene	ND		20.3	22.07		ug/L		108	70 - 130
Toluene	ND		20.3	21.93		ug/L		108	70 - 130
m,p-Xylene	ND		40.7	45.03		ug/L		111	70 - 130
o-Xylene	ND		20.3	24.25		ug/L		119	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*
2,5-Dibromotoluene (pid)	*84*		*70 - 130*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21124

Client Sample ID: 2023-MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics	ND		20.3	ND		ug/L		NC	70 - 130	NC	30
C5-C8 Aliphatics (unadjusted)	ND		61.0	148.8		ug/L		NC	70 - 130	1	30
C9-C12 Aliphatics (unadjusted)	ND		61.0	210.1		ug/L		NC	70 - 130	4	30
Benzene	ND		20.3	21.93		ug/L		108	70 - 130	0	30
Ethylbenzene	ND		20.3	23.55		ug/L		116	70 - 130	1	30
Methyl tert-butyl ether	ND		20.3	19.95		ug/L		98	70 - 130	0	30
Naphthalene	ND		20.3	22.57		ug/L		111	70 - 130	2	30
Toluene	ND		20.3	21.66		ug/L		106	70 - 130	1	30

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 620-10573-2 MSD **Client Sample ID: 2023-MW-04**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylene	ND		40.7	44.61		ug/L		110	70 - 130	1	30
o-Xylene	ND		20.3	23.99		ug/L		118	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*91*		*70 - 130*
2,5-Dibromotoluene (pid)	*91*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-21137/1-A **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21225 **Prep Batch: 21137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/10/23 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*

Lab Sample ID: LCS 620-21137/2-A **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 21181 **Prep Batch: 21137**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			4.00	2.710		ug/L		68	40 - 140		
PCB-1016			4.00	2.285		ug/L		57	40 - 140		
PCB-1260			4.00	2.703		ug/L		68	40 - 140		
PCB-1260			4.00	2.560		ug/L		64	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*30 - 150*
Tetrachloro-m-xylene	*52*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCSD 620-21137/3-A
Matrix: Water
Analysis Batch: 21181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21137

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			4.00	2.599		ug/L		65	40 - 140	4	20
PCB-1016			4.00	2.381		ug/L		60	40 - 140	4	20
PCB-1260			4.00	3.171		ug/L		79	40 - 140	16	20
PCB-1260			4.00	2.907		ug/L		73	40 - 140	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*58*		*30 - 150*
Tetrachloro-m-xylene	*56*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 21181

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		3.85	1.977		ug/L		51	40 - 140
PCB-1260	ND		3.85	2.667		ug/L		69	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*44*		*30 - 150*
Tetrachloro-m-xylene	*42*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*52*		*30 - 150*

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 21181

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		4.00	2.374		ug/L		59	40 - 140	18	20
PCB-1260	ND		4.00	2.646		ug/L		66	40 - 140	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*30 - 150*
Tetrachloro-m-xylene	*58*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*86*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-361883/1-A
Matrix: Water
Analysis Batch: 362616

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 04:43	04/10/23 07:41	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 04:43	04/10/23 07:41	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-361883/1-A
Matrix: Water
Analysis Batch: 362616

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.00	0.680	ug/L		04/07/23 04:43	04/10/23 07:41	1
Barium	ND		2.00	0.746	ug/L		04/07/23 04:43	04/10/23 07:41	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 04:43	04/10/23 07:41	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 04:43	04/10/23 07:41	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 04:43	04/10/23 07:41	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 04:43	04/10/23 07:41	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 04:43	04/10/23 07:41	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 04:43	04/10/23 07:41	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 04:43	04/10/23 07:41	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 04:43	04/10/23 07:41	1
Silver	ND		0.500	0.100	ug/L		04/07/23 04:43	04/10/23 07:41	1

Lab Sample ID: LCS 410-361883/2-A
Matrix: Water
Analysis Batch: 362616

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	517.8		ug/L		104	80 - 120
Antimony	100	105.8		ug/L		106	80 - 120
Arsenic	500	514.9		ug/L		103	80 - 120
Barium	500	522.5		ug/L		105	80 - 120
Beryllium	50.0	50.96		ug/L		102	80 - 120
Cadmium	50.0	52.82		ug/L		106	80 - 120
Chromium	500	508.9		ug/L		102	80 - 120
Nickel	500	513.2		ug/L		103	80 - 120
Lead	50.0	52.74		ug/L		105	80 - 120
Selenium	100	104.7		ug/L		105	80 - 120
Thallium	100	105.6		ug/L		106	80 - 120
Vanadium	500	510.1		ug/L		102	80 - 120
Silver	50.0	53.45		ug/L		107	80 - 120

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 362616

Client Sample ID: 2023-MW-04
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	41.5		500	552.6		ug/L		102	75 - 125
Antimony	ND		100	104.7		ug/L		105	75 - 125
Arsenic	ND		500	516.4		ug/L		103	75 - 125
Barium	26.0		500	550.6		ug/L		105	75 - 125
Beryllium	ND		50.0	51.20		ug/L		102	75 - 125
Cadmium	ND		50.0	52.17		ug/L		104	75 - 125
Chromium	ND		500	502.9		ug/L		101	75 - 125
Nickel	ND		500	514.0		ug/L		103	75 - 125
Lead	0.146	J	50.0	52.11		ug/L		104	75 - 125
Selenium	ND		100	103.5		ug/L		104	75 - 125
Thallium	ND		100	103.4		ug/L		103	75 - 125
Vanadium	ND		500	502.6		ug/L		101	75 - 125
Silver	ND		50.0	53.56		ug/L		107	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 362616

Client Sample ID: 2023-MW-04
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Zinc	41.5		500	555.5		ug/L		103	75 - 125	1	20
Antimony	ND		100	104.9		ug/L		105	75 - 125	0	20
Arsenic	ND		500	511.6		ug/L		102	75 - 125	1	20
Barium	26.0		500	548.9		ug/L		105	75 - 125	0	20
Beryllium	ND		50.0	51.34		ug/L		103	75 - 125	0	20
Cadmium	ND		50.0	52.67		ug/L		105	75 - 125	1	20
Chromium	ND		500	504.1		ug/L		101	75 - 125	0	20
Nickel	ND		500	510.8		ug/L		102	75 - 125	1	20
Lead	0.146	J	50.0	52.14		ug/L		104	75 - 125	0	20
Selenium	ND		100	103.9		ug/L		104	75 - 125	0	20
Thallium	ND		100	103.7		ug/L		104	75 - 125	0	20
Vanadium	ND		500	506.8		ug/L		101	75 - 125	1	20
Silver	ND		50.0	53.19		ug/L		106	75 - 125	1	20

Lab Sample ID: 620-10573-2 DU
Matrix: Water
Analysis Batch: 362616

Client Sample ID: 2023-MW-04
Prep Type: Total Recoverable
Prep Batch: 361883

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Zinc	41.5			43.22		ug/L				4	20
Antimony	ND			ND		ug/L				NC	20
Arsenic	ND			ND		ug/L				NC	20
Barium	26.0			26.62		ug/L				2	20
Beryllium	ND			ND		ug/L				NC	20
Cadmium	ND			ND		ug/L				NC	20
Chromium	ND			ND		ug/L				NC	20
Nickel	ND			ND		ug/L				NC	20
Lead	0.146	J		0.1380	J	ug/L				6	20
Selenium	ND			ND		ug/L				NC	20
Thallium	ND			ND		ug/L				NC	20
Vanadium	ND			ND		ug/L				NC	20
Silver	ND			ND		ug/L				NC	20

Lab Sample ID: MB 410-362080/1-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 07:45	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 07:45	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 07:45	1
Barium	ND		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 07:45	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 07:45	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 07:45	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 07:45	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 07:45	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 07:45	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 07:45	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 07:45	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-362080/1-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 07:45	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 07:45	1

Lab Sample ID: LCS 410-362080/2-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	523.9		ug/L		105	80 - 120
Antimony	100	103.8		ug/L		104	80 - 120
Arsenic	500	526.4		ug/L		105	80 - 120
Barium	500	529.7		ug/L		106	80 - 120
Beryllium	50.0	49.60		ug/L		99	80 - 120
Cadmium	50.0	52.78		ug/L		106	80 - 120
Chromium	500	533.0		ug/L		107	80 - 120
Nickel	500	524.9		ug/L		105	80 - 120
Lead	50.0	53.20		ug/L		106	80 - 120
Selenium	100	104.9		ug/L		105	80 - 120
Thallium	100	105.6		ug/L		106	80 - 120
Vanadium	500	530.4		ug/L		106	80 - 120
Silver	50.0	53.49		ug/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-361425/1-A
Matrix: Water
Analysis Batch: 361739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/06/23 03:53	04/06/23 14:38	1

Lab Sample ID: LCS 410-361425/2-A
Matrix: Water
Analysis Batch: 361739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.9159		ug/L		92	80 - 120

Lab Sample ID: 620-10573-2 MS
Matrix: Water
Analysis Batch: 361739

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		1.00	0.8927		ug/L		89	75 - 125

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 620-10573-2 MSD
Matrix: Water
Analysis Batch: 361739

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		1.00	0.8933		ug/L		89	75 - 125	0	20

Lab Sample ID: 620-10573-2 DU
Matrix: Water
Analysis Batch: 361739

Client Sample ID: 2023-MW-04
Prep Type: Total/NA
Prep Batch: 361425

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		ug/L				NC	20

GC/MS VOA

Analysis Batch: 21052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8260C	
620-10573-3	2023-MW-06	Total/NA	Water	8260C	
620-10573-4	2023-MW-05	Total/NA	Water	8260C	
MB 620-21052/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21052/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21052/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 21055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-6	2023-TB-01	Total/NA	Water	8260C	
MB 620-21055/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21055/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21055/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 21085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8260C	
620-10573-5	2023-FD-01	Total/NA	Water	8260C	
MB 620-21085/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21085/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21085/5	Lab Control Sample Dup	Total/NA	Water	8260C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	8260C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 21036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	3510C	
620-10573-3	2023-MW-06	Total/NA	Water	3510C	
620-10573-4	2023-MW-05	Total/NA	Water	3510C	
620-10573-5	2023-FD-01	Total/NA	Water	3510C	
MB 620-21036/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21036/13-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 620-21036/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21036/14-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 620-21036/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 21071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8270D	21036
620-10573-3	2023-MW-06	Total/NA	Water	8270D	21036
620-10573-4	2023-MW-05	Total/NA	Water	8270D	21036
620-10573-5	2023-FD-01	Total/NA	Water	8270D	21036
MB 620-21036/1-A	Method Blank	Total/NA	Water	8270D	21036
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21036/2-A	Lab Control Sample	Total/NA	Water	8270D	21036
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21036/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	21036
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080

GC/MS Semi VOA

Prep Batch: 21080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	3510C	
MB 620-21080/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	3510C	

Analysis Batch: 21159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080
620-10573-2 MS	2023-MW-04	Total/NA	Water	8270D	21080
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8270D	21080

Analysis Batch: 21209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8270D	21080
620-10573-2 MS	2023-MW-04	Total/NA	Water	8270D	21080
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8270D	21080

Analysis Batch: 21216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8270D	21036
620-10573-3	2023-MW-06	Total/NA	Water	8270D	21036
620-10573-4	2023-MW-05	Total/NA	Water	8270D	21036
620-10573-5	2023-FD-01	Total/NA	Water	8270D	21036

Analysis Batch: 21311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8270D	21080
MB 620-21036/1-A	Method Blank	Total/NA	Water	8270D	21036
LCS 620-21036/13-A	Lab Control Sample	Total/NA	Water	8270D	21036
LCSD 620-21036/14-A	Lab Control Sample Dup	Total/NA	Water	8270D	21036

GC VOA

Analysis Batch: 21124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	MAVPH2.1	
620-10573-2	2023-MW-04	Total/NA	Water	MAVPH2.1	
620-10573-3	2023-MW-06	Total/NA	Water	MAVPH2.1	
620-10573-4	2023-MW-05	Total/NA	Water	MAVPH2.1	
620-10573-5	2023-FD-01	Total/NA	Water	MAVPH2.1	
620-10573-6	2023-TB-01	Total/NA	Water	MAVPH2.1	
MB 620-21124/6	Method Blank	Total/NA	Water	MAVPH2.1	
LCS 620-21124/3	Lab Control Sample	Total/NA	Water	MAVPH2.1	

GC VOA (Continued)

Analysis Batch: 21124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 620-21124/4	Lab Control Sample Dup	Total/NA	Water	MAVPH2.1	
620-10573-2 MS	2023-MW-04	Total/NA	Water	MAVPH2.1	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	MAVPH2.1	

GC Semi VOA

Prep Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	3510C	
620-10573-2	2023-MW-04	Total/NA	Water	3510C	
620-10573-3	2023-MW-06	Total/NA	Water	3510C	
620-10573-4	2023-MW-05	Total/NA	Water	3510C	
620-10573-5	2023-FD-01	Total/NA	Water	3510C	
MB 620-21137/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
620-10573-2 MS	2023-MW-04	Total/NA	Water	3510C	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	3510C	

Analysis Batch: 21181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-2	2023-MW-04	Total/NA	Water	8082	21137
620-10573-3	2023-MW-06	Total/NA	Water	8082	21137
620-10573-4	2023-MW-05	Total/NA	Water	8082	21137
620-10573-5	2023-FD-01	Total/NA	Water	8082	21137
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	8082	21137
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	8082	21137
620-10573-2 MS	2023-MW-04	Total/NA	Water	8082	21137
620-10573-2 MSD	2023-MW-04	Total/NA	Water	8082	21137

Analysis Batch: 21225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	8082	21137
MB 620-21137/1-A	Method Blank	Total/NA	Water	8082	21137

Metals

Prep Batch: 361425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	7470A	
620-10573-2	2023-MW-04	Total/NA	Water	7470A	
620-10573-3	2023-MW-06	Total/NA	Water	7470A	
620-10573-4	2023-MW-05	Total/NA	Water	7470A	
620-10573-5	2023-FD-01	Total/NA	Water	7470A	
MB 410-361425/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-361425/2-A	Lab Control Sample	Total/NA	Water	7470A	
620-10573-2 MS	2023-MW-04	Total/NA	Water	7470A	
620-10573-2 MSD	2023-MW-04	Total/NA	Water	7470A	
620-10573-2 DU	2023-MW-04	Total/NA	Water	7470A	

Metals

Analysis Batch: 361739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total/NA	Water	7470A	361425
620-10573-2	2023-MW-04	Total/NA	Water	7470A	361425
620-10573-3	2023-MW-06	Total/NA	Water	7470A	361425
620-10573-4	2023-MW-05	Total/NA	Water	7470A	361425
620-10573-5	2023-FD-01	Total/NA	Water	7470A	361425
MB 410-361425/1-A	Method Blank	Total/NA	Water	7470A	361425
LCS 410-361425/2-A	Lab Control Sample	Total/NA	Water	7470A	361425
620-10573-2 MS	2023-MW-04	Total/NA	Water	7470A	361425
620-10573-2 MSD	2023-MW-04	Total/NA	Water	7470A	361425
620-10573-2 DU	2023-MW-04	Total/NA	Water	7470A	361425

Prep Batch: 361883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total Recoverable	Water	3005A	
620-10573-2	2023-MW-04	Total Recoverable	Water	3005A	
620-10573-4	2023-MW-05	Total Recoverable	Water	3005A	
620-10573-5	2023-FD-01	Total Recoverable	Water	3005A	
MB 410-361883/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-361883/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
620-10573-2 MS	2023-MW-04	Total Recoverable	Water	3005A	
620-10573-2 MSD	2023-MW-04	Total Recoverable	Water	3005A	
620-10573-2 DU	2023-MW-04	Total Recoverable	Water	3005A	

Prep Batch: 362080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-3	2023-MW-06	Total Recoverable	Water	3005A	
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 362616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-1	2023-MW-03	Total Recoverable	Water	6020B	361883
620-10573-2	2023-MW-04	Total Recoverable	Water	6020B	361883
620-10573-4	2023-MW-05	Total Recoverable	Water	6020B	361883
620-10573-5	2023-FD-01	Total Recoverable	Water	6020B	361883
MB 410-361883/1-A	Method Blank	Total Recoverable	Water	6020B	361883
LCS 410-361883/2-A	Lab Control Sample	Total Recoverable	Water	6020B	361883
620-10573-2 MS	2023-MW-04	Total Recoverable	Water	6020B	361883
620-10573-2 MSD	2023-MW-04	Total Recoverable	Water	6020B	361883
620-10573-2 DU	2023-MW-04	Total Recoverable	Water	6020B	361883

Analysis Batch: 363601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10573-3	2023-MW-06	Total Recoverable	Water	6020B	362080
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	6020B	362080
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	6020B	362080

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-03 Lab Sample ID: 620-10573-1

Date Collected: 03/30/23 11:25 **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21052	CLR	EET NE	04/04/23 20:59
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21311	JS	EET NE	04/12/23 17:07
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 17:15
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 17:57
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21225	SFL	EET NE	04/10/23 12:08
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 08:07
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:28

Client Sample ID: 2023-MW-04 Lab Sample ID: 620-10573-2

Date Collected: 03/30/23 14:20 **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21085	CLR	EET NE	04/05/23 18:20
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 16:36
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 17:11
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 17:22
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 20:58
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 07:45
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 14:43

Client Sample ID: 2023-MW-06 Lab Sample ID: 620-10573-3

Date Collected: 03/30/23 12:10 **Matrix: Water**
Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21052	CLR	EET NE	04/04/23 21:25
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 17:05
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 17:41
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 18:32
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 21:50

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Client Sample ID: 2023-MW-06

Date Collected: 03/30/23 12:10
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:23
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:34

Client Sample ID: 2023-MW-05

Date Collected: 03/30/23 15:05
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21052	CLR	EET NE	04/04/23 21:51
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 17:34
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 18:11
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 19:08
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:07
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 08:05
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:11

Client Sample ID: 2023-FD-01

Date Collected: 03/30/23 08:00
Date Received: 03/31/23 15:05

Lab Sample ID: 620-10573-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21085	CLR	EET NE	04/05/23 17:54
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21216	JS	EET NE	04/10/23 18:03
Total/NA	Prep	3510C			21036	BMS	EET NE	04/04/23 08:36
Total/NA	Analysis	8270D		1	21071	JS	EET NE	04/05/23 18:40
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 19:43
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:25
Total Recoverable	Prep	3005A			361883	UAMX	ELLE	04/07/23 04:43
Total Recoverable	Analysis	6020B		1	362616	F7JF	ELLE	04/10/23 08:03
Total/NA	Prep	7470A			361425	UAMX	ELLE	04/06/23 03:53
Total/NA	Analysis	7470A		1	361739	UEFS	ELLE	04/06/23 15:07

Lab Chronicle

Client: Nobis Engineering, Inc.
Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-TB-01
Lab Sample ID: 620-10573-6

Date Collected: 03/30/23 07:00
Matrix: Water

Date Received: 03/31/23 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21055	CLR	EET NE	04/04/23 16:04
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 15:02

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3510C	Water	PCB-1016
8082	3510C	Water	PCB-1221
8082	3510C	Water	PCB-1232
8082	3510C	Water	PCB-1242
8082	3510C	Water	PCB-1248
8082	3510C	Water	PCB-1254
8082	3510C	Water	PCB-1260
8082	3510C	Water	PCB-1262
8082	3510C	Water	PCB-1268
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,1-Dichloropropene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,3-Trichloropropane
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane (EDB)
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,3-Dichloropropane
8260C		Water	1,3-Dichloropropene, Total
8260C		Water	1,4-Dichlorobenzene
8260C		Water	1,4-Dioxane
8260C		Water	2,2-Dichloropropane
8260C		Water	2-Butanone (MEK)
8260C		Water	2-Chlorotoluene
8260C		Water	2-Hexanone (MBK)
8260C		Water	4-Chlorotoluene
8260C		Water	4-Isopropyltoluene
8260C		Water	4-Methyl-2-pentanone (MIBK)
8260C		Water	Acetone
8260C		Water	Acrylonitrile
8260C		Water	Benzene
8260C		Water	Bromobenzene
8260C		Water	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Dibromochloromethane
8260C		Water	Dibromomethane
8260C		Water	Dichlorodifluoromethane (Freon 12)
8260C		Water	di-Isopropyl ether
8260C		Water	Ethanol
8260C		Water	Ethyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Ethylbenzene
8260C		Water	Hexachlorobutadiene
8260C		Water	Isopropylbenzene
8260C		Water	m,p-Xylene
8260C		Water	Methyl tert-butyl ether
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	n-Butylbenzene
8260C		Water	N-Propylbenzene
8260C		Water	o-Xylene
8260C		Water	sec-Butylbenzene
8260C		Water	Styrene
8260C		Water	Tert-amyl methyl ether
8260C		Water	tert-Butanol
8260C		Water	tert-Butylbenzene
8260C		Water	Tetrachloroethene
8260C		Water	Tetrahydrofuran
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	trans-1,4-Dichloro-2-butene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane (Freon 11)
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270D	3510C	Water	1,2,4-Trichlorobenzene
8270D	3510C	Water	1,2-Dichlorobenzene
8270D	3510C	Water	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	1,4-Dichlorobenzene
8270D	3510C	Water	1-Methylnaphthalene
8270D	3510C	Water	2,4,5-Trichlorophenol
8270D	3510C	Water	2,4,6-Trichlorophenol
8270D	3510C	Water	2,4-Dichlorophenol
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2,4-Dinitrotoluene
8270D	3510C	Water	2,6-Dinitrotoluene
8270D	3510C	Water	2-Chloronaphthalene
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	2-Methylnaphthalene
8270D	3510C	Water	2-Methylphenol
8270D	3510C	Water	2-Nitroaniline
8270D	3510C	Water	2-Nitrophenol
8270D	3510C	Water	3 & 4 Methylphenol
8270D	3510C	Water	3,3'-Dichlorobenzidine
8270D	3510C	Water	3-Nitroaniline
8270D	3510C	Water	4,6-Dinitro-2-methylphenol
8270D	3510C	Water	4-Bromophenyl phenyl ether
8270D	3510C	Water	4-Chloro-3-methylphenol
8270D	3510C	Water	4-Chloroaniline
8270D	3510C	Water	4-Chlorophenyl phenyl ether
8270D	3510C	Water	4-Nitroaniline
8270D	3510C	Water	4-Nitrophenol
8270D	3510C	Water	Acenaphthene
8270D	3510C	Water	Acenaphthylene
8270D	3510C	Water	Acetophenone
8270D	3510C	Water	Aniline
8270D	3510C	Water	Anthracene
8270D	3510C	Water	Azobenzene/Diphenyldiazene
8270D	3510C	Water	Benzidine
8270D	3510C	Water	Benzo[a]anthracene
8270D	3510C	Water	Benzo[a]pyrene
8270D	3510C	Water	Benzo[b]fluoranthene
8270D	3510C	Water	Benzo[g,h,i]perylene
8270D	3510C	Water	Benzo[k]fluoranthene
8270D	3510C	Water	Benzoic acid
8270D	3510C	Water	Benzyl alcohol
8270D	3510C	Water	bis (2-chloroisopropyl) ether
8270D	3510C	Water	Bis(2-chloroethoxy)methane
8270D	3510C	Water	Bis(2-chloroethyl)ether
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D	3510C	Water	Butyl benzyl phthalate
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Chrysene
8270D	3510C	Water	Dibenz(a,h)anthracene

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	Dibenzofuran
8270D	3510C	Water	Diethyl phthalate
8270D	3510C	Water	Dimethyl phthalate
8270D	3510C	Water	Di-n-butyl phthalate
8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Fluorene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isophorone
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodimethylamine
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosodiphenylamine
8270D	3510C	Water	Pentachloronitrobenzene
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol
8270D	3510C	Water	Pyrene
8270D	3510C	Water	Pyridine
MAVPH2.1		Water	Benzene
MAVPH2.1		Water	C5-C8 Aliphatics (adjusted)
MAVPH2.1		Water	C5-C8 Aliphatics (unadjusted)
MAVPH2.1		Water	C9-C10 Aromatics
MAVPH2.1		Water	C9-C12 Aliphatics (adjusted)
MAVPH2.1		Water	C9-C12 Aliphatics (unadjusted)
MAVPH2.1		Water	Ethylbenzene
MAVPH2.1		Water	m,p-Xylene
MAVPH2.1		Water	Methyl tert-butyl ether
MAVPH2.1		Water	Naphthalene
MAVPH2.1		Water	o-Xylene
MAVPH2.1		Water	Toluene
MAVPH2.1		Water	Xylenes, Total

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	04-17-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	04-17-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	04-17-23
Iowa	State	361	04-12-23
Kansas	NELAP	E-10151	04-17-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	04-17-23
Louisiana (All)	NELAP	02055	04-17-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	04-24-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	04-17-23
New Jersey	NELAP	PA011	04-17-23
New York	NELAP	10670	04-17-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	04-23-23
North Dakota	State	R-205	04-17-23
Oklahoma	NELAP	R-205	04-24-23
Oregon	NELAP	PA200001	04-12-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	04-17-23
Rhode Island	State	LAO00338	04-17-23
South Carolina	State	89002	04-23-23
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	04-17-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	04-17-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10573-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MAVPH2.1	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET NE
5030C	Purge and Trap	SW846	EET NE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10573-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10573-1	2023-MW-03	Water	03/30/23 11:25	03/31/23 15:05
620-10573-2	2023-MW-04	Water	03/30/23 14:20	03/31/23 15:05
620-10573-3	2023-MW-06	Water	03/30/23 12:10	03/31/23 15:05
620-10573-4	2023-MW-05	Water	03/30/23 15:05	03/31/23 15:05
620-10573-5	2023-FD-01	Water	03/30/23 08:00	03/31/23 15:05
620-10573-6	2023-TB-01	Water	03/30/23 07:00	03/31/23 15:05

620-10573 Chain of Custody

10573

Chain of Custody Record

Boston #215

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	Sampler: L.Mato. S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 1
Client Contact: Bridget Fortier	Phone:	E-Mail:	State of Origin:	Page: Page 1 of 3
Company: Nobis Engineering Inc.	PWSID:	Analysis Requested		Job #:

Address: 585 Middlesex Street	Due Date Requested	
City: Lowell	TAT Requested (days): STD	
State, Zip: MA, 01851	Compliance Project: Δ Yes Δ No	
Phone:	PO #: S00001.002	
Email: bfortier@nobis-group.com ldmcgrath@nobis-group.com	WO #:	
Project Name: 4 Holeman Street, Templeton MA	Project #:	
Site:	SSOW#:	

Preservation Codes:

A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify); Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs SW846 8260	5 VOCs SW846 8270	VPH SW846 8082	PCBs 8082	Metals 6020 7471A	PFAS EPA Method 537.1	Total Number of containers	Special Instructions/Note:
	Preservation Code:														
01	2023-MW-03	3/30/23	1125	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-04		1420		Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-06		1210		Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-05		1505		Water			✓	✓	✓	✓	✓	✓		
05	2023-FD-01		800		Water			✓	✓	✓	✓	✓	✓		
06	Trip Blank 2023-TB-01		700		Water			✓	✓						
					Water										
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, (IV) Other (specify)

Special Instructions/QC Requirements: email to dmcgrath@nobis-group.com EQuIS EDD 2023-MW-04 is MS/MSD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company		Date/Time:	Company
Relinquished by: L.Mato	3/30/23 7:24		Received by: Basement fridge	3/30/23 7:24	
Relinquished by:	3/30/23 3:07		Received by:	3/31/23 1505	EA
Relinquished by:	4/3/23 1314	EA	Received by:	4/3/23 1314	ENE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.6 & 2.2 2.8 tb

Ver: 06/08/2021

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5/11/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8924.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10573-1
Address: 2425 New Holland Pike,	Due Date Requested: 4/11/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	PRE_SCREEN_PFAS/PFAS_PreScn_W_P	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
2023-MW-03 (620-10573-1)	3/30/23	11:25 Eastern		Water			X	X	X	X	3	
2023-MW-04 (620-10573-2)	3/30/23	14:20 Eastern		Water			X	X	X	X	3	
2023-MW-06 (620-10573-3)	3/30/23	12:10 Eastern		Water			X	X	X	X	3	
2023-MW-05 (620-10573-4)	3/30/23	15:05 Eastern		Water			X	X	X	X	3	
2023-FD-01 (620-10573-5)	3/30/23	08:00 Eastern		Water			X	X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/3/23 16:37	GNE	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/5/23 9:55	EUET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.0

Ver: 06/08/2021

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8928.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10573-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/11/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
2023-MW-04 (620-10573-2MS)	3/30/23	14:20 Eastern	MS	Water			X	X	X	3	
2023-MW-04 (620-10573-2MSD)	3/30/23	14:20 Eastern	MSD	Water			X	X	X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/3/23 17:36	ENE	FedEx		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	4/5/23 9:55	ENE

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-1

Login Number: 10573
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10573-1

Login Number: 10573
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10579-2

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

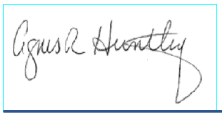
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10579-2

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/15/2023

Job ID: 620-10579-2

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10579-2

Receipt
The samples were received on 4/3/2023 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

LCMS
Method 537 (modified): The sample injection standard peak areas in the following sample: 2023-MW-08 (620-10579-4) is outside of the QC limits for the initial injection. The following action was taken: This sample(s) was re-extracted outside the required holding time and the recovery for the sample injection standard in the re-extracted sample(s) was within the QC acceptance limits. The data is reported.

Method 537 (modified): The recovery for the labeled isotope(s) d9-N-EtFOSE-M, d3-NMePFOSA and d5-NEtPFOSA in the following sample: 2023-MW-02 (620-10579-2) are outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) were again outside the QC acceptance limits.

Method 537 (modified): The recovery for the labeled isotope(s) d5-NEtPFOSA in the following sample: 2023-MW-08 (620-10579-4) is outside the QC acceptance limits. The following action was taken: This sample was re-extracted outside of the required holding time and the recovery for labeled isotope(s) was again outside the QC acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-01 — Lab Sample ID: 620-10579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid	0.244	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.199	J	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.220	J I	1.99	0.199	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.892	J I	1.99	0.497	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.991	J	1.99	0.298	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-02 — Lab Sample ID: 620-10579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.709	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.910	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	1.23	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.709	J	1.93	0.193	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.21	J I	1.93	0.482	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	3.22		1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	0.587	J	1.93	0.289	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid - RE	0.311	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid - RE	0.516	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid - RE	0.564	J H	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid - RE	0.517	J H	1.94	0.194	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid - RE	0.844	J I H	1.94	0.484	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	1.91	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid - RE	0.369	J H	1.94	0.290	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-07 — Lab Sample ID: 620-10579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.367	J	1.86	0.278	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.36	J	1.86	0.928	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	0.419	J	1.86	0.278	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.520	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.249	J	1.86	0.186	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.44	J	1.86	0.464	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.15	J	1.86	0.278	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-08 — Lab Sample ID: 620-10579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	0.197	J	1.81	0.181	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.483	J	1.81	0.271	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid - RE	0.308	J H	2.00	0.300	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-MW-09 — Lab Sample ID: 620-10579-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid	0.905	J	1.78	0.266	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.411	J	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorohexanoic acid	0.191	J	1.78	0.178	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.484	J I	1.78	0.444	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	0.701	J	1.78	0.266	ng/L	1		537 IDA	Total/NA

Client Sample ID: 2023-PFB-01 — Lab Sample ID: 620-10579-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins New England

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-01
Date Collected: 03/31/23 12:15
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-1
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.99	0.796	ng/L		04/20/23 10:11	05/09/23 18:53	1
11Cl-PF3OUdS	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
4:2 Fluorotelomer sulfonic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
6:2 Fluorotelomer sulfonic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
8:2 Fluorotelomer sulfonic acid	ND		1.99	0.597	ng/L		04/20/23 10:11	05/09/23 18:53	1
9Cl-PF3ONS	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
DONA	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
HFPODA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSAA	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NEtFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSAA	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSA	ND		1.99	0.696	ng/L		04/20/23 10:11	05/09/23 18:53	1
NMeFOSE	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorobutanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorobutanoic acid	ND		1.99	0.995	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorodecanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorodecanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorododecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroheptanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroheptanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexadecanoic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexanesulfonic acid	**0.244**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorohexanoic acid	**0.199**	**J**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorononanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorononanoic acid	**0.220**	**J I**	1.99	0.199	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctadecanoic acid	ND		1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanesulfonamide	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanesulfonic acid	**0.892**	**J I**	1.99	0.497	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorooctanoic acid	**0.991**	**J**	1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoropentanesulfonic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoropentanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorotetradecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluorotridecanoic acid	ND		1.99	0.398	ng/L		04/20/23 10:11	05/09/23 18:53	1
Perfluoroundecanoic acid	ND		1.99	0.298	ng/L		04/20/23 10:11	05/09/23 18:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*114*		*10 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
M2-6:2 FTS	*137*		*17 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
M2-8:2 FTS	*153*		*33 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C2 PFTeDA	*106*		*10 - 179*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C3 HFPO-DA	*90*		*17 - 185*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C3 PFBS	*154*		*16 - 200*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C4 PFBA	*117*		*42 - 165*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C4 PFHpA	*104*		*31 - 182*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C8 PFOA	*106*		*48 - 162*	*04/20/23 10:11*	*05/09/23 18:53*	*1*
13C8 PFOS	*110*		*51 - 159*	*04/20/23 10:11*	*05/09/23 18:53*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01
Lab Sample ID: 620-10579-1
Date Collected: 03/31/23 12:15
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	114		31 - 174	04/20/23 10:11	05/09/23 18:53	1
d5-NEtFOSAA	117		29 - 195	04/20/23 10:11	05/09/23 18:53	1
d7-N-MeFOSE-M	75		10 - 178	04/20/23 10:11	05/09/23 18:53	1
d9-N-EtFOSE-M	74		10 - 177	04/20/23 10:11	05/09/23 18:53	1
13C3 PFHxS	115		28 - 188	04/20/23 10:11	05/09/23 18:53	1
13C5 PFHxA	102		24 - 179	04/20/23 10:11	05/09/23 18:53	1
13C6 PFDA	112		49 - 163	04/20/23 10:11	05/09/23 18:53	1
13C7 PFUnA	116		34 - 174	04/20/23 10:11	05/09/23 18:53	1
d3-NMePFOSA	20		10 - 155	04/20/23 10:11	05/09/23 18:53	1
d5-NEtPFOSA	18		10 - 159	04/20/23 10:11	05/09/23 18:53	1
13C8 FOSA	101		10 - 168	04/20/23 10:11	05/09/23 18:53	1
13C2-PFDoDA	116		17 - 176	04/20/23 10:11	05/09/23 18:53	1
13C9 PFNA	116		51 - 167	04/20/23 10:11	05/09/23 18:53	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-02

Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2

Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.93	0.771	ng/L		04/20/23 10:11	05/05/23 00:54	1
11Cl-PF3OUdS	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
4:2 Fluorotelomer sulfonic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
6:2 Fluorotelomer sulfonic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
8:2 Fluorotelomer sulfonic acid	ND		1.93	0.578	ng/L		04/20/23 10:11	05/05/23 00:54	1
9Cl-PF3ONS	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
DONA	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
HFPODA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSAA	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NEtFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSAA	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSA	ND		1.93	0.674	ng/L		04/20/23 10:11	05/05/23 00:54	1
NMeFOSE	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorobutanesulfonic acid	**0.709**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorobutanoic acid	ND		1.93	0.963	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorodecanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorodecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorododecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroheptanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroheptanoic acid	**0.910**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexadecanoic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexanesulfonic acid	**1.23**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorohexanoic acid	**0.709**	**J**	1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorononanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorononanoic acid	ND		1.93	0.193	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctadecanoic acid	ND		1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanesulfonamide	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanesulfonic acid	**1.21**	**J I**	1.93	0.482	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorooctanoic acid	**3.22**		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoropentanesulfonic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoropentanoic acid	**0.587**	**J**	1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorotetradecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluorotridecanoic acid	ND		1.93	0.385	ng/L		04/20/23 10:11	05/05/23 00:54	1
Perfluoroundecanoic acid	ND		1.93	0.289	ng/L		04/20/23 10:11	05/05/23 00:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*130*		*10 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
M2-6:2 FTS	*135*		*17 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
M2-8:2 FTS	*143*		*33 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C2 PFTeDA	*99*		*10 - 179*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C3 HFPO-DA	*113*		*17 - 185*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C3 PFBS	*138*		*16 - 200*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C4 PFBA	*116*		*42 - 165*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C4 PFHpA	*118*		*31 - 182*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C5 PFPeA	*121*		*38 - 187*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C8 PFOA	*117*		*48 - 162*	*04/20/23 10:11*	*05/05/23 00:54*	*1*
13C8 PFOS	*118*		*51 - 159*	*04/20/23 10:11*	*05/05/23 00:54*	*1*

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	115		31 - 174	04/20/23 10:11	05/05/23 00:54	1
d5-NEtFOSAA	107		29 - 195	04/20/23 10:11	05/05/23 00:54	1
d7-N-MeFOSE-M	14		10 - 178	04/20/23 10:11	05/05/23 00:54	1
d9-N-EtFOSE-M	8	*5-	10 - 177	04/20/23 10:11	05/05/23 00:54	1
13C3 PFHxS	124		28 - 188	04/20/23 10:11	05/05/23 00:54	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/05/23 00:54	1
13C6 PFDA	112		49 - 163	04/20/23 10:11	05/05/23 00:54	1
13C7 PFUnA	110		34 - 174	04/20/23 10:11	05/05/23 00:54	1
d3-NMePFOSA	0.3	*5-	10 - 155	04/20/23 10:11	05/05/23 00:54	1
d5-NEtPFOSA	0.4	*5-	10 - 159	04/20/23 10:11	05/05/23 00:54	1
13C8 FOSA	49		10 - 168	04/20/23 10:11	05/05/23 00:54	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/05/23 00:54	1
13C9 PFNA	112		51 - 167	04/20/23 10:11	05/05/23 00:54	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	1.94	0.774	ng/L		05/10/23 08:01	05/12/23 06:57	1
11Cl-PF3OUdS	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
4:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
6:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
8:2 Fluorotelomer sulfonic acid	ND	H	1.94	0.581	ng/L		05/10/23 08:01	05/12/23 06:57	1
9Cl-PF3ONS	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
DONA	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
HFPODA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSAA	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NEtFOSE	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSAA	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSA	ND	H	1.94	0.678	ng/L		05/10/23 08:01	05/12/23 06:57	1
NMeFOSE	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorobutanesulfonic acid	**0.311**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorobutanoic acid	ND	H	1.94	0.968	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorodecanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorodecanoic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorododecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroheptanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroheptanoic acid	**0.516**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexadecanoic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexanesulfonic acid	**0.564**	**J H**	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorohexanoic acid	**0.517**	**J H**	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorononanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorononanoic acid	ND	H	1.94	0.194	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctadecanoic acid	ND	H	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanesulfonamide	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanesulfonic acid	**0.844**	**J I H**	1.94	0.484	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorooctanoic acid	**1.91**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoropentanesulfonic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoropentanoic acid	**0.369**	**J H**	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-02
Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluorotridecanoic acid	ND	H	1.94	0.387	ng/L		05/10/23 08:01	05/12/23 06:57	1
Perfluoroundecanoic acid	ND	H	1.94	0.290	ng/L		05/10/23 08:01	05/12/23 06:57	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
M2-6:2 FTS	*135*		*17 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
M2-8:2 FTS	*133*		*33 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C2 PFTeDA	*6*	**5-*	*10 - 179*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 HFPO-DA	*106*		*17 - 185*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 PFBS	*135*		*16 - 200*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C4 PFBA	*110*		*42 - 165*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C4 PFHpA	*102*		*31 - 182*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C5 PFPeA	*123*		*38 - 187*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 PFOA	*101*		*48 - 162*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 PFOS	*100*		*51 - 159*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d3-NMeFOSAA	*86*		*31 - 174*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d5-NEtFOSAA	*74*		*29 - 195*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d7-N-MeFOSE-M	*0.4*	**5-*	*10 - 178*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d9-N-EtFOSE-M	*0.3*	**5-*	*10 - 177*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C3 PFHxS	*113*		*28 - 188*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C5 PFHxA	*101*		*24 - 179*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C6 PFDA	*94*		*49 - 163*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C7 PFUnA	*67*		*34 - 174*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d3-NMePFOSA	*0.07*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
d5-NEtPFOSA	*0.08*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C8 FOSA	*9*	**5-*	*10 - 168*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C2-PFDoDA	*27*		*17 - 176*	*05/10/23 08:01*	*05/12/23 06:57*	*1*
13C9 PFNA	*106*		*51 - 167*	*05/10/23 08:01*	*05/12/23 06:57*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-07
Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.86	0.742	ng/L		04/20/23 10:11	05/09/23 19:04	1
11Cl-PF3OUdS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
4:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
6:2 Fluorotelomer sulfonic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
8:2 Fluorotelomer sulfonic acid	ND		1.86	0.557	ng/L		04/20/23 10:11	05/09/23 19:04	1
9Cl-PF3ONS	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
DONA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
HFPODA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSAA	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NEtFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSAA	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSA	ND		1.86	0.650	ng/L		04/20/23 10:11	05/09/23 19:04	1
NMeFOSE	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorobutanesulfonic acid	**0.367**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorobutanoic acid	**1.36**	**J**	1.86	0.928	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorodecanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorodecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorododecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroheptanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroheptanoic acid	**0.419**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexanesulfonic acid	ND		1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorohexanoic acid	**0.520**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorononanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorononanoic acid	**0.249**	**J**	1.86	0.186	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctadecanoic acid	ND		1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanesulfonamide	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanesulfonic acid	**1.44**	**J**	1.86	0.464	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorooctanoic acid	**1.15**	**J**	1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoropentanesulfonic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoropentanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorotetradecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluorotridecanoic acid	ND		1.86	0.371	ng/L		04/20/23 10:11	05/09/23 19:04	1
Perfluoroundecanoic acid	ND		1.86	0.278	ng/L		04/20/23 10:11	05/09/23 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*125*		*10 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
M2-6:2 FTS	*143*		*17 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C2 PFTeDA	*93*		*10 - 179*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C3 HFPO-DA	*98*		*17 - 185*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C3 PFBS	*165*		*16 - 200*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C4 PFHpA	*114*		*31 - 182*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C5 PFPeA	*142*		*38 - 187*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C8 PFOA	*116*		*48 - 162*	*04/20/23 10:11*	*05/09/23 19:04*	*1*
13C8 PFOS	*121*		*51 - 159*	*04/20/23 10:11*	*05/09/23 19:04*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-07
Lab Sample ID: 620-10579-3
Date Collected: 03/31/23 10:55
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	121		31 - 174	04/20/23 10:11	05/09/23 19:04	1
d5-NEtFOSAA	123		29 - 195	04/20/23 10:11	05/09/23 19:04	1
d7-N-MeFOSE-M	95		10 - 178	04/20/23 10:11	05/09/23 19:04	1
d9-N-EtFOSE-M	90		10 - 177	04/20/23 10:11	05/09/23 19:04	1
13C3 PFHxS	127		28 - 188	04/20/23 10:11	05/09/23 19:04	1
13C5 PFHxA	106		24 - 179	04/20/23 10:11	05/09/23 19:04	1
13C6 PFDA	120		49 - 163	04/20/23 10:11	05/09/23 19:04	1
13C7 PFUnA	118		34 - 174	04/20/23 10:11	05/09/23 19:04	1
d3-NMePFOSA	41		10 - 155	04/20/23 10:11	05/09/23 19:04	1
d5-NEtPFOSA	34		10 - 159	04/20/23 10:11	05/09/23 19:04	1
13C8 FOSA	115		10 - 168	04/20/23 10:11	05/09/23 19:04	1
13C2-PFDoDA	113		17 - 176	04/20/23 10:11	05/09/23 19:04	1
13C9 PFNA	124		51 - 167	04/20/23 10:11	05/09/23 19:04	1

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.81	0.722	ng/L		04/20/23 10:11	05/05/23 01:16	1
11Cl-PF3OUdS	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
4:2 Fluorotelomer sulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
6:2 Fluorotelomer sulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
8:2 Fluorotelomer sulfonic acid	ND		1.81	0.542	ng/L		04/20/23 10:11	05/05/23 01:16	1
9Cl-PF3ONS	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
DONA	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
HFPODA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSAA	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NEtFOSE	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSAA	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSA	ND		1.81	0.632	ng/L		04/20/23 10:11	05/05/23 01:16	1
NMeFOSE	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorobutanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorobutanoic acid	ND		1.81	0.903	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorodecanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorodecanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorododecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroheptanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroheptanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexadecanoic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexanesulfonic acid	ND		1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorohexanoic acid	**0.197**	**J**	1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorononanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorononanoic acid	ND		1.81	0.181	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctadecanoic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanesulfonamide	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanesulfonic acid	ND		1.81	0.451	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorooctanoic acid	**0.483**	**J**	1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoropentanesulfonic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoropentanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorotetradecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluorotridecanoic acid	ND		1.81	0.361	ng/L		04/20/23 10:11	05/05/23 01:16	1
Perfluoroundecanoic acid	ND		1.81	0.271	ng/L		04/20/23 10:11	05/05/23 01:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*141*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
M2-6:2 FTS	*155*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
M2-8:2 FTS	*153*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C2 PFTeDA	*110*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C3 HFPO-DA	*124*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C3 PFBS	*144*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C4 PFBA	*124*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C4 PFHpA	*131*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C5 PFPeA	*130*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C8 PFOA	*124*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:16*	*1*
13C8 PFOS	*120*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:16*	*1*

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	116		31 - 174	04/20/23 10:11	05/05/23 01:16	1
d5-NEtFOSAA	114		29 - 195	04/20/23 10:11	05/05/23 01:16	1
d7-N-MeFOSE-M	67		10 - 178	04/20/23 10:11	05/05/23 01:16	1
d9-N-EtFOSE-M	59		10 - 177	04/20/23 10:11	05/05/23 01:16	1
13C3 PFHxS	130		28 - 188	04/20/23 10:11	05/05/23 01:16	1
13C5 PFHxA	123		24 - 179	04/20/23 10:11	05/05/23 01:16	1
13C6 PFDA	121		49 - 163	04/20/23 10:11	05/05/23 01:16	1
13C7 PFUnA	123		34 - 174	04/20/23 10:11	05/05/23 01:16	1
d3-NMePFOSA	12		10 - 155	04/20/23 10:11	05/05/23 01:16	1
d5-NEtPFOSA	9	*5-	10 - 159	04/20/23 10:11	05/05/23 01:16	1
13C8 FOSA	103		10 - 168	04/20/23 10:11	05/05/23 01:16	1
13C2-PFDoDA	118		17 - 176	04/20/23 10:11	05/05/23 01:16	1
13C9 PFNA	114		51 - 167	04/20/23 10:11	05/05/23 01:16	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND	H	2.00	0.799	ng/L		05/10/23 08:01	05/12/23 07:08	1
11Cl-PF3OUdS	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
4:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
6:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
8:2 Fluorotelomer sulfonic acid	ND	H	2.00	0.599	ng/L		05/10/23 08:01	05/12/23 07:08	1
9Cl-PF3ONS	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
DONA	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
HFPODA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSAA	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NEtFOSE	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSAA	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSA	ND	H	2.00	0.699	ng/L		05/10/23 08:01	05/12/23 07:08	1
NMeFOSE	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorobutanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorobutanoic acid	ND	H	2.00	0.998	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorodecanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorodecanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorododecanesulfonic acid (PFDoS)	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorododecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroheptanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroheptanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexadecanoic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexanesulfonic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorohexanoic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorononanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorononanoic acid	ND	H	2.00	0.200	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctadecanoic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanesulfonamide	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanesulfonic acid	ND	H	2.00	0.499	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorooctanoic acid	**0.308**	**J H**	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoropentanesulfonic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoropentanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-08
Date Collected: 03/31/23 11:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-4
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluorotridecanoic acid	ND	H	2.00	0.399	ng/L		05/10/23 08:01	05/12/23 07:08	1
Perfluoroundecanoic acid	ND	H	2.00	0.300	ng/L		05/10/23 08:01	05/12/23 07:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*155*		*10 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
M2-6:2 FTS	*171*		*17 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
M2-8:2 FTS	*184*		*33 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C2 PFTeDA	*52*		*10 - 179*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 HFPO-DA	*140*		*17 - 185*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 PFBS	*170*		*16 - 200*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C4 PFBA	*110*		*42 - 165*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C4 PFHpA	*127*		*31 - 182*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C5 PFPeA	*155*		*38 - 187*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 PFOA	*127*		*48 - 162*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 PFOS	*133*		*51 - 159*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d3-NMeFOSAA	*130*		*31 - 174*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d5-NEtFOSAA	*130*		*29 - 195*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d7-N-MeFOSE-M	*19*		*10 - 178*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d9-N-EtFOSE-M	*17*		*10 - 177*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C3 PFHxS	*142*		*28 - 188*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C5 PFHxA	*125*		*24 - 179*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C6 PFDA	*135*		*49 - 163*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C7 PFUnA	*128*		*34 - 174*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d3-NMePFOSA	*0.4*	**5-*	*10 - 155*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
d5-NEtPFOSA	*0.2*	**5-*	*10 - 159*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C8 FOSA	*101*		*10 - 168*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C2-PFDoDA	*111*		*17 - 176*	*05/10/23 08:01*	*05/12/23 07:08*	*1*
13C9 PFNA	*135*		*51 - 167*	*05/10/23 08:01*	*05/12/23 07:08*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Client Sample ID: 2023-MW-09
Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5
Matrix: Water

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.78	0.710	ng/L		04/20/23 10:11	05/05/23 01:28	1
11Cl-PF3OUdS	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
4:2 Fluorotelomer sulfonic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
6:2 Fluorotelomer sulfonic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
8:2 Fluorotelomer sulfonic acid	ND		1.78	0.533	ng/L		04/20/23 10:11	05/05/23 01:28	1
9Cl-PF3ONS	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
DONA	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
HFPODA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSAA	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NEtFOSE	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSAA	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSA	ND		1.78	0.622	ng/L		04/20/23 10:11	05/05/23 01:28	1
NMeFOSE	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorobutanesulfonic acid	**0.905**	**J**	1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorobutanoic acid	ND		1.78	0.888	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorodecanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorodecanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorododecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroheptanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroheptanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexadecanoic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexanesulfonic acid	**0.411**	**J**	1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorohexanoic acid	**0.191**	**J**	1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorononanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorononanoic acid	ND		1.78	0.178	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctadecanoic acid	ND		1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanesulfonamide	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanesulfonic acid	**0.484**	**J I**	1.78	0.444	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorooctanoic acid	**0.701**	**J**	1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoropentanesulfonic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoropentanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorotetradecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluorotridecanoic acid	ND		1.78	0.355	ng/L		04/20/23 10:11	05/05/23 01:28	1
Perfluoroundecanoic acid	ND		1.78	0.266	ng/L		04/20/23 10:11	05/05/23 01:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*135*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
M2-6:2 FTS	*142*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
M2-8:2 FTS	*168*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C2 PFTeDA	*129*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C3 HFPO-DA	*95*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C3 PFBS	*153*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C4 PFBA	*126*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C4 PFHpA	*125*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C5 PFPeA	*132*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C8 PFOA	*124*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:28*	*1*
13C8 PFOS	*124*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:28*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-09
Lab Sample ID: 620-10579-5
Date Collected: 03/31/23 09:20
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	120		31 - 174	04/20/23 10:11	05/05/23 01:28	1
d5-NEtFOSAA	122		29 - 195	04/20/23 10:11	05/05/23 01:28	1
d7-N-MeFOSE-M	94		10 - 178	04/20/23 10:11	05/05/23 01:28	1
d9-N-EtFOSE-M	93		10 - 177	04/20/23 10:11	05/05/23 01:28	1
13C3 PFHxS	131		28 - 188	04/20/23 10:11	05/05/23 01:28	1
13C5 PFHxA	116		24 - 179	04/20/23 10:11	05/05/23 01:28	1
13C6 PFDA	122		49 - 163	04/20/23 10:11	05/05/23 01:28	1
13C7 PFUnA	124		34 - 174	04/20/23 10:11	05/05/23 01:28	1
d3-NMePFOSA	37		10 - 155	04/20/23 10:11	05/05/23 01:28	1
d5-NEtPFOSA	34		10 - 159	04/20/23 10:11	05/05/23 01:28	1
13C8 FOSA	118		10 - 168	04/20/23 10:11	05/05/23 01:28	1
13C2-PFDoDA	125		17 - 176	04/20/23 10:11	05/05/23 01:28	1
13C9 PFNA	115		51 - 167	04/20/23 10:11	05/05/23 01:28	1

Client Sample ID: 2023-PFB-01 Lab Sample ID: 620-10579-6

Date Collected: 03/31/23 18:30 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		1.97	0.787	ng/L		04/20/23 10:11	05/05/23 01:39	1
11Cl-PF3OUdS	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
4:2 Fluorotelomer sulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
6:2 Fluorotelomer sulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
8:2 Fluorotelomer sulfonic acid	ND		1.97	0.591	ng/L		04/20/23 10:11	05/05/23 01:39	1
9Cl-PF3ONS	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
DONA	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
HFPODA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSAA	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NEtFOSE	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSAA	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSA	ND		1.97	0.689	ng/L		04/20/23 10:11	05/05/23 01:39	1
NMeFOSE	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorobutanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorobutanoic acid	ND		1.97	0.984	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorodecanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorodecanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorododecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroheptanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroheptanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexadecanoic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexanesulfonic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorohexanoic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorononanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorononanoic acid	ND		1.97	0.197	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctadecanoic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanesulfonamide	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanesulfonic acid	ND		1.97	0.492	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorooctanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoropentanesulfonic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoropentanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorotetradecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluorotridecanoic acid	ND		1.97	0.394	ng/L		04/20/23 10:11	05/05/23 01:39	1
Perfluoroundecanoic acid	ND		1.97	0.295	ng/L		04/20/23 10:11	05/05/23 01:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*136*		*10 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
M2-6:2 FTS	*149*		*17 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
M2-8:2 FTS	*152*		*33 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C2 PFTeDA	*129*		*10 - 179*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C3 HFPO-DA	*116*		*17 - 185*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C3 PFBS	*131*		*16 - 200*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C4 PFBA	*121*		*42 - 165*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C4 PFHpA	*127*		*31 - 182*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C5 PFPeA	*127*		*38 - 187*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C8 PFOA	*125*		*48 - 162*	*04/20/23 10:11*	*05/05/23 01:39*	*1*
13C8 PFOS	*127*		*51 - 159*	*04/20/23 10:11*	*05/05/23 01:39*	*1*

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-PFB-01
Lab Sample ID: 620-10579-6
Date Collected: 03/31/23 18:30
Matrix: Water
Date Received: 04/03/23 13:14

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	116		31 - 174	04/20/23 10:11	05/05/23 01:39	1
d5-NEtFOSAA	119		29 - 195	04/20/23 10:11	05/05/23 01:39	1
d7-N-MeFOSE-M	93		10 - 178	04/20/23 10:11	05/05/23 01:39	1
d9-N-EtFOSE-M	95		10 - 177	04/20/23 10:11	05/05/23 01:39	1
13C3 PFHxS	129		28 - 188	04/20/23 10:11	05/05/23 01:39	1
13C5 PFHxA	129		24 - 179	04/20/23 10:11	05/05/23 01:39	1
13C6 PFDA	118		49 - 163	04/20/23 10:11	05/05/23 01:39	1
13C7 PFUnA	121		34 - 174	04/20/23 10:11	05/05/23 01:39	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/05/23 01:39	1
d5-NEtPFOSA	56		10 - 159	04/20/23 10:11	05/05/23 01:39	1
13C8 FOSA	117		10 - 168	04/20/23 10:11	05/05/23 01:39	1
13C2-PFDoDA	120		17 - 176	04/20/23 10:11	05/05/23 01:39	1
13C9 PFNA	124		51 - 167	04/20/23 10:11	05/05/23 01:39	1

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	PFTDA	HFPODA	C3PFBS	PFBA	C4PFHA
Lab Sample ID	Client Sample ID	(10-200)	(17-200)	(33-200)	(10-179)	(17-185)	(16-200)	(42-165)	(31-182)
620-10579-1	2023-MW-01	114	137	153	106	90	154	117	104
620-10579-2	2023-MW-02	130	135	143	99	113	138	116	118
620-10579-2 - RE	2023-MW-02	145	135	133	6 *5-	106	135	110	102
620-10579-3	2023-MW-07	125	143	165	93	98	165	124	114
620-10579-4	2023-MW-08	141	155	153	110	124	144	124	131
620-10579-4 - RE	2023-MW-08	155	171	184	52	140	170	110	127
620-10579-5	2023-MW-09	135	142	168	129	95	153	126	125
620-10579-6	2023-PFB-01	136	149	152	129	116	131	121	127
LCS 410-366531/2-A	Lab Control Sample	125	133	142	118	110	118	100	117
LCS 410-374042/3-A	Lab Control Sample	155	162	168	115	125	140	110	125
LCSD 410-374042/4-A	Lab Control Sample Dup	147	168	162	113	135	137	122	126
MB 410-366531/1-A	Method Blank	113	118	132	101	94	102	96	110
MB 410-374042/1-A	Method Blank	145	160	165	111	107	129	97	124

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFPeA	C8PFOA	C8PFOS	d3NMFOS	d5NEFOS	NMFM	NEFM	C3PFHS
Lab Sample ID	Client Sample ID	(38-187)	(48-162)	(51-159)	(31-174)	(29-195)	(10-178)	(10-177)	(28-188)
620-10579-1	2023-MW-01	132	106	110	114	117	75	74	115
620-10579-2	2023-MW-02	121	117	118	115	107	14	8 *5-	124
620-10579-2 - RE	2023-MW-02	123	101	100	86	74	0.4 *5-	0.3 *5-	113
620-10579-3	2023-MW-07	142	116	121	121	123	95	90	127
620-10579-4	2023-MW-08	130	124	120	116	114	67	59	130
620-10579-4 - RE	2023-MW-08	155	127	133	130	130	19	17	142
620-10579-5	2023-MW-09	132	124	124	120	122	94	93	131
620-10579-6	2023-PFB-01	127	125	127	116	119	93	95	129
LCS 410-366531/2-A	Lab Control Sample	113	116	113	113	115	87	85	120
LCS 410-374042/3-A	Lab Control Sample	132	127	134	127	125	91	88	134
LCSD 410-374042/4-A	Lab Control Sample Dup	131	125	130	124	120	90	84	132
MB 410-366531/1-A	Method Blank	103	105	102	95	99	81	80	106
MB 410-374042/1-A	Method Blank	124	118	126	120	118	86	81	128

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		13C5PHA	C6PFDA	13C7PUA	d3NMFSA	d5NPFSA	PFOSA	PFDoDA	C9PFNA
Lab Sample ID	Client Sample ID	(24-179)	(49-163)	(34-174)	(10-155)	(10-159)	(10-168)	(17-176)	(51-167)
620-10579-1	2023-MW-01	102	112	116	20	18	101	116	116
620-10579-2	2023-MW-02	109	112	110	0.3 *5-	0.4 *5-	49	106	112
620-10579-2 - RE	2023-MW-02	101	94	67	0.07 *5-	0.08 *5-	9 *5-	27	106
620-10579-3	2023-MW-07	106	120	118	41	34	115	113	124
620-10579-4	2023-MW-08	123	121	123	12	9 *5-	103	118	114
620-10579-4 - RE	2023-MW-08	125	135	128	0.4 *5-	0.2 *5-	101	111	135
620-10579-5	2023-MW-09	116	122	124	37	34	118	125	115
620-10579-6	2023-PFB-01	129	118	121	56	56	117	120	124
LCS 410-366531/2-A	Lab Control Sample	118	114	117	54	49	116	117	108
LCS 410-374042/3-A	Lab Control Sample	137	122	128	77	72	127	116	133
LCSD 410-374042/4-A	Lab Control Sample Dup	129	128	125	70	65	122	119	130
MB 410-366531/1-A	Method Blank	109	100	102	56	52	99	106	98
MB 410-374042/1-A	Method Blank	124	124	124	69	64	120	114	127

Surrogate Legend

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS

Isotope Dilution Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

M282FTS = M2-8:2 FTS
PFTDA = 13C2 PFTeDA
HFPODA = 13C3 HFPO-DA
C3PFBS = 13C3 PFBS
PFBA = 13C4 PFBA
C4PFHA = 13C4 PFHpA
PFPeA = 13C5 PFPeA
C8PFOA = 13C8 PFOA
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
C3PFHS = 13C3 PFHxS
13C5PHA = 13C5 PFHxA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
d3NMFSA = d3-NMePFOSA
d5NPFSA = d5-NEtPFOSA
PFOSA = 13C8 FOSA
PFDoDA = 13C2-PFDoDA
C9PFNA = 13C9 PFNA

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		04/20/23 10:11	05/04/23 21:46	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		04/20/23 10:11	05/04/23 21:46	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
DONA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
HFPODA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSAA	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NEtFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSAA	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSA	ND		2.00	0.700	ng/L		04/20/23 10:11	05/04/23 21:46	1
NMeFOSE	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		04/20/23 10:11	05/04/23 21:46	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		04/20/23 10:11	05/04/23 21:46	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*113*		*10 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-6:2 FTS	*118*		*17 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
M2-8:2 FTS	*132*		*33 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C2 PFTeDA	*101*		*10 - 179*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 HFPO-DA	*94*		*17 - 185*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C3 PFBS	*102*		*16 - 200*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFBA	*96*		*42 - 165*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C4 PFHpA	*110*		*31 - 182*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C5 PFPeA	*103*		*38 - 187*	*04/20/23 10:11*	*05/04/23 21:46*	*1*
13C8 PFOA	*105*		*48 - 162*	*04/20/23 10:11*	*05/04/23 21:46*	*1*

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-366531/1-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 366531

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOS	102		51 - 159	04/20/23 10:11	05/04/23 21:46	1
d3-NMeFOSAA	95		31 - 174	04/20/23 10:11	05/04/23 21:46	1
d5-NEtFOSAA	99		29 - 195	04/20/23 10:11	05/04/23 21:46	1
d7-N-MeFOSE-M	81		10 - 178	04/20/23 10:11	05/04/23 21:46	1
d9-N-EtFOSE-M	80		10 - 177	04/20/23 10:11	05/04/23 21:46	1
13C3 PFHxS	106		28 - 188	04/20/23 10:11	05/04/23 21:46	1
13C5 PFHxA	109		24 - 179	04/20/23 10:11	05/04/23 21:46	1
13C6 PFDA	100		49 - 163	04/20/23 10:11	05/04/23 21:46	1
13C7 PFUnA	102		34 - 174	04/20/23 10:11	05/04/23 21:46	1
d3-NMePFOSA	56		10 - 155	04/20/23 10:11	05/04/23 21:46	1
d5-NEtPFOSA	52		10 - 159	04/20/23 10:11	05/04/23 21:46	1
13C8 FOSA	99		10 - 168	04/20/23 10:11	05/04/23 21:46	1
13C2-PFDoDA	106		17 - 176	04/20/23 10:11	05/04/23 21:46	1
13C9 PFNA	98		51 - 167	04/20/23 10:11	05/04/23 21:46	1

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	25.64		ng/L		104	50 - 146
11Cl-PF3OUdS	23.8	22.26		ng/L		94	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	23.85		ng/L		100	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	23.74		ng/L		98	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	22.72		ng/L		93	55 - 138
9Cl-PF3ONS	23.8	21.21		ng/L		89	59 - 135
DONA	24.2	23.71		ng/L		98	55 - 143
HFPODA	25.6	24.19		ng/L		94	50 - 135
NEtFOSAA	25.6	24.04		ng/L		94	55 - 134
NEtFOSA	25.6	27.04		ng/L		106	61 - 134
NEtFOSE	25.6	25.95		ng/L		101	60 - 136
NMeFOSAA	25.6	25.46		ng/L		99	59 - 140
NMeFOSA	25.6	27.19		ng/L		106	64 - 143
NMeFOSE	25.6	26.14		ng/L		102	55 - 144
Perfluorobutanesulfonic acid	22.7	21.97		ng/L		97	53 - 138
Perfluorobutanoic acid	25.6	25.47		ng/L		99	59 - 136
Perfluorodecanesulfonic acid	24.7	23.63		ng/L		96	55 - 137
Perfluorodecanoic acid	25.6	25.78		ng/L		101	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	23.45		ng/L		95	48 - 138
Perfluorododecanoic acid	25.6	24.96		ng/L		98	59 - 143
Perfluoroheptanesulfonic acid	24.4	25.00		ng/L		103	56 - 140
Perfluoroheptanoic acid	25.6	25.36		ng/L		99	59 - 145
Perfluorohexadecanoic acid	25.6	21.75		ng/L		85	41 - 158
Perfluorohexanesulfonic acid	23.3	22.33		ng/L		96	58 - 134
Perfluorohexanoic acid	25.6	22.43		ng/L		88	58 - 139
Perfluorononanesulfonic acid	24.6	23.55		ng/L		96	59 - 136
Perfluorononanoic acid	25.6	25.14		ng/L		98	61 - 139
Perfluorooctadecanoic acid	25.6	20.85		ng/L		81	29 - 172

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-366531/2-A
Matrix: Water
Analysis Batch: 372358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 366531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonamide	25.6	24.56		ng/L		96	43 - 167
Perfluorooctanesulfonic acid	23.7	21.94		ng/L		93	45 - 150
Perfluorooctanoic acid	25.6	24.80		ng/L		97	51 - 145
Perfluoropentanesulfonic acid	24.0	24.25		ng/L		101	55 - 140
Perfluoropentanoic acid	25.6	24.96		ng/L		97	57 - 141
Perfluorotetradecanoic acid	25.6	24.34		ng/L		95	62 - 139
Perfluorotridecanoic acid	25.6	25.74		ng/L		101	58 - 146
Perfluoroundecanoic acid	25.6	26.31		ng/L		103	60 - 141

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*125*		*10 - 200*
M2-6:2 FTS	*133*		*17 - 200*
M2-8:2 FTS	*142*		*33 - 200*
13C2 PFTeDA	*118*		*10 - 179*
13C3 HFPO-DA	*110*		*17 - 185*
13C3 PFBS	*118*		*16 - 200*
13C4 PFBA	*100*		*42 - 165*
13C4 PFHpA	*117*		*31 - 182*
13C5 PFPeA	*113*		*38 - 187*
13C8 PFOA	*116*		*48 - 162*
13C8 PFOS	*113*		*51 - 159*
d3-NMeFOSAA	*113*		*31 - 174*
d5-NEtFOSAA	*115*		*29 - 195*
d7-N-MeFOSE-M	*87*		*10 - 178*
d9-N-EtFOSE-M	*85*		*10 - 177*
13C3 PFHxS	*120*		*28 - 188*
13C5 PFHxA	*118*		*24 - 179*
13C6 PFDA	*114*		*49 - 163*
13C7 PFUnA	*117*		*34 - 174*
d3-NMePFOSA	*54*		*10 - 155*
d5-NEtPFOSA	*49*		*10 - 159*
13C8 FOSA	*116*		*10 - 168*
13C2-PFDoDA	*117*		*17 - 176*
13C9 PFNA	*108*		*51 - 167*

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
10:2 FTS	ND		2.00	0.800	ng/L		05/10/23 08:01	05/12/23 05:51	1
11Cl-PF3OUdS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
4:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
6:2 Fluorotelomer sulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
8:2 Fluorotelomer sulfonic acid	ND		2.00	0.600	ng/L		05/10/23 08:01	05/12/23 05:51	1
9Cl-PF3ONS	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
DONA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
HFPODA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSAA	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NEtFOSA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NEtFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSAA	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSA	ND		2.00	0.700	ng/L		05/10/23 08:01	05/12/23 05:51	1
NMeFOSE	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorobutanoic acid	ND		2.00	1.00	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorodecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorododecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroheptanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanesulfonic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorohexanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorononanoic acid	ND		2.00	0.200	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctadecanoic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonamide	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanesulfonic acid	ND		2.00	0.500	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorooctanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanesulfonic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoropentanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotetradecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluorotridecanoic acid	ND		2.00	0.400	ng/L		05/10/23 08:01	05/12/23 05:51	1
Perfluoroundecanoic acid	ND		2.00	0.300	ng/L		05/10/23 08:01	05/12/23 05:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-4:2 FTS	*145*		*10 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-6:2 FTS	*160*		*17 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
M2-8:2 FTS	*165*		*33 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C2 PFTeDA	*111*		*10 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 HFPO-DA	*107*		*17 - 185*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFBS	*129*		*16 - 200*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFBA	*97*		*42 - 165*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C4 PFHpA	*124*		*31 - 182*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFPeA	*124*		*38 - 187*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOA	*118*		*48 - 162*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C8 PFOS	*126*		*51 - 159*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d3-NMeFOSAA	*120*		*31 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d5-NEtFOSAA	*118*		*29 - 195*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d7-N-MeFOSE-M	*86*		*10 - 178*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
d9-N-EtFOSE-M	*81*		*10 - 177*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C3 PFHxS	*128*		*28 - 188*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C5 PFHxA	*124*		*24 - 179*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C6 PFDA	*124*		*49 - 163*	*05/10/23 08:01*	*05/12/23 05:51*	*1*
13C7 PFUnA	*124*		*34 - 174*	*05/10/23 08:01*	*05/12/23 05:51*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-374042/1-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374042

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	69		10 - 155	05/10/23 08:01	05/12/23 05:51	1
d5-NEtPFOSA	64		10 - 159	05/10/23 08:01	05/12/23 05:51	1
13C8 FOSA	120		10 - 168	05/10/23 08:01	05/12/23 05:51	1
13C2-PFDoDA	114		17 - 176	05/10/23 08:01	05/12/23 05:51	1
13C9 PFNA	127		51 - 167	05/10/23 08:01	05/12/23 05:51	1

Lab Sample ID: LCS 410-374042/3-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374042

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
10:2 FTS	24.7	13.75		ng/L		56	50 - 146
11Cl-PF3OUdS	23.8	15.47		ng/L		65	53 - 139
4:2 Fluorotelomer sulfonic acid	23.9	16.51		ng/L		69	55 - 139
6:2 Fluorotelomer sulfonic acid	24.3	17.47		ng/L		72	28 - 173
8:2 Fluorotelomer sulfonic acid	24.5	15.33		ng/L		63	55 - 138
9Cl-PF3ONS	23.8	16.13		ng/L		68	59 - 135
DONA	24.2	17.83		ng/L		74	55 - 143
HFPODA	25.6	19.60		ng/L		77	50 - 135
NEtFOSAA	25.6	17.15		ng/L		67	55 - 134
NEtFOSA	25.6	19.74		ng/L		77	61 - 134
NEtFOSE	25.6	17.97		ng/L		70	60 - 136
NMeFOSAA	25.6	16.82		ng/L		66	59 - 140
NMeFOSA	25.6	19.43		ng/L		76	64 - 143
NMeFOSE	25.6	18.67		ng/L		73	55 - 144
Perfluorobutanesulfonic acid	22.7	15.70		ng/L		69	53 - 138
Perfluorobutanoic acid	25.6	17.75		ng/L		69	59 - 136
Perfluorodecanesulfonic acid	24.7	16.51		ng/L		67	55 - 137
Perfluorodecanoic acid	25.6	20.02		ng/L		78	56 - 138
Perfluorododecanesulfonic acid (PFDoS)	24.8	15.27		ng/L		62	48 - 138
Perfluorododecanoic acid	25.6	18.89		ng/L		74	59 - 143
Perfluoroheptanesulfonic acid	24.4	16.66		ng/L		68	56 - 140
Perfluoroheptanoic acid	25.6	18.98		ng/L		74	59 - 145
Perfluorohexadecanoic acid	25.6	16.57		ng/L		65	41 - 158
Perfluorohexanesulfonic acid	23.3	15.83		ng/L		68	58 - 134
Perfluorohexanoic acid	25.6	16.32		ng/L		64	58 - 139
Perfluorononanesulfonic acid	24.6	15.85		ng/L		64	59 - 136
Perfluorononanoic acid	25.6	18.41		ng/L		72	61 - 139
Perfluorooctadecanoic acid	25.6	16.51		ng/L		65	29 - 172
Perfluorooctanesulfonamide	25.6	16.86		ng/L		66	43 - 167
Perfluorooctanesulfonic acid	23.7	16.19		ng/L		68	45 - 150
Perfluorooctanoic acid	25.6	20.10		ng/L		79	51 - 145
Perfluoropentanesulfonic acid	24.0	16.12		ng/L		67	55 - 140
Perfluoropentanoic acid	25.6	17.11		ng/L		67	57 - 141
Perfluorotetradecanoic acid	25.6	17.88		ng/L		70	62 - 139
Perfluorotridecanoic acid	25.6	18.58		ng/L		73	58 - 146
Perfluoroundecanoic acid	25.6	18.81		ng/L		73	60 - 141

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	155		10 - 200
M2-6:2 FTS	162		17 - 200
M2-8:2 FTS	168		33 - 200
13C2 PFTeDA	115		10 - 179
13C3 HFPO-DA	125		17 - 185
13C3 PFBS	140		16 - 200
13C4 PFBA	110		42 - 165
13C4 PFHpA	125		31 - 182
13C5 PFPeA	132		38 - 187
13C8 PFOA	127		48 - 162
13C8 PFOS	134		51 - 159
d3-NMeFOSAA	127		31 - 174
d5-NEtFOSAA	125		29 - 195
d7-N-MeFOSE-M	91		10 - 178
d9-N-EtFOSE-M	88		10 - 177
13C3 PFHxS	134		28 - 188
13C5 PFHxA	137		24 - 179
13C6 PFDA	122		49 - 163
13C7 PFUnA	128		34 - 174
d3-NMePFOSA	77		10 - 155
d5-NEtPFOSA	72		10 - 159
13C8 FOSA	127		10 - 168
13C2-PFDoDA	116		17 - 176
13C9 PFNA	133		51 - 167

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
10:2 FTS			24.7	14.31		ng/L		58	50 - 146	4	30
11Cl-PF3OUdS			23.8	16.60		ng/L		70	53 - 139	7	30
4:2 Fluorotelomer sulfonic acid			23.9	17.25		ng/L		72	55 - 139	4	30
6:2 Fluorotelomer sulfonic acid			24.3	16.77		ng/L		69	28 - 173	4	30
8:2 Fluorotelomer sulfonic acid			24.5	16.32		ng/L		67	55 - 138	6	30
9Cl-PF3ONS			23.8	16.72		ng/L		70	59 - 135	4	30
DONA			24.2	17.69		ng/L		73	55 - 143	1	30
HFPODA			25.6	18.61		ng/L		73	50 - 135	5	30
NEtFOSAA			25.6	18.00		ng/L		70	55 - 134	5	30
NEtFOSA			25.6	20.65		ng/L		81	61 - 134	5	30
NEtFOSE			25.6	18.85		ng/L		74	60 - 136	5	30
NMeFOSAA			25.6	18.46		ng/L		72	59 - 140	9	30
NMeFOSA			25.6	18.92		ng/L		74	64 - 143	3	30
NMeFOSE			25.6	17.97		ng/L		70	55 - 144	4	30
Perfluorobutanesulfonic acid			22.7	16.38		ng/L		72	53 - 138	4	30
Perfluorobutanoic acid			25.6	17.78		ng/L		69	59 - 136	0	30
Perfluorodecanesulfonic acid			24.7	16.60		ng/L		67	55 - 137	1	30
Perfluorodecanoic acid			25.6	19.60		ng/L		77	56 - 138	2	30
Perfluorododecanesulfonic acid (PFDoS)			24.8	15.85		ng/L		64	48 - 138	4	30
Perfluorododecanoic acid			25.6	19.20		ng/L		75	59 - 143	2	30
Perfluoroheptanesulfonic acid			24.4	17.09		ng/L		70	56 - 140	3	30

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-374042/4-A
Matrix: Water
Analysis Batch: 374796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374042

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroheptanoic acid			25.6	18.70		ng/L		73	59 - 145	1	30
Perfluorohexadecanoic acid			25.6	17.37		ng/L		68	41 - 158	5	30
Perfluorohexanesulfonic acid			23.3	16.34		ng/L		70	58 - 134	3	30
Perfluorohexanoic acid			25.6	17.67		ng/L		69	58 - 139	8	30
Perfluorononanesulfonic acid			24.6	17.23		ng/L		70	59 - 136	8	30
Perfluorononanoic acid			25.6	18.69		ng/L		73	61 - 139	2	30
Perfluorooctadecanoic acid			25.6	17.90		ng/L		70	29 - 172	8	30
Perfluorooctanesulfonamide			25.6	17.99		ng/L		70	43 - 167	7	30
Perfluorooctanesulfonic acid			23.7	16.90		ng/L		71	45 - 150	4	30
Perfluorooctanoic acid			25.6	18.79		ng/L		73	51 - 145	7	30
Perfluoropentanesulfonic acid			24.0	17.33		ng/L		72	55 - 140	7	30
Perfluoropentanoic acid			25.6	17.91		ng/L		70	57 - 141	5	30
Perfluorotetradecanoic acid			25.6	18.16		ng/L		71	62 - 139	2	30
Perfluorotridecanoic acid			25.6	17.88		ng/L		70	58 - 146	4	30
Perfluoroundecanoic acid			25.6	19.38		ng/L		76	60 - 141	3	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-4:2 FTS	*147*		*10 - 200*
M2-6:2 FTS	*168*		*17 - 200*
M2-8:2 FTS	*162*		*33 - 200*
13C2 PFTeDA	*113*		*10 - 179*
13C3 HFPO-DA	*135*		*17 - 185*
13C3 PFBS	*137*		*16 - 200*
13C4 PFBA	*122*		*42 - 165*
13C4 PFHpA	*126*		*31 - 182*
13C5 PFPeA	*131*		*38 - 187*
13C8 PFOA	*125*		*48 - 162*
13C8 PFOS	*130*		*51 - 159*
d3-NMeFOSAA	*124*		*31 - 174*
d5-NEtFOSAA	*120*		*29 - 195*
d7-N-MeFOSE-M	*90*		*10 - 178*
d9-N-EtFOSE-M	*84*		*10 - 177*
13C3 PFHxS	*132*		*28 - 188*
13C5 PFHxA	*129*		*24 - 179*
13C6 PFDA	*128*		*49 - 163*
13C7 PFUnA	*125*		*34 - 174*
d3-NMePFOSA	*70*		*10 - 155*
d5-NEtPFOSA	*65*		*10 - 159*
13C8 FOSA	*122*		*10 - 168*
13C2-PFDoDA	*119*		*17 - 176*
13C9 PFNA	*130*		*51 - 167*

LCMS

Prep Batch: 366531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	SPE	
620-10579-2	2023-MW-02	Total/NA	Water	SPE	
620-10579-3	2023-MW-07	Total/NA	Water	SPE	
620-10579-4	2023-MW-08	Total/NA	Water	SPE	
620-10579-5	2023-MW-09	Total/NA	Water	SPE	
620-10579-6	2023-PFB-01	Total/NA	Water	SPE	
MB 410-366531/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	SPE	

Analysis Batch: 372358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2	2023-MW-02	Total/NA	Water	537 IDA	366531
620-10579-4	2023-MW-08	Total/NA	Water	537 IDA	366531
620-10579-5	2023-MW-09	Total/NA	Water	537 IDA	366531
620-10579-6	2023-PFB-01	Total/NA	Water	537 IDA	366531
MB 410-366531/1-A	Method Blank	Total/NA	Water	537 IDA	366531
LCS 410-366531/2-A	Lab Control Sample	Total/NA	Water	537 IDA	366531

Analysis Batch: 373753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	537 IDA	366531
620-10579-3	2023-MW-07	Total/NA	Water	537 IDA	366531

Prep Batch: 374042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2 - RE	2023-MW-02	Total/NA	Water	SPE	
620-10579-4 - RE	2023-MW-08	Total/NA	Water	SPE	
MB 410-374042/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Analysis Batch: 374796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-2 - RE	2023-MW-02	Total/NA	Water	537 IDA	374042
620-10579-4 - RE	2023-MW-08	Total/NA	Water	537 IDA	374042
MB 410-374042/1-A	Method Blank	Total/NA	Water	537 IDA	374042
LCS 410-374042/3-A	Lab Control Sample	Total/NA	Water	537 IDA	374042
LCSD 410-374042/4-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	374042

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-01 Lab Sample ID: 620-10579-1
Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 18:53

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2
Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 00:54
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 06:57

Client Sample ID: 2023-MW-07 Lab Sample ID: 620-10579-3
Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	373753	UUV6	ELLE	05/09/23 19:04

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4
Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:16
Total/NA	Prep	SPE	RE		374042	RC3V	ELLE	05/10/23 08:01
Total/NA	Analysis	537 IDA	RE	1	374796	FDE4	ELLE	05/12/23 07:08

Client Sample ID: 2023-MW-09 Lab Sample ID: 620-10579-5
Date Collected: 03/31/23 09:20 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:28

Client Sample ID: 2023-PFB-01 Lab Sample ID: 620-10579-6
Date Collected: 03/31/23 18:30 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SPE			366531	D5VP	ELLE	04/20/23 10:11
Total/NA	Analysis	537 IDA		1	372358	DTA4	ELLE	05/05/23 01:39

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	06-30-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-10579-2
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
SPE	PFAS by SPE	Lab SOP	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10579-1	2023-MW-01	Water	03/31/23 12:15	04/03/23 13:14
620-10579-2	2023-MW-02	Water	03/31/23 16:00	04/03/23 13:14
620-10579-3	2023-MW-07	Water	03/31/23 10:55	04/03/23 13:14
620-10579-4	2023-MW-08	Water	03/31/23 11:00	04/03/23 13:14
620-10579-5	2023-MW-09	Water	03/31/23 09:20	04/03/23 13:14
620-10579-6	2023-PFB-01	Water	03/31/23 18:30	04/03/23 13:14

10579

Chain of Custody Record

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620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
				Preservation Code:				A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water			✓					✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/15/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-2

Login Number: 10579
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-2

Login Number: 10579
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-10579-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

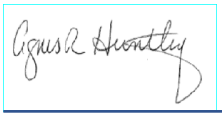
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
Agnes.Huntley@et.eurofinsus.com
(401)372-3482

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-10579-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-10579-1 through 620-10579-5, 620-10579-7

Matrices: ☑ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☑	7470/7471 Hg CAM III B ☑	MassDEP VPH (GC/PID/FID) CAM IV A ☑	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☑	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☑	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 05/11/2023

Job ID: 620-10579-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-10579-1

Receipt
The samples were received on 4/3/2023 1:14 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4º C.

GC/MS VOA
Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analyte: Tert-amyl methyl ether.
(CCVIS 620-21055/3)

Method 8260C: The laboratory control sample (LCS) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, Ethanol, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 620-21055 recovered outside control limits for the following analyte: Dichlorodifluoromethane, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. Affected analytes: 1,2-Dichlorobenzene and Tert-amyl methyl ether.

Method 8260C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for analytical batch 620-21130 recovered outside control limits for the following analytes: Dichlorodifluoromethane, 2-Butanone (MEK), and 1,4-Dioxane, which have been identified as poor performing analytes when analyzed using this method. According to MCP requirements, poor performers are allowed to recover within 40-160%; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The laboratory control sample (LCS) for batch 620-21130 recovered outside control limits but were greater than 10% for the following analyte: Dibromomethane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The associated sample is: (LCS 620-21130/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Pyridine. The affected target analytes recovered within acceptance limits in the LCS, therefore the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Hexachlorobutadiene and Pyridine. The individual percent recoveries are within acceptance limits.

Methods 8270D, 8270D SIM: The continuing calibration verification (CCV) associated with batch 620-21209 recovered above the upper control limit for 1-Methylnaphthalene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (ICIS 620-21209/6).

Methods 8270D, 8270D SIM: The laboratory control sample (LCS) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Job ID: 620-10579-1 (Continued)

Laboratory: Eurofins New England (Continued)

Methods 8270D, 8270D SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21036 and analytical batch 620-21071 recovered outside control limits for the following analytes: Benzo[a]anthracene, Benzo[a]pyrene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. The individual percent recoveries are within acceptance criteria.

Methods 8270D, 8270D SIM: Three surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (MB 620-21036/1-A). These results have been reported and qualified.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21216/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: Benzidine, Pyridine and Phenol. MCP allows for <10% of analytes to fall outside of control limits. The affected target analytes recovered within acceptance limits >10%; therefore, demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the data have been reported and qualified.

Method 8270D: The laboratory control sample (LCS) for preparation batch 620-21080 and analytical batch 620-21159 recovered outside control limits for the following analytes: N-Nitrosodimethylamine. The affected target analytes recovered within acceptance limits in the LCSD, therefore the data have been reported.

Method 8270D: The large number of analytes included in the continuing calibration verification (CCV) (CCVIS 620-21347/3) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the MCP method, analysis may proceed as long as no more than 20% of the analytes of interest are outside the method-defined %D criteria. 1,2,4,5-Tetrachlorobenzene and Benzidine.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method MAVPH2.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 620-21124 were outside control limits for one or more analytes, see QC Sample Results for detail. The %R fail is due to the way the whole baseline is integrated for samples, and is not just a sum of peaks as in QC samples. The associated laboratory control sample (LCS) recovery is within acceptance limits; therefore, the data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: (620-10573-H-2-C). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control. Surrogates were reported off the confirmation column.

Methods 8082, 8082A: The sample size used in the preparation of the matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 620-21137 and analytical batch 620-21181 was outside the 10% difference. As the relative percent difference (RPD) calculation is based upon the MS/MSD concentration as opposed to the MS/MSD percent recovery, elevated %RPD values were obtained.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-01 — Lab Sample ID: 620-10579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	1.81	J	2.00	0.627	ug/L	1		8260C	Total/NA
Acenaphthene	0.0797		0.0481	0.0374	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0691		0.0481	0.0373	ug/L	1		8270D	Total/NA
Anthracene	0.0785		0.0769	0.0769	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.0431	J	0.0481	0.0397	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.0468	J	0.0481	0.0361	ug/L	1		8270D	Total/NA
Chrysene	0.0770		0.0769	0.0769	ug/L	1		8270D	Total/NA
Fluorene	0.0760		0.0481	0.0328	ug/L	1		8270D	Total/NA
Zinc	210		10.0	4.00	ug/L	1		6020B	Total Recoverable
Barium	38.8		2.00	0.746	ug/L	1		6020B	Total Recoverable
Nickel	0.487	J	1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.176	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-02 — Lab Sample ID: 620-10579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	1.57	J	2.00	0.627	ug/L	1		8260C	Total/NA
2-Methylnaphthalene	0.0582		0.0543	0.0511	ug/L	1		8270D	Total/NA
Acenaphthene	0.0877		0.0543	0.0423	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0803		0.0543	0.0422	ug/L	1		8270D	Total/NA
Anthracene	0.0877		0.0870	0.0870	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.0672		0.0543	0.0449	ug/L	1		8270D	Total/NA
Chrysene	0.0899		0.0870	0.0870	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.0525	J	0.0543	0.0372	ug/L	1		8270D	Total/NA
Fluorene	0.0851		0.0543	0.0371	ug/L	1		8270D	Total/NA
Naphthalene	0.147	B	0.0543	0.0504	ug/L	1		8270D	Total/NA
Arsenic	2.34		2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	15.6		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	2.31		2.00	0.334	ug/L	1		6020B	Total Recoverable
Nickel	1.50		1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.642		0.500	0.0710	ug/L	1		6020B	Total Recoverable
Vanadium	1.88	J	4.00	0.794	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-07 — Lab Sample ID: 620-10579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromomethane	1.22	J	2.00	0.627	ug/L	1		8260C	Total/NA
Acenaphthene	0.0753		0.0481	0.0374	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0672		0.0481	0.0373	ug/L	1		8270D	Total/NA
Fluorene	0.0703		0.0481	0.0328	ug/L	1		8270D	Total/NA
Barium	2.50		2.00	0.746	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-08 — Lab Sample ID: 620-10579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0839		0.0543	0.0423	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0733		0.0543	0.0422	ug/L	1		8270D	Total/NA
Fluorene	0.0788		0.0543	0.0371	ug/L	1		8270D	Total/NA
Antimony	1.70		1.00	0.200	ug/L	1		6020B	Total Recoverable
Arsenic	0.733	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	16.6		2.00	0.746	ug/L	1		6020B	Total Recoverable
Chromium	0.673	J	2.00	0.334	ug/L	1		6020B	Total Recoverable
Nickel	0.607	J	1.00	0.400	ug/L	1		6020B	Total Recoverable
Lead	0.295	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable
Selenium	0.831	J	1.00	0.278	ug/L	1		6020B	Total Recoverable
Vanadium	5.26		4.00	0.794	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-MW-09 — Lab Sample ID: 620-10579-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.886	J	1.00	0.364	ug/L	1		8260C	Total/NA
Acenaphthene	0.0805		0.0521	0.0405	ug/L	1		8270D	Total/NA
Acenaphthylene	0.0700		0.0521	0.0404	ug/L	1		8270D	Total/NA
Fluorene	0.0753		0.0521	0.0355	ug/L	1		8270D	Total/NA
Zinc	5.37	J	10.0	4.00	ug/L	1		6020B	Total Recoverable
Antimony	0.372	J	1.00	0.200	ug/L	1		6020B	Total Recoverable
Arsenic	1.41	J	2.00	0.680	ug/L	1		6020B	Total Recoverable
Barium	5.76		2.00	0.746	ug/L	1		6020B	Total Recoverable
Lead	0.434	J	0.500	0.0710	ug/L	1		6020B	Total Recoverable

Client Sample ID: 2023-TB-02 — Lab Sample ID: 620-10579-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-01
Date Collected: 03/31/23 12:15
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-1
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 17:26	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 17:26	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 17:26	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 17:26	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 17:26	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 17:26	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 17:26	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 17:26	1
Bromomethane	**1.81**	**J**	2.00	0.627	ug/L			04/06/23 17:26	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 17:26	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 17:26	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 17:26	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 17:26	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 17:26	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 17:26	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 17:26	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 17:26	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 17:26	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 17:26	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 17:26	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 17:26	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 17:26	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 17:26	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 17:26	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 17:26	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 17:26	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 17:26	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 17:26	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 17:26	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 17:26	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 17:26	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 17:26	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 17:26	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 17:26	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 17:26	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 17:26	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 17:26	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 17:26	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 17:26	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 17:26	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 17:26	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 17:26	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 17:26	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 17:26	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 17:26	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 17:26	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 17:26	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 17:26	1

Client Sample ID: 2023-MW-01 **Lab Sample ID: 620-10579-1**
Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 17:26	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 17:26	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 17:26	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 17:26	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 17:26	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 17:26	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 17:26	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 17:26	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 17:26	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 17:26	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 17:26	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 17:26	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 17:26	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 17:26	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 17:26	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 17:26	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 17:26	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 17:26	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 17:26	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 17:26	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 17:26	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 17:26	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 17:26	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 17:26	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 17:26	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 17:26	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 17:26	1
Ethanol	ND		200	9.08	ug/L			04/06/23 17:26	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 17:26	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 17:26*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/06/23 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*		*04/06/23 17:26*	*1*
Dibromofluoromethane (Surr)	*129*		*70 - 130*		*04/06/23 17:26*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0481	0.0476	ug/L		04/05/23 09:47	04/10/23 17:44	1
2-Methylnaphthalene	ND		0.0481	0.0452	ug/L		04/05/23 09:47	04/10/23 17:44	1
Acenaphthene	**0.0797**		0.0481	0.0374	ug/L		04/05/23 09:47	04/10/23 17:44	1
Acenaphthylene	**0.0691**		0.0481	0.0373	ug/L		04/05/23 09:47	04/10/23 17:44	1
Anthracene	**0.0785**		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[a]anthracene	**0.0431**	**J**	0.0481	0.0397	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[a]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[b]fluoranthene	**0.0468**	**J**	0.0481	0.0361	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[g,h,i]perylene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Benzo[k]fluoranthene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Chrysene	**0.0770**		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1

Client Sample ID: 2023-MW-01 **Lab Sample ID: 620-10579-1**
Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0481	0.0329	ug/L		04/05/23 09:47	04/10/23 17:44	1
Fluoranthene	ND		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 17:44	1
Fluorene	**0.0760**		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 17:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 17:44	1
Naphthalene	ND		0.0481	0.0446	ug/L		04/05/23 09:47	04/10/23 17:44	1
Phenanthrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 17:44	1
Pyrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:44*	*1*
Terphenyl-d14	*60*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:44*	*1*
Benzo(e)pyrene-d12	*50*		*30 - 130*	*04/05/23 09:47*	*04/10/23 17:44*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		4.81	0.824	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,2,4-Trichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,2-Dichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,3-Dichlorobenzene	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 11:24	1
1,4-Dichlorobenzene	ND		4.81	1.36	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4,5-Trichlorophenol	ND		4.81	1.03	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4,6-Trichlorophenol	ND		4.81	0.874	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dichlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dimethylphenol	ND		4.81	0.586	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dinitrophenol	ND	*1	9.62	5.20	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,4-Dinitrotoluene	ND		4.81	0.913	ug/L		04/05/23 09:47	04/13/23 11:24	1
2,6-Dinitrotoluene	ND		4.81	0.732	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Chloronaphthalene	ND		4.81	0.946	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Chlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Methylphenol	ND		4.81	0.514	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Nitroaniline	ND		4.81	0.656	ug/L		04/05/23 09:47	04/13/23 11:24	1
2-Nitrophenol	ND		4.81	0.741	ug/L		04/05/23 09:47	04/13/23 11:24	1
3 & 4 Methylphenol	ND		9.62	0.631	ug/L		04/05/23 09:47	04/13/23 11:24	1
3,3'-Dichlorobenzidine	ND		4.81	1.37	ug/L		04/05/23 09:47	04/13/23 11:24	1
3-Nitroaniline	ND		4.81	0.851	ug/L		04/05/23 09:47	04/13/23 11:24	1
4,6-Dinitro-2-methylphenol	ND		4.81	3.43	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Bromophenyl phenyl ether	ND		4.81	0.795	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Chloro-3-methylphenol	ND		4.81	0.758	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Chloroaniline	ND	*1	4.81	1.99	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Chlorophenyl phenyl ether	ND		4.81	0.861	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Nitroaniline	ND		4.81	0.858	ug/L		04/05/23 09:47	04/13/23 11:24	1
4-Nitrophenol	ND		19.2	0.634	ug/L		04/05/23 09:47	04/13/23 11:24	1
Acetophenone	ND		4.81	0.701	ug/L		04/05/23 09:47	04/13/23 11:24	1
Aniline	ND	*- *1	4.81	1.35	ug/L		04/05/23 09:47	04/13/23 11:24	1
Azobenzene/Diphenyldiazene	ND		4.81	0.716	ug/L		04/05/23 09:47	04/13/23 11:24	1
Benzidine	ND	*- *1	19.2	1.85	ug/L		04/05/23 09:47	04/13/23 11:24	1
Benzoic acid	ND	*1	38.5	38.5	ug/L		04/05/23 09:47	04/13/23 11:24	1
Benzyl alcohol	ND		4.81	0.564	ug/L		04/05/23 09:47	04/13/23 11:24	1
Bis(2-chloroethoxy)methane	ND		4.81	0.621	ug/L		04/05/23 09:47	04/13/23 11:24	1
Bis(2-chloroethyl)ether	ND		4.81	0.666	ug/L		04/05/23 09:47	04/13/23 11:24	1

Client Sample ID: 2023-MW-01 Lab Sample ID: 620-10579-1

Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		4.81	0.941	ug/L		04/05/23 09:47	04/13/23 11:24	1
Bis(2-ethylhexyl) phthalate	ND		9.62	5.65	ug/L		04/05/23 09:47	04/13/23 11:24	1
Butyl benzyl phthalate	ND		4.81	0.831	ug/L		04/05/23 09:47	04/13/23 11:24	1
Carbazole	ND		4.81	0.878	ug/L		04/05/23 09:47	04/13/23 11:24	1
Dibenzofuran	ND		4.81	0.754	ug/L		04/05/23 09:47	04/13/23 11:24	1
Diethyl phthalate	ND		4.81	0.842	ug/L		04/05/23 09:47	04/13/23 11:24	1
Dimethyl phthalate	ND		4.81	0.737	ug/L		04/05/23 09:47	04/13/23 11:24	1
Di-n-butyl phthalate	ND		4.81	0.883	ug/L		04/05/23 09:47	04/13/23 11:24	1
Di-n-octyl phthalate	ND		4.81	0.988	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachlorobenzene	ND		4.81	0.725	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachlorobutadiene	ND	*1	4.81	1.10	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachlorocyclopentadiene	ND	*1	4.81	0.951	ug/L		04/05/23 09:47	04/13/23 11:24	1
Hexachloroethane	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 11:24	1
Isophorone	ND		4.81	0.488	ug/L		04/05/23 09:47	04/13/23 11:24	1
Nitrobenzene	ND		4.81	0.691	ug/L		04/05/23 09:47	04/13/23 11:24	1
N-Nitrosodimethylamine	ND	*- *1	4.81	0.537	ug/L		04/05/23 09:47	04/13/23 11:24	1
N-Nitrosodi-n-propylamine	ND		4.81	0.760	ug/L		04/05/23 09:47	04/13/23 11:24	1
N-Nitrosodiphenylamine	ND		4.81	0.897	ug/L		04/05/23 09:47	04/13/23 11:24	1
Pentachloronitrobenzene	ND	*1	4.81	0.591	ug/L		04/05/23 09:47	04/13/23 11:24	1
Pentachlorophenol	ND		9.62	2.97	ug/L		04/05/23 09:47	04/13/23 11:24	1
Phenol	ND	*- *1	4.81	0.611	ug/L		04/05/23 09:47	04/13/23 11:24	1
Pyridine	ND	*- *1	4.81	1.29	ug/L		04/05/23 09:47	04/13/23 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
2-Fluorophenol (Surr)	*42*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
Nitrobenzene-d5 (Surr)	*65*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
Phenol-d5 (Surr)	*27*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:24*	*1*
Terphenyl-d14	*58*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:24*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 20:53	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 20:53	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 20:53	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 20:53	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 20:53	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 20:53	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 20:53	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*87*		*70 - 130*		*04/06/23 20:53*	*1*
2,5-Dibromotoluene (pid)	*87*		*70 - 130*		*04/06/23 20:53*	*1*

Client Sample ID: 2023-MW-01
Date Collected: 03/31/23 12:15
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-1
Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/07/23 22:42	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/07/23 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*34*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*
Tetrachloro-m-xylene	*33*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:42*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**210**		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:27	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:27	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:27	1
Barium	**38.8**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:27	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:27	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:27	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:27	1
Nickel	**0.487**	**J**	1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:27	1
Lead	**0.176**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:27	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:27	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:27	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:27	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 13:00	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-02

Date Collected: 03/31/23 16:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-2

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 17:52	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 17:52	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 17:52	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 17:52	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 17:52	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 17:52	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 17:52	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 17:52	1
Bromomethane	**1.57**	**J**	2.00	0.627	ug/L			04/06/23 17:52	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 17:52	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 17:52	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 17:52	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 17:52	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 17:52	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 17:52	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 17:52	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 17:52	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 17:52	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 17:52	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 17:52	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 17:52	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 17:52	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 17:52	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 17:52	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 17:52	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 17:52	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 17:52	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 17:52	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 17:52	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 17:52	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 17:52	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 17:52	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 17:52	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 17:52	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 17:52	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 17:52	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 17:52	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 17:52	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 17:52	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 17:52	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 17:52	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 17:52	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 17:52	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 17:52	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 17:52	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 17:52	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 17:52	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 17:52	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 17:52	1

Client Sample ID: 2023-MW-02 **Lab Sample ID: 620-10579-2**
Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 17:52	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 17:52	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 17:52	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 17:52	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 17:52	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 17:52	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 17:52	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 17:52	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 17:52	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 17:52	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 17:52	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 17:52	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 17:52	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 17:52	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 17:52	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 17:52	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 17:52	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 17:52	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 17:52	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 17:52	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 17:52	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 17:52	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 17:52	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 17:52	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 17:52	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 17:52	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 17:52	1
Ethanol	ND		200	9.08	ug/L			04/06/23 17:52	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 17:52	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 17:52*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/06/23 17:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*		*04/06/23 17:52*	*1*
Dibromofluoromethane (Surr)	*130*		*70 - 130*		*04/06/23 17:52*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0543	0.0538	ug/L		04/05/23 09:47	04/10/23 18:14	1
2-Methylnaphthalene	**0.0582**		0.0543	0.0511	ug/L		04/05/23 09:47	04/10/23 18:14	1
Acenaphthene	**0.0877**		0.0543	0.0423	ug/L		04/05/23 09:47	04/10/23 18:14	1
Acenaphthylene	**0.0803**		0.0543	0.0422	ug/L		04/05/23 09:47	04/10/23 18:14	1
Anthracene	**0.0877**		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[a]anthracene	**0.0672**		0.0543	0.0449	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[a]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[b]fluoranthene	ND		0.0543	0.0408	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[g,h,i]perylene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Benzo[k]fluoranthene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Chrysene	**0.0899**		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1

Client: Nobis Engineering, Inc.
Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-02
Lab Sample ID: 620-10579-2
Date Collected: 03/31/23 16:00
Matrix: Water
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**0.0525**	**J**	0.0543	0.0372	ug/L		04/05/23 09:47	04/10/23 18:14	1
Fluoranthene	ND		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 18:14	1
Fluorene	**0.0851**		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 18:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 18:14	1
Naphthalene	**0.147**	**B**	0.0543	0.0504	ug/L		04/05/23 09:47	04/10/23 18:14	1
Phenanthrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 18:14	1
Pyrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*51*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:14*	*1*
Terphenyl-d14	*52*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:14*	*1*
Benzo(e)pyrene-d12	*62*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:14*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.43	0.932	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,2,4-Trichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,2-Dichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,3-Dichlorobenzene	ND		5.43	1.38	ug/L		04/05/23 09:47	04/13/23 11:54	1
1,4-Dichlorobenzene	ND		5.43	1.53	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4,5-Trichlorophenol	ND		5.43	1.17	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4,6-Trichlorophenol	ND		5.43	0.988	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dichlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dimethylphenol	ND		5.43	0.662	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dinitrophenol	ND	*1	10.9	5.88	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,4-Dinitrotoluene	ND		5.43	1.03	ug/L		04/05/23 09:47	04/13/23 11:54	1
2,6-Dinitrotoluene	ND		5.43	0.827	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Chloronaphthalene	ND		5.43	1.07	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Chlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Methylphenol	ND		5.43	0.582	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Nitroaniline	ND		5.43	0.741	ug/L		04/05/23 09:47	04/13/23 11:54	1
2-Nitrophenol	ND		5.43	0.838	ug/L		04/05/23 09:47	04/13/23 11:54	1
3 & 4 Methylphenol	ND		10.9	0.713	ug/L		04/05/23 09:47	04/13/23 11:54	1
3,3'-Dichlorobenzidine	ND		5.43	1.55	ug/L		04/05/23 09:47	04/13/23 11:54	1
3-Nitroaniline	ND		5.43	0.962	ug/L		04/05/23 09:47	04/13/23 11:54	1
4,6-Dinitro-2-methylphenol	ND		5.43	3.87	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Bromophenyl phenyl ether	ND		5.43	0.899	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Chloro-3-methylphenol	ND		5.43	0.857	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Chloroaniline	ND	*1	5.43	2.24	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Chlorophenyl phenyl ether	ND		5.43	0.973	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Nitroaniline	ND		5.43	0.970	ug/L		04/05/23 09:47	04/13/23 11:54	1
4-Nitrophenol	ND		21.7	0.716	ug/L		04/05/23 09:47	04/13/23 11:54	1
Acetophenone	ND		5.43	0.792	ug/L		04/05/23 09:47	04/13/23 11:54	1
Aniline	ND	*- *1	5.43	1.52	ug/L		04/05/23 09:47	04/13/23 11:54	1
Azobenzene/Diphenyldiazene	ND		5.43	0.810	ug/L		04/05/23 09:47	04/13/23 11:54	1
Benzidine	ND	*- *1	21.7	2.09	ug/L		04/05/23 09:47	04/13/23 11:54	1
Benzoic acid	ND	*1	43.5	43.5	ug/L		04/05/23 09:47	04/13/23 11:54	1
Benzyl alcohol	ND		5.43	0.638	ug/L		04/05/23 09:47	04/13/23 11:54	1
Bis(2-chloroethoxy)methane	ND		5.43	0.702	ug/L		04/05/23 09:47	04/13/23 11:54	1
Bis(2-chloroethyl)ether	ND		5.43	0.753	ug/L		04/05/23 09:47	04/13/23 11:54	1

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.43	1.06	ug/L		04/05/23 09:47	04/13/23 11:54	1
Bis(2-ethylhexyl) phthalate	ND		10.9	6.39	ug/L		04/05/23 09:47	04/13/23 11:54	1
Butyl benzyl phthalate	ND		5.43	0.939	ug/L		04/05/23 09:47	04/13/23 11:54	1
Carbazole	ND		5.43	0.992	ug/L		04/05/23 09:47	04/13/23 11:54	1
Dibenzofuran	ND		5.43	0.852	ug/L		04/05/23 09:47	04/13/23 11:54	1
Diethyl phthalate	ND		5.43	0.952	ug/L		04/05/23 09:47	04/13/23 11:54	1
Dimethyl phthalate	ND		5.43	0.833	ug/L		04/05/23 09:47	04/13/23 11:54	1
Di-n-butyl phthalate	ND		5.43	0.998	ug/L		04/05/23 09:47	04/13/23 11:54	1
Di-n-octyl phthalate	ND		5.43	1.12	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachlorobenzene	ND		5.43	0.820	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachlorobutadiene	ND	*1	5.43	1.24	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachlorocyclopentadiene	ND	*1	5.43	1.08	ug/L		04/05/23 09:47	04/13/23 11:54	1
Hexachloroethane	ND		5.43	1.39	ug/L		04/05/23 09:47	04/13/23 11:54	1
Isophorone	ND		5.43	0.552	ug/L		04/05/23 09:47	04/13/23 11:54	1
Nitrobenzene	ND		5.43	0.782	ug/L		04/05/23 09:47	04/13/23 11:54	1
N-Nitrosodimethylamine	ND	*- *1	5.43	0.607	ug/L		04/05/23 09:47	04/13/23 11:54	1
N-Nitrosodi-n-propylamine	ND		5.43	0.859	ug/L		04/05/23 09:47	04/13/23 11:54	1
N-Nitrosodiphenylamine	ND		5.43	1.01	ug/L		04/05/23 09:47	04/13/23 11:54	1
Pentachloronitrobenzene	ND	*1	5.43	0.668	ug/L		04/05/23 09:47	04/13/23 11:54	1
Pentachlorophenol	ND		10.9	3.36	ug/L		04/05/23 09:47	04/13/23 11:54	1
Phenol	ND	*- *1	5.43	0.690	ug/L		04/05/23 09:47	04/13/23 11:54	1
Pyridine	ND	*- *1	5.43	1.46	ug/L		04/05/23 09:47	04/13/23 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*48*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
2-Fluorophenol (Surr)	*32*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
Nitrobenzene-d5 (Surr)	*45*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
Phenol-d5 (Surr)	*21*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*15 - 110*	*04/05/23 09:47*	*04/13/23 11:54*	*1*
Terphenyl-d14	*63*		*30 - 130*	*04/05/23 09:47*	*04/13/23 11:54*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 21:28	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 21:28	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 21:28	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 21:28	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 21:28	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 21:28	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 21:28	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*		*04/06/23 21:28*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 21:28*	*1*

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 22:59	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:55	04/07/23 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*
Tetrachloro-m-xylene	*59*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 22:59*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:25	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:25	1
Arsenic	**2.34**		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:25	1
Barium	**15.6**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:25	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:25	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:25	1
Chromium	**2.31**		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:25	1
Nickel	**1.50**		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:25	1
Lead	**0.642**		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:25	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:25	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:25	1
Vanadium	**1.88**	**J**	4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:25	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 13:08	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-07
Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 18:18	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 18:18	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 18:18	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 18:18	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 18:18	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 18:18	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 18:18	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 18:18	1
Bromomethane	**1.22**	**J**	2.00	0.627	ug/L			04/06/23 18:18	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 18:18	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 18:18	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 18:18	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 18:18	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 18:18	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 18:18	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 18:18	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 18:18	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 18:18	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 18:18	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 18:18	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 18:18	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 18:18	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 18:18	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 18:18	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 18:18	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 18:18	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 18:18	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 18:18	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 18:18	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 18:18	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 18:18	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 18:18	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 18:18	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 18:18	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 18:18	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 18:18	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 18:18	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 18:18	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 18:18	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 18:18	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 18:18	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 18:18	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 18:18	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 18:18	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 18:18	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 18:18	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 18:18	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 18:18	1

Client Sample ID: 2023-MW-07 **Lab Sample ID: 620-10579-3**
Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 18:18	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 18:18	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 18:18	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 18:18	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 18:18	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 18:18	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 18:18	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 18:18	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 18:18	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 18:18	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 18:18	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 18:18	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 18:18	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 18:18	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 18:18	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 18:18	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 18:18	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 18:18	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 18:18	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 18:18	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 18:18	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 18:18	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 18:18	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 18:18	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 18:18	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 18:18	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 18:18	1
Ethanol	ND		200	9.08	ug/L			04/06/23 18:18	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 18:18	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 18:18*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/06/23 18:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*		*04/06/23 18:18*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*04/06/23 18:18*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0481	0.0476	ug/L		04/05/23 09:47	04/10/23 18:44	1
2-Methylnaphthalene	ND		0.0481	0.0452	ug/L		04/05/23 09:47	04/10/23 18:44	1
Acenaphthene	**0.0753**		0.0481	0.0374	ug/L		04/05/23 09:47	04/10/23 18:44	1
Acenaphthylene	**0.0672**		0.0481	0.0373	ug/L		04/05/23 09:47	04/10/23 18:44	1
Anthracene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[a]anthracene	ND		0.0481	0.0397	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[a]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[b]fluoranthene	ND		0.0481	0.0361	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[g,h,i]perylene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Benzo[k]fluoranthene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Chrysene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1

Client Sample ID: 2023-MW-07 Lab Sample ID: 620-10579-3

Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0481	0.0329	ug/L		04/05/23 09:47	04/10/23 18:44	1
Fluoranthene	ND		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 18:44	1
Fluorene	**0.0703**		0.0481	0.0328	ug/L		04/05/23 09:47	04/10/23 18:44	1
Indeno[1,2,3-cd]pyrene	ND		0.0769	0.0769	ug/L		04/05/23 09:47	04/10/23 18:44	1
Naphthalene	ND		0.0481	0.0446	ug/L		04/05/23 09:47	04/10/23 18:44	1
Phenanthrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 18:44	1
Pyrene	ND		0.192	0.192	ug/L		04/05/23 09:47	04/10/23 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:44*	*1*
Terphenyl-d14	*57*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:44*	*1*
Benzo(e)pyrene-d12	*55*		*30 - 130*	*04/05/23 09:47*	*04/10/23 18:44*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		4.81	0.824	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,2,4-Trichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,2-Dichlorobenzene	ND		4.81	1.18	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,3-Dichlorobenzene	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 12:23	1
1,4-Dichlorobenzene	ND		4.81	1.36	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4,5-Trichlorophenol	ND		4.81	1.03	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4,6-Trichlorophenol	ND		4.81	0.874	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dichlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dimethylphenol	ND		4.81	0.586	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dinitrophenol	ND	*1	9.62	5.20	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,4-Dinitrotoluene	ND		4.81	0.913	ug/L		04/05/23 09:47	04/13/23 12:23	1
2,6-Dinitrotoluene	ND		4.81	0.732	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Chloronaphthalene	ND		4.81	0.946	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Chlorophenol	ND		4.81	0.679	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Methylphenol	ND		4.81	0.514	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Nitroaniline	ND		4.81	0.656	ug/L		04/05/23 09:47	04/13/23 12:23	1
2-Nitrophenol	ND		4.81	0.741	ug/L		04/05/23 09:47	04/13/23 12:23	1
3 & 4 Methylphenol	ND		9.62	0.631	ug/L		04/05/23 09:47	04/13/23 12:23	1
3,3'-Dichlorobenzidine	ND		4.81	1.37	ug/L		04/05/23 09:47	04/13/23 12:23	1
3-Nitroaniline	ND		4.81	0.851	ug/L		04/05/23 09:47	04/13/23 12:23	1
4,6-Dinitro-2-methylphenol	ND		4.81	3.43	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Bromophenyl phenyl ether	ND		4.81	0.795	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Chloro-3-methylphenol	ND		4.81	0.758	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Chloroaniline	ND	*1	4.81	1.99	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Chlorophenyl phenyl ether	ND		4.81	0.861	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Nitroaniline	ND		4.81	0.858	ug/L		04/05/23 09:47	04/13/23 12:23	1
4-Nitrophenol	ND		19.2	0.634	ug/L		04/05/23 09:47	04/13/23 12:23	1
Acetophenone	ND		4.81	0.701	ug/L		04/05/23 09:47	04/13/23 12:23	1
Aniline	ND	*- *1	4.81	1.35	ug/L		04/05/23 09:47	04/13/23 12:23	1
Azobenzene/Diphenyldiazene	ND		4.81	0.716	ug/L		04/05/23 09:47	04/13/23 12:23	1
Benzidine	ND	*- *1	19.2	1.85	ug/L		04/05/23 09:47	04/13/23 12:23	1
Benzoic acid	ND	*1	38.5	38.5	ug/L		04/05/23 09:47	04/13/23 12:23	1
Benzyl alcohol	ND		4.81	0.564	ug/L		04/05/23 09:47	04/13/23 12:23	1
Bis(2-chloroethoxy)methane	ND		4.81	0.621	ug/L		04/05/23 09:47	04/13/23 12:23	1
Bis(2-chloroethyl)ether	ND		4.81	0.666	ug/L		04/05/23 09:47	04/13/23 12:23	1

Client Sample ID: 2023-MW-07 **Lab Sample ID: 620-10579-3**
Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		4.81	0.941	ug/L		04/05/23 09:47	04/13/23 12:23	1
Bis(2-ethylhexyl) phthalate	ND		9.62	5.65	ug/L		04/05/23 09:47	04/13/23 12:23	1
Butyl benzyl phthalate	ND		4.81	0.831	ug/L		04/05/23 09:47	04/13/23 12:23	1
Carbazole	ND		4.81	0.878	ug/L		04/05/23 09:47	04/13/23 12:23	1
Dibenzofuran	ND		4.81	0.754	ug/L		04/05/23 09:47	04/13/23 12:23	1
Diethyl phthalate	ND		4.81	0.842	ug/L		04/05/23 09:47	04/13/23 12:23	1
Dimethyl phthalate	ND		4.81	0.737	ug/L		04/05/23 09:47	04/13/23 12:23	1
Di-n-butyl phthalate	ND		4.81	0.883	ug/L		04/05/23 09:47	04/13/23 12:23	1
Di-n-octyl phthalate	ND		4.81	0.988	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachlorobenzene	ND		4.81	0.725	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachlorobutadiene	ND	*1	4.81	1.10	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachlorocyclopentadiene	ND	*1	4.81	0.951	ug/L		04/05/23 09:47	04/13/23 12:23	1
Hexachloroethane	ND		4.81	1.23	ug/L		04/05/23 09:47	04/13/23 12:23	1
Isophorone	ND		4.81	0.488	ug/L		04/05/23 09:47	04/13/23 12:23	1
Nitrobenzene	ND		4.81	0.691	ug/L		04/05/23 09:47	04/13/23 12:23	1
N-Nitrosodimethylamine	ND	*- *1	4.81	0.537	ug/L		04/05/23 09:47	04/13/23 12:23	1
N-Nitrosodi-n-propylamine	ND		4.81	0.760	ug/L		04/05/23 09:47	04/13/23 12:23	1
N-Nitrosodiphenylamine	ND		4.81	0.897	ug/L		04/05/23 09:47	04/13/23 12:23	1
Pentachloronitrobenzene	ND	*1	4.81	0.591	ug/L		04/05/23 09:47	04/13/23 12:23	1
Pentachlorophenol	ND		9.62	2.97	ug/L		04/05/23 09:47	04/13/23 12:23	1
Phenol	ND	*- *1	4.81	0.611	ug/L		04/05/23 09:47	04/13/23 12:23	1
Pyridine	ND	*- *1	4.81	1.29	ug/L		04/05/23 09:47	04/13/23 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
2-Fluorophenol (Surr)	*43*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
Phenol-d5 (Surr)	*28*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:23*	*1*
Terphenyl-d14	*60*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:23*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:03	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:03	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 22:03	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:03	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:03	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 22:03	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 22:03	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*		*04/06/23 22:03*	*1*
2,5-Dibromotoluene (pid)	*87*		*70 - 130*		*04/06/23 22:03*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-07

Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3

Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:55	04/07/23 23:16	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:55	04/07/23 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*04/06/23 11:55*	*04/07/23 23:16*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:11	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:11	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:11	1
Barium	**2.50**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:11	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:11	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:11	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:11	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:11	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:11	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:11	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:11	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:11	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 13:02	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-08

Date Collected: 03/31/23 11:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-4

Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 18:44	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 18:44	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 18:44	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 18:44	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 18:44	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 18:44	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 18:44	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 18:44	1
Bromomethane	ND		2.00	0.627	ug/L			04/06/23 18:44	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 18:44	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 18:44	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 18:44	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 18:44	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 18:44	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 18:44	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 18:44	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 18:44	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 18:44	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 18:44	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 18:44	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 18:44	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 18:44	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 18:44	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 18:44	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 18:44	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 18:44	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 18:44	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 18:44	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 18:44	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 18:44	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 18:44	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 18:44	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 18:44	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 18:44	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 18:44	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 18:44	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 18:44	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 18:44	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 18:44	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 18:44	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 18:44	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 18:44	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 18:44	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 18:44	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 18:44	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 18:44	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 18:44	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 18:44	1

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 18:44	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 18:44	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 18:44	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 18:44	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 18:44	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 18:44	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 18:44	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 18:44	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 18:44	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 18:44	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 18:44	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 18:44	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 18:44	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 18:44	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 18:44	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 18:44	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 18:44	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 18:44	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 18:44	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 18:44	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 18:44	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 18:44	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 18:44	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 18:44	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 18:44	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 18:44	1
Ethanol	ND		200	9.08	ug/L			04/06/23 18:44	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 18:44	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/06/23 18:44*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/06/23 18:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/06/23 18:44*	*1*
Dibromofluoromethane (Surr)	*124*		*70 - 130*		*04/06/23 18:44*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0543	0.0538	ug/L		04/05/23 09:47	04/10/23 19:13	1
2-Methylnaphthalene	ND		0.0543	0.0511	ug/L		04/05/23 09:47	04/10/23 19:13	1
Acenaphthene	**0.0839**		0.0543	0.0423	ug/L		04/05/23 09:47	04/10/23 19:13	1
Acenaphthylene	**0.0733**		0.0543	0.0422	ug/L		04/05/23 09:47	04/10/23 19:13	1
Anthracene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[a]anthracene	ND		0.0543	0.0449	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[a]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[b]fluoranthene	ND		0.0543	0.0408	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[g,h,i]perylene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Benzo[k]fluoranthene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Chrysene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1

Client: Nobis Engineering, Inc.
Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-MW-08
Lab Sample ID: 620-10579-4
Date Collected: 03/31/23 11:00
Matrix: Water
Date Received: 04/03/23 13:14

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0543	0.0372	ug/L		04/05/23 09:47	04/10/23 19:13	1
Fluoranthene	ND		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 19:13	1
Fluorene	**0.0788**		0.0543	0.0371	ug/L		04/05/23 09:47	04/10/23 19:13	1
Indeno[1,2,3-cd]pyrene	ND		0.0870	0.0870	ug/L		04/05/23 09:47	04/10/23 19:13	1
Naphthalene	ND		0.0543	0.0504	ug/L		04/05/23 09:47	04/10/23 19:13	1
Phenanthrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 19:13	1
Pyrene	ND		0.217	0.217	ug/L		04/05/23 09:47	04/10/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:13*	*1*
Terphenyl-d14	*50*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:13*	*1*
Benzo(e)pyrene-d12	*47*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:13*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.43	0.932	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,2,4-Trichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,2-Dichlorobenzene	ND		5.43	1.34	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,3-Dichlorobenzene	ND		5.43	1.38	ug/L		04/05/23 09:47	04/13/23 12:53	1
1,4-Dichlorobenzene	ND		5.43	1.53	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4,5-Trichlorophenol	ND		5.43	1.17	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4,6-Trichlorophenol	ND		5.43	0.988	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dichlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dimethylphenol	ND		5.43	0.662	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dinitrophenol	ND	*1	10.9	5.88	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,4-Dinitrotoluene	ND		5.43	1.03	ug/L		04/05/23 09:47	04/13/23 12:53	1
2,6-Dinitrotoluene	ND		5.43	0.827	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Chloronaphthalene	ND		5.43	1.07	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Chlorophenol	ND		5.43	0.767	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Methylphenol	ND		5.43	0.582	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Nitroaniline	ND		5.43	0.741	ug/L		04/05/23 09:47	04/13/23 12:53	1
2-Nitrophenol	ND		5.43	0.838	ug/L		04/05/23 09:47	04/13/23 12:53	1
3 & 4 Methylphenol	ND		10.9	0.713	ug/L		04/05/23 09:47	04/13/23 12:53	1
3,3'-Dichlorobenzidine	ND		5.43	1.55	ug/L		04/05/23 09:47	04/13/23 12:53	1
3-Nitroaniline	ND		5.43	0.962	ug/L		04/05/23 09:47	04/13/23 12:53	1
4,6-Dinitro-2-methylphenol	ND		5.43	3.87	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Bromophenyl phenyl ether	ND		5.43	0.899	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Chloro-3-methylphenol	ND		5.43	0.857	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Chloroaniline	ND	*1	5.43	2.24	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Chlorophenyl phenyl ether	ND		5.43	0.973	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Nitroaniline	ND		5.43	0.970	ug/L		04/05/23 09:47	04/13/23 12:53	1
4-Nitrophenol	ND		21.7	0.716	ug/L		04/05/23 09:47	04/13/23 12:53	1
Acetophenone	ND		5.43	0.792	ug/L		04/05/23 09:47	04/13/23 12:53	1
Aniline	ND	*- *1	5.43	1.52	ug/L		04/05/23 09:47	04/13/23 12:53	1
Azobenzene/Diphenyldiazene	ND		5.43	0.810	ug/L		04/05/23 09:47	04/13/23 12:53	1
Benzidine	ND	*- *1	21.7	2.09	ug/L		04/05/23 09:47	04/13/23 12:53	1
Benzoic acid	ND	*1	43.5	43.5	ug/L		04/05/23 09:47	04/13/23 12:53	1
Benzyl alcohol	ND		5.43	0.638	ug/L		04/05/23 09:47	04/13/23 12:53	1
Bis(2-chloroethoxy)methane	ND		5.43	0.702	ug/L		04/05/23 09:47	04/13/23 12:53	1
Bis(2-chloroethyl)ether	ND		5.43	0.753	ug/L		04/05/23 09:47	04/13/23 12:53	1

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.43	1.06	ug/L		04/05/23 09:47	04/13/23 12:53	1
Bis(2-ethylhexyl) phthalate	ND		10.9	6.39	ug/L		04/05/23 09:47	04/13/23 12:53	1
Butyl benzyl phthalate	ND		5.43	0.939	ug/L		04/05/23 09:47	04/13/23 12:53	1
Carbazole	ND		5.43	0.992	ug/L		04/05/23 09:47	04/13/23 12:53	1
Dibenzofuran	ND		5.43	0.852	ug/L		04/05/23 09:47	04/13/23 12:53	1
Diethyl phthalate	ND		5.43	0.952	ug/L		04/05/23 09:47	04/13/23 12:53	1
Dimethyl phthalate	ND		5.43	0.833	ug/L		04/05/23 09:47	04/13/23 12:53	1
Di-n-butyl phthalate	ND		5.43	0.998	ug/L		04/05/23 09:47	04/13/23 12:53	1
Di-n-octyl phthalate	ND		5.43	1.12	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachlorobenzene	ND		5.43	0.820	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachlorobutadiene	ND	*1	5.43	1.24	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachlorocyclopentadiene	ND	*1	5.43	1.08	ug/L		04/05/23 09:47	04/13/23 12:53	1
Hexachloroethane	ND		5.43	1.39	ug/L		04/05/23 09:47	04/13/23 12:53	1
Isophorone	ND		5.43	0.552	ug/L		04/05/23 09:47	04/13/23 12:53	1
Nitrobenzene	ND		5.43	0.782	ug/L		04/05/23 09:47	04/13/23 12:53	1
N-Nitrosodimethylamine	ND	*- *1	5.43	0.607	ug/L		04/05/23 09:47	04/13/23 12:53	1
N-Nitrosodi-n-propylamine	ND		5.43	0.859	ug/L		04/05/23 09:47	04/13/23 12:53	1
N-Nitrosodiphenylamine	ND		5.43	1.01	ug/L		04/05/23 09:47	04/13/23 12:53	1
Pentachloronitrobenzene	ND	*1	5.43	0.668	ug/L		04/05/23 09:47	04/13/23 12:53	1
Pentachlorophenol	ND		10.9	3.36	ug/L		04/05/23 09:47	04/13/23 12:53	1
Phenol	ND	*- *1	5.43	0.690	ug/L		04/05/23 09:47	04/13/23 12:53	1
Pyridine	ND	*- *1	5.43	1.46	ug/L		04/05/23 09:47	04/13/23 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
2-Fluorophenol (Surr)	*37*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
Nitrobenzene-d5 (Surr)	*55*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
Phenol-d5 (Surr)	*25*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*15 - 110*	*04/05/23 09:47*	*04/13/23 12:53*	*1*
Terphenyl-d14	*56*		*30 - 130*	*04/05/23 09:47*	*04/13/23 12:53*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:38	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 22:38	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 22:38	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:38	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 22:38	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 22:38	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 22:38	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 22:38*	*1*
2,5-Dibromotoluene (pid)	*90*		*70 - 130*		*04/06/23 22:38*	*1*

Client Sample ID: 2023-MW-08 Lab Sample ID: 620-10579-4

Date Collected: 03/31/23 11:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.455	0.0636	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1221	ND		0.455	0.169	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1232	ND		0.455	0.109	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1242	ND		0.455	0.0864	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1248	ND		0.455	0.186	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1254	ND		0.455	0.166	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1262	ND		0.455	0.182	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1260	ND		0.455	0.0864	ug/L		04/06/23 11:56	04/07/23 23:33	1
PCB-1268	ND		0.455	0.0955	ug/L		04/06/23 11:56	04/07/23 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*54*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*
Tetrachloro-m-xylene	*52*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:33*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:07	1
Antimony	**1.70**		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:07	1
Arsenic	**0.733**	**J**	2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:07	1
Barium	**16.6**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:07	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:07	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:07	1
Chromium	**0.673**	**J**	2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:07	1
Nickel	**0.607**	**J**	1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:07	1
Lead	**0.295**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:07	1
Selenium	**0.831**	**J**	1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:07	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:07	1
Vanadium	**5.26**		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:07	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 05:58	04/07/23 14:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-09
Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 23:03	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 23:03	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 23:03	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 23:03	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 23:03	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 23:03	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 23:03	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 23:03	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 23:03	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/04/23 23:03	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 23:03	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 23:03	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 23:03	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 23:03	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 23:03	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 23:03	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 23:03	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 23:03	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 23:03	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 23:03	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 23:03	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 23:03	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 23:03	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 23:03	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 23:03	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 23:03	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 23:03	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 23:03	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/04/23 23:03	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 23:03	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 23:03	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 23:03	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 23:03	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 23:03	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 23:03	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 23:03	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 23:03	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 23:03	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 23:03	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 23:03	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 23:03	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/04/23 23:03	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 23:03	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 23:03	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 23:03	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 23:03	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 23:03	1
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 23:03	1

Client Sample ID: 2023-MW-09 **Lab Sample ID: 620-10579-5**
Date Collected: 03/31/23 09:20 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 23:03	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 23:03	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 23:03	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 23:03	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 23:03	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 23:03	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 23:03	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 23:03	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 23:03	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 23:03	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 23:03	1
Trichloroethene	**0.886**	**J**	1.00	0.364	ug/L			04/04/23 23:03	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 23:03	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 23:03	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 23:03	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 23:03	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 23:03	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 23:03	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 23:03	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 23:03	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 23:03	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 23:03	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 23:03	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 23:03	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 23:03	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/04/23 23:03	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 23:03	1
Ethanol	ND	*-	200	9.08	ug/L			04/04/23 23:03	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 23:03	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/04/23 23:03*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 23:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 23:03*	*1*
Dibromofluoromethane (Surr)	*128*		*70 - 130*		*04/04/23 23:03*	*1*

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0521	0.0516	ug/L		04/05/23 09:47	04/10/23 19:42	1
2-Methylnaphthalene	ND		0.0521	0.0490	ug/L		04/05/23 09:47	04/10/23 19:42	1
Acenaphthene	**0.0805**		0.0521	0.0405	ug/L		04/05/23 09:47	04/10/23 19:42	1
Acenaphthylene	**0.0700**		0.0521	0.0404	ug/L		04/05/23 09:47	04/10/23 19:42	1
Anthracene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[a]anthracene	ND		0.0521	0.0430	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[a]pyrene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[b]fluoranthene	ND		0.0521	0.0391	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[g,h,i]perylene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Benzo[k]fluoranthene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Chrysene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-09

Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5

Matrix: Water

Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.0521	0.0356	ug/L		04/05/23 09:47	04/10/23 19:42	1
Fluoranthene	ND		0.0521	0.0355	ug/L		04/05/23 09:47	04/10/23 19:42	1
Fluorene	**0.0753**		0.0521	0.0355	ug/L		04/05/23 09:47	04/10/23 19:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0833	0.0833	ug/L		04/05/23 09:47	04/10/23 19:42	1
Naphthalene	ND		0.0521	0.0483	ug/L		04/05/23 09:47	04/10/23 19:42	1
Phenanthrene	ND		0.208	0.208	ug/L		04/05/23 09:47	04/10/23 19:42	1
Pyrene	ND		0.208	0.208	ug/L		04/05/23 09:47	04/10/23 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:42*	*1*
Terphenyl-d14	*58*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:42*	*1*
Benzo(e)pyrene-d12	*49*		*30 - 130*	*04/05/23 09:47*	*04/10/23 19:42*	*1*

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.21	0.893	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,2,4-Trichlorobenzene	ND		5.21	1.28	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,2-Dichlorobenzene	ND		5.21	1.28	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,3-Dichlorobenzene	ND		5.21	1.33	ug/L		04/05/23 09:47	04/13/23 13:23	1
1,4-Dichlorobenzene	ND		5.21	1.47	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4,5-Trichlorophenol	ND		5.21	1.12	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4,6-Trichlorophenol	ND		5.21	0.947	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dichlorophenol	ND		5.21	0.735	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dimethylphenol	ND		5.21	0.634	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dinitrophenol	ND	*1	10.4	5.64	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,4-Dinitrotoluene	ND		5.21	0.990	ug/L		04/05/23 09:47	04/13/23 13:23	1
2,6-Dinitrotoluene	ND		5.21	0.793	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Chloronaphthalene	ND		5.21	1.03	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Chlorophenol	ND		5.21	0.735	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Methylphenol	ND		5.21	0.557	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Nitroaniline	ND		5.21	0.710	ug/L		04/05/23 09:47	04/13/23 13:23	1
2-Nitrophenol	ND		5.21	0.803	ug/L		04/05/23 09:47	04/13/23 13:23	1
3 & 4 Methylphenol	ND		10.4	0.683	ug/L		04/05/23 09:47	04/13/23 13:23	1
3,3'-Dichlorobenzidine	ND		5.21	1.48	ug/L		04/05/23 09:47	04/13/23 13:23	1
3-Nitroaniline	ND		5.21	0.922	ug/L		04/05/23 09:47	04/13/23 13:23	1
4,6-Dinitro-2-methylphenol	ND		5.21	3.71	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Bromophenyl phenyl ether	ND		5.21	0.861	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Chloro-3-methylphenol	ND		5.21	0.821	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Chloroaniline	ND	*1	5.21	2.15	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Chlorophenyl phenyl ether	ND		5.21	0.932	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Nitroaniline	ND		5.21	0.929	ug/L		04/05/23 09:47	04/13/23 13:23	1
4-Nitrophenol	ND		20.8	0.686	ug/L		04/05/23 09:47	04/13/23 13:23	1
Acetophenone	ND		5.21	0.759	ug/L		04/05/23 09:47	04/13/23 13:23	1
Aniline	ND	*- *1	5.21	1.46	ug/L		04/05/23 09:47	04/13/23 13:23	1
Azobenzene/Diphenyldiazene	ND		5.21	0.776	ug/L		04/05/23 09:47	04/13/23 13:23	1
Benzidine	ND	*- *1	20.8	2.01	ug/L		04/05/23 09:47	04/13/23 13:23	1
Benzoic acid	ND	*1	10.4	5.80	ug/L		04/05/23 09:47	04/13/23 13:23	1
Benzyl alcohol	ND		5.21	0.611	ug/L		04/05/23 09:47	04/13/23 13:23	1
Bis(2-chloroethoxy)methane	ND		5.21	0.673	ug/L		04/05/23 09:47	04/13/23 13:23	1
Bis(2-chloroethyl)ether	ND		5.21	0.722	ug/L		04/05/23 09:47	04/13/23 13:23	1

Client Sample ID: 2023-MW-09 Lab Sample ID: 620-10579-5

Date Collected: 03/31/23 09:20 **Matrix: Water**
Date Received: 04/03/23 13:14

Method: MA DEP 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		5.21	1.02	ug/L		04/05/23 09:47	04/13/23 13:23	1
Bis(2-ethylhexyl) phthalate	ND		10.4	6.13	ug/L		04/05/23 09:47	04/13/23 13:23	1
Butyl benzyl phthalate	ND		5.21	0.900	ug/L		04/05/23 09:47	04/13/23 13:23	1
Carbazole	ND		5.21	0.951	ug/L		04/05/23 09:47	04/13/23 13:23	1
Dibenzofuran	ND		5.21	0.817	ug/L		04/05/23 09:47	04/13/23 13:23	1
Diethyl phthalate	ND		5.21	0.913	ug/L		04/05/23 09:47	04/13/23 13:23	1
Dimethyl phthalate	ND		5.21	0.798	ug/L		04/05/23 09:47	04/13/23 13:23	1
Di-n-butyl phthalate	ND		5.21	0.956	ug/L		04/05/23 09:47	04/13/23 13:23	1
Di-n-octyl phthalate	ND		5.21	1.07	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachlorobenzene	ND		5.21	0.785	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachlorobutadiene	ND	*1	5.21	1.19	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachlorocyclopentadiene	ND	*1	5.21	1.03	ug/L		04/05/23 09:47	04/13/23 13:23	1
Hexachloroethane	ND		5.21	1.33	ug/L		04/05/23 09:47	04/13/23 13:23	1
Isophorone	ND		5.21	0.529	ug/L		04/05/23 09:47	04/13/23 13:23	1
Nitrobenzene	ND		5.21	0.749	ug/L		04/05/23 09:47	04/13/23 13:23	1
N-Nitrosodimethylamine	ND	*1 *-	5.21	0.581	ug/L		04/05/23 09:47	04/13/23 13:23	1
N-Nitrosodi-n-propylamine	ND		5.21	0.823	ug/L		04/05/23 09:47	04/13/23 13:23	1
N-Nitrosodiphenylamine	ND		5.21	0.972	ug/L		04/05/23 09:47	04/13/23 13:23	1
Pentachloronitrobenzene	ND		5.21	0.641	ug/L		04/05/23 09:47	04/13/23 13:23	1
Pentachlorophenol	ND		10.4	3.22	ug/L		04/05/23 09:47	04/13/23 13:23	1
Phenol	ND	*- *1	5.21	0.661	ug/L		04/05/23 09:47	04/13/23 13:23	1
Pyridine	ND	*- *1	5.21	1.40	ug/L		04/05/23 09:47	04/13/23 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
2-Fluorophenol (Surr)	*45*		*15 - 110*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
Nitrobenzene-d5 (Surr)	*70*		*30 - 130*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
Phenol-d5 (Surr)	*29*		*15 - 110*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*15 - 110*	*04/05/23 09:47*	*04/13/23 13:23*	*1*
Terphenyl-d14	*65*		*30 - 130*	*04/05/23 09:47*	*04/13/23 13:23*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 23:13	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 23:13	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 23:13	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 23:13	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 23:13	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 23:13	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 23:13	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*85*		*70 - 130*		*04/06/23 23:13*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 23:13*	*1*

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-09

Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5

Matrix: Water

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.417	0.0583	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1221	ND		0.417	0.155	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1232	ND		0.417	0.100	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1242	ND		0.417	0.0792	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1248	ND		0.417	0.171	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1254	ND		0.417	0.152	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1262	ND		0.417	0.167	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1260	ND		0.417	0.0792	ug/L		04/06/23 11:56	04/07/23 23:51	1
PCB-1268	ND		0.417	0.0875	ug/L		04/06/23 11:56	04/07/23 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*
Tetrachloro-m-xylene	*58*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*04/06/23 11:56*	*04/07/23 23:51*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**5.37**	**J**	10.0	4.00	ug/L		04/07/23 12:24	04/12/23 08:09	1
Antimony	**0.372**	**J**	1.00	0.200	ug/L		04/07/23 12:24	04/12/23 08:09	1
Arsenic	**1.41**	**J**	2.00	0.680	ug/L		04/07/23 12:24	04/12/23 08:09	1
Barium	**5.76**		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 08:09	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 08:09	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 08:09	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 08:09	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 08:09	1
Lead	**0.434**	**J**	0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 08:09	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 08:09	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 08:09	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 08:09	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 08:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 12:58	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-TB-02
Date Collected: 03/31/23 07:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-7
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 14:22	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 14:22	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 14:22	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 14:22	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 14:22	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 14:22	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 14:22	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 14:22	1
Bromomethane	ND		2.00	0.627	ug/L			04/06/23 14:22	1
2-Butanone (MEK)	ND	*-	2.00	0.577	ug/L			04/06/23 14:22	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/06/23 14:22	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 14:22	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 14:22	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 14:22	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 14:22	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 14:22	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 14:22	1
Chloroform	ND		1.00	0.297	ug/L			04/06/23 14:22	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 14:22	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 14:22	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 14:22	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 14:22	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 14:22	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 14:22	1
Dibromomethane	ND	*+	1.00	0.364	ug/L			04/06/23 14:22	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 14:22	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 14:22	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 14:22	1
Dichlorodifluoromethane (Freon 12)	ND	*-	2.00	0.289	ug/L			04/06/23 14:22	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 14:22	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 14:22	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 14:22	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 14:22	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 14:22	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 14:22	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 14:22	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 14:22	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 14:22	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 14:22	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 14:22	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 14:22	1
Hexachlorobutadiene	ND		1.00	0.236	ug/L			04/06/23 14:22	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 14:22	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 14:22	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 14:22	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 14:22	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 14:22	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 14:22	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-TB-02
Date Collected: 03/31/23 07:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-7
Matrix: Water

Method: MA DEP 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 14:22	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 14:22	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 14:22	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 14:22	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 14:22	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 14:22	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 14:22	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 14:22	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 14:22	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 14:22	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 14:22	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 14:22	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 14:22	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 14:22	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 14:22	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 14:22	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 14:22	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 14:22	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 14:22	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 14:22	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 14:22	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 14:22	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 14:22	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 14:22	1
1,4-Dioxane	ND	*-	50.0	7.43	ug/L			04/06/23 14:22	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 14:22	1
Ethanol	ND		200	9.08	ug/L			04/06/23 14:22	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 14:22	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/06/23 14:22*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/06/23 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/06/23 14:22*	*1*
Dibromofluoromethane (Surr)	*127*		*70 - 130*		*04/06/23 14:22*	*1*

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:37	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 15:37	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 15:37	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:37	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 15:37	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 15:37	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-TB-02
Date Collected: 03/31/23 07:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-7
Matrix: Water

Method: MA DEP MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 15:37	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*84*		*70 - 130*		*04/06/23 15:37*	*1*
2,5-Dibromotoluene (pid)	*86*		*70 - 130*		*04/06/23 15:37*	*1*

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	TOL	DCA	DBFM
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
620-10579-1	2023-MW-01	90	94	128	129
620-10579-2	2023-MW-02	90	95	130	130
620-10579-3	2023-MW-07	90	95	130	121
620-10579-4	2023-MW-08	90	95	129	124
620-10579-5	2023-MW-09	90	95	129	128
620-10579-7	2023-TB-02	91	94	129	127
LCS 620-21055/4	Lab Control Sample	96	96	125	120
LCS 620-21130/4	Lab Control Sample	97	95	123	119
LCSD 620-21055/5	Lab Control Sample Dup	97	95	125	120
LCSD 620-21130/5	Lab Control Sample Dup	96	94	119	117
MB 620-21055/7	Method Blank	92	95	129	128
MB 620-21130/7	Method Blank	92	94	128	125

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	TPHL	BePd12
Lab Sample ID	Client Sample ID	(30-130)	(30-130)	(30-130)
620-10579-1	2023-MW-01	75	60	50
620-10579-2	2023-MW-02	51	52	62
620-10579-3	2023-MW-07	69	57	55
620-10579-4	2023-MW-08	56	50	47
620-10579-5	2023-MW-09	70	58	49
LCS 620-21080/2-A	Lab Control Sample	70	67	80
LCSD 620-21080/3-A	Lab Control Sample Dup	72	62	79
MB 620-21080/1-A	Method Blank	80	65	81

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14
BePd12 = Benzo(e)pyrene-d12

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
620-10579-1	2023-MW-01	66	42	65	27	74	58
620-10579-2	2023-MW-02	48	32	45	21	71	63
620-10579-3	2023-MW-07	68	43	70	28	74	60
620-10579-4	2023-MW-08	54	37	55	25	65	56
620-10579-5	2023-MW-09	70	45	70	29	73	65
LCS 620-21080/4-A	Lab Control Sample	52	35	54	22	70	77

Surrogate Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TBP	TPHL
Lab Sample ID	Client Sample ID	(30-130)	(15-110)	(30-130)	(15-110)	(15-110)	(30-130)
LCSD 620-21080/5-A	Lab Control Sample Dup	63	46	63	31	79	69
MB 620-21080/1-A	Method Blank	67	55	69	36	75	68

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		25DBTf1	25DBTp1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
620-10579-1	2023-MW-01	87	87
620-10579-2	2023-MW-02	85	86
620-10579-3	2023-MW-07	86	87
620-10579-4	2023-MW-08	88	90
620-10579-5	2023-MW-09	85	86
620-10579-7	2023-TB-02	84	86
LCS 620-21124/3	Lab Control Sample	86	88
LCSD 620-21124/4	Lab Control Sample Dup	88	89
MB 620-21124/6	Method Blank	88	88

Surrogate Legend

25DBTf = 2,5-Dibromotoluene (fid)
25DBTp = 2,5-Dibromotoluene (pid)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-10579-1	2023-MW-01	34	33	60	60
620-10579-2	2023-MW-02	63	59	70	63
620-10579-3	2023-MW-07	63	60	79	65
620-10579-4	2023-MW-08	54	52	78	60
620-10579-5	2023-MW-09	60	58	75	58
LCS 620-21137/2-A	Lab Control Sample	54	52	84	67
LCSD 620-21137/3-A	Lab Control Sample Dup	58	56	95	75
MB 620-21137/1-A	Method Blank	92	92	99	81

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/04/23 13:46	1
Acetone	ND		10.0	0.902	ug/L			04/04/23 13:46	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/04/23 13:46	1
Benzene	ND		1.00	0.250	ug/L			04/04/23 13:46	1
Bromobenzene	ND		1.00	0.403	ug/L			04/04/23 13:46	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/04/23 13:46	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/04/23 13:46	1
Bromoform	ND		1.00	0.454	ug/L			04/04/23 13:46	1
Bromomethane	ND		2.00	0.627	ug/L			04/04/23 13:46	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/04/23 13:46	1
n-Butylbenzene	ND		1.00	0.450	ug/L			04/04/23 13:46	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/04/23 13:46	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/04/23 13:46	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/04/23 13:46	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/04/23 13:46	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/04/23 13:46	1
Chloroethane	ND		2.00	0.405	ug/L			04/04/23 13:46	1
Chloroform	ND		1.00	0.297	ug/L			04/04/23 13:46	1
Chloromethane	ND		2.00	0.485	ug/L			04/04/23 13:46	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/04/23 13:46	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/04/23 13:46	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/04/23 13:46	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/04/23 13:46	1
Dibromomethane	ND		1.00	0.364	ug/L			04/04/23 13:46	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/04/23 13:46	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/04/23 13:46	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/04/23 13:46	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/04/23 13:46	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/04/23 13:46	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/04/23 13:46	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/04/23 13:46	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/04/23 13:46	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/04/23 13:46	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/04/23 13:46	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/04/23 13:46	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/04/23 13:46	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/04/23 13:46	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/04/23 13:46	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/04/23 13:46	1
Hexachlorobutadiene	0.2954	J	1.00	0.236	ug/L			04/04/23 13:46	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/04/23 13:46	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/04/23 13:46	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/04/23 13:46	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/04/23 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/04/23 13:46	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/04/23 13:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21055/7
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.00	0.696	ug/L			04/04/23 13:46	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/04/23 13:46	1
Styrene	ND		1.00	0.419	ug/L			04/04/23 13:46	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/04/23 13:46	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/04/23 13:46	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Toluene	ND		1.00	0.283	ug/L			04/04/23 13:46	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/04/23 13:46	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/04/23 13:46	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/04/23 13:46	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/04/23 13:46	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/04/23 13:46	1
Trichloroethene	ND		1.00	0.364	ug/L			04/04/23 13:46	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/04/23 13:46	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/04/23 13:46	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/04/23 13:46	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/04/23 13:46	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/04/23 13:46	1
m,p-Xylene	ND		1.00	0.779	ug/L			04/04/23 13:46	1
o-Xylene	ND		1.00	0.428	ug/L			04/04/23 13:46	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/04/23 13:46	1
Ethyl ether	ND		1.00	0.421	ug/L			04/04/23 13:46	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/04/23 13:46	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/04/23 13:46	1
tert-Butanol	ND		10.0	8.52	ug/L			04/04/23 13:46	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/04/23 13:46	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/04/23 13:46	1
Ethanol	ND		200	9.08	ug/L			04/04/23 13:46	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/04/23 13:46	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/04/23 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/04/23 13:46*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/04/23 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*04/04/23 13:46*	*1*
Dibromofluoromethane (Surr)	*128*		*70 - 130*		*04/04/23 13:46*	*1*

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.82		ug/L		94	70 - 130
Acetone	20.0	16.28		ug/L		81	70 - 130
Acrylonitrile	20.0	17.49		ug/L		87	70 - 130
Benzene	20.0	19.86		ug/L		99	70 - 130
Bromobenzene	20.0	19.22		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	23.80		ug/L		119	70 - 130
Bromodichloromethane	20.0	22.21		ug/L		111	70 - 130
Bromoform	20.0	22.19		ug/L		111	70 - 130
Bromomethane	20.0	25.77		ug/L		129	70 - 130
2-Butanone (MEK)	20.0	13.01	*-	ug/L		65	70 - 130
n-Butylbenzene	20.0	21.15		ug/L		106	70 - 130
sec-Butylbenzene	20.0	21.18		ug/L		106	70 - 130
tert-Butylbenzene	20.0	19.21		ug/L		96	70 - 130
Carbon disulfide	20.0	19.74		ug/L		99	70 - 130
Carbon tetrachloride	20.0	20.47		ug/L		102	70 - 130
Chlorobenzene	20.0	22.08		ug/L		110	70 - 130
Chloroethane	20.0	17.58		ug/L		88	70 - 130
Chloroform	20.0	20.49		ug/L		102	70 - 130
Chloromethane	20.0	19.69		ug/L		98	70 - 130
2-Chlorotoluene	20.0	21.06		ug/L		105	70 - 130
4-Chlorotoluene	20.0	21.03		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	21.43		ug/L		107	70 - 130
Dibromochloromethane	20.0	22.01		ug/L		110	70 - 130
1,2-Dibromoethane (EDB)	20.0	20.14		ug/L		101	70 - 130
Dibromomethane	20.0	24.55		ug/L		123	70 - 130
1,2-Dichlorobenzene	20.0	23.81		ug/L		119	70 - 130
1,3-Dichlorobenzene	20.0	19.87		ug/L		99	70 - 130
1,4-Dichlorobenzene	20.0	21.85		ug/L		109	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.59	*-	ug/L		63	70 - 130
1,1-Dichloroethane	20.0	18.20		ug/L		91	70 - 130
1,2-Dichloroethane	20.0	23.32		ug/L		117	70 - 130
1,1-Dichloroethene	20.0	18.02		ug/L		90	70 - 130
cis-1,2-Dichloroethene	20.0	21.80		ug/L		109	70 - 130
trans-1,2-Dichloroethene	20.0	19.35		ug/L		97	70 - 130
1,2-Dichloropropane	20.0	21.69		ug/L		108	70 - 130
1,3-Dichloropropane	20.0	19.01		ug/L		95	70 - 130
2,2-Dichloropropane	20.0	17.94		ug/L		90	70 - 130
1,1-Dichloropropene	20.0	17.55		ug/L		88	70 - 130
cis-1,3-Dichloropropene	20.0	19.57		ug/L		98	70 - 130
trans-1,3-Dichloropropene	20.0	20.59		ug/L		103	70 - 130
Ethylbenzene	20.0	21.90		ug/L		109	70 - 130
Hexachlorobutadiene	20.0	19.79		ug/L		99	70 - 130
2-Hexanone (MBK)	20.0	16.55		ug/L		83	70 - 130
Isopropylbenzene	20.0	19.59		ug/L		98	70 - 130
4-Isopropyltoluene	20.0	21.47		ug/L		107	70 - 130
Methyl tert-butyl ether	20.0	16.76		ug/L		84	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.14		ug/L		96	70 - 130
Methylene Chloride	20.0	18.32		ug/L		92	70 - 130
Naphthalene	20.0	17.58		ug/L		88	70 - 130
N-Propylbenzene	20.0	20.08		ug/L		100	70 - 130
Styrene	20.0	19.99		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	20.0	21.89		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.40		ug/L		112	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21055/4
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	20.0	18.11		ug/L		91	70 - 130
Toluene	20.0	19.13		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	20.0	18.64		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	20.0	18.05		ug/L		90	70 - 130
1,3,5-Trichlorobenzene	20.0	20.68		ug/L		103	70 - 130
1,1,1-Trichloroethane	20.0	18.92		ug/L		95	70 - 130
1,1,2-Trichloroethane	20.0	21.21		ug/L		106	70 - 130
Trichloroethene	20.0	17.83		ug/L		89	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	21.08		ug/L		105	70 - 130
1,2,3-Trichloropropane	20.0	19.67		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	20.0	21.82		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	20.0	21.64		ug/L		108	70 - 130
Vinyl chloride	20.0	18.38		ug/L		92	70 - 130
m,p-Xylene	40.0	47.21		ug/L		118	70 - 130
o-Xylene	20.0	22.60		ug/L		113	70 - 130
Tetrahydrofuran	20.0	16.39		ug/L		82	70 - 130
Ethyl ether	20.0	19.77		ug/L		99	70 - 130
Tert-amyl methyl ether	20.0	15.79		ug/L		79	70 - 130
Ethyl tert-butyl ether	20.0	17.64		ug/L		88	70 - 130
di-Isopropyl ether	20.0	19.04		ug/L		95	70 - 130
tert-Butanol	200	162.1		ug/L		81	70 - 130
1,4-Dioxane	200	117.6	*-	ug/L		59	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.23		ug/L		101	70 - 130
Ethanol	400	274.5	*-	ug/L		69	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.37		ug/L		92	70 - 130	2	20
Acetone	20.0	15.64		ug/L		78	70 - 130	4	20
Acrylonitrile	20.0	17.62		ug/L		88	70 - 130	1	20
Benzene	20.0	19.57		ug/L		98	70 - 130	1	20
Bromobenzene	20.0	19.44		ug/L		97	70 - 130	1	20
Bromochloromethane	20.0	21.50		ug/L		108	70 - 130	10	20
Bromodichloromethane	20.0	21.62		ug/L		108	70 - 130	3	20
Bromoform	20.0	22.61		ug/L		113	70 - 130	2	20
Bromomethane	20.0	25.19		ug/L		126	70 - 130	2	20
2-Butanone (MEK)	20.0	12.56	*-	ug/L		63	70 - 130	3	20
n-Butylbenzene	20.0	21.32		ug/L		107	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
sec-Butylbenzene	20.0	20.95		ug/L		105	70 - 130	1	20
tert-Butylbenzene	20.0	19.08		ug/L		95	70 - 130	1	20
Carbon disulfide	20.0	19.06		ug/L		95	70 - 130	4	20
Carbon tetrachloride	20.0	20.39		ug/L		102	70 - 130	0	20
Chlorobenzene	20.0	22.14		ug/L		111	70 - 130	0	20
Chloroethane	20.0	18.44		ug/L		92	70 - 130	5	20
Chloroform	20.0	20.37		ug/L		102	70 - 130	1	20
Chloromethane	20.0	19.46		ug/L		97	70 - 130	1	20
2-Chlorotoluene	20.0	21.28		ug/L		106	70 - 130	1	20
4-Chlorotoluene	20.0	21.05		ug/L		105	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	20.0	22.17		ug/L		111	70 - 130	3	20
Dibromochloromethane	20.0	21.81		ug/L		109	70 - 130	1	20
1,2-Dibromoethane (EDB)	20.0	20.17		ug/L		101	70 - 130	0	20
Dibromomethane	20.0	25.20		ug/L		126	70 - 130	3	20
1,2-Dichlorobenzene	20.0	23.92		ug/L		120	70 - 130	0	20
1,3-Dichlorobenzene	20.0	19.98		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	20.0	21.79		ug/L		109	70 - 130	0	20
Dichlorodifluoromethane (Freon 12)	20.0	12.44	*-	ug/L		62	70 - 130	1	20
1,1-Dichloroethane	20.0	18.04		ug/L		90	70 - 130	1	20
1,2-Dichloroethane	20.0	23.31		ug/L		117	70 - 130	0	20
1,1-Dichloroethene	20.0	17.89		ug/L		89	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	19.98		ug/L		100	70 - 130	9	20
trans-1,2-Dichloroethene	20.0	20.44		ug/L		102	70 - 130	5	20
1,2-Dichloropropane	20.0	21.61		ug/L		108	70 - 130	0	20
1,3-Dichloropropane	20.0	19.16		ug/L		96	70 - 130	1	20
2,2-Dichloropropane	20.0	17.83		ug/L		89	70 - 130	1	20
1,1-Dichloropropene	20.0	17.60		ug/L		88	70 - 130	0	20
cis-1,3-Dichloropropene	20.0	19.65		ug/L		98	70 - 130	0	20
trans-1,3-Dichloropropene	20.0	20.76		ug/L		104	70 - 130	1	20
Ethylbenzene	20.0	22.08		ug/L		110	70 - 130	1	20
Hexachlorobutadiene	20.0	19.95		ug/L		100	70 - 130	1	20
2-Hexanone (MBK)	20.0	16.30		ug/L		82	70 - 130	2	20
Isopropylbenzene	20.0	19.63		ug/L		98	70 - 130	0	20
4-Isopropyltoluene	20.0	21.65		ug/L		108	70 - 130	1	20
Methyl tert-butyl ether	20.0	16.71		ug/L		84	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	20.0	19.41		ug/L		97	70 - 130	1	20
Methylene Chloride	20.0	19.45		ug/L		97	70 - 130	6	20
Naphthalene	20.0	17.61		ug/L		88	70 - 130	0	20
N-Propylbenzene	20.0	20.07		ug/L		100	70 - 130	0	20
Styrene	20.0	20.26		ug/L		101	70 - 130	1	20
1,1,1,2-Tetrachloroethane	20.0	22.05		ug/L		110	70 - 130	1	20
1,1,2,2-Tetrachloroethane	20.0	22.63		ug/L		113	70 - 130	1	20
Tetrachloroethene	20.0	17.85		ug/L		89	70 - 130	1	20
Toluene	20.0	19.01		ug/L		95	70 - 130	1	20
1,2,3-Trichlorobenzene	20.0	18.85		ug/L		94	70 - 130	1	20
1,2,4-Trichlorobenzene	20.0	18.28		ug/L		91	70 - 130	1	20
1,3,5-Trichlorobenzene	20.0	21.07		ug/L		105	70 - 130	2	20
1,1,1-Trichloroethane	20.0	18.84		ug/L		94	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21055/5
Matrix: Water
Analysis Batch: 21055

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichloroethane			20.0	20.99		ug/L		105	70 - 130	1	20
Trichloroethene			20.0	17.36		ug/L		87	70 - 130	3	20
Trichlorofluoromethane (Freon 11)			20.0	20.83		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane			20.0	19.94		ug/L		100	70 - 130	1	20
1,2,4-Trimethylbenzene			20.0	21.99		ug/L		110	70 - 130	1	20
1,3,5-Trimethylbenzene			20.0	21.63		ug/L		108	70 - 130	0	20
Vinyl chloride			20.0	18.49		ug/L		92	70 - 130	1	20
m,p-Xylene			40.0	47.69		ug/L		119	70 - 130	1	20
o-Xylene			20.0	22.86		ug/L		114	70 - 130	1	20
Tetrahydrofuran			20.0	19.27		ug/L		96	70 - 130	16	20
Ethyl ether			20.0	19.81		ug/L		99	70 - 130	0	20
Tert-amyl methyl ether			20.0	15.57		ug/L		78	70 - 130	1	20
Ethyl tert-butyl ether			20.0	17.63		ug/L		88	70 - 130	0	20
di-Isopropyl ether			20.0	19.11		ug/L		96	70 - 130	0	20
tert-Butanol			200	157.3		ug/L		79	70 - 130	3	20
1,4-Dioxane			200	111.3	*-	ug/L		56	70 - 130	5	20
trans-1,4-Dichloro-2-butene			20.0	20.78		ug/L		104	70 - 130	3	20
Ethanol			400	328.7		ug/L		82	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*
Dibromofluoromethane (Surr)	*120*		*70 - 130*

Lab Sample ID: MB 620-21130/7
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichlorotrifluoroethane (Freon 113)	ND		1.00	0.202	ug/L			04/06/23 13:30	1
Acetone	ND		10.0	0.902	ug/L			04/06/23 13:30	1
Acrylonitrile	ND		0.500	0.356	ug/L			04/06/23 13:30	1
Benzene	ND		1.00	0.250	ug/L			04/06/23 13:30	1
Bromobenzene	ND		1.00	0.403	ug/L			04/06/23 13:30	1
Bromochloromethane	ND		1.00	0.391	ug/L			04/06/23 13:30	1
Bromodichloromethane	ND		0.500	0.334	ug/L			04/06/23 13:30	1
Bromoform	ND		1.00	0.454	ug/L			04/06/23 13:30	1
Bromomethane	ND		2.00	0.627	ug/L			04/06/23 13:30	1
2-Butanone (MEK)	ND		2.00	0.577	ug/L			04/06/23 13:30	1
n-Butylbenzene	0.6316	J	1.00	0.450	ug/L			04/06/23 13:30	1
sec-Butylbenzene	ND		1.00	0.401	ug/L			04/06/23 13:30	1
tert-Butylbenzene	ND		1.00	0.400	ug/L			04/06/23 13:30	1
Carbon disulfide	ND		2.00	0.438	ug/L			04/06/23 13:30	1
Carbon tetrachloride	ND		1.00	0.246	ug/L			04/06/23 13:30	1
Chlorobenzene	ND		1.00	0.417	ug/L			04/06/23 13:30	1
Chloroethane	ND		2.00	0.405	ug/L			04/06/23 13:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21130/7
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.00	0.297	ug/L			04/06/23 13:30	1
Chloromethane	ND		2.00	0.485	ug/L			04/06/23 13:30	1
2-Chlorotoluene	ND		1.00	0.429	ug/L			04/06/23 13:30	1
4-Chlorotoluene	ND		1.00	0.416	ug/L			04/06/23 13:30	1
1,2-Dibromo-3-Chloropropane	ND		2.00	0.511	ug/L			04/06/23 13:30	1
Dibromochloromethane	ND		0.500	0.326	ug/L			04/06/23 13:30	1
1,2-Dibromoethane (EDB)	ND		0.500	0.339	ug/L			04/06/23 13:30	1
Dibromomethane	ND		1.00	0.364	ug/L			04/06/23 13:30	1
1,2-Dichlorobenzene	ND		1.00	0.480	ug/L			04/06/23 13:30	1
1,3-Dichlorobenzene	ND		1.00	0.500	ug/L			04/06/23 13:30	1
1,4-Dichlorobenzene	ND		1.00	0.487	ug/L			04/06/23 13:30	1
Dichlorodifluoromethane (Freon 12)	ND		2.00	0.289	ug/L			04/06/23 13:30	1
1,1-Dichloroethane	ND		1.00	0.362	ug/L			04/06/23 13:30	1
1,2-Dichloroethane	ND		1.00	0.260	ug/L			04/06/23 13:30	1
1,1-Dichloroethene	ND		1.00	0.344	ug/L			04/06/23 13:30	1
cis-1,2-Dichloroethene	ND		1.00	0.297	ug/L			04/06/23 13:30	1
trans-1,2-Dichloroethene	ND		1.00	0.188	ug/L			04/06/23 13:30	1
1,2-Dichloropropane	ND		1.00	0.357	ug/L			04/06/23 13:30	1
1,3-Dichloropropane	ND		1.00	0.320	ug/L			04/06/23 13:30	1
2,2-Dichloropropane	ND		1.00	0.488	ug/L			04/06/23 13:30	1
1,1-Dichloropropene	ND		1.00	0.286	ug/L			04/06/23 13:30	1
cis-1,3-Dichloropropene	ND		0.500	0.300	ug/L			04/06/23 13:30	1
trans-1,3-Dichloropropene	ND		0.500	0.370	ug/L			04/06/23 13:30	1
Ethylbenzene	ND		1.00	0.363	ug/L			04/06/23 13:30	1
Hexachlorobutadiene	0.2868	J	1.00	0.236	ug/L			04/06/23 13:30	1
2-Hexanone (MBK)	ND		2.00	0.687	ug/L			04/06/23 13:30	1
Isopropylbenzene	ND		1.00	0.376	ug/L			04/06/23 13:30	1
4-Isopropyltoluene	ND		1.00	0.429	ug/L			04/06/23 13:30	1
Methyl tert-butyl ether	ND		1.00	0.263	ug/L			04/06/23 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		2.00	0.348	ug/L			04/06/23 13:30	1
Methylene Chloride	ND		2.00	0.535	ug/L			04/06/23 13:30	1
Naphthalene	ND		2.00	0.696	ug/L			04/06/23 13:30	1
N-Propylbenzene	ND		1.00	0.359	ug/L			04/06/23 13:30	1
Styrene	ND		1.00	0.419	ug/L			04/06/23 13:30	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.369	ug/L			04/06/23 13:30	1
1,1,2,2-Tetrachloroethane	ND		0.500	0.457	ug/L			04/06/23 13:30	1
Tetrachloroethene	ND		1.00	0.364	ug/L			04/06/23 13:30	1
Toluene	ND		1.00	0.283	ug/L			04/06/23 13:30	1
1,2,3-Trichlorobenzene	ND		1.00	0.742	ug/L			04/06/23 13:30	1
1,2,4-Trichlorobenzene	ND		1.00	0.695	ug/L			04/06/23 13:30	1
1,3,5-Trichlorobenzene	ND		1.00	0.536	ug/L			04/06/23 13:30	1
1,1,1-Trichloroethane	ND		1.00	0.330	ug/L			04/06/23 13:30	1
1,1,2-Trichloroethane	ND		1.00	0.350	ug/L			04/06/23 13:30	1
Trichloroethene	ND		1.00	0.364	ug/L			04/06/23 13:30	1
Trichlorofluoromethane (Freon 11)	ND		1.00	0.228	ug/L			04/06/23 13:30	1
1,2,3-Trichloropropane	ND		1.00	0.513	ug/L			04/06/23 13:30	1
1,2,4-Trimethylbenzene	ND		1.00	0.462	ug/L			04/06/23 13:30	1
1,3,5-Trimethylbenzene	ND		1.00	0.446	ug/L			04/06/23 13:30	1
Vinyl chloride	ND		1.00	0.256	ug/L			04/06/23 13:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21130/7
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		1.00	0.779	ug/L			04/06/23 13:30	1
o-Xylene	ND		1.00	0.428	ug/L			04/06/23 13:30	1
Tetrahydrofuran	ND		2.00	0.704	ug/L			04/06/23 13:30	1
Ethyl ether	ND		1.00	0.421	ug/L			04/06/23 13:30	1
Tert-amyl methyl ether	ND		1.00	0.260	ug/L			04/06/23 13:30	1
Ethyl tert-butyl ether	ND		1.00	0.293	ug/L			04/06/23 13:30	1
di-Isopropyl ether	ND		1.00	0.260	ug/L			04/06/23 13:30	1
tert-Butanol	ND		10.0	8.52	ug/L			04/06/23 13:30	1
1,4-Dioxane	ND		50.0	7.43	ug/L			04/06/23 13:30	1
trans-1,4-Dichloro-2-butene	ND		5.00	0.806	ug/L			04/06/23 13:30	1
Ethanol	ND		200	9.08	ug/L			04/06/23 13:30	1
1,3-Dichloropropene, Total	ND		0.500	0.370	ug/L			04/06/23 13:30	1
Xylenes, Total	ND		3.00	2.00	ug/L			04/06/23 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/06/23 13:30*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/06/23 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*128*		*70 - 130*		*04/06/23 13:30*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*04/06/23 13:30*	*1*

Lab Sample ID: LCS 620-21130/4
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.75		ug/L		94	70 - 130
Acetone	20.0	16.75		ug/L		84	70 - 130
Acrylonitrile	20.0	17.70		ug/L		89	70 - 130
Benzene	20.0	19.62		ug/L		98	70 - 130
Bromobenzene	20.0	19.62		ug/L		98	70 - 130
Bromochloromethane	20.0	23.96		ug/L		120	70 - 130
Bromodichloromethane	20.0	21.57		ug/L		108	70 - 130
Bromoform	20.0	22.23		ug/L		111	70 - 130
Bromomethane	20.0	25.64		ug/L		128	70 - 130
2-Butanone (MEK)	20.0	11.99	*-	ug/L		60	70 - 130
n-Butylbenzene	20.0	22.16		ug/L		111	70 - 130
sec-Butylbenzene	20.0	21.75		ug/L		109	70 - 130
tert-Butylbenzene	20.0	19.48		ug/L		97	70 - 130
Carbon disulfide	20.0	19.93		ug/L		100	70 - 130
Carbon tetrachloride	20.0	20.44		ug/L		102	70 - 130
Chlorobenzene	20.0	22.33		ug/L		112	70 - 130
Chloroethane	20.0	18.43		ug/L		92	70 - 130
Chloroform	20.0	20.81		ug/L		104	70 - 130
Chloromethane	20.0	19.73		ug/L		99	70 - 130
2-Chlorotoluene	20.0	21.30		ug/L		107	70 - 130
4-Chlorotoluene	20.0	21.38		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	22.60		ug/L		113	70 - 130
Dibromochloromethane	20.0	21.84		ug/L		109	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21130/4
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	20.0	20.06		ug/L		100	70 - 130
Dibromomethane	20.0	26.35	*+	ug/L		132	70 - 130
1,2-Dichlorobenzene	20.0	24.36		ug/L		122	70 - 130
1,3-Dichlorobenzene	20.0	20.28		ug/L		101	70 - 130
1,4-Dichlorobenzene	20.0	22.37		ug/L		112	70 - 130
Dichlorodifluoromethane (Freon 12)	20.0	12.24	*-	ug/L		61	70 - 130
1,1-Dichloroethane	20.0	19.01		ug/L		95	70 - 130
1,2-Dichloroethane	20.0	23.45		ug/L		117	70 - 130
1,1-Dichloroethene	20.0	17.77		ug/L		89	70 - 130
cis-1,2-Dichloroethene	20.0	17.85		ug/L		89	70 - 130
trans-1,2-Dichloroethene	20.0	18.37		ug/L		92	70 - 130
1,2-Dichloropropane	20.0	22.32		ug/L		112	70 - 130
1,3-Dichloropropane	20.0	19.28		ug/L		96	70 - 130
2,2-Dichloropropane	20.0	18.11		ug/L		91	70 - 130
1,1-Dichloropropene	20.0	17.76		ug/L		89	70 - 130
cis-1,3-Dichloropropene	20.0	19.85		ug/L		99	70 - 130
trans-1,3-Dichloropropene	20.0	20.66		ug/L		103	70 - 130
Ethylbenzene	20.0	22.42		ug/L		112	70 - 130
Hexachlorobutadiene	20.0	20.13		ug/L		101	70 - 130
2-Hexanone (MBK)	20.0	16.82		ug/L		84	70 - 130
Isopropylbenzene	20.0	20.01		ug/L		100	70 - 130
4-Isopropyltoluene	20.0	22.13		ug/L		111	70 - 130
Methyl tert-butyl ether	20.0	16.96		ug/L		85	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.48		ug/L		97	70 - 130
Methylene Chloride	20.0	18.86		ug/L		94	70 - 130
Naphthalene	20.0	18.30		ug/L		92	70 - 130
N-Propylbenzene	20.0	20.67		ug/L		103	70 - 130
Styrene	20.0	20.84		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	20.0	22.04		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	20.0	23.15		ug/L		116	70 - 130
Tetrachloroethene	20.0	17.71		ug/L		89	70 - 130
Toluene	20.0	19.20		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	20.0	19.18		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	20.0	18.55		ug/L		93	70 - 130
1,3,5-Trichlorobenzene	20.0	21.40		ug/L		107	70 - 130
1,1,1-Trichloroethane	20.0	18.82		ug/L		94	70 - 130
1,1,2-Trichloroethane	20.0	21.30		ug/L		106	70 - 130
Trichloroethene	20.0	18.34		ug/L		92	70 - 130
Trichlorofluoromethane (Freon 11)	20.0	20.96		ug/L		105	70 - 130
1,2,3-Trichloropropane	20.0	20.02		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	20.0	22.51		ug/L		113	70 - 130
1,3,5-Trimethylbenzene	20.0	21.95		ug/L		110	70 - 130
Vinyl chloride	20.0	18.69		ug/L		93	70 - 130
m,p-Xylene	40.0	47.95		ug/L		120	70 - 130
o-Xylene	20.0	23.08		ug/L		115	70 - 130
Tetrahydrofuran	20.0	15.87		ug/L		79	70 - 130
Ethyl ether	20.0	19.95		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21130/4
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tert-amyl methyl ether	20.0	16.17		ug/L		81	70 - 130
Ethyl tert-butyl ether	20.0	17.89		ug/L		89	70 - 130
di-Isopropyl ether	20.0	19.30		ug/L		96	70 - 130
tert-Butanol	200	185.1		ug/L		93	70 - 130
1,4-Dioxane	200	127.2	*-	ug/L		64	70 - 130
trans-1,4-Dichloro-2-butene	20.0	20.51		ug/L		103	70 - 130
Ethanol	400	369.2		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*123*		*70 - 130*
Dibromofluoromethane (Surr)	*119*		*70 - 130*

Lab Sample ID: LCSD 620-21130/5
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.0	18.36		ug/L		92	70 - 130	2	20
Acetone	20.0	15.21		ug/L		76	70 - 130	10	20
Acrylonitrile	20.0	16.97		ug/L		85	70 - 130	4	20
Benzene	20.0	19.57		ug/L		98	70 - 130	0	20
Bromobenzene	20.0	19.81		ug/L		99	70 - 130	1	20
Bromochloromethane	20.0	21.31		ug/L		107	70 - 130	12	20
Bromodichloromethane	20.0	21.68		ug/L		108	70 - 130	0	20
Bromoform	20.0	22.79		ug/L		114	70 - 130	2	20
Bromomethane	20.0	25.60		ug/L		128	70 - 130	0	20
2-Butanone (MEK)	20.0	11.54	*-	ug/L		58	70 - 130	4	20
n-Butylbenzene	20.0	22.04		ug/L		110	70 - 130	1	20
sec-Butylbenzene	20.0	21.79		ug/L		109	70 - 130	0	20
tert-Butylbenzene	20.0	19.33		ug/L		97	70 - 130	1	20
Carbon disulfide	20.0	19.09		ug/L		95	70 - 130	4	20
Carbon tetrachloride	20.0	20.19		ug/L		101	70 - 130	1	20
Chlorobenzene	20.0	22.64		ug/L		113	70 - 130	1	20
Chloroethane	20.0	18.01		ug/L		90	70 - 130	2	20
Chloroform	20.0	20.19		ug/L		101	70 - 130	3	20
Chloromethane	20.0	19.60		ug/L		98	70 - 130	1	20
2-Chlorotoluene	20.0	21.40		ug/L		107	70 - 130	0	20
4-Chlorotoluene	20.0	21.72		ug/L		109	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	20.0	23.01		ug/L		115	70 - 130	2	20
Dibromochloromethane	20.0	22.13		ug/L		111	70 - 130	1	20
1,2-Dibromoethane (EDB)	20.0	20.22		ug/L		101	70 - 130	1	20
Dibromomethane	20.0	25.65		ug/L		128	70 - 130	3	20
1,2-Dichlorobenzene	20.0	24.65		ug/L		123	70 - 130	1	20
1,3-Dichlorobenzene	20.0	20.37		ug/L		102	70 - 130	0	20
1,4-Dichlorobenzene	20.0	22.75		ug/L		114	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21130/5
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dichlorodifluoromethane (Freon 12)	20.0	12.07	*-	ug/L		60	70 - 130	1	20
1,1-Dichloroethane	20.0	19.07		ug/L		95	70 - 130	0	20
1,2-Dichloroethane	20.0	22.50		ug/L		112	70 - 130	4	20
1,1-Dichloroethene	20.0	17.62		ug/L		88	70 - 130	1	20
cis-1,2-Dichloroethene	20.0	18.95		ug/L		95	70 - 130	6	20
trans-1,2-Dichloroethene	20.0	20.12		ug/L		101	70 - 130	9	20
1,2-Dichloropropane	20.0	22.32		ug/L		112	70 - 130	0	20
1,3-Dichloropropane	20.0	19.31		ug/L		97	70 - 130	0	20
2,2-Dichloropropane	20.0	17.79		ug/L		89	70 - 130	2	20
1,1-Dichloropropene	20.0	17.78		ug/L		89	70 - 130	0	20
cis-1,3-Dichloropropene	20.0	20.08		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	20.0	20.87		ug/L		104	70 - 130	1	20
Ethylbenzene	20.0	22.69		ug/L		113	70 - 130	1	20
Hexachlorobutadiene	20.0	20.60		ug/L		103	70 - 130	2	20
2-Hexanone (MBK)	20.0	17.47		ug/L		87	70 - 130	4	20
Isopropylbenzene	20.0	20.21		ug/L		101	70 - 130	1	20
4-Isopropyltoluene	20.0	22.51		ug/L		113	70 - 130	2	20
Methyl tert-butyl ether	20.0	17.06		ug/L		85	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	20.0	20.14		ug/L		101	70 - 130	3	20
Methylene Chloride	20.0	18.19		ug/L		91	70 - 130	4	20
Naphthalene	20.0	18.91		ug/L		95	70 - 130	3	20
N-Propylbenzene	20.0	20.76		ug/L		104	70 - 130	0	20
Styrene	20.0	20.84		ug/L		104	70 - 130	0	20
1,1,1,2-Tetrachloroethane	20.0	22.03		ug/L		110	70 - 130	0	20
1,1,2,2-Tetrachloroethane	20.0	23.54		ug/L		118	70 - 130	2	20
Tetrachloroethene	20.0	17.59		ug/L		88	70 - 130	1	20
Toluene	20.0	19.17		ug/L		96	70 - 130	0	20
1,2,3-Trichlorobenzene	20.0	19.54		ug/L		98	70 - 130	2	20
1,2,4-Trichlorobenzene	20.0	18.80		ug/L		94	70 - 130	1	20
1,3,5-Trichlorobenzene	20.0	21.61		ug/L		108	70 - 130	1	20
1,1,1-Trichloroethane	20.0	18.88		ug/L		94	70 - 130	0	20
1,1,2-Trichloroethane	20.0	21.39		ug/L		107	70 - 130	0	20
Trichloroethene	20.0	18.44		ug/L		92	70 - 130	1	20
Trichlorofluoromethane (Freon 11)	20.0	20.74		ug/L		104	70 - 130	1	20
1,2,3-Trichloropropane	20.0	20.64		ug/L		103	70 - 130	3	20
1,2,4-Trimethylbenzene	20.0	22.55		ug/L		113	70 - 130	0	20
1,3,5-Trimethylbenzene	20.0	22.09		ug/L		110	70 - 130	1	20
Vinyl chloride	20.0	18.32		ug/L		92	70 - 130	2	20
m,p-Xylene	40.0	48.57		ug/L		121	70 - 130	1	20
o-Xylene	20.0	23.24		ug/L		116	70 - 130	1	20
Tetrahydrofuran	20.0	14.77		ug/L		74	70 - 130	7	20
Ethyl ether	20.0	20.04		ug/L		100	70 - 130	0	20
Tert-amyl methyl ether	20.0	15.88		ug/L		79	70 - 130	2	20
Ethyl tert-butyl ether	20.0	18.07		ug/L		90	70 - 130	1	20
di-Isopropyl ether	20.0	19.30		ug/L		97	70 - 130	0	20
tert-Butanol	200	172.1		ug/L		86	70 - 130	7	20
1,4-Dioxane	200	116.9	*-	ug/L		58	70 - 130	8	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21130/5
Matrix: Water
Analysis Batch: 21130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,4-Dichloro-2-butene			20.0	21.15		ug/L		106	70 - 130	3	20
Ethanol			400	328.8		ug/L		82	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*
Dibromofluoromethane (Surr)	*117*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		5.00	0.857	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2,4-Trichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,2-Dichlorobenzene	ND		5.00	1.23	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,3-Dichlorobenzene	ND		5.00	1.27	ug/L		04/05/23 09:47	04/07/23 14:52	1
1,4-Dichlorobenzene	ND		5.00	1.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,5-Trichlorophenol	ND		5.00	1.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4,6-Trichlorophenol	ND		5.00	0.909	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dichlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dimethylphenol	ND		5.00	0.609	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrophenol	ND		10.0	5.41	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,4-Dinitrotoluene	ND		5.00	0.950	ug/L		04/05/23 09:47	04/07/23 14:52	1
2,6-Dinitrotoluene	ND		5.00	0.761	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chloronaphthalene	ND		5.00	0.984	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Chlorophenol	ND		5.00	0.706	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Methylphenol	ND		5.00	0.535	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitroaniline	ND		5.00	0.682	ug/L		04/05/23 09:47	04/07/23 14:52	1
2-Nitrophenol	ND		5.00	0.771	ug/L		04/05/23 09:47	04/07/23 14:52	1
3 & 4 Methylphenol	ND		10.0	0.656	ug/L		04/05/23 09:47	04/07/23 14:52	1
3,3'-Dichlorobenzidine	ND		5.00	1.42	ug/L		04/05/23 09:47	04/07/23 14:52	1
3-Nitroaniline	ND		5.00	0.885	ug/L		04/05/23 09:47	04/07/23 14:52	1
4,6-Dinitro-2-methylphenol	ND		5.00	3.56	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Bromophenyl phenyl ether	ND		5.00	0.827	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloro-3-methylphenol	ND		5.00	0.788	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chloroaniline	ND		5.00	2.07	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Chlorophenyl phenyl ether	ND		5.00	0.895	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitroaniline	ND		5.00	0.892	ug/L		04/05/23 09:47	04/07/23 14:52	1
4-Nitrophenol	ND		20.0	0.659	ug/L		04/05/23 09:47	04/07/23 14:52	1
Acetophenone	ND		5.00	0.729	ug/L		04/05/23 09:47	04/07/23 14:52	1
Aniline	ND		5.00	1.40	ug/L		04/05/23 09:47	04/07/23 14:52	1
Azobenzene/Diphenyldiazene	ND		5.00	0.745	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzidine	ND		20.0	1.93	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzoic acid	ND		40.0	40.0	ug/L		04/05/23 09:47	04/07/23 14:52	1
Benzyl alcohol	ND		5.00	0.587	ug/L		04/05/23 09:47	04/07/23 14:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		5.00	0.646	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-chloroethyl)ether	ND		5.00	0.693	ug/L		04/05/23 09:47	04/07/23 14:52	1
bis (2-chloroisopropyl) ether	ND		5.00	0.979	ug/L		04/05/23 09:47	04/07/23 14:52	1
Bis(2-ethylhexyl) phthalate	ND		10.0	5.88	ug/L		04/05/23 09:47	04/07/23 14:52	1
Butyl benzyl phthalate	ND		5.00	0.864	ug/L		04/05/23 09:47	04/07/23 14:52	1
Carbazole	ND		5.00	0.913	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dibenzofuran	ND		5.00	0.784	ug/L		04/05/23 09:47	04/07/23 14:52	1
Diethyl phthalate	ND		5.00	0.876	ug/L		04/05/23 09:47	04/07/23 14:52	1
Dimethyl phthalate	ND		5.00	0.766	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-butyl phthalate	ND		5.00	0.918	ug/L		04/05/23 09:47	04/07/23 14:52	1
Di-n-octyl phthalate	ND		5.00	1.03	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobenzene	ND		5.00	0.754	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorobutadiene	ND		5.00	1.14	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachlorocyclopentadiene	ND		5.00	0.989	ug/L		04/05/23 09:47	04/07/23 14:52	1
Hexachloroethane	ND		5.00	1.28	ug/L		04/05/23 09:47	04/07/23 14:52	1
Isophorone	ND		5.00	0.508	ug/L		04/05/23 09:47	04/07/23 14:52	1
Nitrobenzene	ND		5.00	0.719	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodimethylamine	ND		5.00	0.558	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodi-n-propylamine	ND		5.00	0.790	ug/L		04/05/23 09:47	04/07/23 14:52	1
N-Nitrosodiphenylamine	ND		5.00	0.933	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachloronitrobenzene	ND		5.00	0.615	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pentachlorophenol	ND		10.0	3.09	ug/L		04/05/23 09:47	04/07/23 14:52	1
Phenol	ND		5.00	0.635	ug/L		04/05/23 09:47	04/07/23 14:52	1
Pyridine	ND		5.00	1.34	ug/L		04/05/23 09:47	04/07/23 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2-Fluorophenol (Surr)	*55*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Nitrobenzene-d5 (Surr)	*69*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Phenol-d5 (Surr)	*36*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 110*	*04/05/23 09:47*	*04/07/23 14:52*	*1*
Terphenyl-d14	*68*		*30 - 130*	*04/05/23 09:47*	*04/07/23 14:52*	*1*

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	16.05		ug/L		40	40 - 140
1,2,4-Trichlorobenzene	40.0	19.46		ug/L		49	40 - 140
1,2-Dichlorobenzene	40.0	19.98		ug/L		50	40 - 140
1,3-Dichlorobenzene	40.0	19.10		ug/L		48	40 - 140
1,4-Dichlorobenzene	40.0	19.07		ug/L		48	40 - 140
2,4,5-Trichlorophenol	40.0	24.71		ug/L		62	30 - 130
2,4,6-Trichlorophenol	40.0	24.14		ug/L		60	30 - 130
2,4-Dichlorophenol	40.0	22.11		ug/L		55	30 - 130
2,4-Dimethylphenol	40.0	19.76		ug/L		49	30 - 130
2,4-Dinitrophenol	40.0	29.51		ug/L		74	30 - 130

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	40.0	29.82		ug/L		75	40 - 140
2,6-Dinitrotoluene	40.0	27.30		ug/L		68	40 - 140
2-Chloronaphthalene	40.0	21.64		ug/L		54	40 - 140
2-Chlorophenol	40.0	22.06		ug/L		55	30 - 130
2-Methylphenol	40.0	18.88		ug/L		47	30 - 130
2-Nitroaniline	40.0	26.85		ug/L		67	40 - 140
2-Nitrophenol	40.0	22.63		ug/L		57	30 - 130
3 & 4 Methylphenol	40.0	18.05		ug/L		45	30 - 130
3,3'-Dichlorobenzidine	40.0	41.03		ug/L		103	40 - 140
3-Nitroaniline	40.0	25.28		ug/L		63	40 - 140
4,6-Dinitro-2-methylphenol	40.0	33.96		ug/L		85	30 - 130
4-Bromophenyl phenyl ether	40.0	26.56		ug/L		66	40 - 140
4-Chloro-3-methylphenol	40.0	23.42		ug/L		59	30 - 130
4-Chloroaniline	40.0	18.16		ug/L		45	40 - 140
4-Chlorophenyl phenyl ether	40.0	24.22		ug/L		61	40 - 140
4-Nitroaniline	40.0	35.09		ug/L		88	40 - 140
4-Nitrophenol	40.0	14.59	J	ug/L		36	30 - 130
Acetophenone	40.0	24.21		ug/L		61	40 - 140
Aniline	40.0	16.11		ug/L		40	40 - 140
Azobenzene/Diphenyldiazene	40.0	24.59		ug/L		61	40 - 140
Benzidine	40.0	6.263	J *-	ug/L		16	40 - 140
Benzoic acid	40.0	16.92		ug/L		42	30 - 130
Benzyl alcohol	40.0	18.98		ug/L		47	40 - 140
Bis(2-chloroethoxy)methane	40.0	20.28		ug/L		51	40 - 140
Bis(2-chloroethyl)ether	40.0	21.18		ug/L		53	40 - 140
bis (2-chloroisopropyl) ether	40.0	19.16		ug/L		48	40 - 140
Bis(2-ethylhexyl) phthalate	40.0	37.61		ug/L		94	40 - 140
Butyl benzyl phthalate	40.0	37.21		ug/L		93	40 - 140
Carbazole	40.0	32.62		ug/L		82	40 - 140
Dibenzofuran	40.0	23.23		ug/L		58	40 - 140
Diethyl phthalate	40.0	30.13		ug/L		75	40 - 140
Dimethyl phthalate	40.0	26.66		ug/L		67	40 - 140
Di-n-butyl phthalate	40.0	35.34		ug/L		88	40 - 140
Di-n-octyl phthalate	40.0	36.15		ug/L		90	40 - 140
Hexachlorobenzene	40.0	27.20		ug/L		68	40 - 140
Hexachlorobutadiene	40.0	17.05		ug/L		43	40 - 140
Hexachlorocyclopentadiene	40.0	16.78		ug/L		42	40 - 140
Hexachloroethane	40.0	19.23		ug/L		48	40 - 140
Isophorone	40.0	17.39		ug/L		43	40 - 140
Nitrobenzene	40.0	21.92		ug/L		55	40 - 140
N-Nitrosodimethylamine	40.0	11.21	*-	ug/L		28	40 - 140
N-Nitrosodi-n-propylamine	40.0	24.34		ug/L		61	40 - 140
N-Nitrosodiphenylamine	40.0	28.69		ug/L		72	40 - 140
Pentachloronitrobenzene	40.0	22.63		ug/L		57	40 - 140
Pentachlorophenol	40.0	26.52		ug/L		66	30 - 130
Phenol	40.0	9.606	*-	ug/L		24	40 - 140
Pyridine	40.0	10.19	*-	ug/L		25	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-21080/4-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	52		30 - 130
2-Fluorophenol (Surr)	35		15 - 110
Nitrobenzene-d5 (Surr)	54		30 - 130
Phenol-d5 (Surr)	22		15 - 110
2,4,6-Tribromophenol (Surr)	70		15 - 110
Terphenyl-d14	77		30 - 130

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			40.0	19.39		ug/L		48	40 - 140	19	20
1,2,4-Trichlorobenzene			40.0	23.08		ug/L		58	40 - 140	17	20
1,2-Dichlorobenzene			40.0	21.76		ug/L		54	40 - 140	9	20
1,3-Dichlorobenzene			40.0	20.84		ug/L		52	40 - 140	9	20
1,4-Dichlorobenzene			40.0	20.96		ug/L		52	40 - 140	9	20
2,4,5-Trichlorophenol			40.0	29.52		ug/L		74	30 - 130	18	20
2,4,6-Trichlorophenol			40.0	28.08		ug/L		70	30 - 130	15	20
2,4-Dichlorophenol			40.0	25.20		ug/L		63	30 - 130	13	20
2,4-Dimethylphenol			40.0	24.21		ug/L		61	30 - 130	20	20
2,4-Dinitrophenol			40.0	39.89	*1	ug/L		100	30 - 130	30	20
2,4-Dinitrotoluene			40.0	31.21		ug/L		78	40 - 140	5	20
2,6-Dinitrotoluene			40.0	30.27		ug/L		76	40 - 140	10	20
2-Chloronaphthalene			40.0	26.01		ug/L		65	40 - 140	18	20
2-Chlorophenol			40.0	23.53		ug/L		59	30 - 130	6	20
2-Methylphenol			40.0	22.06		ug/L		55	30 - 130	16	20
2-Nitroaniline			40.0	30.19		ug/L		75	40 - 140	12	20
2-Nitrophenol			40.0	25.74		ug/L		64	30 - 130	13	20
3 & 4 Methylphenol			40.0	21.74		ug/L		54	30 - 130	19	20
3,3'-Dichlorobenzidine			40.0	41.58		ug/L		104	40 - 140	1	20
3-Nitroaniline			40.0	27.37		ug/L		68	40 - 140	8	20
4,6-Dinitro-2-methylphenol			40.0	41.21		ug/L		103	30 - 130	19	20
4-Bromophenyl phenyl ether			40.0	29.73		ug/L		74	40 - 140	11	20
4-Chloro-3-methylphenol			40.0	28.10		ug/L		70	30 - 130	18	20
4-Chloroaniline			40.0	22.72	*1	ug/L		57	40 - 140	22	20
4-Chlorophenyl phenyl ether			40.0	28.31		ug/L		71	40 - 140	16	20
4-Nitroaniline			40.0	35.00		ug/L		88	40 - 140	0	20
4-Nitrophenol			40.0	17.74	J	ug/L		44	30 - 130	19	20
Acetophenone			40.0	26.07		ug/L		65	40 - 140	7	20
Aniline			40.0	12.29	*- *1	ug/L		31	40 - 140	27	20
Azobenzene/Diphenyldiazene			40.0	29.30		ug/L		73	40 - 140	17	20
Benzidine			40.0	4.568	J *- *1	ug/L		11	40 - 140	31	20
Benzoic acid			40.0	28.35	*1	ug/L		71	30 - 130	50	20
Benzyl alcohol			40.0	20.96		ug/L		52	40 - 140	10	20
Bis(2-chloroethoxy)methane			40.0	23.23		ug/L		58	40 - 140	14	20
Bis(2-chloroethyl)ether			40.0	22.69		ug/L		57	40 - 140	7	20
bis (2-chloroisopropyl) ether			40.0	21.07		ug/L		53	40 - 140	9	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-21080/5-A
Matrix: Water
Analysis Batch: 21159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			40.0	35.61		ug/L		89	40 - 140	5	20
Butyl benzyl phthalate			40.0	36.28		ug/L		91	40 - 140	3	20
Carbazole			40.0	33.36		ug/L		83	40 - 140	2	20
Dibenzofuran			40.0	27.18		ug/L		68	40 - 140	16	20
Diethyl phthalate			40.0	31.50		ug/L		79	40 - 140	4	20
Dimethyl phthalate			40.0	29.58		ug/L		74	40 - 140	10	20
Di-n-butyl phthalate			40.0	34.73		ug/L		87	40 - 140	2	20
Di-n-octyl phthalate			40.0	34.56		ug/L		86	40 - 140	4	20
Hexachlorobenzene			40.0	29.73		ug/L		74	40 - 140	9	20
Hexachlorobutadiene			40.0	20.95	*1	ug/L		52	40 - 140	21	20
Hexachlorocyclopentadiene			40.0	22.46	*1	ug/L		56	40 - 140	29	20
Hexachloroethane			40.0	21.15		ug/L		53	40 - 140	9	20
Isophorone			40.0	20.40		ug/L		51	40 - 140	16	20
Nitrobenzene			40.0	25.35		ug/L		63	40 - 140	14	20
N-Nitrosodimethylamine			40.0	17.23	*1	ug/L		43	40 - 140	42	20
N-Nitrosodi-n-propylamine			40.0	26.23		ug/L		66	40 - 140	7	20
N-Nitrosodiphenylamine			40.0	29.94		ug/L		75	40 - 140	4	20
Pentachloronitrobenzene			40.0	28.18	*1	ug/L		70	40 - 140	22	20
Pentachlorophenol			40.0	30.84		ug/L		77	30 - 130	15	20
Phenol			40.0	12.95	*- *1	ug/L		32	40 - 140	30	20
Pyridine			40.0	4.932	J *- *1	ug/L		12	40 - 140	70	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*30 - 130*
2-Fluorophenol (Surr)	*46*		*15 - 110*
Nitrobenzene-d5 (Surr)	*63*		*30 - 130*
Phenol-d5 (Surr)	*31*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*15 - 110*
Terphenyl-d14	*69*		*30 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.0500	0.0495	ug/L		04/05/23 09:47	04/05/23 15:12	1
2-Methylnaphthalene	ND		0.0500	0.0470	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthene	ND		0.0500	0.0389	ug/L		04/05/23 09:47	04/05/23 15:12	1
Acenaphthylene	ND		0.0500	0.0388	ug/L		04/05/23 09:47	04/05/23 15:12	1
Anthracene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]anthracene	ND		0.0500	0.0413	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[a]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[b]fluoranthene	ND		0.0500	0.0375	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[g,h,i]perylene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Benzo[k]fluoranthene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Chrysene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Dibenz(a,h)anthracene	ND		0.0500	0.0342	ug/L		04/05/23 09:47	04/05/23 15:12	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 620-21080/1-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Fluorene	ND		0.0500	0.0341	ug/L		04/05/23 09:47	04/05/23 15:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0800	0.0800	ug/L		04/05/23 09:47	04/05/23 15:12	1
Naphthalene	0.04711	J	0.0500	0.0464	ug/L		04/05/23 09:47	04/05/23 15:12	1
Phenanthrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1
Pyrene	ND		0.200	0.200	ug/L		04/05/23 09:47	04/05/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Terphenyl-d14	*65*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*
Benzo(e)pyrene-d12	*81*		*30 - 130*	*04/05/23 09:47*	*04/05/23 15:12*	*1*

Lab Sample ID: LCS 620-21080/2-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	4.00	3.040		ug/L		76	40 - 140
2-Methylnaphthalene	4.00	2.880		ug/L		72	40 - 140
Acenaphthene	4.00	3.004		ug/L		75	40 - 140
Acenaphthylene	4.00	2.912		ug/L		73	40 - 140
Anthracene	4.00	3.135		ug/L		78	40 - 140
Benzo[a]anthracene	4.00	1.807		ug/L		45	40 - 140
Benzo[a]pyrene	4.00	2.620		ug/L		66	40 - 140
Benzo[b]fluoranthene	4.00	1.621		ug/L		41	40 - 140
Benzo[g,h,i]perylene	4.00	2.174		ug/L		54	40 - 140
Benzo[k]fluoranthene	4.00	2.704		ug/L		68	40 - 140
Chrysene	4.00	3.197		ug/L		80	40 - 140
Dibenz(a,h)anthracene	4.00	1.755		ug/L		44	40 - 140
Fluoranthene	4.00	3.117		ug/L		78	40 - 140
Fluorene	4.00	2.810		ug/L		70	40 - 140
Indeno[1,2,3-cd]pyrene	4.00	1.619		ug/L		40	40 - 140
Naphthalene	4.00	2.707		ug/L		68	40 - 140
Phenanthrene	4.00	3.167		ug/L		79	40 - 140
Pyrene	4.00	3.331		ug/L		83	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*30 - 130*
Terphenyl-d14	*67*		*30 - 130*
Benzo(e)pyrene-d12	*80*		*30 - 130*

Lab Sample ID: LCSD 620-21080/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	4.00	3.070		ug/L		77	40 - 140	1	20
2-Methylnaphthalene	4.00	3.063		ug/L		77	40 - 140	6	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 620-21080/3-A
Matrix: Water
Analysis Batch: 21071

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21080

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			4.00	3.071		ug/L		77	40 - 140	2	20
Acenaphthylene			4.00	2.829		ug/L		71	40 - 140	3	20
Anthracene			4.00	2.783		ug/L		70	40 - 140	12	20
Benzo[a]anthracene			4.00	1.784		ug/L		45	40 - 140	1	20
Benzo[a]pyrene			4.00	2.395		ug/L		60	40 - 140	9	20
Benzo[b]fluoranthene			4.00	1.734		ug/L		43	40 - 140	7	20
Benzo[g,h,i]perylene			4.00	1.967		ug/L		49	40 - 140	10	20
Benzo[k]fluoranthene			4.00	2.588		ug/L		65	40 - 140	4	20
Chrysene			4.00	2.974		ug/L		74	40 - 140	7	20
Dibenz(a,h)anthracene			4.00	1.636		ug/L		41	40 - 140	7	20
Fluoranthene			4.00	2.808		ug/L		70	40 - 140	10	20
Fluorene			4.00	2.519		ug/L		63	40 - 140	11	20
Indeno[1,2,3-cd]pyrene			4.00	1.699		ug/L		42	40 - 140	5	20
Naphthalene			4.00	2.705		ug/L		68	40 - 140	0	20
Phenanthrene			4.00	2.859		ug/L		71	40 - 140	10	20
Pyrene			4.00	3.034		ug/L		76	40 - 140	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*30 - 130*
Terphenyl-d14	*62*		*30 - 130*
Benzo(e)pyrene-d12	*79*		*30 - 130*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 620-21124/6
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C8 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (adjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C10 Aromatics	ND		100	100	ug/L			04/06/23 13:44	1
C5-C8 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
C9-C12 Aliphatics (unadjusted)	ND		100	100	ug/L			04/06/23 13:44	1
Benzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Ethylbenzene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Methyl tert-butyl ether	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Naphthalene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Toluene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
m,p-Xylene	ND		10.0	10.0	ug/L			04/06/23 13:44	1
o-Xylene	ND		5.00	5.00	ug/L			04/06/23 13:44	1
Xylenes, Total	ND		15.0	15.0	ug/L			04/06/23 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*		*04/06/23 13:44*	*1*

Method: MAVPH2.1 - Massachusetts - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 620-21124/3
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C9-C10 Aromatics	20.0	ND		ug/L		115	70 - 130
C5-C8 Aliphatics (unadjusted)	60.0	ND		ug/L		100	70 - 130
C9-C12 Aliphatics (unadjusted)	60.0	ND		ug/L		81	70 - 130
Benzene	20.0	20.29		ug/L		101	70 - 130
Ethylbenzene	20.0	21.87		ug/L		109	70 - 130
Methyl tert-butyl ether	20.0	18.80		ug/L		94	70 - 130
Naphthalene	20.0	21.58		ug/L		108	70 - 130
Toluene	20.0	20.18		ug/L		101	70 - 130
m,p-Xylene	40.0	41.83		ug/L		105	70 - 130
o-Xylene	20.0	22.10		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*86*		*70 - 130*
2,5-Dibromotoluene (pid)	*88*		*70 - 130*

Lab Sample ID: LCSD 620-21124/4
Matrix: Water
Analysis Batch: 21124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C9-C10 Aromatics	20.0	ND		ug/L		115	70 - 130	0	25
C5-C8 Aliphatics (unadjusted)	60.0	ND		ug/L		99	70 - 130	1	25
C9-C12 Aliphatics (unadjusted)	60.0	ND		ug/L		78	70 - 130	3	25
Benzene	20.0	20.24		ug/L		101	70 - 130	0	25
Ethylbenzene	20.0	21.59		ug/L		108	70 - 130	1	25
Methyl tert-butyl ether	20.0	19.23		ug/L		96	70 - 130	2	25
Naphthalene	20.0	21.94		ug/L		110	70 - 130	2	25
Toluene	20.0	19.95		ug/L		100	70 - 130	1	25
m,p-Xylene	40.0	41.12		ug/L		103	70 - 130	2	25
o-Xylene	20.0	21.92		ug/L		110	70 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,5-Dibromotoluene (fid)	*88*		*70 - 130*
2,5-Dibromotoluene (pid)	*89*		*70 - 130*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-21137/1-A
Matrix: Water
Analysis Batch: 21225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	0.0560	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1221	ND		0.400	0.149	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1232	ND		0.400	0.0960	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1242	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1248	ND		0.400	0.164	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1254	ND		0.400	0.146	ug/L		04/06/23 11:55	04/10/23 11:51	1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-21137/1-A
Matrix: Water
Analysis Batch: 21225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21137

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.400	0.160	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1260	ND		0.400	0.0760	ug/L		04/06/23 11:55	04/10/23 11:51	1
PCB-1268	ND		0.400	0.0840	ug/L		04/06/23 11:55	04/10/23 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
Tetrachloro-m-xylene	*92*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*30 - 150*	*04/06/23 11:55*	*04/10/23 11:51*	*1*

Lab Sample ID: LCS 620-21137/2-A
Matrix: Water
Analysis Batch: 21181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	2.710		ug/L		68	40 - 140
PCB-1016	4.00	2.285		ug/L		57	40 - 140
PCB-1260	4.00	2.703		ug/L		68	40 - 140
PCB-1260	4.00	2.560		ug/L		64	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*54*		*30 - 150*
Tetrachloro-m-xylene	*52*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Lab Sample ID: LCSD 620-21137/3-A
Matrix: Water
Analysis Batch: 21181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21137

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	4.00	2.599		ug/L		65	40 - 140	4	20
PCB-1016	4.00	2.381		ug/L		60	40 - 140	4	20
PCB-1260	4.00	3.171		ug/L		79	40 - 140	16	20
PCB-1260	4.00	2.907		ug/L		73	40 - 140	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*58*		*30 - 150*
Tetrachloro-m-xylene	*56*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-362080/1-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		10.0	4.00	ug/L		04/07/23 12:24	04/12/23 07:45	1
Antimony	ND		1.00	0.200	ug/L		04/07/23 12:24	04/12/23 07:45	1
Arsenic	ND		2.00	0.680	ug/L		04/07/23 12:24	04/12/23 07:45	1
Barium	ND		2.00	0.746	ug/L		04/07/23 12:24	04/12/23 07:45	1
Beryllium	ND		0.500	0.119	ug/L		04/07/23 12:24	04/12/23 07:45	1
Cadmium	ND		0.500	0.151	ug/L		04/07/23 12:24	04/12/23 07:45	1
Chromium	ND		2.00	0.334	ug/L		04/07/23 12:24	04/12/23 07:45	1
Nickel	ND		1.00	0.400	ug/L		04/07/23 12:24	04/12/23 07:45	1
Lead	ND		0.500	0.0710	ug/L		04/07/23 12:24	04/12/23 07:45	1
Selenium	ND		1.00	0.278	ug/L		04/07/23 12:24	04/12/23 07:45	1
Thallium	ND		0.500	0.130	ug/L		04/07/23 12:24	04/12/23 07:45	1
Vanadium	ND		4.00	0.794	ug/L		04/07/23 12:24	04/12/23 07:45	1
Silver	ND		0.500	0.100	ug/L		04/07/23 12:24	04/12/23 07:45	1

Lab Sample ID: LCS 410-362080/2-A
Matrix: Water
Analysis Batch: 363601

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 362080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	500	523.9		ug/L		105	80 - 120
Antimony	100	103.8		ug/L		104	80 - 120
Arsenic	500	526.4		ug/L		105	80 - 120
Barium	500	529.7		ug/L		106	80 - 120
Beryllium	50.0	49.60		ug/L		99	80 - 120
Cadmium	50.0	52.78		ug/L		106	80 - 120
Chromium	500	533.0		ug/L		107	80 - 120
Nickel	500	524.9		ug/L		105	80 - 120
Lead	50.0	53.20		ug/L		106	80 - 120
Selenium	100	104.9		ug/L		105	80 - 120
Thallium	100	105.6		ug/L		106	80 - 120
Vanadium	500	530.4		ug/L		106	80 - 120
Silver	50.0	53.49		ug/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-361893/1-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 05:58	04/07/23 13:43	1

Lab Sample ID: LCS 410-361893/2-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	0.9279		ug/L		93	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 410-361915/1-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 361915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.0790	ug/L		04/07/23 07:34	04/07/23 12:44	1

Lab Sample ID: LCS 410-361915/2-A
Matrix: Water
Analysis Batch: 362171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 361915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	1.00	1.024		ug/L		102	80 - 120

GC/MS VOA

Analysis Batch: 21055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-5	2023-MW-09	Total/NA	Water	8260C	
MB 620-21055/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21055/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21055/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 21130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8260C	
620-10579-2	2023-MW-02	Total/NA	Water	8260C	
620-10579-3	2023-MW-07	Total/NA	Water	8260C	
620-10579-4	2023-MW-08	Total/NA	Water	8260C	
620-10579-7	2023-TB-02	Total/NA	Water	8260C	
MB 620-21130/7	Method Blank	Total/NA	Water	8260C	
LCS 620-21130/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 620-21130/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Analysis Batch: 21071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080

Prep Batch: 21080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	3510C	
620-10579-2	2023-MW-02	Total/NA	Water	3510C	
620-10579-3	2023-MW-07	Total/NA	Water	3510C	
620-10579-4	2023-MW-08	Total/NA	Water	3510C	
620-10579-5	2023-MW-09	Total/NA	Water	3510C	
MB 620-21080/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21080/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21080/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 21159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21080/1-A	Method Blank	Total/NA	Water	8270D	21080
LCS 620-21080/4-A	Lab Control Sample	Total/NA	Water	8270D	21080
LCSD 620-21080/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	21080

Analysis Batch: 21209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8270D	21080
620-10579-2	2023-MW-02	Total/NA	Water	8270D	21080
620-10579-3	2023-MW-07	Total/NA	Water	8270D	21080
620-10579-4	2023-MW-08	Total/NA	Water	8270D	21080
620-10579-5	2023-MW-09	Total/NA	Water	8270D	21080

GC/MS Semi VOA

Analysis Batch: 21347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8270D	21080
620-10579-2	2023-MW-02	Total/NA	Water	8270D	21080
620-10579-3	2023-MW-07	Total/NA	Water	8270D	21080
620-10579-4	2023-MW-08	Total/NA	Water	8270D	21080
620-10579-5	2023-MW-09	Total/NA	Water	8270D	21080

GC VOA

Analysis Batch: 21124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	MAVPH2.1	
620-10579-2	2023-MW-02	Total/NA	Water	MAVPH2.1	
620-10579-3	2023-MW-07	Total/NA	Water	MAVPH2.1	
620-10579-4	2023-MW-08	Total/NA	Water	MAVPH2.1	
620-10579-5	2023-MW-09	Total/NA	Water	MAVPH2.1	
620-10579-7	2023-TB-02	Total/NA	Water	MAVPH2.1	
MB 620-21124/6	Method Blank	Total/NA	Water	MAVPH2.1	
LCS 620-21124/3	Lab Control Sample	Total/NA	Water	MAVPH2.1	
LCSD 620-21124/4	Lab Control Sample Dup	Total/NA	Water	MAVPH2.1	

GC Semi VOA

Prep Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	3510C	
620-10579-2	2023-MW-02	Total/NA	Water	3510C	
620-10579-3	2023-MW-07	Total/NA	Water	3510C	
620-10579-4	2023-MW-08	Total/NA	Water	3510C	
620-10579-5	2023-MW-09	Total/NA	Water	3510C	
MB 620-21137/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 21181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	8082	21137
620-10579-2	2023-MW-02	Total/NA	Water	8082	21137
620-10579-3	2023-MW-07	Total/NA	Water	8082	21137
620-10579-4	2023-MW-08	Total/NA	Water	8082	21137
620-10579-5	2023-MW-09	Total/NA	Water	8082	21137
LCS 620-21137/2-A	Lab Control Sample	Total/NA	Water	8082	21137
LCSD 620-21137/3-A	Lab Control Sample Dup	Total/NA	Water	8082	21137

Analysis Batch: 21225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-21137/1-A	Method Blank	Total/NA	Water	8082	21137

Metals

Prep Batch: 361893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-4	2023-MW-08	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 361893 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-361893/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-361893/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 361915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	7470A	
620-10579-2	2023-MW-02	Total/NA	Water	7470A	
620-10579-3	2023-MW-07	Total/NA	Water	7470A	
620-10579-5	2023-MW-09	Total/NA	Water	7470A	
MB 410-361915/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-361915/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 362080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total Recoverable	Water	3005A	
620-10579-2	2023-MW-02	Total Recoverable	Water	3005A	
620-10579-3	2023-MW-07	Total Recoverable	Water	3005A	
620-10579-4	2023-MW-08	Total Recoverable	Water	3005A	
620-10579-5	2023-MW-09	Total Recoverable	Water	3005A	
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 362171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total/NA	Water	7470A	361915
620-10579-2	2023-MW-02	Total/NA	Water	7470A	361915
620-10579-3	2023-MW-07	Total/NA	Water	7470A	361915
620-10579-4	2023-MW-08	Total/NA	Water	7470A	361893
620-10579-5	2023-MW-09	Total/NA	Water	7470A	361915
MB 410-361893/1-A	Method Blank	Total/NA	Water	7470A	361893
MB 410-361915/1-A	Method Blank	Total/NA	Water	7470A	361915
LCS 410-361893/2-A	Lab Control Sample	Total/NA	Water	7470A	361893
LCS 410-361915/2-A	Lab Control Sample	Total/NA	Water	7470A	361915

Analysis Batch: 363601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-10579-1	2023-MW-01	Total Recoverable	Water	6020B	362080
620-10579-2	2023-MW-02	Total Recoverable	Water	6020B	362080
620-10579-3	2023-MW-07	Total Recoverable	Water	6020B	362080
620-10579-4	2023-MW-08	Total Recoverable	Water	6020B	362080
620-10579-5	2023-MW-09	Total Recoverable	Water	6020B	362080
MB 410-362080/1-A	Method Blank	Total Recoverable	Water	6020B	362080
LCS 410-362080/2-A	Lab Control Sample	Total Recoverable	Water	6020B	362080

Client Sample ID: 2023-MW-01 Lab Sample ID: 620-10579-1

Date Collected: 03/31/23 12:15 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 17:26
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 11:24
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 17:44
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 20:53
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:42
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:27
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 13:00

Client Sample ID: 2023-MW-02 Lab Sample ID: 620-10579-2

Date Collected: 03/31/23 16:00 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 17:52
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 11:54
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 18:14
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 21:28
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 22:59
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:25
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 13:08

Client Sample ID: 2023-MW-07 Lab Sample ID: 620-10579-3

Date Collected: 03/31/23 10:55 **Matrix: Water**
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 18:18
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 12:23
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 18:44
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 22:03
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:55
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 23:16

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Client Sample ID: 2023-MW-07

Date Collected: 03/31/23 10:55
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:11
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 13:02

Client Sample ID: 2023-MW-08

Date Collected: 03/31/23 11:00
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 18:44
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 12:53
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 19:13
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 22:38
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:56
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 23:33
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:07
Total/NA	Prep	7470A			361893	UAMX	ELLE	04/07/23 05:58
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 14:38

Client Sample ID: 2023-MW-09

Date Collected: 03/31/23 09:20
Date Received: 04/03/23 13:14

Lab Sample ID: 620-10579-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21055	CLR	EET NE	04/04/23 23:03
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21347	JS	EET NE	04/13/23 13:23
Total/NA	Prep	3510C			21080	PRB	EET NE	04/05/23 09:47
Total/NA	Analysis	8270D		1	21209	JS	EET NE	04/10/23 19:42
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 23:13
Total/NA	Prep	3510C			21137	BMS	EET NE	04/06/23 11:56
Total/NA	Analysis	8082		1	21181	SFL	EET NE	04/07/23 23:51
Total Recoverable	Prep	3005A			362080	HUH3	ELLE	04/07/23 12:24
Total Recoverable	Analysis	6020B		1	363601	F7JF	ELLE	04/12/23 08:09
Total/NA	Prep	7470A			361915	UAMX	ELLE	04/07/23 07:34
Total/NA	Analysis	7470A		1	362171	UEFS	ELLE	04/07/23 12:58

Lab Chronicle

Client: Nobis Engineering, Inc.
Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: 2023-TB-02
Lab Sample ID: 620-10579-7
Date Collected: 03/31/23 07:00
Matrix: Water
Date Received: 04/03/23 13:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	21130	CLR	EET NE	04/06/23 14:22
Total/NA	Analysis	MAVPH2.1		1	21124	BMH	EET NE	04/06/23 15:37

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3510C	Water	PCB-1016
8082	3510C	Water	PCB-1221
8082	3510C	Water	PCB-1232
8082	3510C	Water	PCB-1242
8082	3510C	Water	PCB-1248
8082	3510C	Water	PCB-1254
8082	3510C	Water	PCB-1260
8082	3510C	Water	PCB-1262
8082	3510C	Water	PCB-1268
8260C		Water	1,1,1,2-Tetrachloroethane
8260C		Water	1,1,1-Trichloroethane
8260C		Water	1,1,2,2-Tetrachloroethane
8260C		Water	1,1,2-Trichloroethane
8260C		Water	1,1,2-Trichlorotrifluoroethane (Freon 113)
8260C		Water	1,1-Dichloroethane
8260C		Water	1,1-Dichloroethene
8260C		Water	1,1-Dichloropropene
8260C		Water	1,2,3-Trichlorobenzene
8260C		Water	1,2,3-Trichloropropane
8260C		Water	1,2,4-Trichlorobenzene
8260C		Water	1,2,4-Trimethylbenzene
8260C		Water	1,2-Dibromo-3-Chloropropane
8260C		Water	1,2-Dibromoethane (EDB)
8260C		Water	1,2-Dichlorobenzene
8260C		Water	1,2-Dichloroethane
8260C		Water	1,2-Dichloropropane
8260C		Water	1,3,5-Trichlorobenzene
8260C		Water	1,3,5-Trimethylbenzene
8260C		Water	1,3-Dichlorobenzene
8260C		Water	1,3-Dichloropropane
8260C		Water	1,3-Dichloropropene, Total
8260C		Water	1,4-Dichlorobenzene
8260C		Water	1,4-Dioxane
8260C		Water	2,2-Dichloropropane
8260C		Water	2-Butanone (MEK)
8260C		Water	2-Chlorotoluene
8260C		Water	2-Hexanone (MBK)
8260C		Water	4-Chlorotoluene
8260C		Water	4-Isopropyltoluene
8260C		Water	4-Methyl-2-pentanone (MIBK)
8260C		Water	Acetone
8260C		Water	Acrylonitrile
8260C		Water	Benzene
8260C		Water	Bromobenzene
8260C		Water	Bromochloromethane

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Bromodichloromethane
8260C		Water	Bromoform
8260C		Water	Bromomethane
8260C		Water	Carbon disulfide
8260C		Water	Carbon tetrachloride
8260C		Water	Chlorobenzene
8260C		Water	Chloroethane
8260C		Water	Chloroform
8260C		Water	Chloromethane
8260C		Water	cis-1,2-Dichloroethene
8260C		Water	cis-1,3-Dichloropropene
8260C		Water	Dibromochloromethane
8260C		Water	Dibromomethane
8260C		Water	Dichlorodifluoromethane (Freon 12)
8260C		Water	di-Isopropyl ether
8260C		Water	Ethanol
8260C		Water	Ethyl ether
8260C		Water	Ethyl tert-butyl ether
8260C		Water	Ethylbenzene
8260C		Water	Hexachlorobutadiene
8260C		Water	Isopropylbenzene
8260C		Water	m,p-Xylene
8260C		Water	Methyl tert-butyl ether
8260C		Water	Methylene Chloride
8260C		Water	Naphthalene
8260C		Water	n-Butylbenzene
8260C		Water	N-Propylbenzene
8260C		Water	o-Xylene
8260C		Water	sec-Butylbenzene
8260C		Water	Styrene
8260C		Water	Tert-amyl methyl ether
8260C		Water	tert-Butanol
8260C		Water	tert-Butylbenzene
8260C		Water	Tetrachloroethene
8260C		Water	Tetrahydrofuran
8260C		Water	Toluene
8260C		Water	trans-1,2-Dichloroethene
8260C		Water	trans-1,3-Dichloropropene
8260C		Water	trans-1,4-Dichloro-2-butene
8260C		Water	Trichloroethene
8260C		Water	Trichlorofluoromethane (Freon 11)
8260C		Water	Vinyl chloride
8260C		Water	Xylenes, Total
8270D	3510C	Water	1,2,4,5-Tetrachlorobenzene
8270D	3510C	Water	1,2,4-Trichlorobenzene
8270D	3510C	Water	1,2-Dichlorobenzene
8270D	3510C	Water	1,3-Dichlorobenzene

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	1,4-Dichlorobenzene
8270D	3510C	Water	1-Methylnaphthalene
8270D	3510C	Water	2,4,5-Trichlorophenol
8270D	3510C	Water	2,4,6-Trichlorophenol
8270D	3510C	Water	2,4-Dichlorophenol
8270D	3510C	Water	2,4-Dimethylphenol
8270D	3510C	Water	2,4-Dinitrophenol
8270D	3510C	Water	2,4-Dinitrotoluene
8270D	3510C	Water	2,6-Dinitrotoluene
8270D	3510C	Water	2-Chloronaphthalene
8270D	3510C	Water	2-Chlorophenol
8270D	3510C	Water	2-Methylnaphthalene
8270D	3510C	Water	2-Methylphenol
8270D	3510C	Water	2-Nitroaniline
8270D	3510C	Water	2-Nitrophenol
8270D	3510C	Water	3 & 4 Methylphenol
8270D	3510C	Water	3,3'-Dichlorobenzidine
8270D	3510C	Water	3-Nitroaniline
8270D	3510C	Water	4,6-Dinitro-2-methylphenol
8270D	3510C	Water	4-Bromophenyl phenyl ether
8270D	3510C	Water	4-Chloro-3-methylphenol
8270D	3510C	Water	4-Chloroaniline
8270D	3510C	Water	4-Chlorophenyl phenyl ether
8270D	3510C	Water	4-Nitroaniline
8270D	3510C	Water	4-Nitrophenol
8270D	3510C	Water	Acenaphthene
8270D	3510C	Water	Acenaphthylene
8270D	3510C	Water	Acetophenone
8270D	3510C	Water	Aniline
8270D	3510C	Water	Anthracene
8270D	3510C	Water	Azobenzene/Diphenyldiazene
8270D	3510C	Water	Benzidine
8270D	3510C	Water	Benzo[a]anthracene
8270D	3510C	Water	Benzo[a]pyrene
8270D	3510C	Water	Benzo[b]fluoranthene
8270D	3510C	Water	Benzo[g,h,i]perylene
8270D	3510C	Water	Benzo[k]fluoranthene
8270D	3510C	Water	Benzoic acid
8270D	3510C	Water	Benzyl alcohol
8270D	3510C	Water	bis (2-chloroisopropyl) ether
8270D	3510C	Water	Bis(2-chloroethoxy)methane
8270D	3510C	Water	Bis(2-chloroethyl)ether
8270D	3510C	Water	Bis(2-ethylhexyl) phthalate
8270D	3510C	Water	Butyl benzyl phthalate
8270D	3510C	Water	Carbazole
8270D	3510C	Water	Chrysene
8270D	3510C	Water	Dibenz(a,h)anthracene

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	Dibenzofuran
8270D	3510C	Water	Diethyl phthalate
8270D	3510C	Water	Dimethyl phthalate
8270D	3510C	Water	Di-n-butyl phthalate
8270D	3510C	Water	Di-n-octyl phthalate
8270D	3510C	Water	Fluoranthene
8270D	3510C	Water	Fluorene
8270D	3510C	Water	Hexachlorobenzene
8270D	3510C	Water	Hexachlorobutadiene
8270D	3510C	Water	Hexachlorocyclopentadiene
8270D	3510C	Water	Hexachloroethane
8270D	3510C	Water	Indeno[1,2,3-cd]pyrene
8270D	3510C	Water	Isophorone
8270D	3510C	Water	Naphthalene
8270D	3510C	Water	Nitrobenzene
8270D	3510C	Water	N-Nitrosodimethylamine
8270D	3510C	Water	N-Nitrosodi-n-propylamine
8270D	3510C	Water	N-Nitrosodiphenylamine
8270D	3510C	Water	Pentachloronitrobenzene
8270D	3510C	Water	Pentachlorophenol
8270D	3510C	Water	Phenanthrene
8270D	3510C	Water	Phenol
8270D	3510C	Water	Pyrene
8270D	3510C	Water	Pyridine
MAVPH2.1		Water	Benzene
MAVPH2.1		Water	C5-C8 Aliphatics (adjusted)
MAVPH2.1		Water	C5-C8 Aliphatics (unadjusted)
MAVPH2.1		Water	C9-C10 Aromatics
MAVPH2.1		Water	C9-C12 Aliphatics (adjusted)
MAVPH2.1		Water	C9-C12 Aliphatics (unadjusted)
MAVPH2.1		Water	Ethylbenzene
MAVPH2.1		Water	m,p-Xylene
MAVPH2.1		Water	Methyl tert-butyl ether
MAVPH2.1		Water	Naphthalene
MAVPH2.1		Water	o-Xylene
MAVPH2.1		Water	Toluene
MAVPH2.1		Water	Xylenes, Total

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	04-17-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	04-17-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	07-02-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	04-17-23
Iowa	State	361	04-12-23
Kansas	NELAP	E-10151	04-17-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	04-17-23
Louisiana (All)	NELAP	02055	04-17-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-23
Massachusetts	State	M-PA009	04-24-23
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	04-17-23
New Jersey	NELAP	PA011	04-17-23
New York	NELAP	10670	04-17-23
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	04-23-23
North Dakota	State	R-205	04-17-23
Oklahoma	NELAP	R-205	04-24-23
Oregon	NELAP	PA200001	04-12-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	04-17-23
Rhode Island	State	LAO00338	04-17-23
South Carolina	State	89002	04-23-23
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-22-45	04-17-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	04-17-23
West Virginia (DW)	State	9906 C	12-31-23
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method Summary

Client: Nobis Engineering, Inc. Job ID: 620-10579-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	EET NE
8270D	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET NE
8270D	Semivolatile Organic Compounds (GC/MS)	MA DEP	EET NE
MAVPH2.1	Massachusetts - Volatile Petroleum Hydrocarbons (GC)	MA DEP	EET NE
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET NE
5030C	Purge and Trap	SW846	EET NE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-10579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-10579-1	2023-MW-01	Water	03/31/23 12:15	04/03/23 13:14
620-10579-2	2023-MW-02	Water	03/31/23 16:00	04/03/23 13:14
620-10579-3	2023-MW-07	Water	03/31/23 10:55	04/03/23 13:14
620-10579-4	2023-MW-08	Water	03/31/23 11:00	04/03/23 13:14
620-10579-5	2023-MW-09	Water	03/31/23 09:20	04/03/23 13:14
620-10579-7	2023-TB-02	Water	03/31/23 07:00	04/03/23 13:14

10579

Chain of Custody Record

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620-10579 Chain of Custody

Sampler: K. Mato S Stone	Lab PM:	Carrier Tracking No(s):	COC No: 620-9105-1141 2
Phone:	E-Mail:	State of Origin:	Page: Page 2 of 3
Bridget Fortier			
Company: Nobis Engineering Inc.	PWSID:		Job #:
Address: 585 Middlesex Street	Due Date Requested:		
City: Lowell	TAT Requested (days): STD		
State Zip: MA, 01851	Compliance Project: Δ Yes Δ No		
Phone:	PO #: S00001.002/1400		
Email: bfortier@nobis-group.com dmcgrath@nobis-group.com	WO #:		
Project Name: 4 Holeman Street, Templeton MA	Project #:		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs 8260	SVOC 8270	VPH MassDEP	PCBs 8082	Metals 6020/7471A	PFAS EPA 537.1	Total Number of containers	Special Instructions/Note:
					Preservation Code:			A	N	A	N	D	N		
01	2023-MW-01	3/31/23	1215	G	Water			✓	✓	✓	✓	✓	✓		
02	2023-MW-02	↓	1600	↓	Water			✓	✓	✓	✓	✓	✓		
03	2023-MW-07	↓	1055	↓	Water			✓	✓	✓	✓	✓	✓		
04	2023-MW-08	↓	1100	↓	Water			✓	✓	✓	✓	✓	✓		
05	2023-MW-09	↓	920	↓	Water			✓	✓	✓	✓	✓	✓		
06	2023-PFB-01 (PFAS Free Blank)	↓	1830	↓	Water								✓		
07	2023-TB-02	↓	0700	↓	Water			✓		✓					
					Water										
					Water										
					Water										
					Water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Equis EDD Email to: dmcgrath@nobis-group.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
K. Mato	3-31-23 1904		~~3-31-23~~ Basement Fridge	3-31-23 1904	
[signature]	4/2/23 11:13	Nobis	[signature]	4/3/23 1113	ETA
[signature]	4/3/23 13:14	EPA	[signature]	4/3/23 13:14	GWF

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.2 +0.2 2.4 ~~+0~~

Ver: 06/08/2021

5/11/2023

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone: 413-789-9018

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huntley, Agnes R	Carrier Tracking No(s):	COC No: 620-8924.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Agnes.Huntley@et.eurofinsus.com	State of Origin: Massachusetts	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Massachusetts		Job #: 620-10579-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/12/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: American Tissue Mill - Templeton, MA	Project #: 62002000			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020MCP/3005A MA MCP Analyte List	7470MCP/7470A_Prep Mercury	PFC_IDA/PFAS_W_Prep Standard 32, plus 4 replacements	PRE_SCREEN_PFAS/PFAS_PreScn_W_P	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
2023-MW-01 (620-10579-1)	3/31/23	12:15 Eastern		Water			X	X	X	X	3	
2023-MW-02 (620-10579-2)	3/31/23	16:00 Eastern		Water			X	X	X	X	3	
2023-MW-07 (620-10579-3)	3/31/23	10:55 Eastern		Water			X	X	X	X	3	
2023-MW-08 (620-10579-4)	3/31/23	11:00 Eastern		Water			X	X	X	X	3	
2023-MW-09 (620-10579-5)	3/31/23	09:20 Eastern		Water			X	X	X	X	3	
2023-PFB-01 (620-10579-6)	3/31/23	18:30 Eastern		Water					X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/3/23 16:37	ENE	Fedex		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/5/23 9:55	ENET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.0

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-1

Login Number: 10579
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-10579-1

Login Number: 10579
List Number: 2
Creator: McBeth, Jessica

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/05/23 12:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

Generated 10/5/2023 7:08:12 PM

JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-14173-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

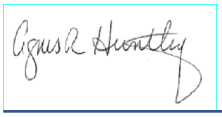
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Agnes Huntley, Project Manager
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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-14173-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-14173-1 through 620-14173-21

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Agnes R Huntley **Position:** Project Manager

Printed Name: Agnes Huntley **Date:** 10/05/2023

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-14173-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/27/2023 4:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

PCBs
Method 8082MCP: The DCB Decachlorobiphenyl (Surr) surrogate recovery for the following samples was outside acceptance limits (low biased) on the confirmation column: ATM-CC-01 (620-14173-1), ATM-CC-04 (620-14173-4), ATM-CC-05 (620-14173-5), ATM-CC-06 (620-14173-6), ATM-CC-07 (620-14173-7), ATM-CC-08 (620-14173-8), ATM-CC-09 (620-14173-9), ATM-CC-13 (620-14173-13), ATM-CC-16 (620-14173-16), ATM-CC-17 (620-14173-17), ATM-CC-17 (620-14173-17[MS]), ATM-CC-18 (620-14173-18) and ATM-CC-19 (620-14173-19). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27460/31) and (CCV 620-27460/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-27347 and analytical batch 620-27460 were outside control limits due to a dilution needed for the PCB-1254 aroclor.

Method 8082MCP: Surrogate recovery was outside control limits for the following sample: (CCV 620-27460/32). The DCB Decachlorobiphenyl (Surr) for the 1242/1268 aroclor CCV was outside acceptance criteria due to pattern interference from aroclor 1268. The 1242/1268 aroclor target peaks were within acceptance criteria. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27462/31) and (CCV 620-27462/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082MCP: The continuing calibration verification (CCV) associated with batch 620-27462 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr) and PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 620-27462/29).

Method 8082MCP: The continuing calibration verification (CCV) associated with batch 620-27462 recovered above the upper control limit for DCB Decachlorobiphenyl (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 620-27462/29).

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27492/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration..

Job ID: 620-14173-1 (Continued)

Laboratory: Eurofins New England (Continued)

Method 8082MCP: The following samples required a dilution due to the nature of the sample matrix: ATM-CC-14 (620-14173-14) and FD-01-092723 (620-14173-21). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The following sample required a dilution due to the nature of the sample matrix: ATM-CC-10 (620-14173-10). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8082MCP: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27494/4). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-27343 was outside control limits. Sample matrix interference is suspected.

Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-27359 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-01 — Lab Sample ID: 620-14173-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.1		0.529	0.412	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-02 — Lab Sample ID: 620-14173-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.37		0.280	0.218	mg/Kg	5	☼	8082	Total/NA

Client Sample ID: ATM-CC-03 — Lab Sample ID: 620-14173-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.466		0.0467	0.0363	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-04 — Lab Sample ID: 620-14173-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.92		0.581	0.452	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-05 — Lab Sample ID: 620-14173-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.2		0.547	0.425	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-06 — Lab Sample ID: 620-14173-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.81		0.540	0.420	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-07 — Lab Sample ID: 620-14173-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.56		0.495	0.385	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-08 — Lab Sample ID: 620-14173-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	7.00		0.545	0.424	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-09 — Lab Sample ID: 620-14173-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	2.61		0.497	0.387	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-10 — Lab Sample ID: 620-14173-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.5		1.10	0.856	mg/Kg	20	☼	8082	Total/NA

Client Sample ID: ATM-CC-11 — Lab Sample ID: 620-14173-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1.17		0.0527	0.0410	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-12 — Lab Sample ID: 620-14173-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.666		0.0545	0.0424	mg/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-13 — Lab Sample ID: 620-14173-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	5.67		0.478	0.372	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	89.9		4.38	3.41	mg/Kg	100	☼	8082	Total/NA

Client Sample ID: ATM-CC-15 — Lab Sample ID: 620-14173-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	6.29		0.557	0.433	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-16 — Lab Sample ID: 620-14173-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	13.0		0.522	0.406	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-17 — Lab Sample ID: 620-14173-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4.33		0.453	0.352	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-18 — Lab Sample ID: 620-14173-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	19.3		0.548	0.426	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-19 — Lab Sample ID: 620-14173-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.3		0.594	0.462	mg/Kg	10	☼	8082	Total/NA

Client Sample ID: ATM-CC-20 — Lab Sample ID: 620-14173-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0722		0.0600	0.0467	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: FD-01-092723 — Lab Sample ID: 620-14173-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	67.0		2.64	2.05	mg/Kg	50	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ATM-CC-01 Lab Sample ID: 620-14173-1

Date Collected: 09/27/23 10:05 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.529	0.381	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1221	ND		0.529	0.156	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1232	ND		0.529	0.147	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1242	ND		0.529	0.0836	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1248	ND		0.529	0.165	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1254	**11.1**		0.529	0.412	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1262	ND		0.529	0.123	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1260	ND		0.529	0.114	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10
PCB-1268	ND		0.529	0.113	mg/Kg	☼	09/29/23 15:40	10/04/23 11:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*
DCB Decachlorobiphenyl (Surr)	*1*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 11:04*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.7**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.3**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-02
Date Collected: 09/27/23 10:15
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-2
Matrix: Solid
Percent Solids: 98.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.280	0.202	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1221	ND		0.280	0.0828	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1232	ND		0.280	0.0776	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1242	ND		0.280	0.0443	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1248	ND		0.280	0.0876	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1254	**7.37**		0.280	0.218	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1262	ND		0.280	0.0653	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1260	ND		0.280	0.0603	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5
PCB-1268	ND		0.280	0.0597	mg/Kg	☼	09/29/23 15:40	10/04/23 11:22	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*
Tetrachloro-m-xylene	*70*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*
DCB Decachlorobiphenyl (Surr)	*41*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*
DCB Decachlorobiphenyl (Surr)	*40*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:22*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.4**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.6**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-03

Date Collected: 09/27/23 10:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-3

Matrix: Solid
Percent Solids: 98.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0467	0.0336	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1221	ND		0.0467	0.0138	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1232	ND		0.0467	0.0129	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1242	ND		0.0467	0.00738	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1248	ND		0.0467	0.0146	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1254	**0.466**		0.0467	0.0363	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1262	ND		0.0467	0.0109	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1260	ND		0.0467	0.0100	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1
PCB-1268	ND		0.0467	0.00994	mg/Kg	☼	09/29/23 15:40	10/05/23 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-04

Date Collected: 09/27/23 10:50
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-4

Matrix: Solid
Percent Solids: 98.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.581	0.418	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1221	ND		0.581	0.172	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1232	ND		0.581	0.161	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1242	ND		0.581	0.0917	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1248	ND		0.581	0.181	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1254	**4.92**		0.581	0.452	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1262	ND		0.581	0.135	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1260	ND		0.581	0.125	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10
PCB-1268	ND		0.581	0.124	mg/Kg	☼	09/29/23 15:40	10/04/23 11:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*
Tetrachloro-m-xylene	*71*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*
DCB Decachlorobiphenyl (Surr)	*11*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 11:39*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.7**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.3**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-05 Lab Sample ID: 620-14173-5

Date Collected: 09/27/23 11:00 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.547	0.394	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1221	ND		0.547	0.162	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1232	ND		0.547	0.151	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1242	ND		0.547	0.0864	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1248	ND		0.547	0.171	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1254	**11.2**		0.547	0.425	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1262	ND		0.547	0.127	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1260	ND		0.547	0.118	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10
PCB-1268	ND		0.547	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 11:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*
DCB Decachlorobiphenyl (Surr)	*0.04*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 11:57*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-06 Lab Sample ID: 620-14173-6

Date Collected: 09/27/23 11:10 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.540	0.389	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1221	ND		0.540	0.160	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1232	ND		0.540	0.150	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1242	ND		0.540	0.0853	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1248	ND		0.540	0.169	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1254	**7.81**		0.540	0.420	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1262	ND		0.540	0.126	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1260	ND		0.540	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10
PCB-1268	ND		0.540	0.115	mg/Kg	☼	09/29/23 15:40	10/04/23 12:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*
Tetrachloro-m-xylene	*82*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*
DCB Decachlorobiphenyl (Surr)	*47*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*
DCB Decachlorobiphenyl (Surr)	*1*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 12:15*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.3**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.7**		0.1	0.1	%			09/29/23 15:25	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-07

Date Collected: 09/27/23 11:25
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-7

Matrix: Solid
Percent Solids: 99.0

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.495	0.356	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1221	ND		0.495	0.146	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1232	ND		0.495	0.137	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1242	ND		0.495	0.0782	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1248	ND		0.495	0.155	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1254	**1.56**		0.495	0.385	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1262	ND		0.495	0.115	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1260	ND		0.495	0.106	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10
PCB-1268	ND		0.495	0.105	mg/Kg	☼	09/29/23 15:40	10/04/23 12:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*
Tetrachloro-m-xylene	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*
DCB Decachlorobiphenyl (Surr)	*18*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 12:33*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.0**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-08 Lab Sample ID: 620-14173-8

Date Collected: 09/27/23 11:35 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 97.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.545	0.393	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1221	ND		0.545	0.161	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1232	ND		0.545	0.151	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1242	ND		0.545	0.0861	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1248	ND		0.545	0.170	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1254	**7.00**		0.545	0.424	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1262	ND		0.545	0.127	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1260	ND		0.545	0.117	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10
PCB-1268	ND		0.545	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 12:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*
Tetrachloro-m-xylene	*67*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*
DCB Decachlorobiphenyl (Surr)	*41*		*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*
DCB Decachlorobiphenyl (Surr)	*3*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 12:51*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**97.1**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-09
Date Collected: 09/27/23 11:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-9
Matrix: Solid
Percent Solids: 99.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.497	0.358	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1221	ND		0.497	0.147	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1232	ND		0.497	0.138	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1242	ND		0.497	0.0785	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1248	ND		0.497	0.155	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1254	**2.61**		0.497	0.387	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1262	ND		0.497	0.116	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1260	ND		0.497	0.107	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10
PCB-1268	ND		0.497	0.106	mg/Kg	☼	09/29/23 15:40	10/04/23 13:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*
Tetrachloro-m-xylene	*78*		*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*
DCB Decachlorobiphenyl (Surr)	*49*		*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*
DCB Decachlorobiphenyl (Surr)	*28*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 13:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.5**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.5**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-10 — Lab Sample ID: 620-14173-10

Date Collected: 09/27/23 12:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.1**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.10	0.793	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1221	ND		1.10	0.325	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1232	ND		1.10	0.305	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1242	ND		1.10	0.174	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1248	ND		1.10	0.344	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1254	**11.5**		1.10	0.856	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1262	ND		1.10	0.256	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1260	ND		1.10	0.237	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20
PCB-1268	ND		1.10	0.234	mg/Kg	☼	09/29/23 15:40	10/05/23 14:28	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:28*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-11 Lab Sample ID: 620-14173-11

Date Collected: 09/27/23 12:05 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 99.2**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0527	0.0380	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1221	ND		0.0527	0.0156	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1232	ND		0.0527	0.0146	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1242	ND		0.0527	0.00832	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1248	ND		0.0527	0.0165	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1254	**1.17**		0.0527	0.0410	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1262	ND		0.0527	0.0123	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1260	ND		0.0527	0.0113	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1
PCB-1268	ND		0.0527	0.0112	mg/Kg	☼	09/29/23 15:40	10/05/23 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.8**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.2**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-12

Date Collected: 09/27/23 12:15
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-12

Matrix: Solid
Percent Solids: 99.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0545	0.0392	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1221	ND		0.0545	0.0161	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1232	ND		0.0545	0.0151	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1242	ND		0.0545	0.00860	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1248	ND		0.0545	0.0170	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1254	**0.666**		0.0545	0.0424	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1262	ND		0.0545	0.0127	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1260	ND		0.0545	0.0117	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1
PCB-1268	ND		0.0545	0.0116	mg/Kg	☼	09/29/23 15:40	10/05/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*	*09/29/23 15:40*	*10/05/23 14:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.8**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.2**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-13

Date Collected: 09/27/23 12:20
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-13

Matrix: Solid
Percent Solids: 99.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.478	0.344	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1221	ND		0.478	0.141	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1232	ND		0.478	0.132	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1242	ND		0.478	0.0755	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1248	ND		0.478	0.149	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1254	**5.67**		0.478	0.372	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1262	ND		0.478	0.111	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1260	ND		0.478	0.103	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10
PCB-1268	ND		0.478	0.102	mg/Kg	☼	09/29/23 15:40	10/04/23 14:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*47*		*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*
Tetrachloro-m-xylene	*51*		*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*
DCB Decachlorobiphenyl (Surr)	*44*		*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*
DCB Decachlorobiphenyl (Surr)	*8*	*p S1-*	*30 - 150*	*09/29/23 15:40*	*10/04/23 14:21*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Date Collected: 09/27/23 12:30 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.6**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.38	3.16	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1221	ND		4.38	1.30	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1232	ND		4.38	1.21	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1242	ND		4.38	0.693	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1248	ND		4.38	1.37	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1254	**89.9**		4.38	3.41	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1262	ND		4.38	1.02	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1260	ND		4.38	0.943	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100
PCB-1268	ND		4.38	0.934	mg/Kg	☼	09/29/23 15:40	10/05/23 14:31	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:40*	*10/05/23 14:31*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.4**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.6**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-15

Date Collected: 09/27/23 12:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-15

Matrix: Solid
Percent Solids: 99.2

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.557	0.401	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1221	ND		0.557	0.165	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1232	ND		0.557	0.154	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1242	ND		0.557	0.0880	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1248	ND		0.557	0.174	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1254	**6.29**		0.557	0.433	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1262	ND		0.557	0.130	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1260	ND		0.557	0.120	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10
PCB-1268	ND		0.557	0.119	mg/Kg	☼	09/29/23 15:44	10/04/23 14:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*59*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*
Tetrachloro-m-xylene	*63*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*
DCB Decachlorobiphenyl (Surr)	*45*	*p*	*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*
DCB Decachlorobiphenyl (Surr)	*70*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:57*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.8**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.2**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-16

Date Collected: 09/27/23 12:50
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-16

Matrix: Solid
Percent Solids: 98.6

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.522	0.376	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1221	ND		0.522	0.154	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1232	ND		0.522	0.145	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1242	ND		0.522	0.0824	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1248	ND		0.522	0.163	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1254	**13.0**		0.522	0.406	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1262	ND		0.522	0.122	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1260	ND		0.522	0.112	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10
PCB-1268	ND		0.522	0.111	mg/Kg	☼	09/29/23 15:44	10/04/23 15:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*51*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*
Tetrachloro-m-xylene	*53*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*
DCB Decachlorobiphenyl (Surr)	*30*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*
DCB Decachlorobiphenyl (Surr)	*8*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 15:15*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.4**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.6**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-17

Date Collected: 09/27/23 13:10
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-17

Matrix: Solid
Percent Solids: 99.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.453	0.326	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1221	ND		0.453	0.134	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1232	ND		0.453	0.125	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1242	ND		0.453	0.0716	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1248	ND		0.453	0.142	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1254	**4.33**		0.453	0.352	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1262	ND		0.453	0.106	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1260	ND	F1	0.453	0.0974	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10
PCB-1268	ND		0.453	0.0965	mg/Kg	☼	09/29/23 15:44	10/04/23 15:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*
Tetrachloro-m-xylene	*82*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*
DCB Decachlorobiphenyl (Surr)	*47*		*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*
DCB Decachlorobiphenyl (Surr)	*17*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 15:32*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.5**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.5**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-18

Date Collected: 09/27/23 13:15
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-18

Matrix: Solid
Percent Solids: 99.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.548	0.395	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1221	ND		0.548	0.162	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1232	ND		0.548	0.152	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1242	ND		0.548	0.0865	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1248	ND		0.548	0.171	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1254	**19.3**		0.548	0.426	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1262	ND		0.548	0.128	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1260	ND		0.548	0.118	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10
PCB-1268	ND		0.548	0.117	mg/Kg	☼	09/29/23 15:44	10/04/23 16:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*
DCB Decachlorobiphenyl (Surr)	*33*		*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*
DCB Decachlorobiphenyl (Surr)	*5*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 16:51*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.5**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.5**		0.1	0.1	%			09/29/23 15:25	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-19

Date Collected: 09/27/23 13:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-19

Matrix: Solid
Percent Solids: 98.1

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.594	0.428	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1221	ND		0.594	0.176	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1232	ND		0.594	0.165	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1242	ND		0.594	0.0938	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1248	ND		0.594	0.186	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1254	**11.3**		0.594	0.462	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1262	ND		0.594	0.138	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1260	ND		0.594	0.128	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10
PCB-1268	ND		0.594	0.127	mg/Kg	☼	09/29/23 15:44	10/04/23 17:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*
Tetrachloro-m-xylene	*93*		*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*
DCB Decachlorobiphenyl (Surr)	*42*		*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*
DCB Decachlorobiphenyl (Surr)	*21*	*p S1-*	*30 - 150*	*09/29/23 15:44*	*10/04/23 17:09*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.9**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.1**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: ATM-CC-20 Lab Sample ID: 620-14173-20

Date Collected: 09/27/23 13:40 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0600	0.0432	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1221	ND		0.0600	0.0177	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1232	ND		0.0600	0.0166	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1242	ND		0.0600	0.00948	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1248	ND		0.0600	0.0187	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1254	**0.0722**		0.0600	0.0467	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1262	ND		0.0600	0.0140	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1260	ND		0.0600	0.0129	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1
PCB-1268	ND		0.0600	0.0128	mg/Kg	☼	09/29/23 15:44	10/05/23 09:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*
Tetrachloro-m-xylene	*81*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:44*	*10/05/23 09:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.0**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**98.0**		0.1	0.1	%			09/29/23 15:25	1

Client Sample ID: FD-01-092723 **Lab Sample ID: 620-14173-21**
Date Collected: 09/27/23 08:00 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 99.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.64	1.90	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1221	ND		2.64	0.779	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1232	ND		2.64	0.730	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1242	ND		2.64	0.417	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1248	ND		2.64	0.824	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1254	**67.0**		2.64	2.05	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1262	ND		2.64	0.614	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1260	ND		2.64	0.567	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50
PCB-1268	ND		2.64	0.562	mg/Kg	☼	09/29/23 15:44	10/05/23 14:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*
Tetrachloro-m-xylene	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*S1-*	*30 - 150*	*09/29/23 15:44*	*10/05/23 14:49*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1**		0.1	0.1	%			09/29/23 15:25	1
Percent Solids (EPA Moisture)	**99.0**		0.1	0.1	%			09/29/23 15:25	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14173-1	ATM-CC-01	79	74	61	1 p S1-
620-14173-2	ATM-CC-02	72	70	41	40
620-14173-3	ATM-CC-03	69	76	70	67
620-14173-4	ATM-CC-04	63	71	65	11 p S1-
620-14173-5	ATM-CC-05	72	76	42	0.04 p S1-
620-14173-6	ATM-CC-06	75	82	47	1 p S1-
620-14173-7	ATM-CC-07	67	68	48	18 p S1-
620-14173-8	ATM-CC-08	63	67	41	3 p S1-
620-14173-9	ATM-CC-09	70	78	49	28 p S1-
620-14173-10	ATM-CC-10	0 S1-	0 S1-	0 S1-	0 S1-
620-14173-11	ATM-CC-11	64	80	66	62
620-14173-12	ATM-CC-12	79	79	65	63
620-14173-13	ATM-CC-13	47	51	44	8 p S1-
620-14173-14	ATM-CC-14	0 S1-	0 S1-	0 S1-	0 S1-
620-14173-15	ATM-CC-15	59	63	45 p	70
620-14173-16	ATM-CC-16	51	53	30	8 p S1-
620-14173-17	ATM-CC-17	79	82	47	17 p S1-
620-14173-17 MS	ATM-CC-17	76	81	45	27 p S1-
620-14173-17 MSD	ATM-CC-17	74	81	63	49
620-14173-18	ATM-CC-18	74	72	33	5 p S1-
620-14173-19	ATM-CC-19	88	93	42	21 p S1-
620-14173-20	ATM-CC-20	80	81	65	68
620-14173-21	FD-01-092723	0 S1-	0 S1-	0 S1-	0 S1-
LCS 620-27346/2-A	Lab Control Sample	81	80	64	64
LCS 620-27347/2-A	Lab Control Sample	61	64	53	53
LCSD 620-27346/3-A	Lab Control Sample Dup	75	76	66	67
LCSD 620-27347/3-A	Lab Control Sample Dup	69	73	57	56
MB 620-27346/1-A	Method Blank	76	73	68	68
MB 620-27347/1-A	Method Blank	71	75	62	61

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: MB 620-27346/1-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:40	10/04/23 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*

Lab Sample ID: LCS 620-27346/2-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1448		mg/Kg		87	40 - 140		
PCB-1016			0.167	0.1359		mg/Kg		82	40 - 140		
PCB-1260			0.167	0.1678		mg/Kg		101	40 - 140		
PCB-1260			0.167	0.1456		mg/Kg		87	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*80*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*

Lab Sample ID: LCSD 620-27346/3-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1440		mg/Kg		86	40 - 140	1	30
PCB-1016			0.167	0.1355		mg/Kg		81	40 - 140	0	30
PCB-1260			0.167	0.1669		mg/Kg		100	40 - 140	1	30
PCB-1260			0.167	0.1462		mg/Kg		88	40 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*30 - 150*
Tetrachloro-m-xylene	*76*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: MB 620-27347/1-A
Matrix: Solid
Analysis Batch: 27462

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:44	10/04/23 14:15	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:44	10/04/23 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*
Tetrachloro-m-xylene	*75*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*30 - 150*	*09/29/23 15:44*	*10/04/23 14:15*	*1*

Lab Sample ID: LCS 620-27347/2-A
Matrix: Solid
Analysis Batch: 27462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27347

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1091		mg/Kg		65	40 - 140		
PCB-1016			0.167	0.1035		mg/Kg		62	40 - 140		
PCB-1260			0.167	0.1155		mg/Kg		69	40 - 140		
PCB-1260			0.167	0.1159		mg/Kg		70	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*61*		*30 - 150*
Tetrachloro-m-xylene	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*53*		*30 - 150*

Lab Sample ID: LCSD 620-27347/3-A
Matrix: Solid
Analysis Batch: 27462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27347

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1236		mg/Kg		74	40 - 140	12	30
PCB-1016			0.167	0.1235		mg/Kg		74	40 - 140	18	30
PCB-1260			0.167	0.1290		mg/Kg		77	40 - 140	11	30
PCB-1260			0.167	0.1302		mg/Kg		78	40 - 140	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*30 - 150*
Tetrachloro-m-xylene	*73*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*57*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*56*		*30 - 150*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: 620-14173-17 MS
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-17
Prep Type: Total/NA
Prep Batch: 27347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND	F2	0.410	0.3602	J	mg/Kg	☼	88	40 - 140
PCB-1260	ND	F1	0.410	1.230	F1	mg/Kg	☼	300	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*30 - 150*
Tetrachloro-m-xylene	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*45*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*27*	*p S1-*	*30 - 150*

Lab Sample ID: 620-14173-17 MSD
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-17
Prep Type: Total/NA
Prep Batch: 27347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND	F2	0.493	0.5116	J F2	mg/Kg	☼	104	40 - 140	35	30
PCB-1260	ND	F1	0.493	1.337	F1	mg/Kg	☼	271	40 - 140	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*74*		*30 - 150*
Tetrachloro-m-xylene	*81*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*63*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*49*		*30 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 620-14173-10 DU
Matrix: Solid
Analysis Batch: 27343

Client Sample ID: ATM-CC-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.9		1.9		%		4	5
Percent Solids	98.1		98.1		%		0.08	5

Lab Sample ID: 620-14173-17 DU
Matrix: Solid
Analysis Batch: 27343

Client Sample ID: ATM-CC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	0.5		0.4	F5	%		22	5
Percent Solids	99.5		99.6		%		0.1	5

Lab Sample ID: 620-14173-21 DU
Matrix: Solid
Analysis Batch: 27343

Client Sample ID: FD-01-092723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1		1		%		1	5
Percent Solids	99.0		99.0		%		0	5

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Method: Moisture - Percent Moisture (Continued)

Lab Sample ID: 620-14173-2 DU
Matrix: Solid
Analysis Batch: 27359

Client Sample ID: ATM-CC-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.9			3.0		%				3	5
Percent Solids	97.1			97.0		%				0.1	5

Lab Sample ID: 620-14173-12 DU
Matrix: Solid
Analysis Batch: 27359

Client Sample ID: ATM-CC-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.2			1.2		%				2	5
Percent Solids	98.8			98.8		%				0	5

Lab Sample ID: 620-14173-17 DU
Matrix: Solid
Analysis Batch: 27359

Client Sample ID: ATM-CC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	1.6			1.8	F3	%				8	5
Percent Solids	98.4			98.2		%				0.1	5

GC Semi VOA

Prep Batch: 27346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-1	ATM-CC-01	Total/NA	Solid	3540C	
620-14173-2	ATM-CC-02	Total/NA	Solid	3540C	
620-14173-3	ATM-CC-03	Total/NA	Solid	3540C	
620-14173-4	ATM-CC-04	Total/NA	Solid	3540C	
620-14173-5	ATM-CC-05	Total/NA	Solid	3540C	
620-14173-6	ATM-CC-06	Total/NA	Solid	3540C	
620-14173-7	ATM-CC-07	Total/NA	Solid	3540C	
620-14173-8	ATM-CC-08	Total/NA	Solid	3540C	
620-14173-9	ATM-CC-09	Total/NA	Solid	3540C	
620-14173-10	ATM-CC-10	Total/NA	Solid	3540C	
620-14173-11	ATM-CC-11	Total/NA	Solid	3540C	
620-14173-12	ATM-CC-12	Total/NA	Solid	3540C	
620-14173-13	ATM-CC-13	Total/NA	Solid	3540C	
620-14173-14	ATM-CC-14	Total/NA	Solid	3540C	
MB 620-27346/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Prep Batch: 27347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-15	ATM-CC-15	Total/NA	Solid	3540C	
620-14173-16	ATM-CC-16	Total/NA	Solid	3540C	
620-14173-17	ATM-CC-17	Total/NA	Solid	3540C	
620-14173-18	ATM-CC-18	Total/NA	Solid	3540C	
620-14173-19	ATM-CC-19	Total/NA	Solid	3540C	
620-14173-20	ATM-CC-20	Total/NA	Solid	3540C	
620-14173-21	FD-01-092723	Total/NA	Solid	3540C	
MB 620-27347/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27347/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27347/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	
620-14173-17 MS	ATM-CC-17	Total/NA	Solid	3540C	
620-14173-17 MSD	ATM-CC-17	Total/NA	Solid	3540C	

Analysis Batch: 27460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-1	ATM-CC-01	Total/NA	Solid	8082	27346
620-14173-2	ATM-CC-02	Total/NA	Solid	8082	27346
620-14173-4	ATM-CC-04	Total/NA	Solid	8082	27346
620-14173-5	ATM-CC-05	Total/NA	Solid	8082	27346
620-14173-6	ATM-CC-06	Total/NA	Solid	8082	27346
620-14173-7	ATM-CC-07	Total/NA	Solid	8082	27346
620-14173-8	ATM-CC-08	Total/NA	Solid	8082	27346
620-14173-9	ATM-CC-09	Total/NA	Solid	8082	27346
620-14173-13	ATM-CC-13	Total/NA	Solid	8082	27346
620-14173-15	ATM-CC-15	Total/NA	Solid	8082	27347
620-14173-16	ATM-CC-16	Total/NA	Solid	8082	27347
620-14173-17	ATM-CC-17	Total/NA	Solid	8082	27347
620-14173-18	ATM-CC-18	Total/NA	Solid	8082	27347
620-14173-19	ATM-CC-19	Total/NA	Solid	8082	27347
620-14173-20	ATM-CC-20	Total/NA	Solid	8082	27347
MB 620-27346/1-A	Method Blank	Total/NA	Solid	8082	27346

GC Semi VOA (Continued)

Analysis Batch: 27460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	8082	27346
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27346
620-14173-17 MS	ATM-CC-17	Total/NA	Solid	8082	27347
620-14173-17 MSD	ATM-CC-17	Total/NA	Solid	8082	27347

Analysis Batch: 27462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-27347/1-A	Method Blank	Total/NA	Solid	8082	27347
LCS 620-27347/2-A	Lab Control Sample	Total/NA	Solid	8082	27347
LCSD 620-27347/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27347

Analysis Batch: 27492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-12	ATM-CC-12	Total/NA	Solid	8082	27346
620-14173-14	ATM-CC-14	Total/NA	Solid	8082	27346
620-14173-21	FD-01-092723	Total/NA	Solid	8082	27347

Analysis Batch: 27494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-3	ATM-CC-03	Total/NA	Solid	8082	27346
620-14173-10	ATM-CC-10	Total/NA	Solid	8082	27346
620-14173-11	ATM-CC-11	Total/NA	Solid	8082	27346

General Chemistry

Analysis Batch: 27343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-1	ATM-CC-01	Total/NA	Solid	Moisture	
620-14173-2	ATM-CC-02	Total/NA	Solid	Moisture	
620-14173-3	ATM-CC-03	Total/NA	Solid	Moisture	
620-14173-4	ATM-CC-04	Total/NA	Solid	Moisture	
620-14173-5	ATM-CC-05	Total/NA	Solid	Moisture	
620-14173-6	ATM-CC-06	Total/NA	Solid	Moisture	
620-14173-7	ATM-CC-07	Total/NA	Solid	Moisture	
620-14173-8	ATM-CC-08	Total/NA	Solid	Moisture	
620-14173-9	ATM-CC-09	Total/NA	Solid	Moisture	
620-14173-10	ATM-CC-10	Total/NA	Solid	Moisture	
620-14173-11	ATM-CC-11	Total/NA	Solid	Moisture	
620-14173-12	ATM-CC-12	Total/NA	Solid	Moisture	
620-14173-13	ATM-CC-13	Total/NA	Solid	Moisture	
620-14173-14	ATM-CC-14	Total/NA	Solid	Moisture	
620-14173-15	ATM-CC-15	Total/NA	Solid	Moisture	
620-14173-16	ATM-CC-16	Total/NA	Solid	Moisture	
620-14173-17	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-18	ATM-CC-18	Total/NA	Solid	Moisture	
620-14173-19	ATM-CC-19	Total/NA	Solid	Moisture	
620-14173-20	ATM-CC-20	Total/NA	Solid	Moisture	
620-14173-21	FD-01-092723	Total/NA	Solid	Moisture	
620-14173-17 MS	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-17 MSD	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-10 DU	ATM-CC-10	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 27343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-17 DU	ATM-CC-17	Total/NA	Solid	Moisture	
620-14173-21 DU	FD-01-092723	Total/NA	Solid	Moisture	

Analysis Batch: 27359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14173-2 DU	ATM-CC-02	Total/NA	Solid	Moisture	
620-14173-12 DU	ATM-CC-12	Total/NA	Solid	Moisture	
620-14173-17 DU	ATM-CC-17	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-01 Lab Sample ID: 620-14173-1
Date Collected: 09/27/23 10:05 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-01 Lab Sample ID: 620-14173-1
Date Collected: 09/27/23 10:05 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 11:04

Client Sample ID: ATM-CC-02 Lab Sample ID: 620-14173-2
Date Collected: 09/27/23 10:15 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-02 Lab Sample ID: 620-14173-2
Date Collected: 09/27/23 10:15 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		5	27460	SFL	EET NE	10/04/23 11:22

Client Sample ID: ATM-CC-03 Lab Sample ID: 620-14173-3
Date Collected: 09/27/23 10:35 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-03 Lab Sample ID: 620-14173-3
Date Collected: 09/27/23 10:35 **Matrix: Solid**
Date Received: 09/27/23 16:13 **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27494	SFL	EET NE	10/05/23 14:11

Client Sample ID: ATM-CC-04 Lab Sample ID: 620-14173-4
Date Collected: 09/27/23 10:50 **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-04
Date Collected: 09/27/23 10:50
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-4
Matrix: Solid
Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 11:39

Client Sample ID: ATM-CC-05
Date Collected: 09/27/23 11:00
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-05
Date Collected: 09/27/23 11:00
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-5
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 11:57

Client Sample ID: ATM-CC-06
Date Collected: 09/27/23 11:10
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-06
Date Collected: 09/27/23 11:10
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-6
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 12:15

Client Sample ID: ATM-CC-07
Date Collected: 09/27/23 11:25
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14173-1

Client Sample ID: ATM-CC-07
Date Collected: 09/27/23 11:25
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-7
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 12:33

Client Sample ID: ATM-CC-08
Date Collected: 09/27/23 11:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-08
Date Collected: 09/27/23 11:35
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-8
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 12:51

Client Sample ID: ATM-CC-09
Date Collected: 09/27/23 11:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-09
Date Collected: 09/27/23 11:45
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-9
Matrix: Solid
Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 13:08

Client Sample ID: ATM-CC-10
Date Collected: 09/27/23 12:00
Date Received: 09/27/23 16:13

Lab Sample ID: 620-14173-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-10 — Lab Sample ID: 620-14173-10
Date Collected: 09/27/23 12:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		20	27494	SFL	EET NE	10/05/23 14:28

Client Sample ID: ATM-CC-11 — Lab Sample ID: 620-14173-11
Date Collected: 09/27/23 12:05 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-11 — Lab Sample ID: 620-14173-11
Date Collected: 09/27/23 12:05 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27494	SFL	EET NE	10/05/23 14:46

Client Sample ID: ATM-CC-12 — Lab Sample ID: 620-14173-12
Date Collected: 09/27/23 12:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-12 — Lab Sample ID: 620-14173-12
Date Collected: 09/27/23 12:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27492	SFL	EET NE	10/05/23 14:14

Client Sample ID: ATM-CC-13 — Lab Sample ID: 620-14173-13
Date Collected: 09/27/23 12:20 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-13 — Lab Sample ID: 620-14173-13

Date Collected: 09/27/23 12:20 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 14:21

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Date Collected: 09/27/23 12:30 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-14 — Lab Sample ID: 620-14173-14

Date Collected: 09/27/23 12:30 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		100	27492	SFL	EET NE	10/05/23 14:31

Client Sample ID: ATM-CC-15 — Lab Sample ID: 620-14173-15

Date Collected: 09/27/23 12:45 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-15 — Lab Sample ID: 620-14173-15

Date Collected: 09/27/23 12:45 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 14:57

Client Sample ID: ATM-CC-16 — Lab Sample ID: 620-14173-16

Date Collected: 09/27/23 12:50 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-16 — Lab Sample ID: 620-14173-16

Date Collected: 09/27/23 12:50 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 15:15

Client Sample ID: ATM-CC-17 — Lab Sample ID: 620-14173-17

Date Collected: 09/27/23 13:10 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-17 — Lab Sample ID: 620-14173-17

Date Collected: 09/27/23 13:10 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 15:32

Client Sample ID: ATM-CC-18 — Lab Sample ID: 620-14173-18

Date Collected: 09/27/23 13:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-18 — Lab Sample ID: 620-14173-18

Date Collected: 09/27/23 13:15 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 16:51

Client Sample ID: ATM-CC-19 — Lab Sample ID: 620-14173-19

Date Collected: 09/27/23 13:35 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-19 — Lab Sample ID: 620-14173-19

Date Collected: 09/27/23 13:35 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 17:09

Client Sample ID: ATM-CC-20 — Lab Sample ID: 620-14173-20

Date Collected: 09/27/23 13:40 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: ATM-CC-20 — Lab Sample ID: 620-14173-20

Date Collected: 09/27/23 13:40 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/05/23 09:18

Client Sample ID: FD-01-092723 — Lab Sample ID: 620-14173-21

Date Collected: 09/27/23 08:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27343	MJH	EET NE	09/29/23 15:25

Client Sample ID: FD-01-092723 — Lab Sample ID: 620-14173-21

Date Collected: 09/27/23 08:00 — **Matrix: Solid**
Date Received: 09/27/23 16:13 — **Percent Solids: 99.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27347	BJJ	EET NE	09/29/23 15:44
Total/NA	Analysis	8082		50	27492	SFL	EET NE	10/05/23 14:49

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
Moisture	Percent Moisture	EPA	EET NE
3540C	Soxhlet Extraction	SW846	EET NE

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Nobis Engineering, Inc.
Job ID: 620-14173-1
Project/Site: American Tissue Mill - Templeton, MA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-14173-1	ATM-CC-01	Solid	09/27/23 10:05	09/27/23 16:13
620-14173-2	ATM-CC-02	Solid	09/27/23 10:15	09/27/23 16:13
620-14173-3	ATM-CC-03	Solid	09/27/23 10:35	09/27/23 16:13
620-14173-4	ATM-CC-04	Solid	09/27/23 10:50	09/27/23 16:13
620-14173-5	ATM-CC-05	Solid	09/27/23 11:00	09/27/23 16:13
620-14173-6	ATM-CC-06	Solid	09/27/23 11:10	09/27/23 16:13
620-14173-7	ATM-CC-07	Solid	09/27/23 11:25	09/27/23 16:13
620-14173-8	ATM-CC-08	Solid	09/27/23 11:35	09/27/23 16:13
620-14173-9	ATM-CC-09	Solid	09/27/23 11:45	09/27/23 16:13
620-14173-10	ATM-CC-10	Solid	09/27/23 12:00	09/27/23 16:13
620-14173-11	ATM-CC-11	Solid	09/27/23 12:05	09/27/23 16:13
620-14173-12	ATM-CC-12	Solid	09/27/23 12:15	09/27/23 16:13
620-14173-13	ATM-CC-13	Solid	09/27/23 12:20	09/27/23 16:13
620-14173-14	ATM-CC-14	Solid	09/27/23 12:30	09/27/23 16:13
620-14173-15	ATM-CC-15	Solid	09/27/23 12:45	09/27/23 16:13
620-14173-16	ATM-CC-16	Solid	09/27/23 12:50	09/27/23 16:13
620-14173-17	ATM-CC-17	Solid	09/27/23 13:10	09/27/23 16:13
620-14173-18	ATM-CC-18	Solid	09/27/23 13:15	09/27/23 16:13
620-14173-19	ATM-CC-19	Solid	09/27/23 13:35	09/27/23 16:13
620-14173-20	ATM-CC-20	Solid	09/27/23 13:40	09/27/23 16:13
620-14173-21	FD-01-092723	Solid	09/27/23 08:00	09/27/23 16:13

14173

620-14173 Chain of Custody

Chain of Custody Record

eurofins | Environment Testing

	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-12317-1644 1
Client Contact: Stephanie Stone	Phone	E-Mail: DMcGrath@nobis-group.com	State of Origin	Page: Page 1 of 10
Company: Nobis Engineering, Inc	PWSID		Analysis Requested	Job #:

Address: 585 Middlesex Street	Due Date Requested:
City: Lowell	TAT Requested (days): 5 day TAT
State, Zip: MA, 01851	Compliance Project: ☑ Yes △ No MCP CAM
Phone: 774-245-3612	PO #:
Email: sstone@nobis-group com	WO #:
Project Name: American Tissue Mill	Project #: S000D1.002/400
Site: Templeton, MA	SSOW#:

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCB 8082 (SOxH(et)	Total Number of containers	Special Instructions/Note:
	Preservation Code:							T		
-1	ATM-CC-01	9/27/23	1005	G	Solid			1		
-2	ATM-CC-02		1015		Solid					
-3	ATM-CC-03		1035		Solid					
-4	ATM-CC-04		1050		Solid					
-5	ATM-CC-05		1100		Solid					
-6	ATM-CC-06		1110		Solid					
-7	ATM-CC-07		11:25		Solid					
-8	ATM-CC-08		11:35		Solid					
-9	ATM-CC-09		11:45		Solid					
-10	ATM-CC-10		1200		Solid					
-11	ATM-CC-11		1205		Solid					

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send EQuIS EDD to DMcGrath@nobis-group.com

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by	9-27-23 13:57		Received by	9/27/23 1400	ENE
Relinquished by	9/27/23 16:13	ENE	Received by	9/27/23 16:13	BNG
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.2 +0.2 1.4 = 6

Ver: 06/08/2021

10/5/2023

14173

Eurofins New England
646 Camp Ave
North Kingstown, RI 02852
Phone 413-789-9018 Fax 413-506-3830

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: S. Stone	Lab PM	Carrier Tracking No(s)	COC No: 620-12317-1644 5
Client Contact: Stephanie Stone	Phone	E-Mail: DMcGrath@Nobis-Group.com	State of Origin	Page: Page 5 of 10
Company: Nobis Engineering, Inc	PWSID		Analysis Requested	Job #:
Address: 585 Middlesex Street	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
City: Lowell	TAT Requested (days): 5 day TAT			
State, Zip: MA, 01851	Compliance Project: ☑ Yes ☐ No MCP CAM			
Phone: 774-245-3612	PO #:			Other:
Email: sstone@nobis-group.com	WO #:			
Project Name: American Tissue Mill	Project #: S00001.002/400			
Site: Templeton, MA	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCB 60 82 (Soxhlet)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				1		
-12 ATM-CC-12	9/27/23	1215	G	Solid			1		
-13 ATM-CC-13		1220		Solid			1		
-14 ATM-CC-14		1230		Solid			1		
-15 ATM-CC-15		1245		Solid			1		
-16 ATM-CC-16		1250		Solid			1		
-17 ATM-CC-17		1310		Solid	X		1		MS/MSD
-18 ATM-CC-18		1315		Solid			1		
-19 ATM-CC-19		1335		Solid			1		
-20 ATM-CC-20		1340		Solid			1		
-21 FD-01-092723		0800		Solid			1		
				Solid			1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Send Equis EDD to DMcGrath@Nobis-group.com

Empty Kit Relinquished by.	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		9-27-23 15:58			9/27/23 1640	ENC
2		9/27/23 16:13	ENC		9/27/23 16:13	ENC
3		Date/Time	Company		Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 1.2 to.2 1.4 #6

Ver: 06/08/2021

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10/5/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-14173-1

Login Number: 14173
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Denis McGrath
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, Massachusetts 01851

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JOB DESCRIPTION

American Tissue Mill - Templeton, MA

JOB NUMBER

620-14190-1

Eurofins New England
646 Camp Ave
North Kingstown RI 02852

See page two for job notes and contact information.

my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

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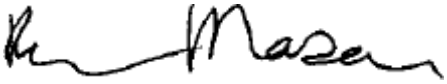

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Definitions/Glossary

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certfication Form

Laboratory Name: Eurofins New England | Project #: 620-14190-1

Project Location: American Tissue Mill - Templeton, MA | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-14190-1 through 620-14190-11

Matrices: ☐ Groundwater/Surface Water ☑ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH (GC/PID/FID) CAM IV A ☐	8082 PCB CAM V A ☑	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP VPH (GC/MS) CAM IV C ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes ☐ No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

1 All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: _____ **Position:** Project Manager II

Printed Name: Becky Mason **Date:** 10/05/2023

Job ID: 620-14190-1

Laboratory: Eurofins New England

Narrative

Job Narrative
620-14190-1

Receipt
The samples were received on 9/28/2023 2:36 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6º C.

GC Semi VOA
Method 8082: Surrogate recovery was outside control limits for the following sample: ATM-CC-23 (620-14190-3), ATM-CC-28 (620-14190-8) and FD-02-092723 (620-14190-11). The DCB Decachlorobiphenyl (Surr) for the 1242/1268 aroclor CCV was outside acceptance criteria due to pattern interference from aroclor 1268.

Method 8082: The %D for the surrogates in the 1221/1254 aroclor CCV was outside of the recommended control limits for the following sample: (CCV 620-27460/31). The surrogates recoveries and the 1221/1254 aroclor target peaks were within control limits. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082: Surrogate recovery was outside control limits for the following sample: (CCV 620-27460/32). The DCB Decachlorobiphenyl (Surr) for the 1242/1268 aroclor CCV was outside acceptance criteria due to pattern interference from aroclor 1268. The 1242/1268 aroclor target peaks were within acceptance criteria. The surrogate is reported based on the 1016/1260 continuing calibration.

Method 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 620-27345 and 620-27345 and analytical batch 620-27460 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method Moisture: The sample duplicate (DUP) precision for analytical batch 620-27376 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-21 — Lab Sample ID: 620-14190-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.377		0.0541	0.0421	mg/Kg	1	☼	8082	Total/NA
PCB-1260	1.41		0.0541	0.0116	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.814		0.0541	0.0115	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-22 — Lab Sample ID: 620-14190-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.234		0.0540	0.0116	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.196		0.0540	0.0115	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-23 — Lab Sample ID: 620-14190-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.350		0.212	0.165	mg/Kg	5	☼	8082	Total/NA
PCB-1260	4.34		0.212	0.0456	mg/Kg	5	☼	8082	Total/NA
PCB-1268	3.23		0.212	0.0451	mg/Kg	5	☼	8082	Total/NA

Client Sample ID: ATM-CC-24 — Lab Sample ID: 620-14190-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0757		0.0470	0.0365	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.188	p F1 F2	0.0470	0.0101	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.223		0.0470	0.0100	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-25 — Lab Sample ID: 620-14190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.192		0.0543	0.0422	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.606		0.0543	0.0117	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.362		0.0543	0.0116	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-26 — Lab Sample ID: 620-14190-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.818		0.0588	0.0457	mg/Kg	1	☼	8082	Total/NA
PCB-1260	1.65		0.0588	0.0126	mg/Kg	1	☼	8082	Total/NA
PCB-1268	1.17		0.0588	0.0125	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-27 — Lab Sample ID: 620-14190-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.185		0.0533	0.0415	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.142		0.0533	0.0115	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.0585		0.0533	0.0114	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-28 — Lab Sample ID: 620-14190-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	14.1		0.474	0.368	mg/Kg	10	☼	8082	Total/NA
PCB-1260	14.8		0.474	0.102	mg/Kg	10	☼	8082	Total/NA
PCB-1268	5.77		0.474	0.101	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-29 — Lab Sample ID: 620-14190-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.0574		0.0516	0.0401	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.171		0.0516	0.0111	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.133		0.0516	0.0110	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: ATM-CC-30 — Lab Sample ID: 620-14190-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	0.479		0.0567	0.0441	mg/Kg	1	☼	8082	Total/NA
PCB-1260	0.850		0.0567	0.0122	mg/Kg	1	☼	8082	Total/NA
PCB-1268	0.487		0.0567	0.0121	mg/Kg	1	☼	8082	Total/NA

Client Sample ID: FD-02-092723 — Lab Sample ID: 620-14190-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11.2		0.453	0.352	mg/Kg	10	☼	8082	Total/NA
PCB-1260	12.8		0.453	0.0973	mg/Kg	10	☼	8082	Total/NA
PCB-1268	5.26		0.453	0.0964	mg/Kg	10	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ATM-CC-21 — Lab Sample ID: 620-14190-1

Date Collected: 09/27/23 14:45 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 98.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0541	0.0390	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1221	ND		0.0541	0.0160	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1232	ND		0.0541	0.0150	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1242	ND		0.0541	0.00854	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1248	ND		0.0541	0.0169	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1254	**0.377**		0.0541	0.0421	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1262	ND		0.0541	0.0126	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1260	**1.41**		0.0541	0.0116	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1
PCB-1268	**0.814**		0.0541	0.0115	mg/Kg	☼	09/29/23 15:37	10/04/23 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*37*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*
Tetrachloro-m-xylene	*38*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.3**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**98.7**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-22

Date Collected: 09/27/23 15:00
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-2

Matrix: Solid
Percent Solids: 97.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0540	0.0389	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1221	ND		0.0540	0.0159	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1232	ND		0.0540	0.0149	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1242	ND		0.0540	0.00853	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1248	ND		0.0540	0.0169	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1254	ND		0.0540	0.0420	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1262	ND		0.0540	0.0126	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1260	**0.234**		0.0540	0.0116	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1
PCB-1268	**0.196**		0.0540	0.0115	mg/Kg	☼	09/29/23 15:37	10/04/23 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*
Tetrachloro-m-xylene	*78*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*09/29/23 15:37*	*10/04/23 20:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.1**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**97.9**		0.1	0.1	%			10/02/23 10:38	1

Client Sample ID: ATM-CC-23 — Lab Sample ID: 620-14190-3

Date Collected: 09/27/23 15:05 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 99.0**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.212	0.153	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1221	ND		0.212	0.0626	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1232	ND		0.212	0.0587	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1242	ND		0.212	0.0335	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1248	ND		0.212	0.0662	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1254	**0.350**		0.212	0.165	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1262	ND		0.212	0.0494	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1260	**4.34**		0.212	0.0456	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5
PCB-1268	**3.23**		0.212	0.0451	mg/Kg	☼	09/29/23 15:37	10/04/23 21:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*
DCB Decachlorobiphenyl (Surr)	*267*	*S1+*	*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*
DCB Decachlorobiphenyl (Surr)	*221*	*S1+*	*30 - 150*	*09/29/23 15:37*	*10/04/23 21:12*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.0**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-24
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-4
Matrix: Solid
Percent Solids: 99.3

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F2	0.0470	0.0338	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1221	ND		0.0470	0.0139	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1232	ND		0.0470	0.0130	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1242	ND		0.0470	0.00742	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1248	ND		0.0470	0.0147	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1254	**0.0757**		0.0470	0.0365	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1262	ND		0.0470	0.0109	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1260	**0.188**	**p F1 F2**	0.0470	0.0101	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1
PCB-1268	**0.223**		0.0470	0.0100	mg/Kg	☼	09/29/23 15:37	10/04/23 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*
Tetrachloro-m-xylene	*41*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*30 - 150*	*09/29/23 15:37*	*10/04/23 21:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.7**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.3**		0.1	0.1	%			10/02/23 10:38	1

Client Sample Results

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-25

Date Collected: 09/27/23 15:25
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-5

Matrix: Solid
Percent Solids: 97.5

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0543	0.0391	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1221	ND		0.0543	0.0160	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1232	ND		0.0543	0.0150	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1242	ND		0.0543	0.00858	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1248	ND		0.0543	0.0170	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1254	**0.192**		0.0543	0.0422	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1262	ND		0.0543	0.0126	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1260	**0.606**		0.0543	0.0117	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1
PCB-1268	**0.362**		0.0543	0.0116	mg/Kg	☼	09/29/23 15:38	10/04/23 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*30 - 150*	*09/29/23 15:38*	*10/04/23 22:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.5**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**97.5**		0.1	0.1	%			10/02/23 10:38	1

Client Sample ID: ATM-CC-26 Lab Sample ID: 620-14190-6

Date Collected: 09/27/23 15:30 **Matrix: Solid**
Date Received: 09/28/23 14:36 **Percent Solids: 98.4**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0588	0.0423	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1221	ND		0.0588	0.0174	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1232	ND		0.0588	0.0163	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1242	ND		0.0588	0.00928	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1248	ND		0.0588	0.0184	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1254	**0.818**		0.0588	0.0457	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1262	ND		0.0588	0.0137	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1260	**1.65**		0.0588	0.0126	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1
PCB-1268	**1.17**		0.0588	0.0125	mg/Kg	☼	09/29/23 15:40	10/04/23 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*
Tetrachloro-m-xylene	*80*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.6**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**98.4**		0.1	0.1	%			10/02/23 10:38	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-27 Lab Sample ID: 620-14190-7

Date Collected: 09/27/23 15:40 **Matrix: Solid**
Date Received: 09/28/23 14:36 **Percent Solids: 96.3**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0533	0.0384	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1221	ND		0.0533	0.0158	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1232	ND		0.0533	0.0148	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1242	ND		0.0533	0.00842	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1248	ND		0.0533	0.0167	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1254	**0.185**		0.0533	0.0415	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1262	ND		0.0533	0.0124	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1260	**0.142**		0.0533	0.0115	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1
PCB-1268	**0.0585**		0.0533	0.0114	mg/Kg	☼	09/29/23 15:40	10/04/23 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*
Tetrachloro-m-xylene	*69*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*30 - 150*	*09/29/23 15:40*	*10/04/23 22:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.7**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**96.3**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-28

Date Collected: 09/27/23 16:05
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-8

Matrix: Solid
Percent Solids: 99.4

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.474	0.341	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1221	ND		0.474	0.140	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1232	ND		0.474	0.131	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1242	ND		0.474	0.0748	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1248	ND		0.474	0.148	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1254	**14.1**		0.474	0.368	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1262	ND		0.474	0.110	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1260	**14.8**		0.474	0.102	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10
PCB-1268	**5.77**		0.474	0.101	mg/Kg	☼	09/29/23 15:40	10/04/23 23:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*
Tetrachloro-m-xylene	*94*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*
DCB Decachlorobiphenyl (Surr)	*483*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*
DCB Decachlorobiphenyl (Surr)	*384*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/04/23 23:16*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.6**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.4**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-29

Date Collected: 09/27/23 15:45
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-9

Matrix: Solid
Percent Solids: 98.7

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0516	0.0372	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1221	ND		0.0516	0.0152	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1232	ND		0.0516	0.0143	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1242	ND		0.0516	0.00815	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1248	ND		0.0516	0.0161	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1254	**0.0574**		0.0516	0.0401	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1262	ND		0.0516	0.0120	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1260	**0.171**		0.0516	0.0111	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1
PCB-1268	**0.133**		0.0516	0.0110	mg/Kg	☼	09/29/23 15:40	10/04/23 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**1.3**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**98.7**		0.1	0.1	%			10/02/23 10:38	1

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-30

Date Collected: 09/27/23 15:55
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-10

Matrix: Solid
Percent Solids: 97.9

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0567	0.0409	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1221	ND		0.0567	0.0168	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1232	ND		0.0567	0.0157	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1242	ND		0.0567	0.00896	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1248	ND		0.0567	0.0177	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1254	**0.479**		0.0567	0.0441	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1262	ND		0.0567	0.0132	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1260	**0.850**		0.0567	0.0122	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1
PCB-1268	**0.487**		0.0567	0.0121	mg/Kg	☼	09/29/23 15:40	10/04/23 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*
Tetrachloro-m-xylene	*62*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*	*09/29/23 15:40*	*10/04/23 23:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**2.1**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**97.9**		0.1	0.1	%			10/02/23 10:38	1

Client Sample Results

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: FD-02-092723 Lab Sample ID: 620-14190-11

Date Collected: 09/27/23 09:00 **Matrix: Solid**
Date Received: 09/28/23 14:36 **Percent Solids: 99.7**

Method: MA DEP 8082 - Polychlorinated Biphenyls (GC/ECD)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.453	0.326	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1221	ND		0.453	0.134	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1232	ND		0.453	0.125	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1242	ND		0.453	0.0715	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1248	ND		0.453	0.141	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1254	**11.2**		0.453	0.352	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1262	ND		0.453	0.105	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1260	**12.8**		0.453	0.0973	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10
PCB-1268	**5.26**		0.453	0.0964	mg/Kg	☼	09/29/23 15:40	10/05/23 00:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*
Tetrachloro-m-xylene	*98*		*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*
DCB Decachlorobiphenyl (Surr)	*334*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*
DCB Decachlorobiphenyl (Surr)	*463*	*S1+*	*30 - 150*	*09/29/23 15:40*	*10/05/23 00:08*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**0.3**		0.1	0.1	%			10/02/23 10:38	1
Percent Solids (EPA Moisture)	**99.7**		0.1	0.1	%			10/02/23 10:38	1

Surrogate Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(30-150)	(30-150)	(30-150)	(30-150)
620-14190-1	ATM-CC-21	37	38	48	58
620-14190-2	ATM-CC-22	79	78	77	75
620-14190-3	ATM-CC-23	72	72	267 S1+	221 S1+
620-14190-4	ATM-CC-24	43	41	82	79
620-14190-4 MS	ATM-CC-24	79	78	85	78
620-14190-4 MSD	ATM-CC-24	41	41	48	40
620-14190-5	ATM-CC-25	77	73	83	71
620-14190-6	ATM-CC-26	82	80	110	100
620-14190-7	ATM-CC-27	72	69	72	59
620-14190-8	ATM-CC-28	92	94	483 S1+	384 S1+
620-14190-9	ATM-CC-29	76	73	75	62
620-14190-10	ATM-CC-30	62	62	76	64
620-14190-11	FD-02-092723	96	98	334 S1+	463 S1+
LCS 620-27346/2-A	Lab Control Sample	81	80	64	64
LCSD 620-27346/3-A	Lab Control Sample Dup	75	76	66	67
MB 620-27346/1-A	Method Blank	76	73	68	68

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (GC/ECD)

Lab Sample ID: 620-14190-4 MS
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-24
Prep Type: Total/NA
Prep Batch: 27345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND	F2	0.390	0.3123		mg/Kg	☼	80	40 - 140
PCB-1260	0.188	p F1 F2	0.390	0.5763		mg/Kg	☼	100	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*30 - 150*
Tetrachloro-m-xylene	*78*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*85*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*78*		*30 - 150*

Lab Sample ID: 620-14190-4 MSD
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: ATM-CC-24
Prep Type: Total/NA
Prep Batch: 27345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND	F2	0.398	0.1777	F2	mg/Kg	☼	45	40 - 140	55	30
PCB-1260	0.188	p F1 F2	0.398	0.3428	F1 F2	mg/Kg	☼	39	40 - 140	51	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*41*		*30 - 150*
Tetrachloro-m-xylene	*41*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*48*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*40*		*30 - 150*

Lab Sample ID: MB 620-27346/1-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27346

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0200	0.0144	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1221	ND		0.0200	0.00591	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1232	ND		0.0200	0.00554	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1242	ND		0.0200	0.00316	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1248	ND		0.0200	0.00625	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1254	ND		0.0200	0.0156	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1262	ND		0.0200	0.00466	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1260	ND		0.0200	0.00430	mg/Kg		09/29/23 15:40	10/04/23 19:08	1
PCB-1268	ND		0.0200	0.00426	mg/Kg		09/29/23 15:40	10/04/23 19:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
Tetrachloro-m-xylene	*73*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*30 - 150*	*09/29/23 15:40*	*10/04/23 19:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (GC/ECD) (Continued)

Lab Sample ID: LCS 620-27346/2-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.167	0.1448		mg/Kg		87	40 - 140		
PCB-1016			0.167	0.1359		mg/Kg		82	40 - 140		
PCB-1260			0.167	0.1678		mg/Kg		101	40 - 140		
PCB-1260			0.167	0.1456		mg/Kg		87	40 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*30 - 150*
Tetrachloro-m-xylene	*80*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*64*		*30 - 150*

Lab Sample ID: LCSD 620-27346/3-A
Matrix: Solid
Analysis Batch: 27460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27346

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.167	0.1440		mg/Kg		86	40 - 140	1	30
PCB-1016			0.167	0.1355		mg/Kg		81	40 - 140	0	30
PCB-1260			0.167	0.1669		mg/Kg		100	40 - 140	1	30
PCB-1260			0.167	0.1462		mg/Kg		88	40 - 140	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*30 - 150*
Tetrachloro-m-xylene	*76*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*66*		*30 - 150*
DCB Decachlorobiphenyl (Surr)	*67*		*30 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 620-14190-2 DU
Matrix: Solid
Analysis Batch: 27376

Client Sample ID: ATM-CC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	2.1			1.8	F3	%				12	5
Percent Solids	97.9			98.2		%				0.2	5

Lab Sample ID: 620-14190-11 DU
Matrix: Solid
Analysis Batch: 27376

Client Sample ID: FD-02-092723
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	0.3			0.7	F3	%				82	5
Percent Solids	99.7			99.3		%				0.4	5

QC Association Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

GC Semi VOA

Prep Batch: 27345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-1	ATM-CC-21	Total/NA	Solid	3540C	
620-14190-2	ATM-CC-22	Total/NA	Solid	3540C	
620-14190-3	ATM-CC-23	Total/NA	Solid	3540C	
620-14190-4	ATM-CC-24	Total/NA	Solid	3540C	
620-14190-5	ATM-CC-25	Total/NA	Solid	3540C	
620-14190-4 MS	ATM-CC-24	Total/NA	Solid	3540C	
620-14190-4 MSD	ATM-CC-24	Total/NA	Solid	3540C	

Prep Batch: 27346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-6	ATM-CC-26	Total/NA	Solid	3540C	
620-14190-7	ATM-CC-27	Total/NA	Solid	3540C	
620-14190-8	ATM-CC-28	Total/NA	Solid	3540C	
620-14190-9	ATM-CC-29	Total/NA	Solid	3540C	
620-14190-10	ATM-CC-30	Total/NA	Solid	3540C	
620-14190-11	FD-02-092723	Total/NA	Solid	3540C	
MB 620-27346/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	3540C	
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	3540C	

Analysis Batch: 27460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-1	ATM-CC-21	Total/NA	Solid	8082	27345
620-14190-2	ATM-CC-22	Total/NA	Solid	8082	27345
620-14190-3	ATM-CC-23	Total/NA	Solid	8082	27345
620-14190-4	ATM-CC-24	Total/NA	Solid	8082	27345
620-14190-5	ATM-CC-25	Total/NA	Solid	8082	27345
620-14190-6	ATM-CC-26	Total/NA	Solid	8082	27346
620-14190-7	ATM-CC-27	Total/NA	Solid	8082	27346
620-14190-8	ATM-CC-28	Total/NA	Solid	8082	27346
620-14190-9	ATM-CC-29	Total/NA	Solid	8082	27346
620-14190-10	ATM-CC-30	Total/NA	Solid	8082	27346
620-14190-11	FD-02-092723	Total/NA	Solid	8082	27346
MB 620-27346/1-A	Method Blank	Total/NA	Solid	8082	27346
LCS 620-27346/2-A	Lab Control Sample	Total/NA	Solid	8082	27346
LCSD 620-27346/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	27346
620-14190-4 MS	ATM-CC-24	Total/NA	Solid	8082	27345
620-14190-4 MSD	ATM-CC-24	Total/NA	Solid	8082	27345

General Chemistry

Analysis Batch: 27376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-1	ATM-CC-21	Total/NA	Solid	Moisture	
620-14190-2	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-3	ATM-CC-23	Total/NA	Solid	Moisture	
620-14190-4	ATM-CC-24	Total/NA	Solid	Moisture	
620-14190-5	ATM-CC-25	Total/NA	Solid	Moisture	
620-14190-6	ATM-CC-26	Total/NA	Solid	Moisture	
620-14190-7	ATM-CC-27	Total/NA	Solid	Moisture	
620-14190-8	ATM-CC-28	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 27376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-14190-9	ATM-CC-29	Total/NA	Solid	Moisture	
620-14190-10	ATM-CC-30	Total/NA	Solid	Moisture	
620-14190-11	FD-02-092723	Total/NA	Solid	Moisture	
620-14190-2 MS	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-2 MSD	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-4 MS	ATM-CC-24	Total/NA	Solid	Moisture	
620-14190-4 MSD	ATM-CC-24	Total/NA	Solid	Moisture	
620-14190-2 DU	ATM-CC-22	Total/NA	Solid	Moisture	
620-14190-11 DU	FD-02-092723	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-21
Date Collected: 09/27/23 14:45
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-21
Date Collected: 09/27/23 14:45
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-1
Matrix: Solid
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 20:36

Client Sample ID: ATM-CC-22
Date Collected: 09/27/23 15:00
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-22
Date Collected: 09/27/23 15:00
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-2
Matrix: Solid
Percent Solids: 97.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 20:54

Client Sample ID: ATM-CC-23
Date Collected: 09/27/23 15:05
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-23
Date Collected: 09/27/23 15:05
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-3
Matrix: Solid
Percent Solids: 99.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		5	27460	SFL	EET NE	10/04/23 21:12

Client Sample ID: ATM-CC-24
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-24
Date Collected: 09/27/23 15:20
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-4
Matrix: Solid
Percent Solids: 99.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:37
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 21:29

Client Sample ID: ATM-CC-25
Date Collected: 09/27/23 15:25
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-25
Date Collected: 09/27/23 15:25
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-5
Matrix: Solid
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27345	BJJ	EET NE	09/29/23 15:38
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 22:23

Client Sample ID: ATM-CC-26
Date Collected: 09/27/23 15:30
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-26
Date Collected: 09/27/23 15:30
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-6
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 22:40

Client Sample ID: ATM-CC-27
Date Collected: 09/27/23 15:40
Date Received: 09/28/23 14:36

Lab Sample ID: 620-14190-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Lab Chronicle

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Client Sample ID: ATM-CC-27
Lab Sample ID: 620-14190-7
Date Collected: 09/27/23 15:40
Matrix: Solid
Date Received: 09/28/23 14:36
Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 22:58

Client Sample ID: ATM-CC-28
Lab Sample ID: 620-14190-8
Date Collected: 09/27/23 16:05
Matrix: Solid
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-28
Lab Sample ID: 620-14190-8
Date Collected: 09/27/23 16:05
Matrix: Solid
Date Received: 09/28/23 14:36
Percent Solids: 99.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/04/23 23:16

Client Sample ID: ATM-CC-29
Lab Sample ID: 620-14190-9
Date Collected: 09/27/23 15:45
Matrix: Solid
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: ATM-CC-29
Lab Sample ID: 620-14190-9
Date Collected: 09/27/23 15:45
Matrix: Solid
Date Received: 09/28/23 14:36
Percent Solids: 98.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 23:33

Client Sample ID: ATM-CC-30
Lab Sample ID: 620-14190-10
Date Collected: 09/27/23 15:55
Matrix: Solid
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Lab Chronicle

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Client Sample ID: ATM-CC-30 — Lab Sample ID: 620-14190-10

Date Collected: 09/27/23 15:55 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 97.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		1	27460	SFL	EET NE	10/04/23 23:51

Client Sample ID: FD-02-092723 — Lab Sample ID: 620-14190-11

Date Collected: 09/27/23 09:00 — **Matrix: Solid**
Date Received: 09/28/23 14:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	27376	ODO	EET NE	10/02/23 10:38

Client Sample ID: FD-02-092723 — Lab Sample ID: 620-14190-11

Date Collected: 09/27/23 09:00 — **Matrix: Solid**
Date Received: 09/28/23 14:36 — **Percent Solids: 99.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3540C			27346	BJJ	EET NE	09/29/23 15:40
Total/NA	Analysis	8082		10	27460	SFL	EET NE	10/05/23 00:08

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Accreditation/Certification Summary

Client: Nobis Engineering, Inc. Job ID: 620-14190-1
Project/Site: American Tissue Mill - Templeton, MA

Laboratory: Eurofins New England

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (GC/ECD)	MA DEP	EET NE
Moisture	Percent Moisture	EPA	EET NE
3540C	Soxhlet Extraction	SW846	EET NE

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET NE = Eurofins New England, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Nobis Engineering, Inc.
Project/Site: American Tissue Mill - Templeton, MA

Job ID: 620-14190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
620-14190-1	ATM-CC-21	Solid	09/27/23 14:45	09/28/23 14:36
620-14190-2	ATM-CC-22	Solid	09/27/23 15:00	09/28/23 14:36
620-14190-3	ATM-CC-23	Solid	09/27/23 15:05	09/28/23 14:36
620-14190-4	ATM-CC-24	Solid	09/27/23 15:20	09/28/23 14:36
620-14190-5	ATM-CC-25	Solid	09/27/23 15:25	09/28/23 14:36
620-14190-6	ATM-CC-26	Solid	09/27/23 15:30	09/28/23 14:36
620-14190-7	ATM-CC-27	Solid	09/27/23 15:40	09/28/23 14:36
620-14190-8	ATM-CC-28	Solid	09/27/23 16:05	09/28/23 14:36
620-14190-9	ATM-CC-29	Solid	09/27/23 15:45	09/28/23 14:36
620-14190-10	ATM-CC-30	Solid	09/27/23 15:55	09/28/23 14:36
620-14190-11	FD-02-092723	Solid	09/27/23 09:00	09/28/23 14:36

620-14190 Chain of Custody

585 Middlesex Street
Lowell, MA 01851

CHAIN-OF-CUSTODY RECORD

14190

Office: (978) 683-0891

Project No.	Project Name:	Project Manager:	Sampler Signatures:	
50000 1.002/400	American Tissue Mill	D Mcgrath		

	Sample ID	Date/Time Sampled	Matrix	No. of Jars	Analysis Required: PCBs 8082 (Soxhlet)	Remarks
-1	ATM-CC-21	9-27-23 1145	Other	1	X	
-2	ATM-CC-22	1500			X	
-3	ATM-CC-23	1505			X	
-4	ATM-CC-24	1520			X	⊗ MS/MSD
-5	ATM-CC-25	1525			X	
-6	ATM-CC-26	1530			X	
-7	ATM-CC-27	1540			X	
-8	ATM-CC-28	1605			X	
-9	ATM-CC-29	1545			X	
-10	ATM-CC-30	1555			X	
-11	FD-02-092723	900			X	
					~~X~~	
Preservative Type:		ICE				
Bottle Type:						

Send Results to: dmcgrath@nobis-group.com. Please also send equis EDD

NOTES: Please use MCP CAM methods.
Use 5 day TAT
Other = concrete

Relinquished By	Day/Time	Received By	Day/Time	Results Needed By:
	9-28-23/1030		9/28/23 1039	
	9-28-23/1436		9/28/23 1436	
				Sheet of

1.4 +0.2 1.6

10/5/2023

Login Sample Receipt Checklist

Client: Nobis Engineering, Inc.

Job Number: 620-14190-1

Login Number: 14190
List Number: 1
Creator: Makhoul, Elie

List Source: Eurofins New England

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-01						2023-MW-02					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-01-0002	2023-MW-01-0204	2023-MW-01-0406	2023-MW-01-0608	2023-MW-01-0810	2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608	2023-MW-02-0810	2023-MW-02-1012
Volatiles																				
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.0978 U	0.106 U	1.12 U	1.02 U	0.953 U	0.926 U	1.12 U	0.995 U	1.31 U	0.775 U	1.03 U	1.27 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	**0.0884 J**	0.0775 U	0.103 U	0.127 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0489 U	0.053 U	0.56 U	**0.392 J**	**0.121 J**	**0.0913 J**	0.559 U	0.498 U	**0.216 J**	0.388 U	0.513 U	0.633 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.00978 U	0.0106 U	0.112 UJ	0.102 UJ	0.0953 UJ	0.0926 UJ	0.112 UJ	0.0995 UJ	0.131 UJ	0.0775 UJ	0.103 UJ	0.127 UJ
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 U	0.112 UJ	0.102 UJ	0.0953 UJ	0.0926 UJ	0.112 UJ	0.0995 UJ	0.131 UJ	0.0775 UJ	0.103 UJ	0.127 UJ
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 UJ	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	0.978 U	1.06 U	11.2 UJ	10.2 UJ	9.53 UJ	9.26 UJ	11.2 UJ	9.95 UJ	13.1 UJ	7.75 UJ	10.3 UJ	12.7 UJ
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.00978 U	0.0106 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-01						2023-MW-02					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-01-0002	2023-MW-01-0204	2023-MW-01-0406	2023-MW-01-0608	2023-MW-01-0810	2023-MW-01-1012	2023-MW-02-0002	2023-MW-02-0204	2023-MW-02-0406	2023-MW-02-0608	2023-MW-02-0810	2023-MW-02-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.0978 U	0.106 U	1.12 UJ	1.02 UJ	0.953 UJ	0.926 UJ	1.12 UJ	0.995 UJ	1.31 UJ	0.775 UJ	1.03 UJ	1.27 UJ
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.00978 U	0.0106 U	0.112 U	0.102 U	0.0953 U	0.0926 U	0.112 U	0.0995 U	0.131 U	0.0775 U	0.103 U	0.127 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0245 U	0.0265 U	0.28 U	0.255 U	0.238 U	0.231 U	0.28 U	0.249 U	0.327 U	0.194 U	0.256 U	0.317 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00489 U	0.0053 U	0.056 UJ	0.051 UJ	0.0476 UJ	0.0463 UJ	0.0559 UJ	0.0498 UJ	0.0653 UJ	0.0388 UJ	0.0513 UJ	0.0633 UJ
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00489 U	0.0053 U	0.056 U	0.051 U	0.0476 U	0.0463 U	0.0559 U	0.0498 U	0.0653 U	0.0388 U	0.0513 U	0.0633 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0147 U	0.0159 U	0.168 U	0.153 U	0.143 U	0.139 U	0.168 U	0.149 U	0.196 U	0.116 U	0.154 U	0.19 U
Semivolatiles																				
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.355 U	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	**0.341 J**	0.393 UJ	0.398 UJ	0.757 UJ	0.672 UJ	0.385 UJ	0.383 UJ	0.332 UJ	0.354 UJ	0.414 UJ
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	**1.34**	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.656**	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	R	R	R	R	R	R	R	R	R	R	R	R
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	**1.21**	0.0824 U	**0.0915 J**	0.0794 U	0.0805 U	0.153 U	0.136 U	**0.0514 J**	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**2.09**	0.0824 U	**0.123 J**	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	**1.05**	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**1.77**	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**1.12**	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	**1.2 J**	0.383 U	0.332 U	0.354 U	0.414 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**1.51**	0.0824 U	**0.106 J**	0.0794 U	0.0805 U	0.153 U	**0.0827 J**	**0.0577 J**	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	**0.525**	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-01						2023-MW-02					
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**	**02/27/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-MW-01-0002**	**2023-MW-01-0204**	**2023-MW-01-0406**	**2023-MW-01-0608**	**2023-MW-01-0810**	**2023-MW-01-1012**	**2023-MW-02-0002**	**2023-MW-02-0204**	**2023-MW-02-0406**	**2023-MW-02-0608**	**2023-MW-02-0810**	**2023-MW-02-1012**
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	**0.77 J**	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**1**	0.0824 U	**0.0928 J**	0.0794 U	0.0805 U	0.153 U	**0.187**	**0.133**	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 UJ	0.199 UJ	0.201 UJ	0.383 UJ	0.34 UJ	0.195 UJ	0.194 UJ	0.168 UJ	0.179 UJ	0.209 UJ
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	**1.08**	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.355 U	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.355 U	0.0824 U	0.155 U	0.0794 U	0.0805 U	0.153 U	0.136 U	0.0779 U	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.889 U	0.206 U	0.388 U	0.199 U	0.201 U	0.383 U	0.34 U	0.195 U	0.194 U	0.168 U	0.179 U	0.209 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	**0.62**	0.0824 U	**0.0968 J**	0.0794 U	0.0805 U	0.153 U	**0.167**	**0.0723 J**	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**2.5**	0.0824 U	**0.213**	0.0794 U	0.0805 U	0.153 U	**0.203**	**0.171**	0.0775 U	0.0672 U	0.0716 U	0.0836 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	1.76 U	0.408 U	0.767 U	0.393 U	0.398 U	0.757 U	0.672 U	0.385 U	0.383 U	0.332 U	0.354 U	0.414 U
PCBs																				
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.967**	**0.0383**	**0.054 J**	0.0235 U	0.0243 U	**0.0199 J**	**0.0309 J**	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	**0.0144 J**	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0423 U	0.0237 U	0.0225 U	0.0235 U	0.0243 U	0.0233 U	0.0205 U	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.967**	**0.0383**	**0.054 J**	0.0235 U	0.0243 U	**0.0199 J**	**0.0453 J**	0.0233 U	0.0228 U	0.0204 U	0.0215 U	0.0248 U
Metals																				
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	4.49 UJ	5.88 UJ	4 U	4.15 U	5.54 U	4.6 U	4.76 U	4.49 U	4.72 U	4.48 U	4.74 U	5.53 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**4.3**	**3.74**	**2.29 J**	**1.69 J**	**2.13 J**	**1.48 J**	**4.78**	**3.12**	**3.48**	**2.21 J**	**2.61 J**	**2.3 J**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**65.2**	**29.4**	**17.5**	**14.3**	**25**	**14.8**	**39.3**	**20.9**	**21.3**	**11.9**	**13.6**	**24.8**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.627**	**0.872**	**0.349 J**	**0.191 J**	**0.296 J**	**0.185 J**	**0.397 J**	**0.451**	**0.357 J**	**0.244 J**	**0.242 J**	**0.294 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	**0.152 J**	0.588 U	0.4 U	0.415 U	0.554 U	0.46 U	0.476 U	0.449 U	0.472 U	0.448 U	0.474 U	0.553 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**6.79**	**8.75**	**7.44**	**3.87**	**5.75**	**8.48**	**12**	**7.41**	**7.88**	**4.17**	**4.15**	**6.05**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	16 U	1.66 U	22.2 U	1.84 U	19 U	18 U	18.9 U	1.79 U	1.9 U	22.1 U
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**29.1 J**	**12 J**	**3.58**	**2.5**	**2.51**	**1.8**	**6.28**	**7.54**	**4.14**	**2.8**	**2.09**	**3.21**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	**0.0732**	**0.0405 J**	0.0706 U	0.0666 U	0.0738 U	0.0652 U	0.0575 U	**0.0408 J**	0.0664 U	0.0588 U	0.0608 U	0.0709 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**3.81**	**2.7**	**2.97**	**2.19**	**3.28**	**2.53**	**5.07**	**2.77**	**3.44**	**1.95**	**1.71**	**3.37**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	4.49 U	5.88 U	4 U	4.15 U	5.54 U	4.6 U	4.76 U	4.49 U	4.72 U	4.48 U	4.74 U	5.53 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	0.898 U	1.18 U	0.801 U	0.829 U	1.11 U	0.92 U	0.952 U	0.898 U	0.944 U	0.895 U	0.949 U	1.11 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.7 U	3.53 U	2.4 U	2.49 U	3.33 U	2.76 U	2.86 U	2.69 U	2.83 U	2.69 U	2.85 U	3.32 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**11.6**	**15.9**	**9.35**	**5.8**	**8.72**	**5.11**	**19.3**	**13.4**	**10.9**	**5.17**	**4.91**	**9.15**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**54.8 J**	**19.1 J**	**29.9**	**33.3**	**12.8**	**17.1**	**22.7**	**16.3**	**17.1**	**9.08**	**7.71**	**13.9**
PFAS																				
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.2 U	3.7 U	3.46 U	3.54 U	3.62 U	3.43 U	3.08 U	3.36 U	3.25 U	2.97 U	3 U	3.5 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U	2 UJ	2.33 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U	2 UJ	2.33 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.2 U	3.7 U	3.46 U	3.54 U	3.62 U	3.43 U	3.08 U	3.36 UJ	3.25 U	2.97 U	3 UJ	3.5 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-01						2023-MW-02					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-MW-01-0002**	**2023-MW-01-0204**	**2023-MW-01-0406**	**2023-MW-01-0608**	**2023-MW-01-0810**	**2023-MW-01-1012**	**2023-MW-02-0002**	**2023-MW-02-0204**	**2023-MW-02-0406**	**2023-MW-02-0608**	**2023-MW-02-0810**	**2023-MW-02-1012**
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U	2 U	2.33 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.13 U	2.47 UJ	2.31 UJ	2.36 U	2.41 U	2.29 U	2.06 UJ	2.24 UJ	2.16 UJ	1.98 UJ	R	2.33 UJ
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.13 UJ	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.13 U	2.47 UJ	2.31 UJ	2.36 U	2.41 U	2.29 U	2.06 UJ	2.24 UJ	2.16 UJ	R	R	2.33 UJ
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.13 UJ	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 UJ	2.16 U	1.98 U	2 UJ	2.33 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 UJ	0.7 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.13 U	2.47 U	2.31 U	2.36 U	2.41 U	2.29 U	2.06 U	2.24 U	2.16 U	1.98 U	2 U	2.33 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 U	0.7 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 UJ	0.7 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	**0.299 J**	0.649 U	0.594 U	0.601 U	0.7 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 UJ	0.7 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 UJ	0.7 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 U	0.7 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	**0.386 J**	0.649 U	0.594 U	0.601 U	0.7 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 UJ	0.7 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 UJ	0.7 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 U	0.649 U	0.594 U	0.601 U	0.7 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.64 U	0.74 U	0.692 U	0.707 U	0.724 U	0.686 U	0.617 U	0.671 UJ	0.649 U	0.594 U	0.601 U	0.7 U
VPH																				
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0575 U	0.0516 U	0.081 U	0.0553 U	0.0502 U	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U	0.0521 U	0.0688 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.288 U	0.258 U	0.405 U	0.276 U	0.251 U	0.77 U	0.737 U	0.389 U	0.717 U	0.262 U	0.26 U	0.344 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.288 U	0.258 U	0.405 U	0.276 U	0.251 U	0.77 U	0.737 U	0.389 U	0.717 U	0.262 U	0.26 U	0.344 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.288 U	0.258 U	0.405 U	0.276 U	0.251 U	0.77 U	0.737 U	0.389 U	**3.9**	0.262 U	0.26 U	**0.0866 J**
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.288 U	0.258 U	0.405 U	0.276 U	0.251 U	0.77 U	0.737 U	0.389 U	**3.44**	0.262 U	0.26 U	0.344 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.288 U	0.258 U	0.405 U	0.276 U	0.251 U	0.77 U	0.737 U	0.389 U	**7.34**	0.262 U	0.26 U	**0.178 J**
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0575 U	0.0516 U	0.081 U	0.0553 U	0.0502 U	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U	0.0521 U	0.0688 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.115 U	0.103 U	0.162 U	0.111 U	0.1 U	0.308 U	0.295 U	0.156 U	0.287 U	0.105 U	0.104 U	0.138 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0575 U	0.0516 U	0.081 U	0.0553 U	0.0502 U	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U	0.0521 U	0.0688 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0575 U	0.0516 U	0.101 U	0.0553 U	0.0502 U	0.154 U	0.147 U	0.0778 U	**1.37**	0.0523 U	0.0521 U	0.0743 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0575 U	0.0516 U	0.081 U	0.0553 U	0.0502 U	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U	0.0521 U	0.0688 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0575 U	0.0516 U	0.081 U	0.0553 U	0.0502 U	0.154 U	0.147 U	0.0778 U	0.143 U	0.0523 U	0.0521 U	0.0688 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-03						2023-MW-04					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/06/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810	2023-MW-03-1012	2023-MW-04-0002	2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-04-0810	2023-MW-04-1012
Volatiles																				
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.0929 U	0.0888 U	1.03 U	0.104 U	0.0882 U	0.0898 U	0.104 U	0.0957 U	0.117 U	0.119 U	0.0951 U	0.111 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0464 U	0.0444 U	**0.408 J**	0.0519 U	0.0441 U	0.0449 U	0.0522 U	0.0479 U	0.0587 U	0.0593 U	0.0475 U	0.0556 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 UJ	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	0.929 U	0.888 U	10.3 U	1.04 U	0.882 U	0.898 U	1.04 U	0.957 U	1.17 U	1.19 U	0.951 U	1.11 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.00929 U	0.00888 U	0.0515 U	0.0104 U	0.00882 U	0.00898 UJ	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.0515 U	0.0104 U	0.00882 U	0.00898 UJ	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-03						2023-MW-04					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/06/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-03-0002	2023-MW-03-0204	2023-MW-03-0406	2023-MW-03-0608	2023-MW-03-0810	2023-MW-03-1012	2023-MW-04-0002	2023-MW-04-0204	2023-MW-04-0406	2023-MW-04-0608	2023-MW-04-0810	2023-MW-04-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.0929 U	0.0888 U	1.03 U	0.104 U	0.0882 U	0.0898 U	0.104 U	0.0957 U	0.117 U	0.119 U	0.0951 U	0.111 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 UJ	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.00929 U	0.00888 U	0.103 U	0.0104 U	0.00882 U	0.00898 U	0.0104 U	0.00957 U	0.0117 U	0.0119 U	0.00951 U	0.0111 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0232 U	0.0222 U	0.257 U	0.026 U	0.022 U	0.0225 U	0.0261 U	0.0239 U	0.0294 U	0.0296 U	0.0238 U	0.0278 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00464 U	0.00444 U	0.0515 U	0.00519 U	0.00441 U	0.00449 U	0.00522 U	0.00479 U	0.00587 U	0.00593 U	0.00475 U	0.00556 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0139 U	0.0133 U	0.154 U	0.0156 U	0.0132 U	0.0135 U	0.0157 U	0.0144 U	0.0176 U	0.0178 U	0.0143 U	0.0167 U
Semivolatiles																				
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	0.73 U	0.716 U	0.793 U	0.839 U	0.82 U	0.793 UJ	1.38 UJ	0.7 UJ	0.78 UJ	0.869 UJ	0.844 UJ	0.793 UJ
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 UJ	0.692 U	0.35 UJ	0.39 UJ	0.435 UJ	0.422 UJ	0.396 UJ
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-03						2023-MW-04					
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/06/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-MW-03-0002**	**2023-MW-03-0204**	**2023-MW-03-0406**	**2023-MW-03-0608**	**2023-MW-03-0810**	**2023-MW-03-1012**	**2023-MW-04-0002**	**2023-MW-04-0204**	**2023-MW-04-0406**	**2023-MW-04-0608**	**2023-MW-04-0810**	**2023-MW-04-1012**
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 UJ	0.22 U	0.214 U	0.201 U
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.185 U	0.181 U	0.201 U	0.212 U	0.208 U	0.201 U	0.35 U	0.177 U	0.197 U	0.22 U	0.214 U	0.201 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	**0.222 J**	0.422 U	0.396 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	0.14 U	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0738 U	0.0723 U	0.0802 U	0.0848 U	0.0829 U	0.0801 U	**0.0807 J**	0.0707 U	0.0788 U	0.0878 U	0.0853 U	0.0801 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.365 U	0.358 U	0.397 U	0.42 U	0.41 U	0.397 U	0.692 U	0.35 U	0.39 U	0.435 U	0.422 U	0.396 U
PCBs																				
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	**0.0485**	0.024 U	**0.792**	**0.32**	**0.16**	**0.141**	0.0253 U	0.0239 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	0.0256 U	0.024 U	0.0193 U	0.0212 U	0.0228 U	0.0262 U	0.0253 U	0.0239 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	0.0218 U	0.0216 U	0.0248 U	0.0257 U	**0.0485**	0.024 U	**0.792**	**0.32**	**0.16**	**0.141**	0.0253 U	0.0239 U
Metals																				
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	4.51 U	4.62 U	4.9 U	4.71 U	5.46 U	5.25 U	5.31 U	4.56 U	5.89 U	4.61 U	**1.69 J**	5.6 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**3.58**	**2.31 J**	**6.19**	**6.73**	**8.38**	**6.25**	**3.35**	**2.52 J**	**2.48 J**	**8.2**	**9.06**	**4.76**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**12.5**	**15.4**	**91.7**	**116**	**122**	**109**	**35.2**	**21.6**	**17.7**	**94.7**	**103**	**52.8**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.223 J**	**0.207 J**	**1.35**	**1.08**	**1.12**	**1.44**	**0.262 J**	**0.203 J**	**0.163 J**	**1.41**	**1.51**	**0.705**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.451 U	0.462 U	0.49 U	0.471 U	0.546 U	0.525 U	0.531 U	0.456 U	0.589 U	0.461 U	0.447 U	0.56 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**3.34**	**3.72**	**26.9**	**35.5**	**36.2**	**32**	**6.28**	**3.98**	**3.87**	**25.3**	**28.6**	**14.6**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	**27.8**	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**3.19**	**2.8**	**8.91**	**11.3**	**11.9**	**10.2 J+**	**5.41**	**4.24**	**3.2**	**12.5**	**13.8**	**5.16**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.0677 U	0.0655 U	0.0695 U	0.0755 U	0.0773 U	0.0703 U	0.0616 U	0.0596 U	0.0714 U	0.0751 U	**0.0374 J**	0.0716 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**1.68**	**2.07**	**13.5**	**16.4**	**20.9**	**21**	**2.49**	**2.09**	**1.76**	**13.3**	**16.1**	**7.09**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	4.51 U	4.62 U	4.9 U	**2.2 J**	**3.3 J**	5.25 U	5.31 U	4.56 U	5.89 U	4.61 U	4.47 U	5.6 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	0.902 U	0.925 U	0.981 U	0.943 U	1.09 U	**0.501 J**	1.06 U	0.912 U	1.18 U	0.921 U	0.895 U	1.12 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.71 U	2.77 U	29.4 U	28.3 U	32.8 U	31.5 U	3.18 U	2.74 U	**2.16 J**	27.6 U	26.8 U	33.6 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**5.73**	**6.05**	**44.9**	**55.5**	**60**	**53.3**	**7.71**	**6.38**	**6.04**	**42.3**	**47.1**	**21.6**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**8.9**	**9.59**	**54.7**	**67.9**	**81.3**	**74.6**	**23.3**	**17.8**	**19.8**	**59.5**	**65.5**	**35**
PFAS																				
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 UJ	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 UJ	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.22 U	3.03 U	3.73 U	3.83 U	3.68 U	3.54 U	2.98 U	3.23 U	3.53 U	3.71 U	3.89 U	3.66 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.22 U	3.03 U	3.73 U	3.83 U	3.68 U	3.54 U	2.98 U	3.23 U	3.53 U	3.71 U	3.89 U	3.66 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-03						2023-MW-04					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/06/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-MW-03-0002**	**2023-MW-03-0204**	**2023-MW-03-0406**	**2023-MW-03-0608**	**2023-MW-03-0810**	**2023-MW-03-1012**	**2023-MW-04-0002**	**2023-MW-04-0204**	**2023-MW-04-0406**	**2023-MW-04-0608**	**2023-MW-04-0810**	**2023-MW-04-1012**
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.15 UJ	2.02 U	2.49 UJ	2.55 UJ	2.45 UJ	2.36 UJ	1.98 UJ	2.15 U	2.36 U	2.47 UJ	2.59 UJ	2.44 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	R	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.15 UJ	2.02 U	2.49 UJ	2.55 UJ	2.45 UJ	2.36 UJ	1.98 UJ	2.15 UJ	2.36 U	2.47 UJ	2.59 UJ	2.44 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	R	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.15 U	2.02 U	2.49 U	2.55 U	2.45 U	2.36 U	1.98 U	2.15 U	2.36 U	2.47 U	2.59 U	2.44 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 UJ	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.644 U	0.605 U	0.746 U	0.765 U	0.736 U	0.707 U	0.595 U	0.646 U	0.707 U	0.742 U	0.778 U	0.732 U
VPH																				
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U	0.0584 U	0.0527 U	0.0554 U	0.0532 U	0.0572 U	0.0506 U	0.0566 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U	0.292 U	0.264 U	0.277 U	0.266 U	0.286 U	0.253 U	0.283 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U	0.292 U	0.264 U	0.277 U	0.266 U	0.286 U	0.253 U	0.283 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U	0.292 U	0.264 U	0.277 U	0.266 U	0.286 U	0.253 U	0.283 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U	0.292 U	0.264 U	0.277 U	0.266 U	0.286 U	0.253 U	0.283 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.236 U	0.224 U	0.243 U	0.259 U	0.244 U	0.292 U	0.264 U	0.277 U	0.266 U	0.286 U	0.253 U	0.283 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U	0.0584 U	0.0527 U	0.0554 U	0.0532 U	0.0572 U	0.0506 U	0.0566 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.0944 U	0.0895 U	0.097 U	0.103 U	0.0975 U	0.117 U	0.105 U	0.111 U	0.106 U	0.114 U	0.101 U	0.113 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U	0.0584 U	0.0527 U	0.0554 U	0.0532 U	0.0572 U	0.0506 U	0.0566 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U	0.0584 U	0.0527 U	0.0554 U	0.0532 U	0.0572 U	0.0506 U	0.0566 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U	0.0584 U	0.0527 U	0.0554 U	0.0532 U	0.0572 U	0.0506 U	0.0566 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0472 U	0.0448 U	0.0485 U	0.0517 U	0.0487 U	0.0584 U	0.0527 U	0.0554 U	0.0532 U	0.0572 U	0.0506 U	0.0566 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-05						2023-MW-06					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0406	2023-MW-05-0608	2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0002	2023-MW-06-0204	2023-MW-06-0406	2023-MW-06-0608	2023-MW-06-0810	2023-MW-06-1012
Volatiles																				
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.104 U	0.117 U	0.101 U	0.0916 U	0.0942 U	0.0867 U	0.105 U	0.113 U	0.1 U	0.106 U	0.11 U	0.102 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0522 U	0.0586 U	0.0506 U	0.0458 U	0.0471 U	0.0434 U	0.0527 U	0.0565 U	0.05 U	0.0532 U	0.0552 U	0.0509 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	**0.00841 J**	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	1.04 U	1.17 U	1.01 U	0.916 U	0.942 U	0.867 U	1.05 U	1.13 U	1 U	1.06 U	1.1 U	1.02 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-05						2023-MW-06					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-05-0002	2023-MW-05-0204	2023-MW-05-0406	2023-MW-05-0608	2023-MW-05-0810	2023-MW-05-1012	2023-MW-06-0002	2023-MW-06-0204	2023-MW-06-0406	2023-MW-06-0608	2023-MW-06-0810	2023-MW-06-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.104 U	0.117 U	0.101 U	0.0916 U	0.0942 U	0.0867 U	0.105 U	0.113 U	0.1 U	0.106 U	0.11 U	0.102 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.0104 U	0.0117 U	0.0101 U	0.00916 U	0.00942 U	0.00867 U	0.0105 U	0.0113 U	0.01 U	0.0106 U	0.011 U	0.0102 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0261 U	0.0293 U	0.0253 U	0.0229 U	0.0235 U	0.0217 U	0.0264 U	0.0282 U	0.025 U	0.0266 U	0.0276 U	0.0254 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00522 U	0.00586 U	0.00506 U	0.00458 U	0.00471 U	0.00434 U	0.00527 U	0.00565 U	0.005 U	0.00532 U	0.00552 U	0.00509 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0157 U	0.0176 U	0.0152 U	0.0137 U	0.0141 U	0.013 U	0.0158 U	0.0169 U	0.015 U	0.016 U	0.0166 U	0.0153 U
Semivolatiles																				
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	**0.833**	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	0.733 U	0.755 U	0.78 U	0.741 U	0.736 U	0.743 U	0.719 U	0.706 U	0.701 U	0.728 U	0.833 U	0.801 U
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	**0.0819**	**0.123**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**0.104**	**0.125**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	**0.119**	**0.145**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.111**	**0.133**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.102**	**0.165**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 UJ	0.353 UJ	0.35 UJ	0.364 UJ	0.417 UJ	0.401 UJ
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	**10.7**	**0.972**	0.197 U	0.187 U	0.186 U	0.188 U	**0.0798 J**	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	**1.05**	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.131**	**0.219**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-05						2023-MW-06					
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-MW-05-0002**	**2023-MW-05-0204**	**2023-MW-05-0406**	**2023-MW-05-0608**	**2023-MW-05-0810**	**2023-MW-05-1012**	**2023-MW-06-0002**	**2023-MW-06-0204**	**2023-MW-06-0406**	**2023-MW-06-0608**	**2023-MW-06-0810**	**2023-MW-06-1012**
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	**2.06**	**3.19**	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.237**	**0.342**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	**0.0954**	**0.112**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.0741 U	0.0763 U	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.186 U	0.191 U	0.197 U	0.187 U	0.186 U	0.188 U	0.182 U	0.179 U	0.177 U	0.184 U	0.211 U	0.203 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	**0.114**	**0.249**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.219**	**0.387**	0.0788 U	0.0749 U	0.0744 U	0.0751 U	0.0727 U	0.0714 U	0.0708 U	0.0735 U	0.0842 U	0.081 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.367 U	0.378 U	0.39 U	0.37 U	0.368 U	0.372 U	0.359 U	0.353 U	0.35 U	0.364 U	0.417 U	0.401 U
PCBs																				
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	1.17 U	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	1.17 U	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	1.17 U	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	1.17 U	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	1.17 U	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**26.3**	**1.08**	**0.0712**	**0.0338**	0.0223 U	0.022 U	**0.253**	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	**3.59**	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	1.17 U	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	1.17 U	0.0446 U	0.0246 U	0.0221 U	0.0223 U	0.022 U	0.0218 U	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**29.89**	**1.08**	**0.0712**	**0.0338**	0.0223 U	0.022 U	**0.253**	0.0217 U	0.0208 U	0.0214 U	0.0252 U	0.0239 U
Metals																				
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	**8.25**	**3.08 J**	5.59 U	5.33 U	4.29 U	5.46 U	5.42 U	5.12 U	4.66 U	4.12 U	4.51 U	5.82 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**6.48**	**6.18**	3.35 U	3.2 U	2.57 U	3.28 U	**2.07 J**	**4.35**	**2.47 J**	**3.33**	**5.58**	**2.72 J**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**3,780**	**531**	**15.5**	**13.5**	**22.1**	**9.86**	**13**	**12.3**	**11.9**	**18.2**	**44.5**	**17.7**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.642**	**0.621**	**0.378 J**	**0.216 J**	**0.208 J**	**0.155 J**	**0.256 J**	**0.23 J**	**0.206 J**	**0.288 J**	**0.585**	**0.312 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	**1.08**	**0.216 J**	0.559 U	0.533 U	0.429 U	0.546 U	0.542 U	0.512 U	0.466 U	0.412 U	0.451 U	0.582 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**27.1**	**10.3**	**4.99**	**3.38**	**5.1**	**6.38**	**3.63**	**3.2**	**2.95**	**5.75**	**11.4**	**6.69**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**676**	**76.1**	**5.35**	**3.86**	**2.54**	**2.12**	**2.64**	**2.74**	**2.16**	**2.43**	**4.75**	**2.11**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	**0.0307 J**	**0.0264 J**	0.0687 U	0.0691 U	0.0657 U	0.0688 U	0.0663 U	0.0657 U	0.0617 U	0.0621 U	0.0722 U	0.0736 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**8.71**	**10.3**	**1.6**	**1.76**	**2.94**	**2.02**	**1.76**	**1.57**	**1.32**	**2.49**	**5.39**	**2.43**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	5.18 U	4.77 U	5.59 U	5.33 U	4.29 U	5.46 U	5.42 U	5.12 U	4.66 U	4.12 U	4.51 U	5.82 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	1.04 U	0.954 U	1.12 U	1.07 U	0.858 U	1.09 U	1.08 U	1.02 U	0.932 U	0.824 U	0.903 U	1.16 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.11 U	2.86 U	3.35 U	3.2 U	2.57 U	3.28 U	3.25 U	3.07 U	2.8 U	2.47 U	27.1 U	3.49 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**14**	**11.9**	**3.83**	**4.65**	**8.26**	**4.16**	**6.04**	**5.25**	**4.39**	**9.14**	**19.6**	**7.44**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**1,970**	**302**	**5.43**	**7.78**	**11.8**	**7.25**	**8.9**	**6.55**	**5.24**	**11.2**	**24.2**	**9.76**
PFAS																				
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.38 U	3.27 U	3.54 U	3.32 U	3.25 U	3.28 U	3.25 U	3.16 U	3.07 U	3.07 U	3.75 U	3.46 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.38 U	3.27 U	3.54 U	3.32 U	3.25 U	3.28 U	3.25 U	3.16 U	3.07 U	3.07 U	3.75 U	3.46 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-05						2023-MW-06					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-MW-05-0002**	**2023-MW-05-0204**	**2023-MW-05-0406**	**2023-MW-05-0608**	**2023-MW-05-0810**	**2023-MW-05-1012**	**2023-MW-06-0002**	**2023-MW-06-0204**	**2023-MW-06-0406**	**2023-MW-06-0608**	**2023-MW-06-0810**	**2023-MW-06-1012**
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.25 UJ	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 UJ	2.11 UJ	2.04 U	2.04 U	2.5 UJ	2.31 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.25 UJ	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 UJ	2.11 UJ	2.04 UJ	2.04 U	2.5 UJ	2.31 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.25 U	2.18 U	2.36 U	2.22 U	2.17 U	2.18 U	2.17 U	2.11 U	2.04 U	2.04 U	2.5 U	2.31 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.676 U	0.654 U	0.709 U	0.665 U	0.651 U	0.655 U	0.65 U	0.632 U	0.613 U	0.613 U	0.751 U	0.692 U
VPH																				
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0604 U	0.0527 U	0.0688 U	0.0486 U	0.0486 U	0.0723 U	0.0646 U	0.054 U	0.0565 U	0.0531 U	0.0562 U	0.0532 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	**0.19 J**	**0.142 J**	0.344 U	0.243 U	0.243 U	0.362 U	0.323 U	0.27 U	0.283 U	0.265 U	0.281 U	0.266 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	**0.219 J**	**0.142 J**	0.344 U	0.243 U	0.243 U	0.362 U	0.323 U	0.27 U	0.283 U	0.265 U	0.281 U	0.266 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.302 U	0.263 U	0.344 U	0.243 U	0.243 U	0.362 U	0.323 U	0.27 U	0.283 U	0.265 U	0.281 U	0.266 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.302 U	0.263 U	0.344 U	0.243 U	0.243 U	0.362 U	0.323 U	0.27 U	0.283 U	0.265 U	0.281 U	0.266 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.302 U	0.263 U	0.344 U	0.243 U	0.243 U	0.362 U	0.323 U	0.27 U	0.283 U	0.265 U	0.281 U	0.266 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0604 U	0.0527 U	0.0688 U	0.0486 U	0.0486 U	0.0723 U	0.0646 U	0.054 U	0.0565 U	0.0531 U	0.0562 U	0.0532 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.121 U	0.105 U	0.138 U	0.0972 U	0.0972 U	0.145 U	0.129 U	0.108 U	0.113 U	0.106 U	0.112 U	0.106 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0604 U	0.0527 U	0.0688 U	0.0486 U	0.0486 U	0.0723 U	0.0646 U	0.054 U	0.0565 U	0.0531 U	0.0562 U	0.0532 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0604 U	0.0527 U	0.0688 U	0.0486 U	0.0486 U	0.0723 U	0.0646 U	0.054 U	0.0565 U	0.0531 U	0.0562 U	0.0532 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0604 U	0.0527 U	0.0688 U	0.0486 U	0.0486 U	0.0723 U	0.0646 U	0.054 U	0.0565 U	0.0531 U	0.0562 U	0.0532 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	**0.0292 J**	0.0527 U	0.0688 U	0.0486 U	0.0486 U	0.0723 U	0.0646 U	0.054 U	0.0565 U	0.0531 U	0.0562 U	0.0532 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-07						2023-MW-08						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/06/2023	03/06/2023	03/06/2023		03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-07-0002	2023-MW-07-0204	2023-MW-07-0406	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-MW-08-0002	2023-MW-08-0204	2023-MW-08-0406	2023-FD-08	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Volatiles																					
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00722 UJ	0.00551 U	**0.00521 J**	0.00568 U	0.00577 U	0.0053 U	**0.00551 J**	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 U	0.00466 U	0.00574 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00722 UJ	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00722 UJ	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00722 UJ	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.144 U	0.11 U	0.112 U	0.114 U	0.115 U	0.106 U	0.116 U	0.103 U	0.107 U	0.105 U	0.116 U	0.0933 U	0.115 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.0144 UJ	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0722 UJ	0.0551 U	0.0561 U	0.0568 U	0.0577 U	0.053 U	0.0579 U	0.0517 U	0.0537 U	0.0525 U	0.0582 U	0.0466 U	0.0574 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00722 UJ	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 UJ	0.0103 UJ	0.0107 UJ	0.0105 UJ	0.0116 UJ	0.00933 UJ	0.0115 UJ
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	1.44 U	1.1 U	1.12 U	1.14 U	1.15 U	1.06 U	1.16 U	1.03 U	1.07 U	1.05 U	1.16 U	0.933 U	1.15 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 UJ	0.0103 UJ	0.0107 UJ	0.0105 UJ	0.0116 UJ	0.00933 UJ	0.0115 UJ
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00722 UJ	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 UJ	0.0103 UJ	0.0107 UJ	0.0105 UJ	0.0116 UJ	0.00933 UJ	0.0115 UJ
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-07						2023-MW-08						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/06/2023	03/06/2023	03/06/2023		03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-07-0002	2023-MW-07-0204	2023-MW-07-0406	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-MW-08-0002	2023-MW-08-0204	2023-MW-08-0406	2023-FD-08	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.144 U	0.11 U	0.112 U	0.114 U	0.115 U	0.106 U	0.116 U	0.103 U	0.107 U	0.105 U	0.116 U	0.0933 U	0.115 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 UJ	0.00517 UJ	0.00537 UJ	0.00525 UJ	0.00582 UJ	0.00466 UJ	0.00574 UJ
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.0144 U	0.011 U	0.0112 U	0.0114 U	0.0115 U	0.0106 U	0.0116 U	0.0103 U	0.0107 U	0.0105 U	0.0116 U	0.00933 U	0.0115 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0361 UJ	0.0276 U	0.0281 U	0.0284 U	0.0288 U	0.0265 U	0.029 U	0.0259 U	0.0269 U	0.0263 U	0.0291 U	0.0233 U	0.0287 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00722 U	0.00551 U	0.00561 U	0.00568 U	0.00577 U	0.0053 U	0.00579 U	0.00517 U	0.00537 U	0.00525 U	0.00582 U	0.00466 U	0.00574 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0217 U	0.0165 U	0.0168 U	0.0171 U	0.0173 U	0.0159 U	0.0174 U	0.0155 U	0.0161 U	0.0158 U	0.0175 U	0.014 U	0.0172 U
Semivolatiles																					
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	**0.256**	0.0757 U	0.143 U	0.0717 U	0.0684 U	0.0913 U	**0.236**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	R	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	R	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	R	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	R	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.148 U	0.0757 U	0.143 U	0.0717 U	0.0684 U	0.0913 U	0.0679 U	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	**0.613**	0.0757 U	**0.112 J**	0.0717 U	0.0684 U	0.0913 U	**0.22**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	R	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.758 J**	0.0757 U	**0.151**	0.0717 U	0.0684 U	0.0913 U	**0.257**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	**0.666 J**	0.749 UJ	1.42 UJ	0.71 UJ	0.677 UJ	0.903 UJ	0.672 UJ	0.705 UJ	0.723 UJ	0.732 UJ	0.73 UJ	0.768 UJ	0.752 UJ
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	**2.78 J**	0.0757 U	**0.32**	0.0717 U	0.0684 U	0.0913 U	**0.755**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**1.67 J**	0.0757 U	**0.195**	0.0717 U	0.0684 U	0.0913 U	**0.424**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	**2.75 J**	0.0757 U	**0.253**	0.0717 U	0.0684 U	0.0913 U	**0.751**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.823**	0.0757 U	**0.158**	0.0717 U	0.0684 U	0.0913 U	**0.22**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**1.67 J**	0.0757 U	**0.221**	0.0717 U	0.0684 U	0.0913 U	**0.553**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 UJ	**1.03 J**	0.361 UJ	0.366 UJ	0.365 UJ	0.384 UJ	0.376 UJ
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	**4.12**	0.189 U	**0.78**	0.18 U	0.171 U	0.229 U	**0.317**	0.178 U	**0.291**	**0.171 J**	0.185 U	0.194 U	**0.227**
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	**0.11 J**	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	**0.276 J**	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	**0.0924 J**	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**3.08 J**	0.0757 U	**0.333**	0.0717 U	0.0684 U	0.0913 U	**1.01**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	**0.561**	0.0757 U	0.143 U	0.0717 U	0.0684 U	0.0913 U	**0.116**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-07						2023-MW-08						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/06/2023	03/06/2023	03/06/2023		03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-07-0002	2023-MW-07-0204	2023-MW-07-0406	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-MW-08-0002	2023-MW-08-0204	2023-MW-08-0406	2023-FD-08	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	**0.376**	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	**0.0708 J**	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	**1.27**	0.374 U	**0.1 J**	0.355 U	0.338 U	0.452 U	**0.391**	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**2.93 J**	0.0757 U	**0.314**	0.0717 U	0.0684 U	0.0913 U	**1.95**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.148 U	0.0757 U	0.143 U	0.0717 U	0.0684 U	0.0913 U	0.0679 U	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.371 UJ	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	**0.942**	0.0757 U	**0.146**	0.0717 U	0.0684 U	0.0913 U	**0.254**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	**0.835**	0.0757 U	0.143 U	0.0717 U	0.0684 U	0.0913 U	**0.189**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	**0.158**	0.0757 U	0.143 U	0.0717 U	0.0684 U	0.0913 U	**0.25**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.371 U	0.189 U	0.358 U	0.18 U	0.171 U	0.229 U	0.17 U	0.178 U	0.183 U	0.185 U	0.185 U	0.194 U	0.19 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	**1.18 J**	0.0757 U	**0.133 J**	0.0717 U	0.0684 U	0.0913 U	**0.532**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.734 U	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**2.32 J**	0.0757 U	**0.276**	0.0717 U	0.0684 U	0.0913 U	**1.83**	0.0712 U	0.073 U	0.074 U	0.0738 U	0.0776 U	0.076 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.734 UJ	0.374 U	0.708 U	0.355 U	0.338 U	0.452 U	0.336 U	0.352 U	0.361 U	0.366 U	0.365 U	0.384 U	0.376 U
PCBs																					
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**8.6**	**0.0313**	**0.373**	0.0214 U	0.0207 U	0.0273 U	**0.913**	0.0208 U	**0.0301**	**0.032**	0.0223 U	0.0225 U	0.022 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.221 U	0.0222 U	0.0214 U	0.0214 U	0.0207 U	0.0273 U	0.0212 U	0.0208 U	0.0223 U	0.0221 U	0.0223 U	0.0225 U	0.022 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**8.6**	**0.0313**	**0.373**	0.0214 U	0.0207 U	0.0273 U	**0.913**	0.0208 U	**0.0301**	**0.032**	0.0223 U	0.0225 U	0.022 U
Metals																					
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	5.16 U	5.13 U	4.65 U	4 U	3.99 U	6.54 U	5.15 U	3.75 U	4.4 U	5.04 U	4.48 U	4.06 U	4.55 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**8.5**	**1.93 J**	**1.64 J**	**2.79**	**2.1 J**	**10.6**	**11.7**	**4.03**	**2.01 J**	**2.77 J**	2.69 U	2.44 U	**1.74 J**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**162 J**	**17.6**	**16.8**	**14.8**	**13**	**155**	**32.7**	**15.1**	**13.5**	**12.6**	**12.4**	**12.1**	**12.7**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.282 J**	**0.469 J**	**0.21 J**	**0.233 J**	**0.146 J**	**1.82**	**0.222 J**	**0.206 J**	**0.368 J**	**0.491 J**	**0.218 J**	**0.149 J**	**0.11 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.516 U	0.513 U	0.465 U	0.4 U	0.399 U	0.654 U	**0.222 J**	0.375 U	0.44 U	0.504 U	0.448 U	0.406 U	0.455 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**4.93**	**6.16**	**7.32**	**9.2**	**3.84**	**37.7**	**7.77**	**4.18**	**5.3**	**8.4**	**5.13**	**4.89**	**4.82**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**19.3 J+**	**7.22**	**3.37**	**3.94**	**2.32**	**14.7**	**35.4 J+**	**3.68 J+**	**6.93 J+**	**8.56 J+**	**3.91 J+**	**3.94 J+**	**3.17 J+**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	**0.192**	0.0683 U	0.0632 U	0.0599 U	0.0607 U	0.0806 U	**0.0628**	**0.0301 J**	**0.0534 J**	**0.0385 J**	**0.0255 J**	0.0679 U	0.0687 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**2.34**	**2.83**	**2.3**	**2.19**	**1.67**	**22.5**	**5.09**	**2.01**	**2.31**	**2.95**	**3.17**	**2.69**	**2.76**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	5.16 U	5.13 U	4.65 U	4 U	3.99 U	6.54 U	5.15 U	3.75 U	**1.49 J**	5.04 U	4.48 U	4.06 U	4.55 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	1.03 U	1.03 U	0.93 U	0.801 U	0.797 U	1.31 U	1.03 U	0.75 U	0.881 U	1.01 U	0.896 U	0.812 U	0.91 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.1 UJ	**2.2 J**	**2.16 J**	2.4 U	**1.21 J**	**13.6**	3.09 U	**1.29 J**	**1.85 J**	3.02 U	**1.37 J**	**1.96 J**	**1.31 J**
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**9.18**	**10.6**	**6.14**	**7.46**	**5.56**	**64.8**	**9.93**	**7.15**	**7.98**	**8.76**	**6.83**	**6.41**	**5.88**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**17.3**	**13.4**	**9.4**	**10.3**	**7.8**	**90.8**	**37.4**	**13.1**	**14.5**	**17.5**	**14.2**	**16.5**	**11.7**
PFAS																					
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.21 U	2.28 U	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 U	2.15 U	2.35 U	2.29 U	2.19 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.21 U	2.28 U	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 U	2.15 U	2.35 U	2.29 U	2.19 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.21 U	2.28 U	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 U	2.15 U	2.35 U	2.29 U	2.19 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.31 U	3.41 U	3.17 U	3.12 U	3.1 U	4.16 U	3.09 U	3.04 U	3.08 U	3.23 U	3.52 U	3.44 U	3.29 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.21 U	2.28 UJ	2.11 U	2.08 U	2.07 U	2.77 U	2.06 UJ	2.02 U	2.05 UJ	2.15 U	2.35 U	2.29 U	2.19 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.21 U	2.28 UJ	2.11 U	2.08 U	2.07 U	2.77 U	2.06 UJ	2.02 U	2.05 UJ	2.15 U	2.35 U	2.29 U	2.19 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.31 U	3.41 UJ	3.17 U	3.12 U	3.1 U	4.16 U	3.09 UJ	3.04 U	3.08 UJ	3.23 U	3.52 U	3.44 U	3.29 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.21 U	2.28 U	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 U	2.15 U	2.35 U	2.29 U	2.19 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-07						2023-MW-08						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/06/2023	03/06/2023	03/06/2023		03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-07-0002	2023-MW-07-0204	2023-MW-07-0406	2023-MW-07-0608	2023-MW-07-0810	2023-MW-07-1012	2023-MW-08-0002	2023-MW-08-0204	2023-MW-08-0406	2023-FD-08	2023-MW-08-0608	2023-MW-08-0810	2023-MW-08-1012
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.21 U	2.28 UJ	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 UJ	2.15 U	2.35 U	2.29 U	2.19 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.21 UJ	R	2.11 UJ	2.08 UJ	2.07 UJ	2.77 UJ	2.06 U	2.02 UJ	2.05 UJ	R	2.35 UJ	2.29 U	2.19 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.21 UJ	2.28 U	R	2.08 UJ	**2.07 J**	2.77 U	2.06 U	2.02 U	2.05 U	2.15 U	2.35 U	2.29 U	2.19 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.21 UJ	R	2.11 UJ	2.08 UJ	2.07 UJ	2.77 U	2.06 U	2.02 UJ	2.05 UJ	R	2.35 UJ	2.29 U	2.19 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.21 UJ	2.28 U	R	2.08 UJ	2.07 UJ	2.77 U	2.06 U	2.02 U	2.05 U	2.15 U	2.35 U	2.29 U	2.19 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.21 U	2.28 UJ	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 UJ	2.15 U	2.35 U	2.29 U	2.19 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.21 UJ	2.28 UJ	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 UJ	2.15 UJ	2.35 U	2.29 U	2.19 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 UJ	0.607 U	0.615 UJ	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.21 U	2.28 U	2.11 U	2.08 U	2.07 U	2.77 U	2.06 U	2.02 U	2.05 U	2.15 U	2.35 U	2.29 U	2.19 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 UJ	0.704 U	0.688 U	0.657 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 UJ	0.704 U	0.688 U	0.657 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	**0.25 J**	0.624 U	0.621 U	0.832 U	0.618 U	**0.209 J**	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 UJ	0.704 U	0.688 U	0.657 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 U	0.704 U	0.688 U	0.657 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 UJ	0.704 U	0.688 U	0.657 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	**0.301 J**	0.624 U	0.621 U	0.832 U	0.618 U	**0.34 J**	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 UJ	0.704 U	0.688 U	0.657 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.662 UJ	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 UJ	0.704 U	0.688 U	0.657 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.662 U	0.683 U	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 U	0.645 U	0.704 U	0.688 U	0.657 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.662 U	0.683 UJ	0.634 U	0.624 U	0.621 U	0.832 U	0.618 U	0.607 U	0.615 UJ	0.645 UJ	0.704 U	0.688 U	0.657 U
VPH																					
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0625 U	0.0542 U	0.0509 U	0.0544 U	0.0516 U	0.0608 U	0.0567 U	0.053 U	0.0564 U	0.0613 U	0.0568 U	0.046 U	0.0471 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	**0.667**	0.271 U	0.254 U	0.272 U	0.258 U	0.304 U	**1.03**	0.265 U	**0.209 J**	0.306 U	0.284 U	0.23 U	0.236 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	**0.692**	0.271 U	0.254 U	0.272 U	0.258 U	0.304 U	**1.04**	0.265 U	**0.209 J**	0.306 U	0.284 U	0.23 U	0.236 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	**0.0762 J**	0.271 U	0.254 U	0.272 U	0.258 U	0.304 U	**0.152 J**	0.265 U	0.282 U	0.306 U	0.284 U	0.23 U	0.236 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.205 J**	0.271 U	0.254 U	0.272 U	0.258 U	0.304 U	**0.257 J**	0.265 U	0.282 U	0.306 U	0.284 U	0.23 U	0.236 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.281 J**	0.271 U	0.254 U	0.272 U	0.258 U	0.304 U	**0.444**	0.265 U	0.282 U	0.306 U	0.284 U	0.23 U	0.236 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0625 U	0.0542 U	0.0509 U	0.0544 U	0.0516 U	0.0608 U	0.0567 U	0.053 U	0.0564 U	0.0613 U	0.0568 U	0.046 U	0.0471 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.125 U	0.108 U	0.102 U	0.109 U	0.103 U	0.122 U	0.113 U	0.106 U	0.113 U	0.123 U	0.114 U	0.092 U	0.0943 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0625 U	0.0542 U	0.0509 U	0.0544 U	0.0516 U	0.0608 U	0.0567 U	0.053 U	0.0564 U	0.0613 U	0.0568 U	0.046 U	0.0471 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.248 U	0.0542 U	0.0509 U	0.0544 U	0.0516 U	0.0608 U	0.102 U	0.053 U	0.0564 U	0.0613 U	0.0568 U	0.046 U	0.0471 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0625 U	0.0542 U	0.0509 U	0.0544 U	0.0516 U	0.0608 U	**0.0355 J**	0.053 U	0.0564 U	0.0613 U	0.0568 U	0.046 U	0.0471 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	**0.025 J**	0.0542 U	0.0509 U	0.0544 U	0.0516 U	0.0608 U	**0.013 J**	0.053 U	0.0564 U	0.0613 U	0.0568 U	0.046 U	0.0471 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-09						2023-SB-01						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	02/27/2023	02/27/2023	02/27/2023		02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406	2023-MW-09-0608	2023-MW-09-0810	2023-MW-09-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406	2023-FD-01	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012
Volatiles																					
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.112 U	0.0949 U	0.108 U	0.11 U	0.101 U	0.0999 U	0.0996 U	0.103 U	0.106 U	0.0963 U	0.0901 U	0.0925 U	0.0988 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0558 U	0.0475 U	0.054 U	0.0548 U	0.0506 U	0.0499 U	0.0498 U	0.0515 U	0.0529 U	0.0482 U	0.0451 U	0.0463 U	0.0494 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.0112 UJ	0.00949 UJ	0.0108 UJ	0.011 UJ	0.0101 UJ	0.00999 UJ	0.00996 UJ	0.0103 UJ	0.0106 UJ	0.00963 UJ	0.00901 UJ	0.00925 UJ	0.00988 UJ
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	1.12 U	0.949 U	1.08 U	1.1 U	1.01 U	0.999 U	0.996 U	1.03 U	1.06 U	0.963 U	0.901 U	0.925 U	0.988 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.0112 UJ	0.00949 UJ	0.0108 UJ	0.011 UJ	0.0101 UJ	0.00999 UJ	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.0112 UJ	0.00949 UJ	0.0108 UJ	0.011 UJ	0.0101 UJ	0.00999 UJ	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-09						2023-SB-01						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	02/27/2023	02/27/2023	02/27/2023		02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406	2023-MW-09-0608	2023-MW-09-0810	2023-MW-09-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406	2023-FD-01	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.112 U	0.0949 U	0.108 U	0.11 U	0.101 U	0.0999 U	0.0996 U	0.103 U	0.106 U	0.0963 U	0.0901 U	0.0925 U	0.0988 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00558 UJ	0.00475 UJ	0.0054 UJ	0.00548 UJ	0.00506 UJ	0.00499 UJ	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.0112 U	0.00949 U	0.0108 U	0.011 U	0.0101 U	0.00999 U	0.00996 U	0.0103 U	0.0106 U	0.00963 U	0.00901 U	0.00925 U	0.00988 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0279 U	0.0237 U	0.027 U	0.0274 U	0.0253 U	0.025 U	0.0249 U	0.0258 U	0.0264 U	0.0241 U	0.0225 U	0.0231 U	0.0247 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00558 U	0.00475 U	0.0054 U	0.00548 U	0.00506 U	0.00499 U	0.00498 U	0.00515 U	0.00529 U	0.00482 U	0.00451 U	0.00463 U	0.00494 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0167 U	0.0142 U	0.0162 U	0.0164 U	0.0152 U	0.015 U	0.0149 U	0.0155 U	0.0159 U	0.0145 U	0.0135 U	0.0139 U	0.0148 U
Semivolatiles																					
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	**1.29**	**0.114 J**	0.376 U	0.394 U	0.376 U	0.406 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.0741 U	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0741 U	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	**0.0843**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	**0.0374 J**	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.0602 J**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	0.733 UJ	0.674 UJ	0.731 UJ	0.785 UJ	0.82 UJ	0.79 UJ	R	R	R	R	R	R	R
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	**0.276**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	**0.0452 J**	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**0.28**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	**0.0531 J**	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	**0.433**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.274**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.368**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.367 UJ	0.337 UJ	0.365 UJ	0.393 UJ	0.41 UJ	0.395 UJ	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	**2.73**	**1.26**	**0.366**	**0.536**	0.2 U	0.19 U	0.205 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	**0.142 J**	**0.125 J**	0.375 U	**0.0477 J**	0.394 U	0.376 U	0.406 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.487**	**0.0594 J**	0.0738 U	0.0793 U	0.0829 U	0.0799 U	**0.0518 J**	**0.0663 J**	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	**0.0988**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-09						2023-SB-01						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	02/27/2023	02/27/2023	02/27/2023		02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406	2023-MW-09-0608	2023-MW-09-0810	2023-MW-09-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406	2023-FD-01	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	**0.12 J**	**0.12 J**	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.527**	**0.0894**	0.0738 U	0.0793 U	0.0829 U	0.0799 U	**0.112**	**0.11**	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0741 U	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	**0.24**	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0741 U	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.0741 U	0.0681 U	0.0738 U	0.0793 U	0.0829 U	0.0799 U	0.0698 U	0.0716 U	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.186 U	0.171 U	0.185 U	0.199 U	0.207 U	0.2 U	0.175 U	0.179 U	0.19 U	0.19 U	0.2 U	0.19 U	0.205 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	**0.426**	**0.0687**	0.0738 U	0.0793 U	0.0829 U	0.0799 U	**0.081**	**0.118**	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.589**	**0.0885**	0.0738 U	0.0793 U	0.0829 U	0.0799 U	**0.12**	**0.162**	0.0758 U	0.0759 U	0.0797 U	0.076 U	0.082 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.367 U	0.337 U	0.365 U	0.393 U	0.41 U	0.395 U	0.345 U	0.354 U	0.375 U	0.376 U	0.394 U	0.376 U	0.406 U
PCBs																					
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0215 U	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0215 U	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0215 U	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0215 U	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0215 U	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.185**	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	**1.41**	**1.21**	**0.369**	**0.432**	0.0226 U	0.0224 U	0.0238 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	**0.0707**	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0215 U	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0215 U	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	0.1 U	0.102 U	0.0224 U	0.023 U	0.0226 U	0.0224 U	0.0238 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.2557**	0.0207 U	0.0192 U	0.0226 U	0.0247 U	0.0242 U	**1.41**	**1.21**	**0.369**	**0.432**	0.0226 U	0.0224 U	0.0238 U
Metals																					
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	5.2 U	4.99 U	4.33 U	4.19 U	4.53 U	5.68 U	5.1 U	5.29 U	4.9 U	5.01 U	5.04 U	4.07 U	4.33 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**5.25**	**3.47**	**3.02**	**2.86**	**7.33**	**5.07**	**2.97 J**	**3.95**	**2.65 J**	**2.14 J**	**2.17 J**	**2.21 J**	**1.3 J**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**129**	**39.5**	**19.1**	**15.8**	**53.6**	**42.6**	**19.1 J**	**26.1 J**	**14 J**	**13.8 J**	**17.9 J**	**13.8 J**	**15.1 J**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.576**	**0.341 J**	**0.208 J**	**0.19 J**	**0.847**	**0.519 J**	**0.457 J**	**0.603**	**0.412 J**	**0.368 J**	**0.414 J**	**0.288 J**	**0.317 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.52 U	0.499 U	0.433 U	0.419 U	0.453 U	0.568 U	0.51 U	0.529 U	0.49 U	0.501 U	0.504 U	0.407 U	0.433 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**7.7**	**5.14**	**4.93**	**4.22**	**15.3**	**12.1**	**4.52 J-**	**7.55 J-**	**3.92 J**	**3.83 J**	**5.28 J-**	**2.83 J**	**5.82 J-**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**50.9 J+**	**10.2 J+**	**2.45 J+**	**2.49 J+**	**5.9 J+**	**4.77 J+**	**6.92 J-**	**7.11 J-**	**3.79 J-**	**4.04 J-**	**2.42 J-**	**1.91 J-**	**2.04 J-**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	**0.0256 J**	0.0625 U	0.0649 U	0.0735 U	0.0743 U	0.0743 U	**0.0227 J**	**0.0246 J**	0.0677 U	0.0692 U	0.0669 U	0.068 U	0.0685 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**6.52**	**2.67**	**1.94**	**1.86**	**8.03**	**5.52**	**2.99**	**3.65**	**2.51**	**2.19**	**3.09**	**1.67**	**2.5**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	5.2 U	4.99 U	4.33 U	4.19 U	4.53 U	5.68 U	5.1 U	5.29 U	4.9 U	5.01 U	5.04 U	4.07 U	4.33 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	1.04 U	0.998 U	0.867 U	0.839 U	0.905 U	1.14 U	1.02 U	1.06 U	0.98 U	1 U	1.01 U	0.813 U	0.865 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.12 U	2.99 U	2.6 U	2.52 U	27.2 U	34.1 U	3.06 U	3.18 U	2.94 U	3.01 U	3.02 U	2.44 U	2.6 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**12.7**	**7.95**	**7.09**	**6.76**	**25.4**	**18.4**	**8.46 J-**	**13.1 J-**	**5.86 J-**	**5.52 J-**	**8.35 J-**	**4.34 J-**	**5.78 J-**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**63.5**	**15.3**	**8.96**	**12.6**	**34.4**	**26.7**	**17.3 J-**	**24.3 J-**	**12 J-**	**10.8 J-**	**13.7 J-**	**9.57 J-**	**9.93 J-**
PFAS																					
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.27 U	3.14 U	3.23 U	3.6 U	3.5 U	3.38 U	3.15 U	3.27 U	3.4 U	3.38 U	3.52 U	3.38 U	3.71 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.27 U	3.14 U	3.23 U	3.6 U	3.5 U	3.38 U	3.15 U	3.27 U	3.4 U	3.38 U	3.52 U	3.38 U	3.71 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-MW-09						2023-SB-01						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	02/27/2023	02/27/2023	02/27/2023		02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-MW-09-0002	2023-MW-09-0204	2023-MW-09-0406	2023-MW-09-0608	2023-MW-09-0810	2023-MW-09-1012	2023-SB-01-0002	2023-SB-01-0204	2023-SB-01-0406	2023-FD-01	2023-SB-01-0608	2023-SB-01-0810	2023-SB-01-1012
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.18 UJ	2.1 UJ	2.15 U	2.4 U	2.33 UJ	2.25 UJ	2.1 UJ	R	2.26 UJ	2.26 UJ	2.35 UJ	2.25 U	2.48 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 UJ	2.18 U	2.26 UJ	2.26 UJ	2.35 U	2.25 U	2.48 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.18 UJ	2.1 UJ	2.15 U	2.4 U	2.33 UJ	2.25 UJ	2.1 UJ	R	2.26 UJ	2.26 UJ	2.35 UJ	2.25 U	2.48 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 UJ	2.18 U	2.26 UJ	2.26 UJ	2.35 U	2.25 U	2.48 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.18 U	2.1 U	2.15 U	2.4 U	2.33 U	2.25 U	2.1 U	2.18 U	2.26 U	2.26 U	2.35 U	2.25 U	2.48 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.654 U	0.629 U	0.645 U	0.72 U	0.699 U	0.675 U	0.631 U	0.654 U	0.679 U	0.677 U	0.704 U	0.676 U	0.743 U
VPH																					
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0695 U	0.0572 U	0.0581 U	0.0533 U	0.0592 U	0.0598 U	0.052 U	0.0723 U	0.0501 U	0.0509 U	0.0455 U	0.0506 U	0.0498 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	**0.229 J**	0.286 U	0.291 U	0.267 U	0.296 U	0.299 U	0.26 U	0.362 U	0.25 U	0.254 U	0.227 U	0.253 U	0.249 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	**0.229 J**	0.286 U	0.291 U	0.267 U	0.296 U	0.299 U	0.26 U	0.362 U	0.25 U	0.254 U	0.227 U	0.253 U	0.249 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.347 U	0.286 U	0.291 U	0.267 U	0.296 U	0.299 U	0.26 U	0.362 U	0.25 U	0.254 U	0.227 U	0.253 U	0.249 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.185 J**	0.286 U	0.291 U	0.267 U	0.296 U	0.299 U	0.26 U	0.362 U	0.25 U	0.254 U	0.227 U	0.253 U	0.249 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.185 J**	0.286 U	0.291 U	0.267 U	0.296 U	0.299 U	0.26 U	0.362 U	0.25 U	0.254 U	0.227 U	0.253 U	0.249 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0695 U	0.0572 U	0.0581 U	0.0533 U	0.0592 U	0.0598 U	0.052 U	0.0723 U	0.0501 U	0.0509 U	0.0455 U	0.0506 U	0.0498 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.139 U	0.114 U	0.116 U	0.107 U	0.118 U	0.12 U	0.104 U	0.145 U	0.1 U	0.102 U	0.0909 U	0.101 U	0.0996 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0695 U	0.0572 U	0.0581 U	0.0533 U	0.0592 U	0.0598 U	0.052 U	0.0723 U	0.0501 U	0.0509 U	0.0455 U	0.0506 U	0.0498 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0695 U	0.0572 U	0.0581 U	0.0533 U	0.0592 U	0.0598 U	0.052 U	0.0723 U	0.0501 U	0.0509 U	0.0455 U	0.0506 U	0.0498 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0695 U	0.0572 U	0.0581 U	0.0533 U	0.0592 U	0.0598 U	0.052 U	0.0723 U	0.0501 U	0.0509 U	0.0455 U	0.0506 U	0.0498 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0695 U	0.0572 U	0.0581 U	0.0533 U	0.0592 U	0.0598 U	0.052 U	0.0723 U	0.0501 U	0.0509 U	0.0455 U	0.0506 U	0.0498 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-02						2023-SB-03						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	03/02/2023	03/02/2023	03/02/2023		03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-02-0002	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608	2023-SB-02-0810	2023-SB-02-1012	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406	2023-FD-05	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012
Volatiles																					
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.0937 U	0.0825 U	0.0695 U	0.0651 U	0.0816 U	0.101 U	0.0956 U	0.117 U	0.106 U	0.104 U	0.0964 U	0.0917 U	0.105 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0469 U	0.0412 U	0.0347 U	0.0325 U	0.0408 U	0.0507 U	0.0478 U	0.0583 U	0.0531 U	0.0521 U	0.0482 U	0.0458 U	0.0526 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.00937 UJ	0.00825 UJ	0.00695 UJ	0.00651 UJ	0.00816 U	0.0101 UJ	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	0.937 U	0.825 U	0.695 U	0.651 U	0.816 U	1.01 U	0.956 U	1.17 U	1.06 U	1.04 U	0.964 U	0.917 U	1.05 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-02						2023-SB-03						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	03/02/2023	03/02/2023	03/02/2023		03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-02-0002	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608	2023-SB-02-0810	2023-SB-02-1012	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406	2023-FD-05	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.0937 U	0.0825 U	0.0695 U	0.0651 U	0.0816 U	0.101 U	0.0956 U	0.117 U	0.106 U	0.104 U	0.0964 U	0.0917 U	0.105 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.00937 U	0.00825 U	0.00695 U	0.00651 U	0.00816 U	0.0101 U	0.00956 U	0.0117 U	0.0106 U	0.0104 U	0.00964 U	0.00917 U	0.0105 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0234 U	0.0206 U	0.0174 U	0.0163 U	0.0204 U	0.0253 U	0.0239 U	0.0291 U	0.0265 U	0.0261 U	0.0241 U	0.0229 U	0.0263 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00469 U	0.00412 U	0.00347 U	0.00325 U	0.00408 U	0.00507 U	0.00478 U	0.00583 U	0.00531 U	0.00521 U	0.00482 U	0.00458 U	0.00526 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0141 U	0.0124 U	0.0104 U	0.00976 U	0.0122 U	0.0152 U	0.0143 U	0.0175 U	0.0159 U	0.0156 U	0.0145 U	0.0137 U	0.0158 U
Semivolatiles																					
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	R	R	R	R	R	R	1.42 U	0.795 U	0.766 U	0.75 U	0.818 U	0.81 U	0.795 U
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	**0.0468 J**	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**0.057 J**	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	**0.773**	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 UJ	0.409 U	0.405 U	0.397 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	**8.05**	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	**0.0462 J**	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.0712 J**	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-02						2023-SB-03						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	03/02/2023	03/02/2023	03/02/2023		03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-02-0002	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608	2023-SB-02-0810	2023-SB-02-1012	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406	2023-FD-05	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	**1.06**	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.117**	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.0746 U	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.187 U	0.189 U	0.202 U	0.184 U	0.195 U	0.204 U	0.36 U	0.201 U	0.194 U	0.19 U	0.207 U	0.205 U	0.201 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	**0.068 J**	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.163**	0.0753 U	0.0806 U	0.0736 U	0.0779 U	0.0815 U	0.144 U	0.0804 U	0.0774 U	0.0758 U	0.0827 U	0.0818 U	0.0803 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.369 U	0.373 U	0.399 U	0.364 U	0.385 U	0.403 U	0.711 U	0.398 U	0.383 U	0.375 U	0.409 U	0.405 U	0.397 U
PCBs																					
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.472**	0.0232 U	**0.097**	0.0218 U	0.0236 U	0.0244 U	**0.0502**	0.0243 U	0.0231 U	0.0227 U	0.0247 U	**0.0216 J**	0.0229 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0227 U	0.0232 U	0.024 U	0.0218 U	0.0236 U	0.0244 U	0.0208 U	0.0243 U	0.0231 U	0.0227 U	0.0247 U	0.0249 U	0.0229 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.472**	0.0232 U	**0.097**	0.0218 U	0.0236 U	0.0244 U	**0.0502**	0.0243 U	0.0231 U	0.0227 U	0.0247 U	**0.0216 J**	0.0229 U
Metals																					
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	4.87 U	5.39 U	4.45 U	4.06 U	4.62 U	4.95 U	4.53 U	4.46 U	5.49 U	5.67 U	5.54 U	**1.88 J**	4.51 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**2.8 J**	**2.29 J**	**2.05 J**	**2.43 J**	**6.17**	**1.59 J**	**2.43 J**	**4.28**	**3.03 J**	**2.43 J**	**3.73**	**7.89**	**5.2**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**23.9 J**	**13 J**	**12.1 J**	**19 J**	**65.8 J**	**13.1 J**	**15**	**30.8**	**18.5**	**16.6**	**32.5**	**101**	**34.5**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.416 J**	**0.441 J**	**0.371 J**	**0.413**	**1.21**	**0.317 J**	**0.316 J**	**0.437 J**	**0.257 J**	**0.239 J**	**0.414 J**	**1.32**	**0.481**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.487 U	0.539 U	0.445 U	0.406 U	0.462 U	0.495 U	0.453 U	0.446 U	0.549 U	0.567 U	0.554 U	0.538 U	0.451 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**5.9 J-**	**5.59 J-**	**6.72 J-**	**6.69 J-**	**15.8 J-**	**3.49 J**	**4.34**	**7.62**	**5.02**	**4.99**	**8.36**	**27.1**	**8.67**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**19.2 J-**	**3.02 J-**	**4.4 J-**	**2.55 J-**	**6.33 J-**	**2.03 J-**	**2.89**	**3.35**	**2.59**	**2.29**	**3.32**	**11.6**	**3.54**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	**0.0326 J**	0.0655 U	0.0732 U	0.0646 U	0.0697 U	0.0743 U	0.0626 U	0.0698 U	0.0671 U	0.0678 U	0.0698 U	0.0713 U	0.0725 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**3.25**	**3.07**	**2.49**	**3.03**	**9.74**	**2.03**	**2.51**	**3.44**	**1.97**	**1.87**	**4.1**	**18.1**	**3.78**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	4.87 U	5.39 U	4.45 U	4.06 U	4.62 U	4.95 U	4.53 U	4.46 U	5.49 U	5.67 U	5.54 U	5.38 U	4.51 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	0.974 U	1.08 U	0.891 U	0.813 U	0.923 U	0.99 U	0.906 U	0.892 U	1.1 U	1.13 U	1.11 U	1.08 U	0.902 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.92 U	3.23 U	2.67 U	2.44 U	2.77 U	2.97 U	2.72 U	2.68 U	3.29 U	3.4 U	3.32 U	32.3 U	2.71 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**9.37 J-**	**8.17 J-**	**6.6 J-**	**12.1 J-**	**27.7 J-**	**6.12 J-**	**6.81**	**12.6**	**7.81**	**7.22**	**13.9**	**45.5**	**13.8**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**33.9 J-**	**10.4 J-**	**9.36 J-**	**15.6 J-**	**37.9 J-**	**7.79 J-**	**8.66**	**14.4**	**9.61**	**8.73**	**16.8**	**64.8**	**15.2**
PFAS																					
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 U	2.28 U	2.18 U	2.38 U	2.29 U	2.22 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 U	2.28 U	2.18 U	2.38 U	2.29 U	2.22 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 U	2.28 U	2.18 U	2.38 U	2.29 U	2.22 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.29 U	3.42 U	3.55 U	3.32 U	3.51 U	3.57 U	3.2 U	3.43 U	3.42 U	3.27 U	3.58 U	3.43 U	3.33 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 UJ	2.28 U	2.18 U	2.38 U	2.29 U	2.22 UJ
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 UJ	2.28 U	2.18 U	2.38 U	2.29 U	2.22 UJ
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.29 U	3.42 U	3.55 U	3.32 U	3.51 U	3.57 U	3.2 U	3.43 UJ	3.42 U	3.27 U	3.58 U	3.43 U	3.33 UJ
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 U	2.28 U	2.18 U	2.38 U	2.29 U	2.22 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-02						2023-SB-03						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	02/27/2023	03/02/2023	03/02/2023	03/02/2023		03/02/2023	03/02/2023	03/02/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-02-0002	2023-SB-02-0204	2023-SB-02-0406	2023-SB-02-0608	2023-SB-02-0810	2023-SB-02-1012	2023-SB-03-0002	2023-SB-03-0204	2023-SB-03-0406	2023-FD-05	2023-SB-03-0608	2023-SB-03-0810	2023-SB-03-1012
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 UJ	2.28 U	2.18 U	2.38 U	2.29 U	2.22 UJ
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.19 U	2.28 UJ	2.37 U	2.22 U	2.34 UJ	2.38 U	2.14 UJ	2.28 UJ	2.28 UJ	2.18 U	2.38 UJ	2.29 UJ	2.22 UJ
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 UJ	2.28 U	2.28 UJ	2.18 U	2.38 U	2.29 U	2.22 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.19 UJ	2.28 UJ	2.37 U	2.22 U	2.34 UJ	2.38 U	R	R	2.28 UJ	2.18 U	2.38 UJ	2.29 UJ	2.22 UJ
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 UJ	2.28 U	2.28 UJ	2.18 U	2.38 U	2.29 U	2.22 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 U	2.28 U	2.18 U	2.38 U	2.29 U	2.22 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 UJ	2.28 U	2.18 U	2.38 U	2.29 U	2.22 UJ
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.19 U	2.28 U	2.37 U	2.22 U	2.34 U	2.38 U	2.14 U	2.28 U	2.28 U	2.18 U	2.38 U	2.29 U	2.22 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 UJ	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 UJ	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.657 U	0.685 U	0.711 U	0.665 U	0.702 U	0.714 U	0.641 U	0.685 U	0.684 U	0.655 U	0.715 U	0.687 U	0.665 UJ
VPH																					
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0449 U	0.0467 U	0.0478 U	0.0411 U	0.0441 U	0.0516 U	0.0494 U	0.0838 U	0.0542 U	0.0551 U	0.0518 U	0.0507 U	0.0557 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.225 U	0.234 U	0.239 U	0.206 U	0.221 U	0.258 U	0.247 U	0.419 U	0.271 U	0.275 U	0.259 U	0.253 U	0.279 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.225 U	0.234 U	0.239 U	0.206 U	0.221 U	0.258 U	0.247 U	0.419 U	0.271 U	0.275 U	0.259 U	0.253 U	0.279 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.225 U	0.234 U	0.239 U	0.206 U	0.221 U	0.258 U	**0.168 J**	0.419 U	0.271 U	0.275 U	0.259 U	0.253 U	0.279 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.225 U	0.234 U	0.239 U	0.206 U	0.221 U	0.258 U	**0.238 J**	0.419 U	0.271 U	0.275 U	0.259 U	0.253 U	0.279 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.225 U	0.234 U	0.239 U	0.206 U	0.221 U	0.258 U	**0.406**	0.419 U	0.271 U	0.275 U	0.259 U	0.253 U	0.279 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0449 U	0.0467 U	0.0478 U	0.0411 U	0.0441 U	0.0516 U	0.0494 U	0.0838 U	0.0542 U	0.0551 U	0.0518 U	0.0507 U	0.0557 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.0899 U	0.0935 U	0.0956 U	0.0822 U	0.0882 U	0.103 U	0.0988 U	0.168 U	0.108 U	0.11 U	0.104 U	0.101 U	0.111 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0449 U	0.0467 U	0.0478 U	0.0411 U	0.0441 U	0.0516 U	0.0494 U	0.0838 U	0.0542 U	0.0551 U	0.0518 U	0.0507 U	0.0557 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0449 U	0.0467 U	0.0478 U	0.0411 U	0.0441 U	0.0516 U	0.0494 U	0.0838 U	0.0542 U	0.0551 U	0.0518 U	0.0507 U	0.0557 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0449 U	0.0467 U	0.0478 U	0.0411 U	0.0441 U	0.0516 U	0.0494 U	0.0838 U	0.0542 U	0.0551 U	0.0518 U	0.0507 U	0.0557 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0449 U	0.0467 U	0.0478 U	0.0411 U	0.0441 U	0.0516 U	0.0494 U	0.0838 U	0.0542 U	0.0551 U	0.0518 U	0.0507 U	0.0557 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-04						2023-SB-05					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810	2023-SB-04-1012	2023-SB-05-0002	2023-SB-05-0204	2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012
Volatiles																				
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.11 U	0.0923 U	0.105 U	0.105 U	0.117 U	0.102 U	0.1 U	0.146 U	0.0968 U	0.108 U	0.0871 U	0.0967 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0552 U	0.0461 U	0.0525 U	0.0523 U	0.0586 U	0.0512 U	0.0501 U	0.0729 U	0.0484 U	0.054 U	0.0435 U	0.0483 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	1.1 U	0.923 U	1.05 U	1.05 U	1.17 U	1.02 U	1 U	1.46 U	0.968 U	1.08 U	0.871 U	0.967 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	**0.00665 BJ**	0.00871 U	0.00967 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 UJ	0.00729 UJ	0.00484 UJ	0.0054 UJ	0.00435 UJ	0.00483 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-04						2023-SB-05					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-04-0002	2023-SB-04-0204	2023-SB-04-0406	2023-SB-04-0608	2023-SB-04-0810	2023-SB-04-1012	2023-SB-05-0002	2023-SB-05-0204	2023-SB-05-0406	2023-SB-05-0608	2023-SB-05-0810	2023-SB-05-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.11 U	0.0923 U	0.105 U	0.105 U	0.117 U	0.102 U	0.1 U	0.146 U	0.0968 U	0.108 U	0.0871 U	0.0967 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.011 U	0.00923 U	0.0105 U	0.0105 U	0.0117 U	0.0102 U	0.01 U	0.0146 U	0.00968 U	0.0108 U	0.00871 U	0.00967 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0276 U	0.0231 U	0.0262 U	0.0261 U	0.0293 U	0.0256 U	0.0251 U	0.0364 U	0.0242 U	0.027 U	0.0218 U	0.0242 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00552 U	0.00461 U	0.00525 U	0.00523 U	0.00586 U	0.00512 U	0.00501 U	0.00729 U	0.00484 U	0.0054 U	0.00435 U	0.00483 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0166 U	0.0138 U	0.0157 U	0.0157 U	0.0176 U	0.0154 U	0.015 U	0.0219 U	0.0145 U	0.0162 U	0.0131 U	0.0145 U
Semivolatiles																				
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	0.0738 U	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	0.0738 U	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.0579 J**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.0468 J**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	1.44 U	0.695 U	1.68 U	0.825 U	0.865 U	1.62 U	0.73 UJ	0.996 UJ	0.778 UJ	0.771 UJ	0.751 UJ	0.782 UJ
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.122**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.157**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.185**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.152**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.159**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	**1.35 J**	0.385 U	0.375 U	0.391 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	0.365 U	0.176 U	**0.268 J**	0.209 U	0.219 U	0.409 U	**0.418**	0.252 U	0.197 U	0.195 U	0.19 U	**0.111 J**
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.184**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.0575 J**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-04						2023-SB-05					
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/02/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-04-0002**	**2023-SB-04-0204**	**2023-SB-04-0406**	**2023-SB-04-0608**	**2023-SB-04-0810**	**2023-SB-04-1012**	**2023-SB-05-0002**	**2023-SB-05-0204**	**2023-SB-05-0406**	**2023-SB-05-0608**	**2023-SB-05-0810**	**2023-SB-05-1012**
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	**3.07**	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.263**	**0.0778 J**	0.0786 U	0.0779 U	0.0759 U	0.079 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	0.0738 U	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.135**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	0.0738 U	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	0.0738 U	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.365 U	0.176 U	0.425 U	0.209 U	0.219 U	0.409 U	0.185 U	0.252 U	0.197 U	0.195 U	0.19 U	0.198 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.124**	0.101 U	0.0786 U	0.0779 U	0.0759 U	0.079 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.146 U	0.0703 U	0.17 U	0.0833 U	0.0874 U	0.163 U	**0.299**	**0.0678 J**	0.0786 U	0.0779 U	0.0759 U	0.079 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.721 U	0.348 U	0.84 U	0.412 U	0.432 U	0.808 U	0.365 U	0.498 U	0.389 U	0.385 U	0.375 U	0.391 U
PCBs																				
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.062**	0.0213 U	**0.0991**	0.0236 U	0.0263 U	**0.0641**	**1.99**	0.0288 U	**0.0557**	0.0223 U	0.0223 U	**0.0354**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0219 U	0.0213 U	0.0259 U	0.0236 U	0.0263 U	0.0243 U	0.11 U	0.0288 U	0.0232 U	0.0223 U	0.0223 U	0.023 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.062**	0.0213 U	**0.0991**	0.0236 U	0.0263 U	**0.0641**	**1.99**	0.0288 U	**0.0557**	0.0223 U	0.0223 U	**0.0354**
Metals																				
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	4.91 U	3.88 U	5.79 U	4.64 U	5.51 U	4.17 U	5.16 U	7.38 U	3.99 U	5.09 U	3.96 U	4.6 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**5.13**	**2.54**	**2.21 J**	**2.92**	**10.3**	**2.55**	**2.32 J**	**3.22 J**	**1.43 J**	3.05 U	**1.54 J**	**1.85 J**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**16.8**	**12.8**	**12.4**	**18.9**	**133**	**13.3**	**57**	**45.7**	**26.3**	**27.4**	**33.6**	**19.4**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.274 J**	**0.152 J**	**0.123 J**	**0.249 J**	**1.78**	**0.215 J**	**0.267 J**	**0.691 J**	**0.285 J**	**0.243 J**	**0.276 J**	**0.235 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.491 U	0.388 U	0.579 U	0.464 U	0.551 U	0.417 U	0.516 U	0.738 U	0.399 U	0.509 U	0.396 U	0.46 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**4.19**	**2.6**	**2.7**	**5.01**	**32.9**	**6.37**	**4.5**	**6.85**	**5.42**	**4.65**	**5.74**	**4.84**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**2.84**	**1.68**	**2.02**	**2.78**	**16.4**	**2.19**	**26.8**	**23.3**	**4.16**	**2.9**	**2.77**	**2.97**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.0655 U	0.0641 U	0.0741 U	0.0705 U	0.0739 U	0.0745 U	**0.0411 J**	**0.0464 J**	0.0659 U	0.0703 U	0.0666 U	0.0667 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**2.04**	**1.19**	**1.3**	**2.25**	**18.1**	**2.96**	**3.3**	**4.2**	**2.81**	**3.58**	**4.37**	**2.84**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	4.91 U	3.88 U	5.79 U	4.64 U	5.51 U	4.17 U	5.16 U	7.38 U	3.99 U	5.09 U	3.96 U	4.6 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	0.983 U	0.776 U	1.16 U	0.928 U	1.1 U	0.833 U	1.03 U	1.48 U	0.799 U	1.02 U	0.793 U	0.92 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.95 U	2.33 U	3.47 U	2.78 U	33.1 U	2.5 U	3.1 U	4.43 U	2.4 U	3.05 U	2.38 U	2.76 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**6.97**	**4.06**	**4.49**	**7.96**	**53.6**	**7.79**	**5.9**	**10.5**	**6.68**	**6.57**	**8.82**	**5.78**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**8.56**	**7.8**	**11.1**	**15.8**	**67.9**	**14.8**	**81**	**140**	**44.1**	**19.2**	**17.1**	**15**
PFAS																				
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.23 U	3.19 U	3.89 U	3.65 U	3.74 U	3.45 U	3.34 U	4.3 U	3.5 U	3.44 U	3.33 U	3.3 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.23 U	3.19 U	3.89 U	3.65 U	3.74 U	3.45 U	3.34 U	4.3 U	3.5 U	3.44 U	3.33 U	3.3 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-04						2023-SB-05					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-04-0002**	**2023-SB-04-0204**	**2023-SB-04-0406**	**2023-SB-04-0608**	**2023-SB-04-0810**	**2023-SB-04-1012**	**2023-SB-05-0002**	**2023-SB-05-0204**	**2023-SB-05-0406**	**2023-SB-05-0608**	**2023-SB-05-0810**	**2023-SB-05-1012**
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.16 UJ	2.13 U	2.59 U	2.43 U	2.49 UJ	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 UJ	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.16 UJ	2.13 U	2.59 U	2.43 U	2.49 UJ	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 UJ	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.16 U	2.13 U	2.59 U	2.43 U	2.49 U	2.3 U	2.23 U	2.87 U	2.33 U	2.3 U	2.22 U	2.2 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.647 U	**0.368 J**	**0.29 J**	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.647 U	0.639 U	0.778 U	0.73 U	0.748 U	0.69 U	0.668 U	0.861 U	0.7 U	0.689 U	0.666 U	0.659 U
VPH																				
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.05 U	0.0497 U	0.0551 U	0.0579 U	0.056 U	0.0518 U	0.0512 U	0.0759 U	0.0526 U	0.0486 U	0.0493 U	0.0451 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.25 U	0.248 U	0.276 U	0.289 U	0.28 U	0.259 U	**0.217 J**	0.38 U	0.263 U	0.243 U	0.247 U	0.226 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.25 U	0.248 U	0.276 U	0.289 U	0.28 U	0.259 U	**0.217 J**	0.38 U	0.263 U	0.243 U	0.247 U	0.226 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.25 U	0.248 U	0.276 U	0.289 U	0.28 U	0.259 U	**0.18 J**	0.38 U	0.263 U	0.243 U	0.247 U	0.226 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.25 U	0.248 U	0.276 U	0.289 U	0.28 U	0.259 U	**0.418**	0.38 U	0.263 U	0.243 U	0.247 U	0.226 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.25 U	0.248 U	0.276 U	0.289 U	0.28 U	0.259 U	**0.598**	0.38 U	0.263 U	0.243 U	0.247 U	0.226 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.05 U	0.0497 U	0.0551 U	0.0579 U	0.056 U	0.0518 U	0.0512 U	0.0759 U	0.0526 U	0.0486 U	0.0493 U	0.0451 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.1 U	0.0993 U	0.11 U	0.116 U	0.112 U	0.104 U	0.102 U	0.152 U	0.105 U	0.0972 U	0.0987 U	0.0903 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.05 U	0.0497 U	0.0551 U	0.0579 U	0.056 U	0.0518 U	0.0512 U	0.0759 U	0.0526 U	0.0486 U	0.0493 U	0.0451 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.05 U	0.0497 U	0.0551 U	0.0579 U	0.056 U	0.0518 U	0.0512 U	0.0759 U	0.0526 U	0.0486 U	0.0493 U	0.0451 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.05 U	0.0497 U	0.0551 U	0.0579 U	0.056 U	0.0518 U	0.0512 U	0.0759 U	0.0526 U	0.0486 U	0.0493 U	0.0451 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.05 U	0.0497 U	0.0551 U	0.0579 U	0.056 U	0.0518 U	0.0512 U	0.0759 U	0.0526 U	0.0486 U	0.0493 U	0.0451 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-06							2023-SB-07						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023
Sample Type									N	N	N	FD	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-FD-07	2023-SB-06-0608	2023-SB-06-0810	2023-SB-06-1012	2023-SB-07-0002	2023-SB-07-0204	2023-SB-07-0406	2023-FD-06	2023-SB-07-0608	2023-SB-07-0810	2023-SB-07-1012
Volatiles																						
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.108 U	0.112 U	0.092 U	0.0953 U	0.097 U	0.0917 U	0.0856 U	0.0987 U	0.103 U	0.0888 U	0.0938 U	0.105 U	0.0986 U	0.088 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0541 U	0.056 U	0.046 U	0.0476 U	0.0485 U	0.0458 U	0.0428 U	0.0493 U	0.0517 U	0.0444 U	0.0469 U	0.0525 U	0.0493 U	0.044 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	1.08 U	1.12 U	0.92 U	0.953 U	0.97 U	0.917 U	0.856 U	0.987 U	1.03 U	0.888 U	0.938 U	1.05 U	0.986 U	0.88 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00541 UJ	0.0056 UJ	0.0046 UJ	0.00476 UJ	0.00485 UJ	0.00458 UJ	0.00428 UJ	0.00493 UJ	0.00517 UJ	0.00444 UJ	0.00469 UJ	0.00525 UJ	0.00493 UJ	0.0044 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-06							2023-SB-07						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023
Sample Type									N	N	N	FD	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-FD-07	2023-SB-06-0608	2023-SB-06-0810	2023-SB-06-1012	2023-SB-07-0002	2023-SB-07-0204	2023-SB-07-0406	2023-FD-06	2023-SB-07-0608	2023-SB-07-0810	2023-SB-07-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.108 U	0.112 U	0.092 U	0.0953 U	0.097 U	0.0917 U	0.0856 U	0.0987 U	0.103 U	0.0888 U	0.0938 U	0.105 U	0.0986 U	0.088 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.0108 U	0.0112 U	0.0092 U	0.00953 U	0.0097 U	0.00917 U	0.00856 U	0.00987 U	0.0103 U	0.00888 U	0.00938 U	0.0105 U	0.00986 U	0.0088 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0271 U	0.028 U	0.023 U	0.0238 U	0.0242 U	0.0229 U	0.0214 U	0.0247 U	0.0259 U	0.0222 U	0.0234 U	0.0263 U	0.0246 U	0.022 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00541 U	0.0056 U	0.0046 U	0.00476 U	0.00485 U	0.00458 U	0.00428 U	0.00493 U	0.00517 U	0.00444 U	0.00469 U	0.00525 U	0.00493 U	0.0044 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0162 U	0.0168 U	0.0138 U	0.0143 U	0.0145 U	0.0138 U	0.0128 U	0.0148 U	0.0155 U	0.0133 U	0.0141 U	0.0158 U	0.0148 U	0.0132 U
Semivolatiles																						
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.0585 J**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	1.5 UJ	0.774 UJ	0.762 UJ	0.741 UJ	0.757 UJ	0.752 UJ	0.749 UJ	**0.303 J**	0.742 UJ	0.728 UJ	0.735 UJ	0.728 UJ	0.757 UJ	0.756 UJ
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.0753**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.0652 J**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.0758**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.0748 J**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	**0.524**	0.364 U	0.378 U	0.378 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	**5.78**	**11.6**	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	**7.11**	**0.135 J**	**11.3**	**4.31**	**0.321**	0.191 U	0.191 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	**0.967**	**1.99**	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	**0.159 J**	**0.438**	**2.73**	**2.25**	**0.285 J**	0.378 U	0.378 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.079**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-06							2023-SB-07						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023
Sample Type									N	N	N	FD	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-FD-07	2023-SB-06-0608	2023-SB-06-0810	2023-SB-06-1012	2023-SB-07-0002	2023-SB-07-0204	2023-SB-07-0406	2023-FD-06	2023-SB-07-0608	2023-SB-07-0810	2023-SB-07-1012
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	**0.587 J**	**0.717**	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	**0.356 J**	0.368 U	0.364 U	0.378 U	0.378 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.167**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	0.075 U	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.38 U	0.196 U	0.193 U	0.187 U	0.192 U	0.19 U	0.189 U	0.178 U	0.188 U	0.184 U	0.186 U	0.184 U	0.191 U	0.191 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.159**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.152 U	0.0782 U	0.077 U	0.0749 U	0.0765 U	0.076 U	0.0757 U	0.071 U	**0.154**	0.0736 U	0.0743 U	0.0736 U	0.0765 U	0.0764 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.75 U	0.387 U	0.381 U	0.37 U	0.379 U	0.376 U	0.374 U	0.351 U	0.371 U	0.364 U	0.368 U	0.364 U	0.378 U	0.378 U
PCBs																						
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**23.5**	**34.8**	**0.115 J**	**0.225 J**	**0.296**	0.0225 U	**0.0202 J**	**2.84**	**1.05**	**16.2**	**14.5**	**1.11**	**0.0253**	**0.0595**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	1.14 U	1.17 U	0.023 U	0.0232 U	0.0225 U	0.0225 U	0.0218 U	0.109 U	0.0231 U	0.468 U	0.455 U	0.046 U	0.0237 U	0.023 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**23.5**	**34.8**	**0.115 J**	**0.225 J**	**0.296**	0.0225 U	**0.0202 J**	**2.84**	**1.05**	**16.2**	**14.5**	**1.11**	**0.0253**	**0.0595**
Metals																						
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	5.73 U	5.48 U	3.93 U	4.09 U	4.68 U	5.32 U	4.3 U	5.43 U	5.59 U	5.49 U	4.97 U	4.01 U	5.59 U	4.84 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**1.78 J**	**1.9 J**	**1.6 J**	**1.66 J**	**1.8 J**	**2.29 J**	**1.99 J**	**4.2**	**2.03 J**	**2.89 J**	**2.06 J**	**1.86 J**	3.35 U	2.9 U
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**130**	**225**	**23.5**	**20.6**	**24.6**	**21.9**	**18.2**	**33.1**	**26.3**	**31.4**	**26.7**	**30.1**	**20.6**	**19.4**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.177 J**	**0.255 J**	**0.325 J**	**0.28 J**	**0.253 J**	**0.285 J**	**0.229 J**	**0.332 J**	**0.238 J**	**0.29 J**	**0.256 J**	**0.265 J**	**0.222 J**	**0.215 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.573 U	0.548 U	0.393 U	0.409 U	0.468 U	0.532 U	0.43 U	0.543 U	0.559 U	0.549 U	0.497 U	0.401 U	0.559 U	0.484 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**2.35**	**4.27**	**6.63**	**6.28**	**6.12**	**5.9**	**5.14**	**9.47**	**3.92**	**9.44**	**10.6**	**11.4**	**4.58**	**6.33**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**13.4**	**27.8**	**2.9**	**2.9**	**2.87**	**3.46**	**2.69**	**6.36**	**3.02**	**4.51**	**5.21**	**3.25**	**2.22**	**2.25**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.069 U	0.0701 U	0.0661 U	0.0662 U	0.069 U	0.0668 U	0.0629 U	0.0666 U	0.065 U	0.0682 U	0.0674 U	0.0664 U	0.0683 U	0.0659 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**1.16**	**1.94**	**3.33**	**3.93**	**2.85**	**3.16**	**2.33**	**5.22**	**1.83**	**4.47**	**4.08**	**3.43**	**2.63**	**2.86**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	5.73 U	5.48 U	3.93 U	4.09 U	4.68 U	5.32 U	4.3 U	5.43 U	5.59 U	5.49 U	4.97 U	4.01 U	5.59 U	4.84 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	1.15 U	1.1 U	0.787 U	0.818 U	0.935 U	1.06 U	0.86 U	1.09 U	1.12 U	1.1 U	0.994 U	0.802 U	1.12 U	0.968 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.44 U	3.29 U	2.36 U	2.45 U	2.81 U	3.19 U	2.58 U	3.26 U	3.35 U	3.29 U	2.98 U	2.4 U	3.35 U	2.9 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**3.76**	**6.47**	**10.2**	**9.14**	**7.94**	**9.08**	**8.56**	**14**	**5.74**	**9.11**	**8.49**	**8.57**	**6.87**	**6.34**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**85.7**	**125**	**58.8**	**64**	**61.5**	**14.6**	**38.9**	**23.2**	**8.66**	**19.4**	**18.4**	**12.2**	**10.1**	**9.55**
PFAS																						
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.4 U	3.48 U	3.15 U	3.21 U	3.44 U	3.35 U	3.31 U	3.29 U	3.42 U	3.42 U	3.23 U	3.42 U	3.45 U	3.4 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.4 U	3.48 U	3.15 U	3.21 U	3.44 U	3.35 U	3.31 U	3.29 U	3.42 U	3.42 U	3.23 U	3.42 U	3.45 U	3.4 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-06							2023-SB-07						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft		6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023		03/03/2023	03/03/2023	03/03/2023
Sample Type									N	N	N	FD	N	N	N	N	N	N	FD	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-06-0002	2023-SB-06-0204	2023-SB-06-0406	2023-FD-07	2023-SB-06-0608	2023-SB-06-0810	2023-SB-06-1012	2023-SB-07-0002	2023-SB-07-0204	2023-SB-07-0406	2023-FD-06	2023-SB-07-0608	2023-SB-07-0810	2023-SB-07-1012
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.27 U	2.32 UJ	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.27 U	2.32 U	2.1 U	2.14 U	2.29 U	2.23 U	2.21 U	2.19 U	2.28 U	2.28 U	2.16 U	2.28 U	2.3 U	2.27 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	**0.422 J**	**0.491 J**	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.681 U	0.696 U	0.631 U	0.642 U	0.688 U	0.67 U	0.662 U	0.658 U	0.684 U	0.684 U	0.647 U	0.684 U	0.69 U	0.68 U
VPH																						
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0594 U	0.0538 U	0.0494 U	0.0525 U	0.0519 U	0.0468 U	0.0437 U	0.0443 U	0.047 U	0.0457 U	0.0661 U	0.0464 U	0.0609 U	0.0641 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.297 U	0.269 U	0.247 U	0.262 U	0.26 U	0.234 U	0.218 U	0.221 U	0.235 U	0.228 U	0.331 U	0.232 U	0.304 U	0.321 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.297 U	0.269 U	0.247 U	0.262 U	0.26 U	0.234 U	0.218 U	0.221 U	0.235 U	0.228 U	0.331 U	0.232 U	0.304 U	0.321 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	**0.0587 J**	0.269 U	0.247 U	0.262 U	0.26 U	0.234 U	0.218 U	0.221 U	0.235 U	0.228 U	**0.149 J**	0.232 U	0.304 U	0.321 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.297 U	0.269 U	0.247 U	0.262 U	0.26 U	0.234 U	0.218 U	0.221 U	0.235 U	0.228 U	**0.357**	0.232 U	0.304 U	0.321 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.176 J**	0.269 U	0.247 U	0.262 U	0.26 U	0.234 U	0.218 U	0.221 U	0.235 U	0.228 U	**0.506**	0.232 U	0.304 U	0.321 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0594 U	0.0538 U	0.0494 U	0.0525 U	0.0519 U	0.0468 U	0.0437 U	0.0443 U	0.047 U	0.0457 U	0.0661 U	0.0464 U	0.0609 U	0.0641 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.119 U	0.108 U	0.0988 U	0.105 U	0.104 U	0.0936 U	0.0873 U	0.0886 U	0.0939 U	0.0913 U	0.132 U	0.0929 U	0.122 U	0.128 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0594 U	0.0538 U	0.0494 U	0.0525 U	0.0519 U	0.0468 U	0.0437 U	0.0443 U	0.047 U	0.0457 U	0.0661 U	0.0464 U	0.0609 U	0.0641 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0594 U	0.0538 U	0.0494 U	0.0525 U	0.0519 U	0.0468 U	0.0437 U	0.0443 U	0.047 U	0.0457 U	0.098 U	0.0464 U	0.0609 U	0.0641 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0594 U	0.0538 U	0.0494 U	0.0525 U	0.0519 U	0.0468 U	0.0437 U	0.0443 U	0.047 U	0.0457 U	0.0661 U	0.0464 U	0.0609 U	0.0641 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0594 U	0.0538 U	0.0494 U	0.0525 U	0.0519 U	0.0468 U	0.0437 U	0.0443 U	0.047 U	0.0457 U	0.0661 U	0.0464 U	0.0609 U	0.0641 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-08						2023-SB-09					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-09-0002	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608	2023-SB-09-0810	2023-SB-09-1012	FD 2023-FD-09
Volatiles																					
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.109 U	0.105 U	0.0883 U	0.126 U	0.102 U	0.12 U	0.111 U	0.108 U	0.0841 U	0.107 U	0.363 U	0.101 U	0.0951 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 UJ	0.0108 UJ	0.00841 UJ	0.0107 UJ	0.0363 UJ	0.0101 UJ	0.00951 UJ
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0546 U	0.0523 U	0.0441 U	0.0632 U	0.0509 U	0.0598 U	0.0555 UJ	0.0539 UJ	0.042 UJ	0.0536 UJ	0.181 UJ	0.0506 UJ	0.0475 UJ
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 UJ	0.0108 UJ	0.00841 UJ	0.0107 UJ	0.0363 UJ	0.0101 UJ	0.00951 UJ
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 UJ	0.0108 UJ	0.00841 UJ	0.0107 UJ	0.0363 UJ	0.0101 UJ	0.00951 UJ
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	1.09 U	1.05 U	0.883 U	1.26 U	1.02 U	1.2 U	1.11 U	1.08 U	0.841 U	1.07 U	**1.29 J**	1.01 U	0.951 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 UJ	0.0108 UJ	0.00841 UJ	0.0107 UJ	0.0363 UJ	0.0101 UJ	0.00951 UJ
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 UJ	0.0108 UJ	0.00841 UJ	0.0107 UJ	0.0363 UJ	0.0101 UJ	0.00951 UJ
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00546 UJ	0.00523 UJ	0.00441 UJ	0.00632 UJ	0.00509 UJ	0.00598 UJ	0.00555 UJ	0.00539 UJ	**0.00805 J**	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-08						2023-SB-09						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	
Sample Date									03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N	FD
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-09-0002	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608	2023-SB-09-0810	2023-SB-09-1012	2023-FD-09
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.109 U	0.105 U	0.0883 U	0.126 U	0.102 U	0.12 U	0.111 U	0.108 U	0.0841 U	0.107 U	**0.116 J**	0.101 U	0.0951 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 UJ	0.00539 UJ	0.0042 UJ	0.00536 UJ	0.0181 UJ	0.00506 UJ	0.00475 UJ
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.0109 U	0.0105 U	0.00883 U	0.0126 U	0.0102 U	0.012 U	0.0111 U	0.0108 U	0.00841 U	0.0107 U	0.0363 U	0.0101 U	0.00951 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0273 U	0.0261 U	0.0221 U	0.0316 U	0.0255 U	0.0299 U	0.0278 U	0.027 U	0.021 U	0.0268 U	0.0907 U	0.0253 U	0.0238 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00546 U	0.00523 U	0.00441 U	0.00632 U	0.00509 U	0.00598 U	0.00555 U	0.00539 U	0.0042 U	0.00536 U	0.0181 U	0.00506 U	0.00475 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0164 U	0.0157 U	0.0132 U	0.019 U	0.0153 U	0.0179 U	0.0167 U	0.0162 U	0.0126 U	0.0161 U	0.0544 U	0.0152 U	0.0143 U
Semivolatiles																					
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	0.149 U	0.355 U	**0.63**	0.0801 U	0.0836 U	0.0786 U	0.079 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	0.149 U	0.355 U	**0.682**	0.0801 U	0.0836 U	0.0786 U	0.079 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**0.498**	**0.64**	**3.29**	**0.0648 J**	0.0836 U	**0.134**	**0.154**
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**0.368**	**0.488**	**3.63**	**0.0696 J**	0.0836 U	**0.106**	**0.0987**
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	0.716 UJ	0.674 UJ	1.36 UJ	0.742 UJ	0.693 UJ	0.768 UJ	1.47 UJ	3.51 UJ	3.63 UJ	0.793 UJ	0.827 UJ	0.778 UJ	0.781 U
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	**0.102**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**1.15**	**1.38**	**8.9**	**0.133**	0.0836 U	**0.276**	**0.28**
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**0.104**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**1.31**	**1.46**	**8.33**	**0.0882**	0.0836 U	**0.289**	**0.283**
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	**0.114**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**1.35**	**1.23**	**9.22**	**0.0978**	0.0836 U	**0.202**	**0.268**
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.0902**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**0.98**	**1.34**	**5.26**	**0.063 J**	0.0836 U	**0.192**	**0.219**
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.0936**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**0.862**	**1.14**	**4.96**	**0.0993**	0.0836 U	**0.14**	**0.195**
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.358 UJ	0.337 UJ	0.679 UJ	0.371 UJ	0.346 UJ	0.384 UJ	0.736 UJ	1.76 UJ	1.81 UJ	0.396 UJ	0.413 UJ	0.389 UJ	0.391 UJ
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	**0.265 J**	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	**0.739 J**	0.201 U	0.209 U	0.197 U	0.198 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.17**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**1.46**	**1.75**	**11.5**	**0.163**	0.0836 U	**0.351**	**0.356**
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**0.343**	**0.417**	**2.1**	0.0801 U	0.0836 U	**0.0863**	**0.0841**

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-08						2023-SB-09						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	
Sample Date									03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N	FD
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-09-0002	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608	2023-SB-09-0810	2023-SB-09-1012	2023-FD-09
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	**0.56 J**	0.201 U	0.209 U	0.197 U	0.198 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.24**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**2**	**1.92**	**11.1**	**0.359**	0.0836 U	**0.468**	**0.417**
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	0.149 U	0.355 U	**1.75**	0.0801 U	0.0836 U	0.0786 U	0.079 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 UJ	0.889 UJ	0.918 UJ	0.201 UJ	0.209 UJ	0.197 UJ	0.198 UJ
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	**0.083**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**0.84**	**0.968**	**4.5**	0.0801 U	0.0836 U	**0.193**	**0.19**
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	0.149 U	0.355 U	0.367 U	0.0801 U	0.0836 U	0.0786 U	0.079 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.0724 U	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	0.149 U	0.355 U	**1.13**	0.0801 U	0.0836 U	0.0786 U	0.079 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 UJ	0.889 UJ	0.918 UJ	0.201 UJ	0.209 UJ	0.197 UJ	0.198 UJ
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.181 U	0.171 U	0.344 U	0.188 U	0.175 U	0.194 U	0.372 U	0.889 U	0.918 U	0.201 U	0.209 U	0.197 U	0.198 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	**0.125**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**0.719**	**0.939**	**9.56**	**0.149**	0.0836 U	**0.214**	**0.236**
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.236**	0.0682 U	0.137 U	0.075 U	0.07 U	0.0776 U	**2.63**	**3.79**	**11.3**	**0.458**	0.0836 U	**0.748**	**0.731**
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.358 U	0.337 U	0.679 U	0.371 U	0.346 U	0.384 U	0.736 U	1.76 U	1.81 U	0.396 U	0.413 U	0.389 U	0.391 U
PCBs																					
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	0.0221 U	0.0214 U	0.0205 U	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	0.0221 U	0.0214 U	0.0205 U	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	0.0221 U	0.0214 U	0.0205 U	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	0.0221 U	0.0214 U	0.0205 U	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	0.0221 U	0.0214 U	0.0205 U	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	**0.0276**	**0.0703 J+**	**0.032**	**0.416 J+**	0.0229 U	0.0231 U	0.0235 U	**0.031**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	**0.032 J+**	0.0214 U	**0.0227 J+**	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	0.0221 U	0.0214 U	0.0205 U	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	0.0232 U	0.0221 U	0.0214 U	0.0205 U	0.0229 U	0.0231 U	0.0235 U	0.023 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	0.0207 U	0.0197 U	0.0203 U	0.0228 U	0.0208 U	**0.0276**	**0.1023 J**	**0.032**	**0.4387 J**	0.0229 U	0.0231 U	0.0235 U	**0.031**
Metals																					
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	**5.26**	4.2 U	4.64 U	4.45 U	4.82 U	4.93 U	5.12 UJ	4.71 UJ	4.94 UJ	5.36 UJ	4.55 UJ	4.86 UJ	4.22 UJ
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**15.2**	**3.57**	**2.03 J**	**7.29**	**5.85**	**3.04**	**3.74**	**3.21**	**3.45**	**7.73**	**12.5**	**3.59**	**4.36**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**193**	**17**	**12.7**	**42.7**	**31**	**22.6**	**29 J**	**28.8 J**	**24.4 J**	**75.6 J**	**92.1 J**	**25.3 J**	**23 J**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.904**	**0.25 J**	**0.202 J**	**0.731**	**0.425 J**	**0.332 J**	**0.509 J**	**0.396 J**	**0.318 J**	**1.09 J**	**1.55 J**	**0.298 J**	**0.305 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	**0.132 J**	0.42 U	0.464 U	0.445 U	0.482 U	0.493 U	0.512 U	0.471 U	0.494 U	0.536 U	0.455 U	0.486 U	0.422 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**15.7**	**5.87**	**2.87**	**12.3**	**9.87**	**12**	**11.8 J**	**8.18 J**	**6.14 J**	**20.4 J**	**25.5 J**	**5.27 J**	**5.33 J**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**36.7**	**2.56**	**1.67**	**4.75**	**4.39**	**2.33**	**10.1 J**	**12.3 J**	**8.25 J**	**8.01 J**	**9.85 J**	**6.78 J**	**6.18 J**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.0635 U	0.0591 U	0.0585 U	0.0689 U	0.0615 U	0.0705 U	0.0654 U	0.0645 U	0.0622 U	0.0683 U	0.0706 U	0.0689 U	0.0708 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**36.5**	**3.4**	**1.54**	**4.74**	**3.74**	**4.1**	**6.87 J**	**4.32 J**	**3.88 J**	**11.9 J**	**15.6 J**	**2.78 J**	**3.3 J**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	4.72 U	4.2 U	4.64 U	4.45 U	4.82 U	4.93 U	5.12 U	4.71 U	4.94 U	5.36 U	4.55 U	4.86 U	4.22 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	0.943 U	0.841 U	0.928 U	0.89 U	0.963 U	0.987 U	1.02 U	0.942 U	0.987 U	1.07 U	0.91 U	0.972 U	0.844 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.83 U	2.52 U	2.79 U	2.67 U	2.89 U	2.96 U	3.07 U	2.83 U	2.96 U	32.2 U	27.3 U	2.92 U	2.53 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**33.2**	**9.21**	**4.25**	**23**	**11.1**	**7.79**	**17.1 J**	**12.4 J**	**9.91 J**	**33.9 J**	**45.4 J**	**8.98 J**	**8.91 J**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**149**	**15.8**	**7.63**	**24.2**	**16**	**13.4**	**22.3 J**	**21.3 J**	**14.7 J**	**48.1 J**	**66.9 J**	**17.5 J**	**16.7 J**
PFAS																					
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.25 U	2.93 U	3.09 U	3.31 U	3.15 U	3.42 U	3.35 U	3.01 U	3.16 U	3.7 U	3.48 U	3.51 U	3.39 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.25 U	2.93 U	3.09 U	3.31 U	3.15 U	3.42 U	3.35 U	3.01 U	3.16 U	3.7 U	3.48 U	3.51 U	3.39 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-08						2023-SB-09						
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	
Sample Date									03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/02/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N	FD
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-08-0002	2023-SB-08-0204	2023-SB-08-0406	2023-SB-08-0608	2023-SB-08-0810	2023-SB-08-1012	2023-SB-09-0002	2023-SB-09-0204	2023-SB-09-0406	2023-SB-09-0608	2023-SB-09-0810	2023-SB-09-1012	2023-FD-09
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.17 UJ	1.95 U	2.06 UJ	2.21 UJ	2.1 UJ	2.28 U	2.23 UJ	2.01 UJ	2.11 UJ	2.47 UJ	2.32 U	2.34 U	2.26 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.17 UJ	1.95 UJ	2.06 UJ	2.21 UJ	2.1 UJ	2.28 U	2.23 UJ	2.01 UJ	2.11 UJ	2.47 UJ	2.32 U	2.34 U	2.26 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.17 U	1.95 U	2.06 U	2.21 U	2.1 U	2.28 U	2.23 U	2.01 U	2.11 U	2.47 U	2.32 U	2.34 U	2.26 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.65 U	0.585 U	0.618 U	0.662 U	0.63 U	0.684 U	0.669 U	0.602 U	0.632 U	0.74 U	0.695 U	0.702 U	0.679 U
VPH																					
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0526 U	0.0555 U	0.0604 U	0.0669 U	0.0466 U	0.0565 U	0.0611 U	0.0533 U	0.0768 U	0.053 U	0.0675 U	0.0544 U	0.0551 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.263 U	0.277 U	0.302 U	0.334 U	0.233 U	0.282 U	0.305 U	0.266 U	0.384 U	0.265 U	0.338 U	0.272 U	0.275 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.263 U	0.277 U	0.302 U	0.334 U	0.233 U	0.282 U	0.305 U	0.266 U	0.384 U	0.265 U	0.338 U	0.272 U	0.275 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.263 U	0.277 U	0.302 U	0.334 U	0.233 U	0.282 U	0.305 U	0.266 U	**0.26 J**	0.265 U	0.338 U	0.272 U	0.275 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.263 U	0.277 U	0.302 U	0.334 U	0.233 U	0.282 U	**0.21 J**	0.266 U	**0.17 J**	0.265 U	0.338 U	0.272 U	0.275 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.263 U	0.277 U	0.302 U	0.334 U	0.233 U	0.282 U	**0.21 J**	0.266 U	**0.43**	0.265 U	0.338 U	0.272 U	0.275 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0526 U	0.0555 U	0.0604 U	0.0669 U	0.0466 U	0.0565 U	0.0611 U	0.0533 U	0.0768 U	0.053 U	0.0675 U	0.0544 U	0.0551 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.105 U	0.111 U	0.121 U	0.134 U	0.0932 U	0.113 U	0.122 U	0.107 U	0.154 U	0.106 U	0.135 U	0.109 U	0.11 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0526 U	0.0555 U	0.0604 U	0.0669 U	0.0466 U	0.0565 U	0.0611 U	0.0533 U	0.0768 U	0.053 U	0.0675 U	0.0544 U	0.0551 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0526 U	0.0555 U	0.0604 U	0.0669 U	0.0466 U	0.0565 U	**0.0456 J**	0.0533 U	**0.379**	0.053 U	0.0675 U	0.0544 U	0.0551 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0526 U	0.0555 U	0.0604 U	0.0669 U	0.0466 U	0.0565 U	0.0611 U	0.0533 U	0.0768 U	0.053 U	0.0675 U	0.0544 U	0.0551 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0526 U	0.0555 U	0.0604 U	0.0669 U	0.0466 U	0.0565 U	0.0611 U	0.0533 U	0.0768 U	0.053 U	0.0675 U	0.0544 U	0.0551 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-10						2023-SB-11					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002	2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
Volatiles																				
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.11 U	0.115 U	0.106 U	0.103 U	0.105 U	0.092 U	0.0955 U	0.104 UJ	0.0975 U	0.11 U	0.099 U	0.09 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.011 UJ	0.0115 UJ	0.0106 UJ	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0549 UJ	0.0573 UJ	0.0531 UJ	**0.018 J**	0.0525 UJ	0.046 UJ	0.0477 UJ	0.0519 UJ	0.0488 UJ	0.0548 UJ	0.0495 UJ	0.045 UJ
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.011 UJ	0.0115 UJ	0.0106 UJ	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.011 UJ	0.0115 UJ	0.0106 UJ	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	1.1 U	1.15 U	1.06 U	1.03 U	1.05 U	0.92 U	0.955 U	1.04 UJ	0.975 U	1.1 U	0.99 U	0.9 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.011 UJ	0.0115 UJ	0.0106 UJ	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ	0.0104 UJ	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.011 UJ	0.0115 UJ	0.0106 UJ	0.0103 UJ	0.0105 UJ	0.0092 UJ	0.00955 UJ	**0.00529 J**	0.00975 UJ	0.011 UJ	0.0099 UJ	0.009 UJ
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-10						2023-SB-11					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-10-0002	2023-SB-10-0204	2023-SB-10-0406	2023-SB-10-0608	2023-SB-10-0810	2023-SB-10-1012	2023-SB-11-0002	2023-SB-11-0204	2023-SB-11-0406	2023-SB-11-0608	2023-SB-11-0810	2023-SB-11-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.11 U	0.115 U	0.106 U	0.103 U	0.105 U	0.092 U	0.0955 U	0.104 UJ	0.0975 U	0.11 U	0.099 U	0.09 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00549 UJ	0.00573 UJ	0.00531 UJ	0.00513 UJ	0.00525 UJ	0.0046 UJ	0.00477 UJ	0.00519 UJ	0.00488 UJ	0.00548 UJ	0.00495 UJ	0.0045 UJ
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.011 U	0.0115 U	0.0106 U	0.0103 U	0.0105 U	0.0092 U	0.00955 U	0.0104 UJ	0.00975 U	0.011 U	0.0099 U	0.009 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0275 U	0.0286 U	0.0266 U	0.0256 U	0.0262 U	0.023 U	0.0239 U	0.0259 UJ	0.0244 U	0.0274 U	0.0247 U	0.0225 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00549 U	0.00573 U	0.00531 U	0.00513 U	0.00525 U	0.0046 U	0.00477 U	0.00519 UJ	0.00488 U	0.00548 U	0.00495 U	0.0045 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0165 U	0.0172 U	0.0159 U	0.0154 U	0.0157 U	0.0138 U	0.0143 U	0.0156 UJ	0.0146 U	0.0164 U	0.0148 U	0.0135 U
Semivolatiles																				
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 UJ	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 UJ	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.0743 U	**0.0604 J**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 UJ	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0743 U	0.0771 U	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	**0.229**	**0.0693 J**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 UJ	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.143**	**0.047 J**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	0.735 U	0.763 U	0.753 U	0.796 U	0.774 U	0.791 U	0.681 UJ	0.755 UJ	0.776 UJ	0.729 UJ	0.755 UJ	0.865 UJ
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	**0.218**	**0.176**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	**0.26**	**0.175**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	**0.151**	**0.259**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.224**	**0.173**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.181**	**0.187**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 UJ	0.378 UJ	0.388 UJ	0.364 UJ	0.377 UJ	0.433 UJ
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	**0.255**	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	**0.0559 J**	0.191 U	0.219 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	**0.0492 J**	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	**0.252**	**0.307**	**0.0475 J**	0.0805 U	0.0782 U	0.08 U	0.0688 U	**0.0791**	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	**0.0664 J**	**0.0687 J**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-10						2023-SB-11					
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**	**03/06/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-10-0002**	**2023-SB-10-0204**	**2023-SB-10-0406**	**2023-SB-10-0608**	**2023-SB-10-0810**	**2023-SB-10-1012**	**2023-SB-11-0002**	**2023-SB-11-0204**	**2023-SB-11-0406**	**2023-SB-11-0608**	**2023-SB-11-0810**	**2023-SB-11-1012**
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	**0.567**	**5.9**	0.376 U	0.398 U	0.387 U	0.396 U	**0.15 J**	**2.31**	**0.0474 J**	**0.0462 J**	0.377 U	0.433 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.169**	**0.413**	**0.0848**	0.0805 U	0.0782 U	0.08 U	0.0688 U	**0.072 J**	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0743 U	0.0771 U	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.186 UJ	0.193 UJ	0.191 UJ	0.202 UJ	0.196 UJ	0.2 UJ	0.172 UJ	0.191 UJ	0.196 UJ	0.184 UJ	0.191 UJ	0.219 UJ
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 UJ	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	**0.15**	**0.153**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 U	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0743 U	0.0771 U	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.0743 U	**0.0724 J**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	0.0763 U	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 UJ	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.186 UJ	0.193 UJ	0.191 UJ	0.202 UJ	0.196 UJ	0.2 UJ	0.172 UJ	0.191 UJ	0.196 UJ	0.184 UJ	0.191 UJ	0.219 UJ
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.186 U	0.193 U	0.191 U	0.202 U	0.196 U	0.2 U	0.172 UJ	0.191 U	0.196 U	0.184 U	0.191 U	0.219 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 UJ	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	**0.112**	**0.293**	0.0761 U	0.0805 U	0.0782 U	0.08 U	0.0688 U	**0.0783**	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**0.373**	**0.422**	**0.0899**	0.0805 U	0.0782 U	0.08 U	0.0688 U	**0.0767**	0.0785 U	0.0736 U	0.0763 U	0.0874 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.368 U	0.382 U	0.376 U	0.398 U	0.387 U	0.396 U	0.34 U	0.378 U	0.388 U	0.364 U	0.377 U	0.433 U
PCBs																				
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0204 U	0.0237 U	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0204 U	0.0237 U	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0204 U	0.0237 U	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0204 U	0.0237 U	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0204 U	0.0237 U	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.148**	**0.0221 J**	0.0228 U	0.0235 U	0.0223 U	0.024 U	**0.656**	**0.0511**	0.0225 U	**0.261**	0.0224 U	**0.0909**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0204 U	**0.0211 J**	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	**0.0186 J**	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0204 U	0.0237 U	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0204 U	0.0237 U	0.0228 U	0.0235 U	0.0223 U	0.024 U	0.0182 U	0.0225 U	0.0225 U	0.0227 U	0.0224 U	0.0261 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.148**	**0.0432 J**	0.0228 U	0.0235 U	0.0223 U	0.024 U	**0.656**	**0.0697 J**	0.0225 U	**0.261**	0.0224 U	**0.0909**
Metals																				
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	4.58 UJ	4.58 UJ	4.31 UJ	5.89 UJ	4.88 UJ	4.43 UJ	4.7 UJ	5.71 UJ	4.69 UJ	5.64 UJ	5.13 UJ	5.05 UJ
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**4.62**	**8.14**	**7.56**	**3.4 J**	2.93 U	**3.94**	**3.05**	**3.14 J**	**1.66 J**	**1.92 J**	**3.5**	**2.89 J**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**90.7 J**	**282 J**	**240 J**	**46.4 J**	**24.1 J**	**109 J**	**33.7 J**	**17.9 J**	**21.1 J**	**23.2 J**	**64.9 J**	**49.3 J**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.439 J**	**0.835 J**	**0.567 J**	**0.552 J**	**0.335 J**	**1.62 J**	**0.381 J**	**0.381 J**	**0.262 J**	**0.388 J**	**0.796 J**	**0.675 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	**0.318 J**	**0.326 J**	**0.376 J**	0.589 U	0.488 U	0.443 U	0.47 U	0.571 U	0.469 U	0.564 U	0.513 U	0.505 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**7.56 J**	**9.64 J**	**13.1 J**	**6.22 J**	**5.69 J**	**31.2 J**	**7.68 J**	**4.8 J**	**5.28 J**	**8.28 J**	**17.5 J**	**15.4 J**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**30.8 J**	**65 J**	**99.4 J**	**104 J**	**3.98 J**	**10.1 J**	**4.67 J**	**5.93 J**	**5.55 J**	**7.58 J**	**6.66 J**	**6.14 J**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	**0.0395 J**	**0.0572 J**	**0.03 J**	0.0707 U	0.0697 U	0.0696 U	0.0597 U	0.0698 U	0.0715 U	0.0662 U	0.0653 U	0.0774 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**6.9 J**	**16.4 J**	**7.76 J**	**2.91 J**	**2.29 J**	**15.6 J**	**3.38 J**	**2.87 J**	**1.95 J**	**2.45 J**	**10.2 J**	**6.16 J**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	4.58 U	4.58 U	4.31 U	5.89 U	4.88 U	4.43 U	4.7 U	5.71 U	4.69 U	5.64 U	5.13 U	5.05 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	0.916 U	0.917 U	0.863 U	1.18 U	0.976 U	**0.433 J**	0.941 U	1.14 U	0.938 U	1.13 U	1.03 U	1.01 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	**1.93 J**	**1.63 J**	**1.75 J**	3.54 U	2.93 U	26.6 U	28.2 U	3.42 U	2.82 U	3.39 U	30.8 U	30.3 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**12.4 J**	**14.5 J**	**13.4 J**	**8.58 J**	**6.96 J**	**50.8 J**	**14.5 J**	**6.62 J**	**6.24 J**	**6.33 J**	**27.2 J**	**17.7 J**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**106 J**	**148 J**	**181 J**	**23 J**	**19.5 J**	**65.9 J**	**17 J**	**16.1 J**	**15.4 J**	**13.4 J**	**34.4 J**	**22 J**
PFAS																				
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.38 U	3.44 U	3.34 U	3.54 U	3.63 U	3.49 U	3.13 U	3.2 U	3.47 U	3.26 U	3.38 U	3.71 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.38 U	3.44 U	3.34 U	3.54 U	3.63 U	3.49 U	3.13 U	3.2 U	3.47 U	3.26 U	3.38 U	3.71 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-10						2023-SB-11					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023	03/06/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-10-0002**	**2023-SB-10-0204**	**2023-SB-10-0406**	**2023-SB-10-0608**	**2023-SB-10-0810**	**2023-SB-10-1012**	**2023-SB-11-0002**	**2023-SB-11-0204**	**2023-SB-11-0406**	**2023-SB-11-0608**	**2023-SB-11-0810**	**2023-SB-11-1012**
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 UJ	2.14 U	2.31 UJ	2.17 UJ	2.25 UJ	2.48 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 UJ	2.14 U	2.31 UJ	2.17 UJ	2.25 UJ	2.48 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.25 U	2.29 U	2.22 U	2.36 U	2.42 U	2.33 U	2.09 U	2.14 U	2.31 U	2.17 U	2.25 U	2.48 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.676 U	**0.238 J**	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	**0.448 J**	**0.414 J**	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.676 U	0.688 U	0.667 U	0.707 U	0.725 U	0.699 U	0.626 U	0.641 U	0.694 U	0.652 U	0.676 U	0.743 U
VPH																				
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.052 U	0.0661 U	0.0563 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.26 U	**4.28**	**0.181 J**	0.306 U	0.264 U	0.255 U	0.247 U	**1.86**	0.268 U	0.249 U	0.238 U	0.239 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.26 U	**4.28**	**0.181 J**	0.306 U	0.264 U	0.255 U	0.247 U	**1.86**	0.268 U	0.249 U	0.238 U	0.239 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.26 U	**0.425**	0.281 U	0.306 U	0.264 U	0.255 U	0.247 U	**0.143 J**	0.268 U	0.249 U	0.238 U	0.239 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.26 U	**1.33**	0.281 U	0.306 U	0.264 U	0.255 U	0.247 U	**0.436**	0.268 U	0.249 U	0.238 U	0.239 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.26 U	**1.81**	0.281 U	0.306 U	0.264 U	0.255 U	0.247 U	**0.622**	0.268 U	0.249 U	0.238 U	0.239 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.052 U	**0.0503 J**	0.0563 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U	**0.021 J**	0.0536 U	0.0499 U	0.0476 U	0.0478 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.104 U	0.132 U	0.113 U	0.123 U	0.106 U	0.102 U	0.099 U	0.11 U	0.107 U	0.0998 U	0.0953 U	0.0955 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.052 U	0.0661 U	0.0563 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.052 U	0.0661 U	0.0563 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.052 U	0.0661 U	0.0563 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U	**0.022 J**	0.0536 U	0.0499 U	0.0476 U	0.0478 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.052 U	0.0661 U	0.0563 U	0.0613 U	0.0528 U	0.0509 U	0.0495 U	0.0549 U	0.0536 U	0.0499 U	0.0476 U	0.0478 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-12							2023-SB-13						
Depth Interval									0 - 1 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft		4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/24/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/01/2023	03/01/2023		03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-12-0001	2023-SB-12-0002	2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012	2023-SB-13-0002	2023-SB-13-0204	2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
Volatiles																						
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 UJ	0.00553 UJ	0.00571 UJ	0.00503 UJ	0.00483 UJ	0.00505 UJ	0.00521 UJ
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 UJ	0.00553 UJ	0.00571 UJ	0.00503 UJ	0.00483 UJ	0.00505 UJ	0.00521 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	NA	0.0971 U	0.106 U	0.096 U	0.0943 U	0.0898 U	0.0886 UJ	0.0988 U	0.111 U	0.114 U	0.101 U	0.0966 U	0.101 U	0.104 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	NA	0.0486 U	0.0529 U	0.048 U	0.0471 U	0.0449 U	0.0443 UJ	0.0494 U	0.0553 U	0.0571 U	0.0503 U	0.0483 U	0.0505 U	0.0521 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 UJ	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 UJ	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	NA	0.971 U	1.06 U	0.96 U	0.943 U	0.898 U	0.886 UJ	0.988 U	1.11 U	1.14 U	1.01 U	0.966 U	1.01 U	1.04 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 UJ	0.0111 UJ	0.0114 UJ	0.0101 UJ	0.00966 UJ	0.0101 UJ	0.0104 UJ
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	NA	0.00486 UJ	0.00529 UJ	0.0048 UJ	0.00471 UJ	0.00449 UJ	0.00443 UJ	0.00494 UJ	0.00553 UJ	0.00571 UJ	0.00503 UJ	0.00483 UJ	0.00505 UJ	0.00521 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 U	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-12							2023-SB-13						
Depth Interval									0 - 1 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft		4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/24/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/01/2023	03/01/2023		03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-12-0001	2023-SB-12-0002	2023-SB-12-0204	2023-SB-12-0406	2023-SB-12-0608	2023-SB-12-0810	2023-SB-12-1012	2023-SB-13-0002	2023-SB-13-0204	2023-FD-04	2023-SB-13-0406	2023-SB-13-0608	2023-SB-13-0810	2023-SB-13-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	NA	0.0971 U	0.106 U	0.096 U	0.0943 U	0.0898 U	0.0886 UJ	0.0988 U	0.111 U	0.114 U	0.101 U	0.0966 U	0.101 U	0.104 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	NA	0.00971 U	0.0106 U	0.0096 U	0.00943 U	0.00898 U	0.00886 UJ	0.00988 U	0.0111 U	0.0114 U	0.0101 U	0.00966 U	0.0101 U	0.0104 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	NA	0.0243 U	0.0264 U	0.024 U	0.0236 U	0.0224 U	0.0222 U	0.0247 U	0.0277 U	0.0286 U	0.0251 U	0.0241 U	0.0252 U	0.0261 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	NA	0.00486 U	0.00529 U	0.0048 U	0.00471 U	0.00449 U	0.00443 U	0.00494 U	0.00553 U	0.00571 U	0.00503 U	0.00483 U	0.00505 U	0.00521 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	NA	0.0146 U	0.0159 U	0.0144 U	0.0141 U	0.0135 U	0.0133 U	0.0148 U	0.0166 U	0.0171 U	0.0151 U	0.0145 U	0.0151 U	0.0156 U
Semivolatiles																						
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	**1.21**	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	NA	0.16 U	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 UJ	0.175 UJ	0.172 UJ	0.177 UJ	0.338 UJ	0.176 UJ	0.209 UJ
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	0.16 U	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	NA	**0.139 J**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 UJ	0.346 UJ	0.34 UJ	0.35 UJ	0.667 UJ	0.347 UJ	0.413 UJ
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**0.13 J**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	NA	1.58 UJ	0.75 UJ	0.713 UJ	0.749 UJ	0.792 UJ	R	**1.62 J**	R	R	R	R	R	R
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	NA	**0.276**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.19**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	NA	**0.579**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.13 J**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	NA	**1.93**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.211**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**1.01**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.114 J**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	NA	**1.31**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.171**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	NA	**2.67 J**	0.375 UJ	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	NA	**60.2**	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	**8.64**	0.175 U	0.172 U	0.177 U	**0.315 J**	0.176 U	0.209 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	NA	**6.11 J**	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	**1.53**	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	NA	**0.585**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.296**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	NA	**0.3**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-12							2023-SB-13						
Depth Interval									**0 - 1 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**		**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**03/24/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/03/2023**	**03/01/2023**	**03/01/2023**		**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**FD**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-12-0001**	**2023-SB-12-0002**	**2023-SB-12-0204**	**2023-SB-12-0406**	**2023-SB-12-0608**	**2023-SB-12-0810**	**2023-SB-12-1012**	**2023-SB-13-0002**	**2023-SB-13-0204**	**2023-FD-04**	**2023-SB-13-0406**	**2023-SB-13-0608**	**2023-SB-13-0810**	**2023-SB-13-1012**
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	NA	**27.1**	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	**1.71**	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**1.57**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.423**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	0.16 U	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 UJ	0.175 UJ	0.172 UJ	0.177 UJ	0.338 UJ	0.176 UJ	0.209 UJ
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	NA	**0.858**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	NA	0.16 U	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	NA	0.16 U	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	0.142 U	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	NA	0.4 U	0.19 U	0.18 U	0.19 U	0.2 U	0.182 U	0.356 U	0.175 U	0.172 U	0.177 U	0.338 U	0.176 U	0.209 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	NA	**1.2**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.16**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**1.47**	0.0758 U	0.072 U	0.0757 U	0.08 U	0.0728 U	**0.379**	0.07 U	0.0688 U	0.0708 U	0.135 U	0.0702 U	0.0836 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	NA	0.791 U	0.375 U	0.356 U	0.375 U	0.396 U	0.36 U	0.704 U	0.346 U	0.34 U	0.35 U	0.667 U	0.347 U	0.413 U
PCBs																						
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**9.08 J+**	**362**	**0.0905**	**0.172**	0.0228 U	0.024 U	**0.0274 J**	**10.3**	**0.0181 J**	**0.0217**	**0.0182 J**	**0.141**	0.0205 U	0.0244 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.248 U	11.9 U	0.0229 U	0.0223 U	0.0228 U	0.024 U	0.023 U	0.42 U	0.0208 U	0.021 U	0.0212 U	0.0203 U	0.0205 U	0.0244 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**9.08 J+**	**362**	**0.0905**	**0.172**	0.0228 U	0.024 U	**0.0274 J**	**10.3**	**0.0181 J**	**0.0217**	**0.0182 J**	**0.141**	0.0205 U	0.0244 U
Metals																						
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	NA	5.19 U	4.01 U	4.88 U	4 U	5.98 UJ	4.31 U	4.16 U	4.77 U	4.98 U	4.97 U	4.7 U	4.95 U	4.28 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	NA	**4.67**	**2.4 J**	**1.59 J**	**2.02 J**	**7.9**	**3.17**	**12.8**	**4.84**	**4.86**	**2.32 J**	**5.16**	**2.75 J**	**10.1**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**66.5**	**12**	**10**	**12.8**	**80.1 J+**	**17.6 J**	**29.4**	**11.9**	**10.9**	**16.8**	**22.5**	**14.9**	**103**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	NA	**0.547**	**0.363 J**	**0.248 J**	**0.209 J**	**1.17**	**0.348 J**	**0.201 J**	**0.209 J**	**0.187 J**	**0.308 J**	**0.304 J**	**0.238 J**	**1.44**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	NA	0.519 U	0.401 U	0.488 U	0.4 U	0.598 U	0.431 U	0.416 U	0.477 U	0.498 U	0.497 U	0.47 U	0.495 U	0.428 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	NA	**9.8**	**5.44**	**2.85**	**3.76**	**21.4**	**6.59**	**4.55**	**4.88**	**4.44**	**7.2**	**6.88**	**5.8**	**29.1**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	**1.41 J**	19.1 U	19.9 U	19.9 U	18.8 U	19.8 U	17.1 U
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	NA	**26.9**	**2.99**	**1.93**	**2.05**	**7.35 J**	**2.85 J**	**9.6**	**2.64**	**2.32**	**3.12**	**4.23**	**2.88**	**12.6**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	NA	**0.0512 J**	0.0681 U	0.0631 U	0.0688 U	0.0686 U	0.0686 U	0.0594 U	0.0636 U	0.0634 U	0.0633 U	0.0601 U	0.0615 U	0.0742 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	NA	**4.04**	**2.96**	**2.49**	**2.15**	**10.9**	**3.47**	**2.34**	**2.17**	**1.87**	**2.49**	**4.08**	**2.68**	**15**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	NA	5.19 U	4.01 U	4.88 U	4 U	5.98 U	4.31 U	4.16 U	4.77 U	4.98 U	4.97 U	4.7 U	4.95 U	4.28 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	NA	1.04 U	0.802 U	0.976 U	0.801 U	1.2 U	0.861 U	0.832 U	0.955 U	0.997 U	0.993 U	0.94 U	0.99 U	0.856 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	NA	3.11 U	2.41 U	2.93 U	2.4 U	35.9 U	2.58 UJ	2.49 U	2.86 U	2.99 U	2.98 U	2.82 U	2.97 U	25.7 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	NA	**15.4**	**8.1**	**4.9**	**5.76**	**34.9**	**9.07 J+**	**7.12**	**7.54**	**6.79**	**8.57**	**10.1**	**8.38**	**47.9**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**161**	**17.8**	**28.3**	**19.2**	**47.7**	**28 J**	**14.3**	**9.04**	**8.56**	**10.1**	**13.8**	**11.8**	**60.6**
PFAS																						
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	NA	2.4 U	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	NA	2.4 U	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	NA	2.4 U	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	NA	3.6 U	3.3 U	3.12 U	3.32 U	3.59 U	3.42 U	3.09 U	3.12 U	3.05 U	2.95 U	2.85 U	3.11 U	3.56 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	NA	2.4 UJ	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 UJ	2.08 UJ	2.03 UJ	1.97 UJ	1.9 U	2.08 U	2.37 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	NA	2.4 UJ	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 UJ	2.08 UJ	2.03 UJ	1.97 UJ	1.9 U	2.08 U	2.37 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	NA	3.6 UJ	3.3 U	3.12 U	3.32 U	3.59 U	3.42 U	3.09 UJ	3.12 UJ	3.05 UJ	2.95 UJ	2.85 U	3.11 U	3.56 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	NA	2.4 U	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-12							2023-SB-13						
Depth Interval									0 - 1 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft		4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/24/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/03/2023	03/01/2023	03/01/2023		03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	N	N	N	N	N	N	N	FD	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-12-0001**	**2023-SB-12-0002**	**2023-SB-12-0204**	**2023-SB-12-0406**	**2023-SB-12-0608**	**2023-SB-12-0810**	**2023-SB-12-1012**	**2023-SB-13-0002**	**2023-SB-13-0204**	**2023-FD-04**	**2023-SB-13-0406**	**2023-SB-13-0608**	**2023-SB-13-0810**	**2023-SB-13-1012**
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	NA	2.4 UJ	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 UJ	2.03 U	1.97 UJ	1.9 U	2.08 U	2.37 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	NA	2.4 UJ	2.2 UJ	2.08 U	2.22 U	2.39 UJ	2.28 U	R	R	R	R	1.9 UJ	2.08 UJ	2.37 UJ
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	NA	2.4 U	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	NA	R	2.2 UJ	2.08 U	2.22 U	2.39 UJ	2.28 U	R	R	R	R	1.9 UJ	2.08 UJ	2.37 UJ
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	NA	2.4 U	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	NA	2.4 UJ	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	NA	2.4 UJ	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 UJ	2.03 UJ	1.97 UJ	1.9 U	2.08 U	2.37 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	NA	2.4 U	2.2 U	2.08 U	2.22 U	2.39 U	2.28 U	2.06 U	2.08 U	2.03 U	1.97 U	1.9 U	2.08 U	2.37 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	NA	0.72 U	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 U	0.609 U	0.59 U	0.569 U	0.623 U	0.712 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	NA	0.72 UJ	0.66 U	0.624 U	0.665 U	0.717 U	0.684 U	0.619 U	0.623 UJ	0.609 UJ	0.59 UJ	0.569 U	0.623 U	0.712 U
VPH																						
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	NA	0.0585 U	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U	0.0501 U	0.0533 U	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	NA	**11.5**	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U	0.251 U	0.267 U	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	NA	**11.5**	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U	0.251 U	0.267 U	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	NA	**1.57**	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U	0.251 U	0.267 U	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**4.2**	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U	0.251 U	0.267 U	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	NA	**5.87**	0.281 U	0.244 U	0.223 U	0.41 U	0.402 U	0.251 U	0.267 U	0.278 U	0.262 U	0.273 U	0.24 U	0.254 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	NA	**0.0346 J**	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U	0.0501 U	0.0533 U	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	NA	**0.0605 J**	0.112 U	0.0974 U	0.0893 U	0.164 U	0.161 U	0.1 U	0.107 U	0.111 U	0.105 U	0.109 U	0.0961 U	0.101 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	NA	0.0585 U	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U	0.0501 U	0.0533 U	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	NA	0.0585 U	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U	0.0501 U	0.0533 U	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	NA	0.0585 U	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U	0.0501 U	0.0533 U	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	NA	0.0585 U	0.0562 U	0.0487 U	0.0446 U	0.0821 U	0.0804 U	0.0501 U	0.0533 U	0.0557 U	0.0524 U	0.0545 U	0.0481 U	0.0507 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-14						2023-SB-15					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-14-0002	2023-SB-14-0204	2023-SB-14-0406	2023-SB-14-0608	2023-SB-14-0810	2023-SB-14-1012	2023-SB-15-0002	2023-SB-15-0204	2023-SB-15-0406	2023-SB-15-0608	2023-SB-15-0810	2023-SB-15-1012
Volatiles																				
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00495 UJ	0.00484 UJ	0.00511 UJ	0.0052 UJ	0.00574 UJ	0.00496 UJ	0.00537 UJ	0.00507 UJ	0.00522 UJ	0.00555 UJ	0.00551 UJ	0.00528 UJ
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00495 UJ	0.00484 UJ	0.00511 UJ	0.0052 UJ	0.00574 UJ	0.00496 UJ	0.00537 UJ	0.00507 UJ	0.00522 UJ	0.00555 UJ	0.00551 UJ	0.00528 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.0989 U	0.0967 U	0.102 U	0.104 U	0.115 U	0.0993 U	0.107 U	0.101 U	0.104 U	0.111 U	0.11 U	0.106 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0495 U	0.0484 U	0.0511 U	0.052 U	0.0574 U	0.0496 U	0.0537 U	0.0507 U	0.0522 U	0.0555 U	0.0551 U	0.0528 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	0.989 U	0.967 U	1.02 U	1.04 U	1.15 U	0.993 U	1.07 U	1.01 U	1.04 U	1.11 U	1.1 U	1.06 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.00989 UJ	0.00967 UJ	0.0102 UJ	0.0104 UJ	0.0115 UJ	0.00993 UJ	0.0107 UJ	0.0101 UJ	0.0104 UJ	0.0111 UJ	0.011 UJ	0.0106 UJ
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00495 UJ	0.00484 UJ	0.00511 UJ	0.0052 UJ	0.00574 UJ	0.00496 UJ	0.00537 UJ	0.00507 UJ	0.00522 UJ	0.00555 UJ	0.00551 UJ	0.00528 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-14						2023-SB-15					
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-14-0002**	**2023-SB-14-0204**	**2023-SB-14-0406**	**2023-SB-14-0608**	**2023-SB-14-0810**	**2023-SB-14-1012**	**2023-SB-15-0002**	**2023-SB-15-0204**	**2023-SB-15-0406**	**2023-SB-15-0608**	**2023-SB-15-0810**	**2023-SB-15-1012**
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.0989 U	0.0967 U	0.102 U	0.104 U	0.115 U	0.0993 U	0.107 U	0.101 U	0.104 U	0.111 U	0.11 U	0.106 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.00989 U	0.00967 U	0.0102 U	0.0104 U	0.0115 U	0.00993 U	0.0107 U	0.0101 U	0.0104 U	0.0111 U	0.011 U	0.0106 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0247 U	0.0242 U	0.0255 U	0.026 U	0.0287 U	0.0248 U	0.0269 U	0.0253 U	0.0261 U	0.0278 U	0.0276 U	0.0264 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00495 U	0.00484 U	0.00511 U	0.0052 U	0.00574 U	0.00496 U	0.00537 U	0.00507 U	0.00522 U	0.00555 U	0.00551 U	0.00528 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0148 U	0.0145 U	0.0153 U	0.0156 U	0.0172 U	0.0149 U	0.0161 U	0.0152 U	0.0157 U	0.0167 U	0.0165 U	0.0158 U
Semivolatiles																				
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.175 UJ	0.17 UJ	0.169 UJ	0.17 UJ	0.19 UJ	0.198 UJ	0.336 UJ	0.172 UJ	0.174 UJ	0.175 UJ	0.187 UJ	0.199 UJ
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.345 UJ	0.336 UJ	0.333 UJ	0.336 UJ	0.376 UJ	0.391 UJ	0.665 UJ	0.34 UJ	0.343 UJ	0.346 UJ	0.37 UJ	0.393 UJ
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	R	R	R	R	R	R	R	R	R	R	R	R
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	**1.36 J**	0.393 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	**0.0974 J**	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	**0.0999 J**	**0.162 J**	0.174 U	0.175 U	0.187 U	**0.17 J**
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-14						2023-SB-15					
Depth Interval									**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**	**0 - 2 ft**	**2 - 4 ft**	**4 - 6 ft**	**6 - 8 ft**	**8 - 10 ft**	**10 - 12 ft**
Sample Date									**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**	**03/01/2023**
Sample Type									**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-14-0002**	**2023-SB-14-0204**	**2023-SB-14-0406**	**2023-SB-14-0608**	**2023-SB-14-0810**	**2023-SB-14-1012**	**2023-SB-15-0002**	**2023-SB-15-0204**	**2023-SB-15-0406**	**2023-SB-15-0608**	**2023-SB-15-0810**	**2023-SB-15-1012**
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.175 UJ	0.17 UJ	0.169 UJ	0.17 UJ	0.19 UJ	0.198 UJ	0.336 UJ	0.172 UJ	0.174 UJ	0.175 UJ	0.187 UJ	0.199 UJ
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.175 U	0.17 U	0.169 U	0.17 U	0.19 U	0.198 U	0.336 U	0.172 U	0.174 U	0.175 U	0.187 U	0.199 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.0697 U	0.0679 U	0.0674 U	0.0679 U	0.076 U	0.079 U	0.134 U	0.0688 U	0.0694 U	0.07 U	0.0747 U	0.0794 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.345 U	0.336 U	0.333 U	0.336 U	0.376 U	0.391 U	0.665 U	0.34 U	0.343 U	0.346 U	0.37 U	0.393 U
PCBs																				
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.137**	0.0196 U	0.02 U	**0.0829**	0.0217 U	0.0229 U	**0.088**	**0.0169 J**	**1.09**	0.0208 U	**0.0818**	**0.0321**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.021 U	0.0196 U	0.02 U	0.0205 U	0.0217 U	0.0229 U	0.0204 U	0.0205 U	0.206 U	0.0208 U	0.0185 U	0.0228 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.137**	0.0196 U	0.02 U	**0.0829**	0.0217 U	0.0229 U	**0.088**	**0.0169 J**	**1.09**	0.0208 U	**0.0818**	**0.0321**
Metals																				
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	4.26 U	4.91 U	3.5 U	3.58 U	5.61 U	4.55 U	5.09 U	4.98 U	4.98 U	4.92 U	4.31 U	5.16 U
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**2.29 J**	**1.68 J**	**1.39 J**	**2.21**	**2.65 J**	**2.61 J**	**1.98 J**	**2.38 J**	**2.74 J**	**1.98 J**	**2.06 J**	**2.74 J**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**13.6**	**15.1**	**9.33**	**18.4**	**16.4**	**13**	**12.5**	**17.7**	**13.3**	**13.8**	**11.3**	**14.7**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.273 J**	**0.191 J**	**0.141 J**	**0.229 J**	**0.164 J**	**0.157 J**	**0.191 J**	**0.21 J**	**0.143 J**	**0.153 J**	**0.179 J**	**0.189 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.426 U	0.491 U	0.35 U	0.358 U	0.561 U	0.455 U	0.509 U	0.498 U	0.498 U	0.492 U	0.431 U	0.516 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**4.11**	**4.14**	**6.73**	**9.02**	**3.95**	**4.27**	**3.82**	**4.13**	**4.29**	**3.77**	**3.53**	**9.25**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	1.7 U	19.6 U	1.4 U	14.3 U	2.24 U	1.82 U	2.03 U	1.99 U	1.99 U	1.97 U	1.72 U	2.07 U
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**2.79**	**1.85**	**1.64**	**2.22**	**2.22**	**1.96**	**2.29**	**3.1**	**2.05**	**1.87**	**1.9**	**2.45**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.0618 U	0.0589 U	0.0618 U	0.0607 U	0.064 U	0.0697 U	0.0593 U	0.0592 U	0.0603 U	0.0622 U	0.064 U	0.0696 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**4.15**	**2.49**	**1.68**	**4.45**	**1.68**	**1.76**	**1.8**	**2.45**	**1.51**	**1.5**	**1.54**	**2.57**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	4.26 U	4.91 U	3.5 U	3.58 U	5.61 U	4.55 U	5.09 U	4.98 U	4.98 U	4.92 U	4.31 U	5.16 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	0.851 U	0.982 U	0.7 U	0.716 U	1.12 U	0.91 U	1.02 U	0.996 U	0.996 U	0.985 U	0.861 U	1.03 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	2.55 U	2.95 U	2.1 U	2.15 U	3.36 U	2.73 U	3.05 U	2.99 U	2.99 U	2.95 U	2.58 U	3.1 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**6.1**	**6.3**	**3.52**	**7.44**	**5.96**	**5.28**	**5.44**	**6.1**	**4.85**	**5.3**	**4.39**	**6.91**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**10**	**9.29**	**4.81**	**12.9**	**7.71**	**8.2**	**7.46**	**9.08**	**7.74**	**8.34**	**5.63**	**9.28**
PFAS																				
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.1 U	2.92 U	2.83 U	3.08 U	3.21 U	3.46 U	2.96 U	3.05 U	3.02 U	3.01 U	3.22 U	3.46 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.1 U	2.92 U	2.83 U	3.08 U	3.21 U	3.46 U	2.96 U	3.05 U	3.02 U	3.01 U	3.22 U	3.46 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-14						2023-SB-15					
Depth Interval									0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	N	N	N	N	N	N	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SB-14-0002**	**2023-SB-14-0204**	**2023-SB-14-0406**	**2023-SB-14-0608**	**2023-SB-14-0810**	**2023-SB-14-1012**	**2023-SB-15-0002**	**2023-SB-15-0204**	**2023-SB-15-0406**	**2023-SB-15-0608**	**2023-SB-15-0810**	**2023-SB-15-1012**
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.07 UJ	1.95 UJ	1.89 U	2.05 UJ	2.14 U	2.31 U	1.98 UJ	2.03 UJ	2.01 UJ	2.01 U	2.15 U	2.3 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	2.07 UJ	1.95 UJ	1.89 U	2.05 UJ	2.14 U	2.31 U	1.98 UJ	2.03 UJ	2.01 UJ	2.01 U	2.15 U	2.3 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.07 U	1.95 U	1.89 U	2.05 U	2.14 U	2.31 U	1.98 U	2.03 U	2.01 U	2.01 U	2.15 U	2.3 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.62 U	0.584 U	0.567 U	0.615 U	0.642 U	0.693 U	0.593 U	0.609 U	0.603 U	0.602 U	0.644 U	0.691 U
VPH																				
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.155 U	0.0523 U	0.0505 U	0.0509 U	0.0568 U	0.0523 U	0.0504 U	0.0519 U	0.0385 U	0.0687 U	0.0505 U	0.053 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.773 U	0.261 U	0.253 U	0.255 U	0.284 U	0.261 U	0.252 U	0.26 U	0.193 U	0.343 U	0.252 U	0.265 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.773 U	0.261 U	0.253 U	0.255 U	0.284 U	0.261 U	0.252 U	0.26 U	0.193 U	0.343 U	0.252 U	0.265 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.773 U	0.261 U	0.253 U	0.255 U	0.284 U	0.261 U	0.252 U	0.26 U	0.193 U	0.343 U	0.252 U	0.265 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.773 U	0.261 U	0.253 U	0.255 U	0.284 U	0.261 U	0.252 U	0.26 U	0.193 U	0.343 U	0.252 U	0.265 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.773 U	0.261 U	0.253 U	0.255 U	0.284 U	0.261 U	0.252 U	0.26 U	0.193 U	0.343 U	0.252 U	0.265 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.155 U	0.0523 U	0.0505 U	0.0509 U	0.0568 U	0.0523 U	0.0504 U	0.0519 U	0.0385 U	0.0687 U	0.0505 U	0.053 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.309 U	0.105 U	0.101 U	0.102 U	0.114 U	0.105 U	0.101 U	0.104 U	0.077 U	0.137 U	0.101 U	0.106 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.155 U	0.0523 U	0.0505 U	0.0509 U	0.0568 U	0.0523 U	0.0504 U	0.0519 U	0.0385 U	0.0687 U	0.0505 U	0.053 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	**0.114 J**	0.0523 U	0.0505 U	0.0509 U	0.0568 U	0.0523 U	**0.0376 J**	0.0519 U	0.0385 U	**0.0534 J**	0.0505 U	0.053 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.155 U	0.0523 U	0.0505 U	0.0509 U	0.0568 U	0.0523 U	0.0504 U	0.0519 U	0.0385 U	0.0687 U	0.0505 U	0.053 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.155 U	0.0523 U	0.0505 U	0.0509 U	0.0568 U	0.0523 U	0.0504 U	0.0519 U	0.0385 U	0.0687 U	0.0505 U	0.053 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-16						
Depth Interval									0 - 2 ft	2 - 4 ft		4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023		03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-16-0002	2023-SB-16-0204	2023-FD-03	2023-SB-16-0406	2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012
Volatiles															
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.00449 UJ	0.00569 UJ	0.00587 UJ	0.00505 UJ	0.00569 UJ	0.00564 UJ	0.00528 UJ
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.00449 UJ	0.00569 UJ	0.00587 UJ	0.00505 UJ	0.00569 UJ	0.00564 UJ	0.00528 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	0.0898 U	0.114 U	0.117 U	0.101 U	0.114 U	0.113 U	0.106 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.0449 U	0.0569 U	0.0587 U	0.0505 U	0.0569 U	0.0564 U	0.0528 U
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	0.898 U	1.14 U	1.17 U	1.01 U	1.14 U	1.13 U	1.06 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.00898 UJ	0.0114 UJ	0.0117 UJ	0.0101 UJ	0.0114 UJ	0.0113 UJ	0.0106 UJ
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.00449 UJ	0.00569 UJ	0.00587 UJ	0.00505 UJ	0.00569 UJ	0.00564 UJ	0.00528 UJ
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-16						
Depth Interval									0 - 2 ft	2 - 4 ft		4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023		03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-16-0002	2023-SB-16-0204	2023-FD-03	2023-SB-16-0406	2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	0.0898 U	0.114 U	0.117 U	0.101 U	0.114 U	0.113 U	0.106 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.00898 U	0.0114 U	0.0117 U	0.0101 U	0.0114 U	0.0113 U	0.0106 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.0225 U	0.0285 U	0.0293 U	0.0252 U	0.0285 U	0.0282 U	0.0264 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.00449 U	0.00569 U	0.00587 U	0.00505 U	0.00569 U	0.00564 U	0.00528 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.0135 U	0.0171 U	0.0176 U	0.0151 U	0.0171 U	0.0169 U	0.0159 U
Semivolatiles															
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
2,2'-Oxybis(1-chloropropane)	108-60-1	mg/kg	0.7	0.7	30	0.7	100	1,000	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	1,000	1,000	600	1,000	600	600	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	20	20	20	20	20	20	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
2,4-Dichlorophenol	120-83-2	mg/kg	70	70	40	70	40	40	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
2,4-Dimethylphenol	105-67-9	mg/kg	100	100	500	100	1,000	1,000	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
2,4-Dinitrophenol	51-28-5	mg/kg	50	50	50	50	100	100	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
2,4-Dinitrotoluene	121-14-2	mg/kg	2	10	2	50	10	90	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
2,6-Dinitrotoluene	606-20-2	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
2-Chloronaphthalene	91-58-7	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
2-Chlorophenol	95-57-8	mg/kg	100	100	100	100	300	300	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
2-Methylphenol	95-48-7	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
2-Nitroaniline	88-74-4	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
2-Nitrophenol	88-75-5	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
3 & 4 Methylphenol	15831-10-4	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	3	20	3	100	20	100	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
3-Nitroaniline	99-09-2	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
4-Chloroaniline	106-47-8	mg/kg	7	40	3	40	3	3	0.349 UJ	0.182 UJ	0.183 UJ	0.368 UJ	0.179 UJ	0.201 UJ	0.216 UJ
4-Chlorophenyl-phenylether	7005-72-3	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
4-Nitroaniline	100-01-6	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
4-Nitrophenol	100-02-7	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Acetophenone	98-86-2	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Aniline	62-53-3	mg/kg	--	--	--	--	--	--	0.689 UJ	0.359 UJ	0.362 UJ	0.727 UJ	0.354 UJ	0.397 UJ	0.427 UJ
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Azobenzene	103-33-3	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Benzidine	92-87-5	mg/kg	--	--	--	--	--	--	R	R	R	R	R	R	R
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Benzoic Acid	65-85-0	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Benzyl Alcohol	100-51-6	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.7	0.7	2	0.7	9	90	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
bis-(2-chloroisopropyl)ether	39638-32-9	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	100	700	100	2,000	700	2,000	**1.11**	**0.332**	**0.405**	0.368 U	0.179 U	0.201 U	0.216 U
Butylbenzylphthalate	85-68-7	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Carbazole	86-74-8	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-16						
Depth Interval									0 - 2 ft	2 - 4 ft		4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023		03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-16-0002	2023-SB-16-0204	2023-FD-03	2023-SB-16-0406	2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012
Dibenzofuran	132-64-9	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Diethylphthalate	84-66-2	mg/kg	200	200	300	200	300	300	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Dimethylphthalate	131-11-3	mg/kg	50	50	600	50	600	600	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Di-N-Butylphthalate	84-74-2	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Di-N-Octyl Phthalate	117-84-0	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Hexachlorobenzene	118-74-1	mg/kg	0.7	0.9	0.7	0.9	0.9	0.9	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	--	--	--	--	--	--	0.349 UJ	0.182 UJ	0.183 UJ	0.368 UJ	0.179 UJ	0.201 UJ	0.216 UJ
Hexachloroethane	67-72-1	mg/kg	3	3	50	3	300	300	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Isophorone	78-59-1	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Naphthalene, 1-methyl-	90-12-0	mg/kg	--	--	--	--	--	--	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Nitrobenzene	98-95-3	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
N-Nitrosodimethylamine (NDMA)	62-75-9	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	mg/kg	--	--	--	--	--	--	0.349 U	0.182 U	0.183 U	0.368 U	0.179 U	0.201 U	0.216 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Pentachloronitrobenzene	82-68-8	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Pentachlorophenol	87-86-5	mg/kg	3	20	3	80	10	10	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Phenol	108-95-2	mg/kg	50	50	20	50	20	20	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.139 U	0.0726 U	0.0732 U	0.147 U	0.0715 U	0.0802 U	0.0862 U
Pyridine	110-86-1	mg/kg	--	--	--	--	--	--	0.689 U	0.359 U	0.362 U	0.727 U	0.354 U	0.397 U	0.427 U
PCBs															
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.212**	**0.0363**	**0.0332**	**0.0277**	0.0216 U	0.0234 U	0.0254 U
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0212 U	0.022 U	0.0216 U	0.0219 U	0.0216 U	0.0234 U	0.0254 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.212**	**0.0363**	**0.0332**	**0.0277**	0.0216 U	0.0234 U	0.0254 U
Metals															
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	5.13 U	8.99 U	5 U	4.71 U	4.52 U	5.29 U	**2.23 J**
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**2.54 J**	**3.93 J**	**3.47**	**3.43**	**2.85**	**8.66**	**11.2**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**13**	**17**	**16.2**	**14.2**	**12.9**	**95**	**120**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.239 J**	**0.299 J**	**0.261 J**	**0.224 J**	**0.216 J**	**1.23**	**1.52**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.513 U	0.899 U	0.5 U	0.471 U	0.452 U	0.529 U	0.457 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**3.84**	**5.2**	**5.23**	**5.13**	**6.84**	**26.3**	**35.3**
Copper	7440-50-8	mg/kg	--	--	--	--	--	--	20.5 U	3.59 U	20 U	1.88 U	1.81 U	21.1 U	18.3 U
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**2.92**	**2.77**	**2.75**	**2.45**	**3.46**	**11.7**	**13.9**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.0619 U	0.0658 U	0.0624 U	0.0672 U	0.0651 U	0.0701 U	0.0782 U
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**1.77**	**2.53**	**2.13**	**1.74**	**2.4**	**14.9**	**20.8**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	5.13 U	8.99 U	5 U	4.71 U	4.52 U	5.29 U	4.57 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	1.03 U	1.8 U	1 U	0.941 U	0.905 U	1.06 U	0.913 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.08 U	5.39 U	3 U	2.82 U	2.71 U	31.7 U	27.4 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**6.15**	**7.87**	**7.78**	**6.07**	**7.29**	**43**	**57.7**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**8.39**	**9.79**	**9.24**	**7.07**	**8.84**	**58.8**	**77.8**
PFAS															
10:2 FTS	10:2FTS	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ug/kg	--	--	--	--	--	--	3.08 U	3.34 U	3.23 U	3.14 U	3.01 U	3.44 U	3.61 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
6:2 Fluorotelomer sulfonate	27619-97-2	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
8:2 Fluorotelomer sulfonate	8:2FTS	ug/kg	--	--	--	--	--	--	3.08 U	3.34 U	3.23 U	3.14 U	3.01 U	3.44 U	3.61 U
9Cl-PF3ONS	756426-58-1	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U

Appendix E1
Soil Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SB-16						
Depth Interval									0 - 2 ft	2 - 4 ft		4 - 6 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft
Sample Date									03/01/2023	03/01/2023		03/01/2023	03/01/2023	03/01/2023	03/01/2023
Sample Type									N	N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SB-16-0002	2023-SB-16-0204	2023-FD-03	2023-SB-16-0406	2023-SB-16-0608	2023-SB-16-0810	2023-SB-16-1012
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ug/kg	--	--	--	--	--	--	2.05 UJ	2.23 UJ	2.16 UJ	2.09 UJ	2.01 U	2.29 UJ	2.41 UJ
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ug/kg	--	--	--	--	--	--	2.05 UJ	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ug/kg	--	--	--	--	--	--	R	2.23 UJ	2.16 UJ	2.09 UJ	2.01 U	2.29 UJ	2.41 UJ
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ug/kg	--	--	--	--	--	--	2.05 UJ	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
Perfluorobutanoic Acid (PFBA)	375-22-4	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
Perfluorodecane Sulfonate	335-77-3	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ug/kg	300	400	300	400	400	400	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ug/kg	--	--	--	--	--	--	2.05 U	2.23 U	2.16 U	2.09 U	2.01 U	2.29 U	2.41 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluoroheptane sulfonate	375-92-8	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ug/kg	300	400	300	400	400	400	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorohexadecanoic acid	67905-19-5	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ug/kg	300	400	300	400	400	400	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	ug/kg	--	--	--	--	--	--	**0.71**	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorononanesulfonic acid	68259-12-1	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorononanoic acid (PFNA)	375-95-1	ug/kg	300	400	300	400	400	400	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorooctadecanoic acid	16517-11-6	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ug/kg	300	400	300	400	400	400	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorooctanoic acid (PFOA)	335-67-1	ug/kg	300	400	300	400	400	400	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluorooctylsulfonamide	754-91-6	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluoropentanoic Acid	2706-90-3	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ug/kg	--	--	--	--	--	--	0.615 U	0.669 U	0.647 U	0.628 U	0.602 U	0.688 U	0.722 U
VPH															
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0734 U	0.0551 U	0.101 U	0.0536 U	0.052 U	0.0668 U	0.0531 U
C5-C8 Aliphatics (adjusted)	STL00041	mg/kg	100	500	100	500	500	500	0.367 U	0.276 U	0.503 U	0.268 U	0.26 U	0.334 U	0.265 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	mg/kg	100	500	100	500	500	500	0.367 U	0.276 U	0.503 U	0.268 U	0.26 U	0.334 U	0.265 U
C9-C10 Aromatics	C9-C10-AR	mg/kg	100	500	100	500	500	500	0.367 U	0.276 U	0.503 U	0.268 U	0.26 U	0.334 U	0.265 U
C9-C12 Aliphatics (adjusted)	STL00106	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.367 U	0.276 U	0.503 U	0.268 U	0.26 U	0.334 U	0.265 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.367 U	0.276 U	0.503 U	0.268 U	0.26 U	0.334 U	0.265 U
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0734 U	0.0551 U	0.101 U	0.0536 U	0.052 U	0.0668 U	0.0531 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.147 U	0.11 U	0.201 U	0.107 U	0.104 U	0.134 U	0.106 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0734 U	0.0551 U	0.101 U	0.0536 U	0.052 U	0.0668 U	0.0531 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0734 U	0.0551 U	0.101 U	0.0536 U	0.052 U	0.0668 U	0.0531 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0734 U	0.0551 U	0.101 U	0.0536 U	0.052 U	0.0668 U	0.0531 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0734 U	0.0551 U	0.101 U	0.0536 U	0.052 U	0.0668 U	0.0531 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
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ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
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Appendix E2
Supplemental PCB Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-1	PCB-2	PCB-3	PCB-4	PCB-5	PCB-6	PCB-7
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023
Sample Type									N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-1-0003	ATM-PCB-2-0003	ATM-PCB-3-0003	ATM-PCB-4-0003	ATM-PCB-5-0003	ATM-PCB-6-0003	ATM-PCB-7-0003
PCBs															
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.213 J**	**0.323 J**	**30.5 J**	**0.395 J**	**7.2 J**	**0.155 J**	**2.62 J**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0252 U	0.026 U	1.02 U	0.0229 U	0.222 U	0.023 U	0.471 U
Aroclor, Total	AROCLORTO	mg/kg	1	4	1	4	4	4	**0.213**	**0.323**	**30.5**	**0.395**	**7.2**	**0.155**	**2.62**

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Appendix E2
Supplemental PCB Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-8	PCB-9	PCB-10	PCB-11	PCB-12		PCB-13	PCB-14
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft		0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023		09/25/2023	09/25/2023
Sample Type									N	N	N	N	N	FD	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-8-0003	ATM-PCB-9-0003	ATM-PCB-10-0003	ATM-PCB-11-0003	ATM-PCB-12-0003	FD-01-092523	ATM-PCB-13-0003	ATM-PCB-14-0003
PCBs																
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.968 J**	**11.5 J**	**33.2 J**	**2.91 J**	**0.76 J**	**1.69 J**	**7.65 J**	**11.9 J**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0233 U	0.472 U	1.08 U	0.119 U	0.0239 U	0.0473 U	0.237 U	1.19 U
Aroclor, Total	AROCLORTO	mg/kg	1	4	1	4	4	4	**0.968**	**11.5**	**33.2**	**2.91**	**0.76**	**1.69**	**7.65**	**11.9**

Notes:
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Detections shown in bold
Highlights indicate exceedances
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B = Qualified for Blank Contamination
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Appendix E2
Supplemental PCB Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-15	PCB-16	PCB-17	PCB-18	PCB-19	PCB-20	PCB-21
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023
Sample Type									N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-15-0003	ATM-PCB-16-0003	ATM-PCB-17-0003	ATM-PCB-18-0003	ATM-PCB-19-0003	ATM-PCB-20-0003	ATM-PCB-21-0003
PCBs															
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**9.39 J**	**8.47 J**	**11 J**	**13.2 J**	**0.237 J**	**5.13 J**	**4.17 J**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.468 U	0.229 U	0.457 U	0.44 U	0.022 U	0.218 U	0.192 U
Aroclor, Total	AROCLORTO	mg/kg	1	4	1	4	4	4	**9.39**	**8.47**	**11**	**13.2**	**0.237**	**5.13**	**4.17**

Notes:
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Highlights indicate exceedances
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Appendix E2
Supplemental PCB Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-22	PCB-23	PCB-24	PCB-25	PCB-26	PCB-27	PCB-28
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023	09/25/2023
Sample Type									N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-22-0003	ATM-PCB-23-0003	ATM-PCB-24-0003	ATM-PCB-25-0003	ATM-PCB-26-0003	ATM-PCB-27-0003	ATM-PCB-28-0003
PCBs															
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.714 J**	**14.6 J**	**93.6 J**	**18.5 J**	**0.0707 J**	**0.121 J**	**1.27 J**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0224 U	0.514 U	2.27 U	1.03 U	0.0214 U	0.0193 U	0.227 U
Aroclor, Total	AROCLORTO	mg/kg	1	4	1	4	4	4	**0.714**	**14.6**	**93.6**	**18.5**	**0.0707**	**0.121**	**1.27**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
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Highlights indicate exceedances
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Appendix E2
Supplemental PCB Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-29	PCB-30		PCB-31	PCB-32	PCB-33	PCB-34	PCB-35
Depth Interval									0 - 3 ft	0 - 3 ft		0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/25/2023	09/25/2023		09/25/2023	09/25/2023	09/26/2023	09/26/2023	09/26/2023
Sample Type									N	N	FD	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-29-0003	ATM-PCB-30-0003	FD-02-092523	ATM-PCB-31-0003	ATM-PCB-32-0003	ATM-PCB-33-0003	ATM-PCB-34-0003	ATM-PCB-35-0003
PCBs																
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**1.5 J**	**35.6 J**	**13.2 J**	**0.222 J**	**0.0958 J**	**0.393 J**	**12.1 J**	**4.19 J**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.209 U	2.11 U	0.386 U	0.0182 U	0.0223 U	0.0219 U	0.412 U	0.2 U
Aroclor, Total	AROCLORTO	mg/kg	1	4	1	4	4	4	**1.5**	**35.6**	**13.2**	**0.222**	**0.0958**	**0.393**	**12.1**	**4.19**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
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Appendix E2
Supplemental PCB Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-36	PCB-37	PCB-38	PCB-39	PCB-40	PCB-41	PCB-42
Depth Interval									0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/26/2023	09/26/2023	09/26/2023	09/26/2023	09/26/2023	09/26/2023	09/26/2023
Sample Type									N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-36-0003	ATM-PCB-37-0003	ATM-PCB-38-0003	ATM-PCB-39-0003	ATM-PCB-40-0003	ATM-PCB-41-0003	ATM-PCB-42-0003
PCBs															
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**20.4 J**	**2.59 J**	**0.246 J**	**2.17 J**	**0.316 J**	**0.965 J**	**0.314 J**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.923 U	0.202 U	0.215 U	0.204 U	0.197 U	0.201 U	0.208 U
Aroclor, Total	AROCLORTO	mg/kg	1	4	1	4	4	4	**20.4**	**2.59**	**0.246**	**2.17**	**0.316**	**0.965**	**0.314**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E2
Supplemental PCB Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									PCB-43		PCB-44	PCB-45	PCB-46	PCB-47	PCB-48	PCB-49	PCB-50
Depth Interval									0 - 3 ft		0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft	0 - 3 ft
Sample Date									09/26/2023		09/26/2023	09/26/2023	09/26/2023	09/26/2023	09/26/2023	09/26/2023	09/26/2023
Sample Type									N	FD	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-PCB-43-0003	FD-03-092623	ATM-PCB-44-0003	ATM-PCB-45-0003	ATM-PCB-46-0003	ATM-PCB-47-0003	ATM-PCB-48-0003	ATM-PCB-49-0003	ATM-PCB-50-0003
PCBs																	
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.185 J**	**0.253**	**0.924 J**	**1.09 J**	**1.1 J**	**0.219 J**	**0.0616 J**	**4.54 J**	**0.907 J**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.197 U	0.205 U	0.2 U	0.185 U	0.199 U	0.205 U	0.0211 U	0.22 U	0.215 U
Aroclor, Total	AROCLORTO	mg/kg	1	4	1	4	4	4	**0.185 J**	**0.253**	**0.924**	**1.09**	**1.1**	**0.219**	**0.0616**	**4.54**	**0.907**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024.
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E3
Groundwater Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location					2023-MW-01	2023-MW-02	2023-MW-03		2023-MW-04	2023-MW-05	2023-MW-06	2023-MW-07	2023-MW-08	2023-MW-09
Depth Interval					Not Specified	Not Specified	Not Specified		Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sample Date					03/31/2023	03/31/2023	03/30/2023		03/30/2023	03/30/2023	03/30/2023	03/31/2023	03/31/2023	03/31/2023
Sample Type					N	N	N	FD	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA GW-2	MA GW-3	2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-03-20230330	2023-FD-01-20230330	2023-MW-04-20230330	2023-MW-05-20230330	2023-MW-06-20230330	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Volatiles														
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	10	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	71-55-6	ug/L	4,000	20,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	9	50,000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	79-00-5	ug/L	900	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	ug/L	2,000	20,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	ug/L	80	30,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	563-58-6	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	96-18-4	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	ug/L	200	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	106-93-4	ug/L	2	50,000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	95-50-1	ug/L	8,000	2,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	ug/L	5	20,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	78-87-5	ug/L	3	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trichlorobenzene	108-70-3	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	541-73-1	ug/L	6,000	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	142-28-9	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropene	542-75-6	ug/L	10	200	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	106-46-7	ug/L	60	8,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	123-91-1	ug/L	5,000	50,000	50 U	50 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 U	50 U	50 U
2,2-Dichloropropane	594-20-7	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	78-93-3	ug/L	50,000	50,000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Chlorotoluene	95-49-8	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	591-78-6	ug/L	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chlorotoluene	106-43-4	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Isopropyltoluene	99-87-6	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	108-10-1	ug/L	50,000	50,000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	67-64-1	ug/L	50,000	50,000	10 U	10 U	10 U	10 U	10 U	**1.61 J**	10 U	10 U	10 U	10 U
Acrylonitrile	107-13-1	ug/L	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	71-43-2	ug/L	1,000	10,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromobenzene	108-86-1	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	74-97-5	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	ug/L	6	50,000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	ug/L	700	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	ug/L	7	800	**1.81 J**	**1.57 J**	2 U	2 U	2 U	2 U	2 U	**1.22 J**	2 U	2 U
Carbon disulfide	75-15-0	ug/L	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	56-23-5	ug/L	2	5,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	ug/L	200	1,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	ug/L	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chloroform	67-66-3	ug/L	50	20,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	74-87-3	ug/L	--	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
cis-1,2-Dichloroethene	156-59-2	ug/L	20	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Appendix E3
Groundwater Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location					2023-MW-01	2023-MW-02	2023-MW-03		2023-MW-04	2023-MW-05	2023-MW-06	2023-MW-07	2023-MW-08	2023-MW-09
Depth Interval					Not Specified	Not Specified	Not Specified		Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sample Date					03/31/2023	03/31/2023	03/30/2023		03/30/2023	03/30/2023	03/30/2023	03/31/2023	03/31/2023	03/31/2023
Sample Type					N	N	N	FD	N	N	N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA GW-2**	**MA GW-3**	**2023-MW-01-20230331**	**2023-MW-02-20230331**	**2023-MW-03-20230330**	**2023-FD-01-20230330**	**2023-MW-04-20230330**	**2023-MW-05-20230330**	**2023-MW-06-20230330**	**2023-MW-07-20230331**	**2023-MW-08-20230331**	**2023-MW-09-20230331**
cis-1,3-Dichloropropene	10061-01-5	ug/L	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	ug/L	20	50,000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	74-95-3	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	ug/L	--	--	2 U	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 U	2 U
Diethyl ether	60-29-7	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Diisopropyl Ether	108-20-3	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethanol	64-17-5	ug/L	--	--	200 U	200 U	200 UJ	200 UJ	200 UJ	**69.5 J**	200 UJ	200 U	200 U	200 UJ
Ethylbenzene	100-41-4	ug/L	20,000	5,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	87-68-3	ug/L	50	3,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	179601-23-1	ug/L	3,000	5,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	1634-04-4	ug/L	50,000	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	75-09-2	ug/L	2,000	50,000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	91-20-3	ug/L	700	20,000	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
n-Butylbenzene	104-51-8	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	103-65-1	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	95-47-6	ug/L	3,000	5,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	135-98-8	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100-42-5	ug/L	100	6,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Amyl methyl ether	994-05-8	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butyl Alcohol	75-65-0	ug/L	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tert-Butyl Ethyl Ether	637-92-3	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	98-06-6	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	127-18-4	ug/L	20	30,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	109-99-9	ug/L	--	--	2 U	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 U	2 U
Toluene	108-88-3	ug/L	50,000	40,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	156-60-5	ug/L	90	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	10061-02-6	ug/L	--	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,4-Dichlorobutene	110-57-6	ug/L	--	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	ug/L	5	5,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.886 J**
Trichlorofluoromethane	75-69-4	ug/L	--	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	75-01-4	ug/L	2	50,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	1330-20-7	ug/L	3,000	5,000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Semivolatiles														
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
1,2,4-Trichlorobenzene	120-82-1	ug/L	200	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
1,2-Dichlorobenzene	95-50-1	ug/L	8,000	2,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
1,3-Dichlorobenzene	541-73-1	ug/L	6,000	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
1,4-Dichlorobenzene	106-46-7	ug/L	60	8,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2,2'-Oxybis(1-chloropropane)	108-60-1	ug/L	100	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2,4,5-Trichlorophenol	95-95-4	ug/L	50,000	3,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2,4,6-Trichlorophenol	88-06-2	ug/L	5,000	500	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2,4-Dichlorophenol	120-83-2	ug/L	30,000	2,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2,4-Dimethylphenol	105-67-9	ug/L	40,000	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2,4-Dinitrophenol	51-28-5	ug/L	50,000	20,000	9.62 U	10.9 U	10.9 U	10 U	10 U	10 U	10 U	9.62 U	10.9 U	10.4 U
2,4-Dinitrotoluene	121-14-2	ug/L	20,000	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2,6-Dinitrotoluene	606-20-2	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U

Appendix E3
Groundwater Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location					2023-MW-01	2023-MW-02	2023-MW-03		2023-MW-04	2023-MW-05	2023-MW-06	2023-MW-07	2023-MW-08	2023-MW-09
Depth Interval					Not Specified	Not Specified	Not Specified		Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sample Date					03/31/2023	03/31/2023	03/30/2023		03/30/2023	03/30/2023	03/30/2023	03/31/2023	03/31/2023	03/31/2023
Sample Type					N	N	N	FD	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA GW-2	MA GW-3	2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-03-20230330	2023-FD-01-20230330	2023-MW-04-20230330	2023-MW-05-20230330	2023-MW-06-20230330	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
2-Chloronaphthalene	91-58-7	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2-Chlorophenol	95-57-8	ug/L	20,000	7,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2-Methylnaphthalene	91-57-6	ug/L	2,000	20,000	0.0481 U	**0.0582**	0.0543 U	**0.146 J**	0.05 U	0.05 U	0.05 U	0.0481 U	0.0543 U	0.0521 U
2-Methylphenol	95-48-7	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2-Nitroaniline	88-74-4	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
2-Nitrophenol	88-75-5	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
3 & 4 Methylphenol	15831-10-4	ug/L	--	--	9.62 U	10.9 U	10.9 U	10 U	10 U	10 U	10 U	9.62 U	10.9 U	10.4 U
3,3'-Dichlorobenzidine	91-94-1	ug/L	--	2,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
3-Nitroaniline	99-09-2	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
4-Bromophenyl-phenylether	101-55-3	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
4-Chloro-3-methylphenol	59-50-7	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
4-Chloroaniline	106-47-8	ug/L	30,000	300	4.81 U	5.43 U	5.43 U	5 UJ	5 UJ	5 UJ	5 UJ	4.81 U	5.43 U	5.21 U
4-Chlorophenyl-phenylether	7005-72-3	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
4-Nitroaniline	100-01-6	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
4-Nitrophenol	100-02-7	ug/L	--	--	19.2 U	21.7 U	21.7 U	20 U	20 U	20 U	20 U	19.2 U	21.7 U	20.8 U
Acenaphthene	83-32-9	ug/L	--	10,000	**0.0797**	**0.0877**	**0.086 J**	0.05 U	0.05 U	0.05 U	0.05 U	**0.0753**	**0.0839**	**0.0805**
Acenaphthylene	208-96-8	ug/L	10,000	40	**0.0691**	**0.0803**	**0.0746 J**	0.05 U	0.05 U	0.05 U	0.05 U	**0.0672**	**0.0733**	**0.07**
Acetophenone	98-86-2	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Aniline	62-53-3	ug/L	--	--	4.81 UJ	5.43 UJ	5.43 UJ	5 UJ	5 UJ	5 UJ	5 UJ	4.81 UJ	5.43 UJ	5.21 UJ
Anthracene	120-12-7	ug/L	--	30	**0.0785**	**0.0877**	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0769 U	0.087 U	0.0833 U
Azobenzene	103-33-3	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Benzidine	92-87-5	ug/L	--	--	R	R	R	R	R	R	R	R	R	R
Benzo(a)anthracene	56-55-3	ug/L	--	1,000	**0.0431 J**	**0.0672**	0.0543 U	**0.0454 J**	0.05 U	**0.044 J**	0.05 U	0.0481 U	0.0543 U	0.0521 U
Benzo(a)pyrene	50-32-8	ug/L	--	500	0.0769 U	0.087 U	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0769 U	0.087 U	0.0833 U
Benzo(b)fluoranthene	205-99-2	ug/L	--	400	**0.0468 J**	0.0543 U	0.0543 U	**0.0407 J**	0.05 U	**0.0412 J**	0.05 U	0.0481 U	0.0543 U	0.0521 U
Benzo(g,h,i)perylene	191-24-2	ug/L	--	20	0.0769 U	0.087 U	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0769 U	0.087 U	0.0833 U
Benzo(k)fluoranthene	207-08-9	ug/L	--	100	0.0769 U	0.087 U	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0769 U	0.087 U	0.0833 U
Benzoic Acid	65-85-0	ug/L	--	--	38.5 U	43.5 U	**8.82 J**	10 U	10 U	10 U	10 U	38.5 U	43.5 U	10.4 U
Benzyl Alcohol	100-51-6	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Bis(2-chloroethoxy)methane	111-91-1	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Bis(2-chloroethyl)ether	111-44-4	ug/L	30	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Bis(2-ethylhexyl)phthalate	117-81-7	ug/L	--	50,000	9.62 U	10.9 U	10.9 U	10 U	10 U	10 U	10 U	9.62 U	10.9 U	10.4 U
Butylbenzylphthalate	85-68-7	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Carbazole	86-74-8	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Chrysene	218-01-9	ug/L	--	70	**0.077**	**0.0899**	0.087 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0769 U	0.087 U	0.0833 U
Dibenz(a,h)anthracene	53-70-3	ug/L	--	40	0.0481 U	**0.0525 J**	0.0543 U	0.05 UJ	0.05 UJ	**0.0342 J**	0.05 UJ	0.0481 U	0.0543 U	0.0521 U
Dibenzofuran	132-64-9	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Diethylphthalate	84-66-2	ug/L	50,000	9,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Dimethylphthalate	131-11-3	ug/L	50,000	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Di-N-Butylphthalate	84-74-2	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Di-N-Octyl Phthalate	117-84-0	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Fluoranthene	206-44-0	ug/L	--	200	0.0481 U	0.0543 U	0.0543 U	**0.0452 J**	0.05 U	0.05 U	0.05 U	0.0481 U	0.0543 U	0.0521 U
Fluorene	86-73-7	ug/L	--	40	**0.076**	**0.0851**	**0.081**	0.05 U	0.05 U	0.05 U	0.05 U	**0.0703**	**0.0788**	**0.0753**
Hexachlorobenzene	118-74-1	ug/L	1	6,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Hexachlorobutadiene	87-68-3	ug/L	50	3,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Hexachlorocyclopentadiene	77-47-4	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 UJ	5 UJ	5 UJ	5 UJ	4.81 U	5.43 U	5.21 U

Appendix E3
Groundwater Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location					2023-MW-01	2023-MW-02	2023-MW-03		2023-MW-04	2023-MW-05	2023-MW-06	2023-MW-07	2023-MW-08	2023-MW-09
Depth Interval					Not Specified	Not Specified	Not Specified		Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sample Date					03/31/2023	03/31/2023	03/30/2023		03/30/2023	03/30/2023	03/30/2023	03/31/2023	03/31/2023	03/31/2023
Sample Type					N	N	N	FD	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA GW-2	MA GW-3	2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-03-20230330	2023-FD-01-20230330	2023-MW-04-20230330	2023-MW-05-20230330	2023-MW-06-20230330	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Hexachloroethane	67-72-1	ug/L	100	50,000	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	--	100	0.0769 U	0.087 U	0.087 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.0769 U	0.087 U	0.0833 U
Isophorone	78-59-1	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Naphthalene	91-20-3	ug/L	700	20,000	0.0481 U	**0.147 J+**	0.0543 UJ	**0.425 J**	0.05 UJ	0.05 UJ	0.05 UJ	0.0481 U	0.0543 U	0.0521 U
Naphthalene, 1-methyl-	90-12-0	ug/L	--	--	0.0481 U	0.0543 U	0.0543 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0481 U	0.0543 U	0.0521 U
Nitrobenzene	98-95-3	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
N-Nitrosodimethylamine (NDMA)	62-75-9	ug/L	--	--	4.81 UJ	5.43 UJ	5.43 UJ	5 UJ	5 UJ	5 UJ	5 UJ	4.81 UJ	5.43 UJ	5.21 UJ
N-Nitroso-di-n-propylamine (NDPA)	621-64-7	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
N-Nitrosodiphenylamine	86-30-6	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Pentachloronitrobenzene	82-68-8	ug/L	--	--	4.81 U	5.43 U	5.43 U	5 U	5 U	5 U	5 U	4.81 U	5.43 U	5.21 U
Pentachlorophenol	87-86-5	ug/L	--	200	9.62 U	10.9 U	10.9 U	10 U	10 U	10 U	10 U	9.62 U	10.9 U	10.4 U
Phenanthrene	85-01-8	ug/L	--	10,000	0.192 U	0.217 U	0.217 U	**0.0351 J**	0.05 U	0.05 U	0.05 U	0.192 U	0.217 U	0.208 U
Phenol	108-95-2	ug/L	50,000	2,000	R	R	5.43 UJ	5 UJ	5 UJ	5 UJ	5 UJ	R	R	R
Pyrene	129-00-0	ug/L	--	20	0.192 U	0.217 U	0.217 U	0.05 U	0.05 U	0.05 U	0.05 U	0.192 U	0.217 U	0.208 U
Pyridine	110-86-1	ug/L	--	--	R	R	R	R	R	R	R	R	R	R
PCBs														
Aroclor 1016	12674-11-2	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1221	11104-28-2	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1232	11141-16-5	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1242	53469-21-9	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1248	12672-29-6	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1254	11097-69-1	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1260	11096-82-5	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1262	37324-23-5	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor 1268	11100-14-4	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Aroclor, Total	AROCLORTOT	ug/L	5	10	0.4 U	0.417 U	0.417 U	0.435 U	0.4 U	0.455 U	0.4 U	0.417 U	0.455 U	0.417 U
Metals														
Antimony	7440-36-0	ug/L	--	8,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.7**	**0.372 J**
Arsenic	7440-38-2	ug/L	--	900	2 U	**2.34**	**0.989 J**	**1.11 J**	2 U	2 U	2 U	2 U	**0.733 J**	**1.41 J**
Barium	7440-39-3	ug/L	--	50,000	**38.8**	**15.6**	**17.6**	**18.5**	**26**	**34**	**8.3**	**2.5**	**16.6**	**5.76**
Beryllium	7440-41-7	ug/L	--	200	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cadmium	7440-43-9	ug/L	--	8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chromium	7440-47-3	ug/L	--	300	2 U	**2.31**	2 U	2 U	2 U	**1.72 J**	**0.991 J**	2 U	**0.673 J**	2 U
Lead	7439-92-1	ug/L	--	10	**0.176 J**	**0.642**	0.5 U	**0.082 J**	**0.146 J**	**0.331 J**	**0.257 J**	0.5 U	**0.295 J**	**0.434 J**
Mercury	7439-97-6	ug/L	--	20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	**0.0824 J**	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	ug/L	--	200	**0.487 J**	**1.5**	**2.27**	**2.75**	1 U	**1.24**	1 U	1 U	**0.607 J**	1 U
Selenium	7782-49-2	ug/L	--	50	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.831 J**	1 U
Silver	7440-22-4	ug/L	--	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Thallium	7440-28-0	ug/L	--	3,000	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vanadium	7440-62-2	ug/L	--	4,000	4 U	**1.88 J**	4 U	4 U	4 U	**1.47 J**	4 U	4 U	**5.26**	4 U
Zinc	7440-66-6	ug/L	--	900	**210**	10 U	**18.4**	**23**	**41.5**	**22**	10 U	10 U	10 U	**5.37 J**
PFAS														
10:2 FTS	10:2FTS	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
11Cl-PF3OUdS (F53B Minor)	763051-92-9	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2	ng/L	--	--	1.99 U	R	1.91 U	1.91 UJ	1.99 U	1.93 UJ	1.86 U	1.86 U	1.81 U	1.78 U

Appendix E3
Groundwater Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location					2023-MW-01	2023-MW-02	2023-MW-03		2023-MW-04	2023-MW-05	2023-MW-06	2023-MW-07	2023-MW-08	2023-MW-09
Depth Interval					Not Specified	Not Specified	Not Specified		Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sample Date					03/31/2023	03/31/2023	03/30/2023		03/30/2023	03/30/2023	03/30/2023	03/31/2023	03/31/2023	03/31/2023
Sample Type					N	N	N	FD	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA GW-2	MA GW-3	2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-03-20230330	2023-FD-01-20230330	2023-MW-04-20230330	2023-MW-05-20230330	2023-MW-06-20230330	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	ng/L	--	--	1.99 U	1.93 UJ	1.91 U	1.91 UJ	1.99 U	1.93 UJ	1.86 U	1.86 U	1.81 U	1.78 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
4:2 Fluorotelomer sulfonic acid	4:2FTS	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
8:2 Fluorotelomer sulfonate	8:2FTS	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
9Cl-PF3ONS	756426-58-1	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
N-ethylperfluoro-1-octanesulfonamide	4151-50-2	ng/L	--	--	1.99 UJ	R	1.91 UJ	R	1.99 UJ	R	1.86 UJ	1.86 UJ	R	1.78 UJ
N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
N-methylperfluoro-1-octanesulfonamide	31506-32-8	ng/L	--	--	1.99 UJ	R	1.91 UJ	R	1.99 UJ	R	1.86 UJ	1.86 UJ	1.81 UJ	1.78 UJ
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	--	--	1.99 U	**0.709 J**	**0.467 J**	**0.501 J**	**0.318 J**	**0.48 J**	1.86 U	**0.367 J**	1.81 U	**0.905 J**
Perfluorobutanoic Acid (PFBA)	375-22-4	ng/L	--	--	1.99 U	1.93 U	**1.79 J**	**1.86 J**	**1.19 J**	**2.03**	**1.04 J**	**1.36 J**	1.81 U	1.78 U
Perfluorodecane Sulfonate	335-77-3	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluorodecanoic Acid (PFDA)	335-76-2	ng/L	--	40,000,000	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluoroheptane sulfonate	375-92-8	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	40,000,000	1.99 U	**0.91 J**	**0.852 J**	**0.946 J**	**1.45 J**	**0.731 J**	1.86 U	**0.419 J**	1.81 U	1.78 U
Perfluorohexadecanoic acid	67905-19-5	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	--	500,000	**0.244 J**	**1.23 J**	**0.374 J**	**0.242 J**	**0.635 J**	**0.326 J**	1.86 U	1.86 U	1.81 U	**0.411 J**
Perfluorohexanoic Acid (PFHxA)	307-24-4	ng/L	--	--	**0.199 J**	**0.709 J**	**1.09 J**	**1.19 J**	**0.61 J**	**0.53 J**	**0.231 J**	**0.52 J**	**0.197 J**	**0.191 J**
Perfluorononanesulfonic acid	68259-12-1	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	--	40,000,000	**0.22 J**	1.93 U	**0.222 J**	1.91 U	**0.565 J**	**0.286 J**	1.86 U	**0.249 J**	1.81 U	1.78 U
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluorooctadecanoic acid	16517-11-6	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 UJ	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	--	500,000	**0.892 J**	**1.21 J**	**1.41 J**	**1.42 J**	**16.8**	**0.743 J**	**0.666 J**	**1.44 J**	1.81 U	**0.484 J**
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	--	40,000,000	**0.991 J**	**3.22**	**1.6 J**	**1.76 J**	**10.5**	**1.89 J**	**1.24 J**	**1.15 J**	**0.483 J**	**0.701 J**
Perfluorooctylsulfonamide	754-91-6	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluoropentanoic Acid	2706-90-3	ng/L	--	--	1.99 U	**0.587 J**	**0.834 J**	**0.852 J**	1.99 U	**0.646 J**	1.86 U	1.86 U	1.81 U	1.78 U

Appendix E3
Groundwater Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location					2023-MW-01	2023-MW-02	2023-MW-03		2023-MW-04	2023-MW-05	2023-MW-06	2023-MW-07	2023-MW-08	2023-MW-09
Depth Interval					Not Specified	Not Specified	Not Specified		Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified
Sample Date					03/31/2023	03/31/2023	03/30/2023		03/30/2023	03/30/2023	03/30/2023	03/31/2023	03/31/2023	03/31/2023
Sample Type					N	N	N	FD	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA GW-2	MA GW-3	2023-MW-01-20230331	2023-MW-02-20230331	2023-MW-03-20230330	2023-FD-01-20230330	2023-MW-04-20230330	2023-MW-05-20230330	2023-MW-06-20230330	2023-MW-07-20230331	2023-MW-08-20230331	2023-MW-09-20230331
Perfluoropetanesulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
Perfluoroundecanoic Acid (PFUna)	2058-94-8	ng/L	--	--	1.99 U	1.93 U	1.91 U	1.91 U	1.99 U	1.93 U	1.86 U	1.86 U	1.81 U	1.78 U
VPH														
Benzene	71-43-2	ug/L	1,000	10,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
C5-C8 Aliphatics (adjusted)	STL00041	ug/L	3,000	50,000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
C5-C8 Aliphatics (unadjusted)	C5-C8-AL-U	ug/L	3,000	50,000	100 U	100 U	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 U	100 U	100 U
C9-C10 Aromatics	C9-C10-AR	ug/L	4,000	50,000	100 U	100 U	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 U	100 U	100 U
C9-C12 Aliphatics (adjusted)	STL00106	ug/L	5,000	50,000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
C9-C12 Aliphatics (unadjusted)	C9-C12-AL-U	ug/L	5,000	50,000	100 U	100 U	100 UJ	100 UJ	100 UJ	100 UJ	100 UJ	100 U	100 U	100 U
Ethylbenzene	100-41-4	ug/L	20,000	5,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
m,p-Xylene	179601-23-1	ug/L	3,000	5,000	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	1634-04-4	ug/L	50,000	50,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	91-20-3	ug/L	700	20,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	95-47-6	ug/L	3,000	5,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	ug/L	50,000	40,000	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	1330-20-7	ug/L	3,000	5,000	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1. Updated 2024.

mg/kg = milligrams/kilogram
ug/kg = micrograms/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances

U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E4
Concrete Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									CC-01	CC-02	CC-03	CC-04	CC-05	CC-06	CC-07
Sample Date									09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023
Sample Type									N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-CC-01	ATM-CC-02	ATM-CC-03	ATM-CC-04	ATM-CC-05	ATM-CC-06	ATM-CC-07
PCBs															
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**11.1**	**7.37**	**0.466**	**4.92**	**11.2**	**7.81**	**1.56**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.529 U	0.28 U	0.0467 U	0.581 U	0.547 U	0.54 U	0.495 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**11.1**	**7.37**	**0.466**	**4.92**	**11.2**	**7.81**	**1.56**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024
mg/kg = milligrams/kilogram
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Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
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Appendix E4
Concrete Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									CC-08	CC-09	CC-10	CC-11	CC-12	CC-13
Sample Date									09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023
Sample Type									N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-CC-08	ATM-CC-09	ATM-CC-10	ATM-CC-11	ATM-CC-12	ATM-CC-13
PCBs														
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**7**	**2.61**	**11.5**	**1.17**	**0.666**	**5.67**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.545 U	0.497 U	1.1 U	0.0527 U	0.0545 U	0.478 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**7**	**2.61**	**11.5**	**1.17**	**0.666**	**5.67**

Notes:

Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024

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Appendix E4
Concrete Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									CC-14		CC-15	CC-16	CC-17	CC-18
Sample Date									09/27/2023		09/27/2023	09/27/2023	09/27/2023	09/27/2023
Sample Type									N	FD	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-CC-14	FD-01-092723	ATM-CC-15	ATM-CC-16	ATM-CC-17	ATM-CC-18
PCBs														
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**89.9**	**67**	**6.29**	**13**	**4.33**	**19.3**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	4.38 U	2.64 U	0.557 U	0.522 U	0.453 U	0.548 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**89.9**	**67**	**6.29**	**13**	**4.33**	**19.3**

Notes:

Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024

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Appendix E4
Concrete Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									CC-19	CC-20	CC-21	CC-22	CC-23	CC-24	CC-25
Sample Date									09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023	09/27/2023
Sample Type									N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-CC-19	ATM-CC-20	ATM-CC-21	ATM-CC-22	ATM-CC-23	ATM-CC-24	ATM-CC-25
PCBs															
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	0.0541 U	0.054 U	0.212 U	0.047 U	0.0543 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	0.0541 U	0.054 U	0.212 U	0.047 U	0.0543 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	0.0541 U	0.054 U	0.212 U	0.047 U	0.0543 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	0.0541 U	0.054 U	0.212 U	0.047 U	0.0543 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	0.0541 U	0.054 U	0.212 U	0.047 U	0.0543 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**11.3**	**0.0722**	**0.377**	0.054 U	**0.35**	**0.0757**	**0.192**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	**1.41**	**0.234**	**4.34**	**0.188 J**	**0.606**
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	0.0541 U	0.054 U	0.212 U	0.047 U	0.0543 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.594 U	0.06 U	**0.814**	**0.196**	**3.23**	**0.223**	**0.362**
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**11.3**	**0.0722**	**2.601**	**0.43**	**7.92**	**0.4867 J**	**1.16**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E4
Concrete Analytical Results
Main Mill Complex
American Tissue Mill Phase II
Templeton, Massachusetts

Location									CC-26	CC-27	CC-28		CC-29	CC-30
Sample Date									09/27/2023	09/27/2023	09/27/2023		09/27/2023	09/27/2023
Sample Type									N	N	N	FD	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	ATM-CC-26	ATM-CC-27	ATM-CC-28	FD-02-092723	ATM-CC-29	ATM-CC-30
PCBs														
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0588 U	0.0533 U	0.474 U	0.453 U	0.0516 U	0.0567 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0588 U	0.0533 U	0.474 U	0.453 U	0.0516 U	0.0567 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0588 U	0.0533 U	0.474 U	0.453 U	0.0516 U	0.0567 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0588 U	0.0533 U	0.474 U	0.453 U	0.0516 U	0.0567 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0588 U	0.0533 U	0.474 U	0.453 U	0.0516 U	0.0567 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.818**	**0.185**	**14.1**	**11.2**	**0.0574**	**0.479**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	**1.65**	**0.142**	**14.8**	**12.8**	**0.171**	**0.85**
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0588 U	0.0533 U	0.474 U	0.453 U	0.0516 U	0.0567 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	**1.17**	**0.0585**	**5.77**	**5.26**	**0.133**	**0.487**
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**3.638**	**0.3855**	**34.67**	**29.26**	**0.3614**	**1.816**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-01	2023-SS-02	2023-SS-03	2023-SS-04
Depth Interval									0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-01	2023-SS-02	2023-SS-03	2023-SS-04
Volatiles												
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	**0.049 J**
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.132 U	0.107 U	0.123 U	0.128 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	1.32 U	1.07 U	1.23 U	1.28 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.132 U	0.107 U	**0.0947 J**	0.128 U
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.132 U	0.107 U	0.123 U	0.128 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.132 U	0.107 U	0.123 U	0.128 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.659 UJ	0.536 UJ	0.617 UJ	0.641 UJ
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-01	2023-SS-02	2023-SS-03	2023-SS-04
Depth Interval									0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-01	2023-SS-02	2023-SS-03	2023-SS-04
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.132 UJ	0.107 UJ	0.123 UJ	0.128 UJ
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.132 U	0.107 U	0.123 U	0.128 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.132 UJ	0.107 UJ	0.123 UJ	0.128 UJ
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	**0.00961 J**	0.0536 U	0.0617 U	0.0641 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.132 U	0.107 U	0.123 U	0.128 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.132 UJ	0.107 UJ	0.123 UJ	0.128 UJ
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	13.2 UJ	10.7 UJ	12.3 UJ	12.8 UJ
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.132 U	0.107 U	0.123 U	0.128 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	1.32 U	1.07 U	1.23 U	1.28 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.132 U	0.107 U	0.123 U	0.128 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.0659 U	0.0536 U	0.0617 U	0.0641 U

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-01	2023-SS-02	2023-SS-03	2023-SS-04
Depth Interval									0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N
Chemical/Sample ID	**CAS Number**	**Units**	**MA S-1/ GW-2**	**MA S-2/ GW-2**	**MA S-1/ GW-3**	**MA S-3/ GW-2**	**MA S-2/ GW-3**	**MA S-3/ GW-3**	**2023-SS-01**	**2023-SS-02**	**2023-SS-03**	**2023-SS-04**
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.0659 U	0.0536 U	0.0617 U	0.0641 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.33 U	0.268 U	0.309 U	0.32 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.0659 UJ	0.0536 UJ	0.0617 UJ	0.0641 UJ
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.0659 U	0.0536 U	0.0617 U	0.0641 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.198 U	0.161 U	0.185 U	0.192 U
Pesticides/PCBs												
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**1.61**	**0.563**	**5.84**	**1.81**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.109 U	0.0213 U	0.217 U	0.109 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**1.61**	**0.563**	**5.84**	**1.81**
Metals												
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	5.39 UJ	5.06 UJ	5.12 UJ	5.04 UJ
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**3.03 J**	**2.54 J**	**4.01**	**3.32**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**22 J+**	**23.4 J+**	**44.6 J+**	**21 J+**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.331 J**	**0.199 J**	**0.397 J**	**0.299 J**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.539 U	0.506 U	**1.4**	0.504 U
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**4.31**	**4.18**	**7.25**	**5.21**
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**8.52 J**	**8.06 J**	**17.2 J**	**16.8 J**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.0623 U	0.065 U	**0.0419 J**	**0.0294 J**
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**2.64**	**2.45**	**5.23**	**3.08**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	5.39 U	5.06 U	5.12 U	5.04 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	1.08 U	1.01 U	1.02 U	1.01 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.24 U	**2.49 J**	3.07 U	3.02 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**8.16**	**6.79**	**16**	**8.53**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**21.9**	**17**	**54.7**	**24.7**
EPH												
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.355 U	0.354 U	0.39 U	0.357 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.355 U	0.354 U	0.39 U	0.357 U

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-01	2023-SS-02	2023-SS-03	2023-SS-04
Depth Interval									0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft
Sample Date									02/27/2023	02/27/2023	02/27/2023	02/27/2023
Sample Type									N	N	N	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-01	2023-SS-02	2023-SS-03	2023-SS-04
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	0.355 U	0.354 U	0.39 U	0.357 U
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.355 U	0.354 U	0.39 U	0.357 U
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.355 U	0.354 U	0.39 U	0.357 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U
C11-C22 Aromatics	C11-C22-AR	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**10.1**	7.1 U	**20**	**9.97**
C11-C22 Aromatics (adjusted)	STL00203	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**10.1**	7.1 U	**20**	**9.97**
C19-C36 Aliphatics	C19-C36-AL	mg/kg	3,000	5,000	3,000	5,000	5,000	5,000	7.11 U	7.1 U	7.8 U	**13.7**
C9-C18 Aliphatics	C9-C18-AL	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	R	R	R	**11 J**
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.355 U	0.354 U	0.39 U	0.357 U
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.355 U	0.354 U	0.39 U	0.357 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.355 U	0.354 U	0.39 U	0.357 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	0.355 U	0.354 U	0.39 U	0.357 U
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.355 U	0.354 U	0.39 U	0.357 U

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024

mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances

U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-05		2023-SS-06
Depth Interval									0 - 2 ft		0 - 2 ft
Sample Date									02/27/2023		02/27/2023
Sample Type									N	FD	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-05	2023-FD-02	2023-SS-06
Volatiles											
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	0.1	0.1	90	0.1	400	500	0.0552 U	0.0553 U	0.0594 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	600	500	600	1,000	3,000	0.0552 U	0.0553 U	0.0594 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.02	0.02	10	0.02	50	500	0.0552 U	0.0553 U	0.0594 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,1,2-Trichloroethane	79-00-5	mg/kg	2	2	40	2	200	500	0.0552 U	0.0553 U	0.0594 U
1,1-Dichloroethane	75-34-3	mg/kg	9	9	500	9	1,000	1,000	0.0552 U	0.0553 U	0.0594 U
1,1-Dichloroethene	75-35-4	mg/kg	40	40	500	40	1,000	3,000	0.0552 U	0.0553 U	0.0594 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	6	6	700	6	3,000	5,000	0.0552 U	0.0553 U	0.0594 U
1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	--	--	--	--	--	0.11 U	0.111 U	0.119 U
1,2-Dibromoethane	106-93-4	mg/kg	0.1	0.1	1	0.1	5	50	0.0552 U	0.0553 U	0.0594 U
1,2-Dichlorobenzene	95-50-1	mg/kg	100	100	300	100	300	300	0.0552 U	0.0553 U	0.0594 U
1,2-Dichloroethane	107-06-2	mg/kg	0.1	0.1	30	0.1	100	300	0.0552 U	0.0553 U	0.0594 U
1,2-Dichloropropane	78-87-5	mg/kg	0.1	0.1	60	0.1	300	1,000	0.0552 U	0.0553 U	0.0594 U
1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,3-Dichlorobenzene	541-73-1	mg/kg	100	200	100	200	500	500	0.0552 U	0.0553 U	0.0594 U
1,3-Dichloropropane	142-28-9	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
1,3-Dichloropropene	542-75-6	mg/kg	0.4	0.4	20	0.4	100	100	0.0552 U	0.0553 U	0.0594 U
1,4-Dichlorobenzene	106-46-7	mg/kg	1	1	100	1	400	2,000	0.0552 U	0.0553 U	0.0594 U
1,4-Dioxane	123-91-1	mg/kg	5	5	20	5	100	500	1.1 U	1.11 U	1.19 U
2,2-Dichloropropane	594-20-7	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
2-Butanone	78-93-3	mg/kg	50	50	400	50	400	400	0.11 U	0.111 U	**0.0894 J**
2-Chlorotoluene	95-49-8	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
2-Hexanone	591-78-6	mg/kg	--	--	--	--	--	--	0.11 U	0.111 U	0.119 U
4-Chlorotoluene	106-43-4	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
4-Isopropyltoluene	99-87-6	mg/kg	--	--	--	--	--	--	**0.0826**	0.0553 U	0.0594 U
4-Methyl-2-pentanone	108-10-1	mg/kg	50	50	400	50	400	400	0.11 U	0.111 U	0.119 U
Acetone	67-64-1	mg/kg	50	50	400	50	400	400	0.552 UJ	0.553 UJ	0.594 UJ
Acrylonitrile	107-13-1	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Benzene	71-43-2	mg/kg	40	200	40	400	200	1,000	0.0552 U	0.0553 U	0.0594 U
Bromobenzene	108-86-1	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Bromochloromethane	74-97-5	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-05		2023-SS-06
Depth Interval									0 - 2 ft		0 - 2 ft
Sample Date									02/27/2023		02/27/2023
Sample Type									N	FD	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-05	2023-FD-02	2023-SS-06
Bromodichloromethane	75-27-4	mg/kg	0.1	0.1	40	0.1	200	500	0.0552 U	0.0553 U	0.0594 U
Bromoform	75-25-2	mg/kg	1	1	300	1	800	800	0.0552 U	0.0553 U	0.0594 U
Bromomethane	74-83-9	mg/kg	0.5	0.5	30	0.5	30	30	0.11 UJ	0.111 UJ	0.119 UJ
Carbon disulfide	75-15-0	mg/kg	--	--	--	--	--	--	0.11 U	0.111 U	0.119 U
Carbon tetrachloride	56-23-5	mg/kg	5	5	30	5	100	1,000	0.0552 U	0.0553 U	0.0594 U
Chlorobenzene	108-90-7	mg/kg	3	3	100	3	100	100	0.0552 U	0.0553 U	0.0594 U
Chloroethane	75-00-3	mg/kg	--	--	--	--	--	--	0.11 UJ	0.111 UJ	0.119 UJ
Chloroform	67-66-3	mg/kg	0.2	0.2	500	0.2	1,000	1,000	0.0552 U	0.0553 U	0.0594 U
Chloromethane	74-87-3	mg/kg	--	--	--	--	--	--	0.11 U	0.111 U	0.119 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	0.1	0.1	100	0.1	500	500	0.0552 U	0.0553 U	0.0594 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Dibromochloromethane	124-48-1	mg/kg	0.03	0.03	30	0.03	100	500	0.0552 U	0.0553 U	0.0594 U
Dibromomethane	74-95-3	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Dichlorodifluoromethane	75-71-8	mg/kg	--	--	--	--	--	--	0.11 UJ	0.111 UJ	0.119 UJ
Diethyl ether	60-29-7	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Diisopropyl Ether	108-20-3	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Ethanol	64-17-5	mg/kg	--	--	--	--	--	--	11 UJ	11.1 UJ	11.9 UJ
Ethylbenzene	100-41-4	mg/kg	500	1,000	500	1,000	1,000	3,000	0.0552 U	0.0553 U	0.0594 U
Hexachlorobutadiene	87-68-3	mg/kg	30	100	30	100	100	100	0.0552 U	0.0553 U	0.0594 U
Isopropylbenzene	98-82-8	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
m,p-Xylene	179601-23-1	mg/kg	100	100	500	100	1,000	3,000	0.0552 U	0.0553 U	0.0594 U
Methyl tert-butyl ether	1634-04-4	mg/kg	100	100	100	100	500	500	0.0552 U	0.0553 U	0.0594 U
Methylene chloride	75-09-2	mg/kg	3	3	300	3	800	800	0.11 U	0.111 U	0.119 U
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.0552 U	0.0553 U	0.0594 U
n-Butylbenzene	104-51-8	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
n-Propylbenzene	103-65-1	mg/kg	--	--	--	--	--	--	0.0552 U	**0.0463 J**	0.0594 U
o-Xylene	95-47-6	mg/kg	100	100	500	100	1,000	3,000	0.0552 U	0.0553 U	0.0594 U
sec-Butylbenzene	135-98-8	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Styrene	100-42-5	mg/kg	4	4	80	4	300	2,000	0.0552 U	0.0553 U	0.0594 U
tert-Amyl methyl ether	994-05-8	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
tert-Butyl Alcohol	75-65-0	mg/kg	--	--	--	--	--	--	1.1 U	1.11 U	1.19 U
Tert-Butyl Ethyl Ether	637-92-3	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
tert-Butylbenzene	98-06-6	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
Tetrachloroethene	127-18-4	mg/kg	4	4	100	4	500	800	0.0552 U	0.0553 U	0.0594 U
Tetrahydrofuran	109-99-9	mg/kg	--	--	--	--	--	--	0.11 U	0.111 U	0.119 U
Toluene	108-88-3	mg/kg	500	1,000	500	2,000	1,000	3,000	0.0552 U	0.0553 U	0.0594 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	1	1	500	1	1,000	3,000	0.0552 U	0.0553 U	0.0594 U

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-05		2023-SS-06
Depth Interval									0 - 2 ft		0 - 2 ft
Sample Date									02/27/2023		02/27/2023
Sample Type									N	FD	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-05	2023-FD-02	2023-SS-06
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	--	--	--	--	0.0552 U	0.0553 U	0.0594 U
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	--	--	--	--	0.276 U	0.277 U	0.297 U
Trichloroethene	79-01-6	mg/kg	0.3	0.3	30	0.3	70	70	0.0552 U	0.0553 U	0.0594 U
Trichlorofluoromethane	75-69-4	mg/kg	--	--	--	--	--	--	0.0552 UJ	0.0553 UJ	0.0594 UJ
Vinyl chloride	75-01-4	mg/kg	0.3	0.7	0.3	0.7	10	100	0.0552 U	0.0553 U	0.0594 U
Xylene (total)	1330-20-7	mg/kg	100	100	500	100	1,000	3,000	0.166 U	0.166 U	0.178 U
Pesticides/PCBs											
Aroclor 1016	12674-11-2	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor 1221	11104-28-2	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor 1232	11141-16-5	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor 1242	53469-21-9	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor 1248	12672-29-6	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor 1254	11097-69-1	mg/kg	1	4	1	4	4	4	**0.735**	**0.657**	**6.4**
Aroclor 1260	11096-82-5	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor 1262	37324-23-5	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor 1268	11100-14-4	mg/kg	1	4	1	4	4	4	0.0203 U	0.0206 U	0.26 U
Aroclor, Total	AROCLORTOT	mg/kg	1	4	1	4	4	4	**0.735**	**0.657**	**6.4**
Metals											
Antimony	7440-36-0	mg/kg	20	40	20	40	40	40	5.24 UJ	4.11 UJ	5.53 UJ
Arsenic	7440-38-2	mg/kg	20	20	20	60	20	60	**2.15 J**	**3.05**	**6.27**
Barium	7440-39-3	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**20.6 J+**	**25 J+**	**51.4 J**
Beryllium	7440-41-7	mg/kg	100	200	100	200	200	200	**0.245 J**	**0.298 J**	**0.637**
Cadmium	7440-43-9	mg/kg	80	80	80	80	80	80	0.524 U	0.411 U	**1.02**
Chromium	7440-47-3	mg/kg	100	200	100	200	200	200	**3.21**	**5.26**	**12.7**
Lead	7439-92-1	mg/kg	200	600	200	600	600	600	**7.58 J**	**8.09 J**	**17 J**
Mercury	7439-97-6	mg/kg	20	40	20	40	40	40	0.0641 U	**0.0412 J**	**0.0418 J**
Nickel	7440-02-0	mg/kg	700	1,000	700	1,000	1,000	1,000	**2.07**	**2.76**	**7.32**
Selenium	7782-49-2	mg/kg	400	800	400	800	800	800	5.24 U	4.11 U	5.53 U
Silver	7440-22-4	mg/kg	100	200	100	200	200	200	1.05 U	0.823 U	11.1 U
Thallium	7440-28-0	mg/kg	8	70	8	90	70	90	3.14 U	2.47 U	33.2 U
Vanadium	7440-62-2	mg/kg	500	800	500	800	800	800	**5.54**	**8.09**	**20.4**
Zinc	7440-66-6	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	**21.3**	**23.4**	**49.7**
EPH											
2-Methylnaphthalene	91-57-6	mg/kg	80	80	300	80	500	500	0.343 U	0.339 U	0.441 U
Acenaphthene	83-32-9	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.343 U	0.339 U	0.441 U
Acenaphthylene	208-96-8	mg/kg	600	600	10	600	10	10	0.343 U	0.339 U	0.441 U

Appendix E5
Surface Soil Analytical Results
Landfill Area
American Tissue Mill Phase II
Templeton, Massachusetts

Location									2023-SS-05		2023-SS-06
Depth Interval									0 - 2 ft		0 - 2 ft
Sample Date									02/27/2023		02/27/2023
Sample Type									N	FD	N
Chemical/Sample ID	CAS Number	Units	MA S-1/ GW-2	MA S-2/ GW-2	MA S-1/ GW-3	MA S-3/ GW-2	MA S-2/ GW-3	MA S-3/ GW-3	2023-SS-05	2023-FD-02	2023-SS-06
Anthracene	120-12-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.343 U	0.339 U	**1.07**
Benzo(a)anthracene	56-55-3	mg/kg	20	300	20	2,000	300	2,000	0.343 U	0.339 U	**3.99 J**
Benzo(a)pyrene	50-32-8	mg/kg	2	30	2	30	30	30	0.343 U	0.339 U	**1.2**
Benzo(b)fluoranthene	205-99-2	mg/kg	20	300	20	2,000	300	2,000	0.343 U	0.339 U	**1.67**
Benzo(g,h,i)perylene	191-24-2	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.343 U	0.339 U	0.441 U
Benzo(k)fluoranthene	207-08-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.343 U	0.339 U	**1.79**
C11-C22 Aromatics	C11-C22-AR	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	6.87 U	**23.9**	**149**
C11-C22 Aromatics (adjusted)	STL00203	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	6.87 U	**23.9**	**109**
C19-C36 Aliphatics	C19-C36-AL	mg/kg	3,000	5,000	3,000	5,000	5,000	5,000	6.87 U	**9.34**	8.84 U
C9-C18 Aliphatics	C9-C18-AL	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	R	R	R
Chrysene	218-01-9	mg/kg	200	3,000	200	5,000	3,000	5,000	0.343 U	0.339 U	**2.45**
Dibenz(a,h)anthracene	53-70-3	mg/kg	2	30	2	200	30	200	0.343 U	0.339 U	**0.54 J**
Fluoranthene	206-44-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.343 U	0.339 U	**10.6**
Fluorene	86-73-7	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.343 U	0.339 U	0.441 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	20	300	20	2,000	300	2,000	0.343 U	0.339 U	**1.38**
Naphthalene	91-20-3	mg/kg	20	20	500	20	1,000	3,000	0.343 U	0.339 U	0.441 U
Phenanthrene	85-01-8	mg/kg	500	1,000	500	3,000	1,000	3,000	0.343 U	0.339 U	**9.13**
Pyrene	129-00-0	mg/kg	1,000	3,000	1,000	5,000	3,000	5,000	0.343 U	0.339 U	**5.45**

Notes:
Standards from 310 CMR 40.0000: Massachusetts Contingency Plan 40.0974(2) Table 1 and 40.0974(6) Tables 2, 3, and 4. Updated 2024
mg/kg = milligrams/kilogram
N = Normal
FD = Field Duplicate
Detections shown in bold
Highlights indicate exceedances
U = Not Detected
B = Qualified for Blank Contamination
J = Concentration is estimated, bias is indicated.
R = Rejected

APPENDIX F

Appendix F
ProUCL 5.1 Output
American Tissue Mill Phase II
Templeton, Massachusetts

UCL Statistics for Data Sets with Non-Detects	
User Selected Options	
Date/Time of Computation	ProUCL 5.15/23/2024 12:39:17 PM
From File	ProUCL formatted_rev2.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

ConcreteAroclor1254

General Statistics			
Total Number of Observations	30	Number of Distinct Observations	30
Number of Detects	29	Number of Non-Detects	1
Number of Distinct Detects	29	Number of Distinct Non-Detects	1
Minimum Detect	0.0574	Minimum Non-Detect	0.054
Maximum Detect	89.9	Maximum Non-Detect	0.054
Variance Detects	276.3	Percent Non-Detects	3.333%
Mean Detects	8.064	SD Detects	16.62
Median Detects	4.33	CV Detects	2.061
Skewness Detects	4.544	Kurtosis Detects	22.69
Mean of Logged Detects	0.725	SD of Logged Detects	1.943

Normal GOF Test on Detects Only		
Shapiro Wilk Test Statistic	0.454	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.926	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.315	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.161	Detected Data Not Normal at 5% Significance Level
Detected Data Not Normal at 5% Significance Level		

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs			
KM Mean	7.797	KM Standard Error of Mean	2.996
KM SD	16.12	95% KM (BCA) UCL	13.5
95% KM (t) UCL	12.89	95% KM (Percentile Bootstrap) UCL	13.5
95% KM (z) UCL	12.72	95% KM Bootstrap t UCL	21.5
90% KM Chebyshev UCL	16.78	95% KM Chebyshev UCL	20.86
97.5% KM Chebyshev UCL	26.51	99% KM Chebyshev UCL	37.6

Gamma GOF Tests on Detected Observations Only		
A-D Test Statistic	0.661	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.818	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.117	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.173	Detected data appear Gamma Distributed at 5% Significance Level
Detected data appear Gamma Distributed at 5% Significance Level		

Gamma Statistics on Detected Data Only			
k hat (MLE)	0.471	k star (bias corrected MLE)	0.445
Theta hat (MLE)	17.14	Theta star (bias corrected MLE)	18.13
nu hat (MLE)	27.29	nu star (bias corrected)	25.8
Mean (detects)	8.064		
Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)			
For such situations, GROS method may yield incorrect values of UCLs and BTVs			
This is especially true when the sample size is small.			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.01	Mean	7.796
Maximum	89.9	Median	3.47
SD	16.4	CV	2.104
k hat (MLE)	0.431	k star (bias corrected MLE)	0.411
Theta hat (MLE)	18.07	Theta star (bias corrected MLE)	18.99
nu hat (MLE)	25.89	nu star (bias corrected)	24.63
Adjusted Level of Significance (β)	0.041		
Approximate Chi Square Value (24.63, α)	14.33	Adjusted Chi Square Value (24.63, β)	13.88
95% Gamma Approximate UCL (use when n>=50)	13.4	95% Gamma Adjusted UCL (use when n<50)	13.84
Estimates of Gamma Parameters using KM Estimates			
Mean (KM)	7.797	SD (KM)	16.12
Variance (KM)	259.9	SE of Mean (KM)	2.996
k hat (KM)	0.234	k star (KM)	0.233
nu hat (KM)	14.03	nu star (KM)	13.96
theta hat (KM)	33.34	theta star (KM)	33.5
80% gamma percentile (KM)	11.02	90% gamma percentile (KM)	23.5
95% gamma percentile (KM)	38.54	99% gamma percentile (KM)	78.98
Gamma Kaplan-Meier (KM) Statistics			
Approximate Chi Square Value (13.96, α)	6.546	Adjusted Chi Square Value (13.96, β)	6.254
95% Gamma Approximate KM-UCL (use when n>=50)	16.63	95% Gamma Adjusted KM-UCL (use when n<50)	17.41
Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Test Statistic	0.938	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.926	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.166	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.161	Detected Data Not Lognormal at 5% Significance Level	
Detected Data appear Approximate Lognormal at 5% Significance Level			
Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	7.796	Mean in Log Scale	0.564
SD in Original Scale	16.4	SD in Log Scale	2.102
95% t UCL (assumes normality of ROS data)	12.88	95% Percentile Bootstrap UCL	13.51
95% BCA Bootstrap UCL	16.39	95% Bootstrap t UCL	21.29
95% H-UCL (Log ROS)	79.17		
Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution			
KM Mean (logged)	0.603	KM Geo Mean	1.828
KM SD (logged)	1.988	95% Critical H Value (KM-Log)	3.916
KM Standard Error of Mean (logged)	0.369	95% H-UCL (KM -Log)	55.99
KM SD (logged)	1.988	95% Critical H Value (KM-Log)	3.916
KM Standard Error of Mean (logged)	0.369		

Appendix F
ProUCL 5.1 Output
American Tissue Mill Phase II
Templeton, Massachusetts

DL/2 Statistics			
DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	7.797	Mean in Log Scale	0.58
SD in Original Scale	16.4	SD in Log Scale	2.067
95% t UCL (Assumes normality)	12.88	95% H-Stat UCL	71.4
DL/2 is not a recommended method, provided for comparisons and historical reasons			
Nonparametric Distribution Free UCL Statistics			
Detected Data appear Gamma Distributed at 5% Significance Level			
Suggested UCL to Use			
Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)	17.41		
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.			
Recommendations are based upon data size, data distribution, and skewness.			
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).			
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.			
ConcreteAroclor1260			
General Statistics			
Total Number of Observations	30	Number of Distinct Observations	30
Number of Detects	10	Number of Non-Detects	20
Number of Distinct Detects	10	Number of Distinct Non-Detects	20
Minimum Detect	0.142	Minimum Non-Detect	0.0467
Maximum Detect	14.8	Maximum Non-Detect	4.38
Variance Detects	20.48	Percent Non-Detects	66.67%
Mean Detects	2.439	SD Detects	4.526
Median Detects	0.728	CV Detects	1.855
Skewness Detects	2.754	Kurtosis Detects	7.879
Mean of Logged Detects	-0.25	SD of Logged Detects	1.537
Normal GOF Test on Detects Only			
Shapiro Wilk Test Statistic	0.57	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.842	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.369	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.262	Detected Data Not Normal at 5% Significance Level	
Detected Data Not Normal at 5% Significance Level			
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs			
KM Mean	0.892	KM Standard Error of Mean	0.524
KM SD	2.715	95% KM (BCA) UCL	1.798
95% KM (t) UCL	1.782	95% KM (Percentile Bootstrap) UCL	1.853
95% KM (z) UCL	1.754	95% KM Bootstrap t UCL	5.628
90% KM Chebyshev UCL	2.464	95% KM Chebyshev UCL	3.175
97.5% KM Chebyshev UCL	4.163	99% KM Chebyshev UCL	6.103
Gamma GOF Tests on Detected Observations Only			
A-D Test Statistic	0.682	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.773	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.224	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.28	Detected data appear Gamma Distributed at 5% Significance Level	
Detected data appear Gamma Distributed at 5% Significance Level			

Gamma Statistics on Detected Data Only			
k hat (MLE)	0.549	k star (bias corrected MLE)	0.451
Theta hat (MLE)	4.446	Theta star (bias corrected MLE)	5.412
nu hat (MLE)	10.97	nu star (bias corrected)	9.014
Mean (detects)	2.439		
Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)			
For such situations, GROS method may yield incorrect values of UCLs and BTVs			
This is especially true when the sample size is small.			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.01	Mean	0.82
Maximum	14.8	Median	0.01
SD	2.777	CV	3.388
k hat (MLE)	0.242	k star (bias corrected MLE)	0.24
Theta hat (MLE)	3.391	Theta star (bias corrected MLE)	3.419
nu hat (MLE)	14.5	nu star (bias corrected)	14.39
Adjusted Level of Significance (β)	0.041		
Approximate Chi Square Value (14.39, α)	6.836	Adjusted Chi Square Value (14.39, β)	6.537
95% Gamma Approximate UCL (use when n>=50)	1.725	95% Gamma Adjusted UCL (use when n<50)	1.804
Estimates of Gamma Parameters using KM Estimates			
Mean (KM)	0.892	SD (KM)	2.715
Variance (KM)	7.372	SE of Mean (KM)	0.524
k hat (KM)	0.108	k star (KM)	0.119
nu hat (KM)	6.481	nu star (KM)	7.166
theta hat (KM)	8.261	theta star (KM)	7.471
80% gamma percentile (KM)	0.778	90% gamma percentile (KM)	2.525
95% gamma percentile (KM)	5.095	99% gamma percentile (KM)	12.95
Gamma Kaplan-Meier (KM) Statistics			
Approximate Chi Square Value (7.17, α)	2.262	Adjusted Chi Square Value (7.17, β)	2.107
95% Gamma Approximate KM-UCL (use when n>=50)	2.827	95% Gamma Adjusted KM-UCL (use when n<50)	3.036
Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Test Statistic	0.922	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.842	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.183	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.262	Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Lognormal at 5% Significance Level			
Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	0.848	Mean in Log Scale	-2.133
SD in Original Scale	2.769	SD in Log Scale	1.665
95% t UCL (assumes normality of ROS data)	1.707	95% Percentile Bootstrap UCL	1.79
95% BCA Bootstrap UCL	2.393	95% Bootstrap t UCL	5.657
95% H-UCL (Log ROS)	1.361		
Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution			
KM Mean (logged)	-1.743	KM Geo Mean	0.175
KM SD (logged)	1.478	95% Critical H Value (KM-Log)	3.133
KM Standard Error of Mean (logged)	0.332	95% H-UCL (KM -Log)	1.233
KM SD (logged)	1.478	95% Critical H Value (KM-Log)	3.133
KM Standard Error of Mean (logged)	0.332		

Appendix F
ProUCL 5.1 Output
American Tissue Mill Phase II
Templeton, Massachusetts

DL/2 Statistics			
DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1.027	Mean in Log Scale	-1.203
SD in Original Scale	2.743	SD in Log Scale	1.427
95% t UCL (Assumes normality)	1.878	95% H-Stat UCL	1.869
DL/2 is not a recommended method, provided for comparisons and historical reasons			
Nonparametric Distribution Free UCL Statistics			
Detected Data appear Gamma Distributed at 5% Significance Level			
Suggested UCL to Use			
Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)	3.036		
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.			
Recommendations are based upon data size, data distribution, and skewness.			
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).			
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.			
ConcreteAroclor1268			
General Statistics			
Total Number of Observations	30	Number of Distinct Observations	30
Number of Detects	10	Number of Non-Detects	20
Number of Distinct Detects	10	Number of Distinct Non-Detects	20
Minimum Detect	0.0585	Minimum Non-Detect	0.0467
Maximum Detect	5.77	Maximum Non-Detect	4.38
Variance Detects	3.417	Percent Non-Detects	66.67%
Mean Detects	1.244	SD Detects	1.848
Median Detects	0.425	CV Detects	1.485
Skewness Detects	2.069	Kurtosis Detects	3.921
Mean of Logged Detects	-0.685	SD of Logged Detects	1.43
Normal GOF Test on Detects Only			
Shapiro Wilk Test Statistic	0.683	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.842	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.316	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.262	Detected Data Not Normal at 5% Significance Level	
Detected Data Not Normal at 5% Significance Level			
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs			
KM Mean	0.506	KM Standard Error of Mean	0.224
KM SD	1.15	95% KM (BCA) UCL	0.912
95% KM (t) UCL	0.887	95% KM (Percentile Bootstrap) UCL	0.901
95% KM (z) UCL	0.875	95% KM Bootstrap t UCL	1.861
90% KM Chebyshev UCL	1.178	95% KM Chebyshev UCL	1.483
97.5% KM Chebyshev UCL	1.905	99% KM Chebyshev UCL	2.735
Gamma GOF Tests on Detected Observations Only			
A-D Test Statistic	0.471	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.763	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.193	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.277	Detected data appear Gamma Distributed at 5% Significance Level	
Detected data appear Gamma Distributed at 5% Significance Level			

Gamma Statistics on Detected Data Only			
k hat (MLE)	0.673	k star (bias corrected MLE)	0.538
Theta hat (MLE)	1.849	Theta star (bias corrected MLE)	2.314
nu hat (MLE)	13.46	nu star (bias corrected)	10.75
Mean (detects)	1.244		
Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)			
For such situations, GROS method may yield incorrect values of UCLs and BTVs			
This is especially true when the sample size is small.			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.01	Mean	0.421
Maximum	5.77	Median	0.01
SD	1.188	CV	2.818
k hat (MLE)	0.286	k star (bias corrected MLE)	0.279
Theta hat (MLE)	1.476	Theta star (bias corrected MLE)	1.509
nu hat (MLE)	17.13	nu star (bias corrected)	16.75
Adjusted Level of Significance (β)	0.041		
Approximate Chi Square Value (16.75, α)	8.497	Adjusted Chi Square Value (16.75, β)	8.158
95% Gamma Approximate UCL (use when n>=50)	0.831	95% Gamma Adjusted UCL (use when n<50)	0.866
Estimates of Gamma Parameters using KM Estimates			
Mean (KM)	0.506	SD (KM)	1.15
Variance (KM)	1.322	SE of Mean (KM)	0.224
k hat (KM)	0.194	k star (KM)	0.197
nu hat (KM)	11.63	nu star (KM)	11.8
theta hat (KM)	2.611	theta star (KM)	2.573
80% gamma percentile (KM)	0.661	90% gamma percentile (KM)	1.531
95% gamma percentile (KM)	2.619	99% gamma percentile (KM)	5.625
Gamma Kaplan-Meier (KM) Statistics			
Approximate Chi Square Value (11.80, α)	5.097	Adjusted Chi Square Value (11.80, β)	4.844
95% Gamma Approximate KM-UCL (use when n>=50)	1.172	95% Gamma Adjusted KM-UCL (use when n<50)	1.233
Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Test Statistic	0.975	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.842	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.116	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.262	Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Lognormal at 5% Significance Level			
Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	0.458	Mean in Log Scale	-2.124
SD in Original Scale	1.175	SD in Log Scale	1.386
95% t UCL (assumes normality of ROS data)	0.823	95% Percentile Bootstrap UCL	0.859
95% BCA Bootstrap UCL	1.056	95% Bootstrap t UCL	1.953
95% H-UCL (Log ROS)	0.676		
Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution			
KM Mean (logged)	-1.838	KM Geo Mean	0.159
KM SD (logged)	1.321	95% Critical H Value (KM-Log)	2.906
KM Standard Error of Mean (logged)	0.314	95% H-UCL (KM -Log)	0.777
KM SD (logged)	1.321	95% Critical H Value (KM-Log)	2.906
KM Standard Error of Mean (logged)	0.314		

Appendix F
ProUCL 5.1 Output
American Tissue Mill Phase II
Templeton, Massachusetts

DL/2 Statistics			
DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.629	Mean in Log Scale	-1.348
SD in Original Scale	1.18	SD in Log Scale	1.302
95% t UCL (Assumes normality)	0.995	95% H-Stat UCL	1.216
DL/2 is not a recommended method, provided for comparisons and historical reasons			
Nonparametric Distribution Free UCL Statistics			
Detected Data appear Gamma Distributed at 5% Significance Level			
Suggested UCL to Use			
Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)	1.233		
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.			
Recommendations are based upon data size, data distribution, and skewness.			
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).			
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.			
SurfaceSoilAroclor1254			
General Statistics			
Total Number of Observations	10	Number of Distinct Observations	10
Number of Detects	9	Number of Non-Detects	1
Number of Distinct Detects	9	Number of Distinct Non-Detects	1
Minimum Detect	0.563	Minimum Non-Detect	110
Maximum Detect	6.4	Maximum Non-Detect	110
Variance Detects	5.582	Percent Non-Detects	10%
Mean Detects	3.006	SD Detects	2.363
Median Detects	1.81	CV Detects	0.786
Skewness Detects	0.472	Kurtosis Detects	-1.818
Mean of Logged Detects	0.755	SD of Logged Detects	0.934
Normal GOF Test on Detects Only			
Shapiro Wilk Test Statistic	0.853	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.829	Detected Data appear Normal at 5% Significance Level	
Lilliefors Test Statistic	0.249	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.274	Detected Data appear Normal at 5% Significance Level	
Detected Data appear Normal at 5% Significance Level			
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs			
KM Mean	3.006	KM Standard Error of Mean	0.788
KM SD	2.227	95% KM (BCA) UCL	4.216
95% KM (t) UCL	4.45	95% KM (Percentile Bootstrap) UCL	4.273
95% KM (z) UCL	4.302	95% KM Bootstrap t UCL	4.766
90% KM Chebyshev UCL	5.369	95% KM Chebyshev UCL	6.439
97.5% KM Chebyshev UCL	7.924	99% KM Chebyshev UCL	10.84
Gamma GOF Tests on Detected Observations Only			
A-D Test Statistic	0.444	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.734	Detected data appear Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.198	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.284	Detected data appear Gamma Distributed at 5% Significance Level	
Detected data appear Gamma Distributed at 5% Significance Level			

Gamma Statistics on Detected Data Only			
k hat (MLE)	1.592	k star (bias corrected MLE)	1.135
Theta hat (MLE)	1.889	Theta star (bias corrected MLE)	2.648
nu hat (MLE)	28.65	nu star (bias corrected)	20.44
Mean (detects)	3.006		
Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)			
For such situations, GROS method may yield incorrect values of UCLs and BTVs			
This is especially true when the sample size is small.			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.563	Mean	2.961
Maximum	6.4	Median	2.18
SD	2.232	CV	0.754
k hat (MLE)	1.748	k star (bias corrected MLE)	1.291
Theta hat (MLE)	1.693	Theta star (bias corrected MLE)	2.294
nu hat (MLE)	34.97	nu star (bias corrected)	25.81
Adjusted Level of Significance (β)	0.0267		
Approximate Chi Square Value (25.81, α)	15.23	Adjusted Chi Square Value (25.81, β)	13.84
95% Gamma Approximate UCL (use when n>=50)	5.017	95% Gamma Adjusted UCL (use when n<50)	5.522
Estimates of Gamma Parameters using KM Estimates			
Mean (KM)	3.006	SD (KM)	2.227
Variance (KM)	4.961	SE of Mean (KM)	0.788
k hat (KM)	1.822	k star (KM)	1.342
nu hat (KM)	36.44	nu star (KM)	26.84
theta hat (KM)	1.65	theta star (KM)	2.24
80% gamma percentile (KM)	4.707	90% gamma percentile (KM)	6.438
95% gamma percentile (KM)	8.132	99% gamma percentile (KM)	11.98
Gamma Kaplan-Meier (KM) Statistics			
Approximate Chi Square Value (26.84, α)	16.03	Adjusted Chi Square Value (26.84, β)	14.59
95% Gamma Approximate KM-UCL (use when n>=50)	5.035	95% Gamma Adjusted KM-UCL (use when n<50)	5.53
Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Test Statistic	0.907	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.829	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.179	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.274	Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Lognormal at 5% Significance Level			
Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	2.919	Mean in Log Scale	0.755
SD in Original Scale	2.245	SD in Log Scale	0.881
95% t UCL (assumes normality of ROS data)	4.22	95% Percentile Bootstrap UCL	4.04
95% BCA Bootstrap UCL	4.154	95% Bootstrap t UCL	4.417
95% H-UCL (Log ROS)	7.269		
Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution			
KM Mean (logged)	0.755	KM Geo Mean	2.127
KM SD (logged)	0.881	95% Critical H Value (KM-Log)	2.864
KM Standard Error of Mean (logged)	0.311	95% H-UCL (KM -Log)	7.269
KM SD (logged)	0.881	95% Critical H Value (KM-Log)	2.864
KM Standard Error of Mean (logged)	0.311		

DL/2 Statistics			
DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	8.206	Mean in Log Scale	1.08
SD in Original Scale	16.59	SD in Log Scale	1.354
95% t UCL (Assumes normality)	17.82	95% H-Stat UCL	42.29
DL/2 is not a recommended method, provided for comparisons and historical reasons			
Nonparametric Distribution Free UCL Statistics			
Detected Data appear Normal Distributed at 5% Significance Level			
Suggested UCL to Use			
95% KM (t) UCL	4.45		
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.			
Recommendations are based upon data size, data distribution, and skewness.			
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).			
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.			
UCL Statistics for Data Sets with Non-Detects			

User Selected Options	
Date/Time of Computation	ProUCL 5.17/3/2024 9:43:04 AM
From File	ShallowSoil ProUCL.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

ShallowAroclor1260

General Statistics			
Total Number of Observations	100	Number of Distinct Observations	82
Number of Detects	6	Number of Non-Detects	94
Number of Distinct Detects	6	Number of Distinct Non-Detects	77
Minimum Detect	0.0144	Minimum Non-Detect	0.0182
Maximum Detect	3.59	Maximum Non-Detect	11.9
Variance Detects	2.111	Percent Non-Detects	94%
Mean Detects	0.624	SD Detects	1.453
Median Detects	0.0266	CV Detects	2.327
Skewness Detects	2.448	Kurtosis Detects	5.996
Mean of Logged Detects	-2.816	SD of Logged Detects	2.082
Normal GOF Test on Detects Only			
Shapiro Wilk Test Statistic	0.508	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.788	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.482	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.325	Detected Data Not Normal at 5% Significance Level	
Detected Data Not Normal at 5% Significance Level			
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs			
KM Mean	0.0532	KM Standard Error of Mean	0.0394
KM SD	0.357	95% KM (BCA) UCL	0.159
95% KM (t) UCL	0.119	95% KM (Percentile Bootstrap) UCL	0.127
95% KM (z) UCL	0.118	95% KM Bootstrap t UCL	1.715
90% KM Chebyshev UCL	0.171	95% KM Chebyshev UCL	0.225
97.5% KM Chebyshev UCL	0.299	99% KM Chebyshev UCL	0.445

Gamma GOF Tests on Detected Observations Only			
A-D Test Statistic	1.226	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.768	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.428	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.357	Detected Data Not Gamma Distributed at 5% Significance Level	
Detected Data Not Gamma Distributed at 5% Significance Level			
Gamma Statistics on Detected Data Only			
k hat (MLE)	0.295	k star (bias corrected MLE)	0.259
Theta hat (MLE)	2.118	Theta star (bias corrected MLE)	2.415
nu hat (MLE)	3.538	nu star (bias corrected)	3.102
Mean (detects)	0.624		
Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)			
For such situations, GROS method may yield incorrect values of UCLs and BTVs			
This is especially true when the sample size is small.			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.01	Mean	0.0469
Maximum	3.59	Median	0.01
SD	0.358	CV	7.637
k hat (MLE)	0.449	k star (bias corrected MLE)	0.443
Theta hat (MLE)	0.104	Theta star (bias corrected MLE)	0.106
nu hat (MLE)	89.87	nu star (bias corrected)	88.51
Adjusted Level of Significance (β)	0.0476		
Approximate Chi Square Value (88.51, α)	67.82	Adjusted Chi Square Value (88.51, β)	67.56
95% Gamma Approximate UCL (use when n>=50)	0.0612	95% Gamma Adjusted UCL (use when n<50)	0.0614
Estimates of Gamma Parameters using KM Estimates			
Mean (KM)	0.0532	SD (KM)	0.357
Variance (KM)	0.128	SE of Mean (KM)	0.0394
k hat (KM)	0.0221	k star (KM)	0.0281
nu hat (KM)	4.428	nu star (KM)	5.629
theta hat (KM)	2.402	theta star (KM)	1.889
80% gamma percentile (KM)	3.9097E-4	90% gamma percentile (KM)	0.026
95% gamma percentile (KM)	0.193	99% gamma percentile (KM)	1.396
Gamma Kaplan-Meier (KM) Statistics			
Approximate Chi Square Value (5.63, α)	1.453	Adjusted Chi Square Value (5.63, β)	1.423
95% Gamma Approximate KM-UCL (use when n>=50)	0.206	95% Gamma Adjusted KM-UCL (use when n<50)	0.21
Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Test Statistic	0.724	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.788	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.301	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.325	Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Approximate Lognormal at 5% Significance Level			
Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	0.0455	Mean in Log Scale	-4.71
SD in Original Scale	0.358	SD in Log Scale	0.758
95% t UCL (assumes normality of ROS data)	0.105	95% Percentile Bootstrap UCL	0.117
95% BCA Bootstrap UCL	0.188	95% Bootstrap t UCL	3.382
95% H-UCL (Log ROS)	0.014		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution			
KM Mean (logged)	-4.063	KM Geo Mean	0.0172
KM SD (logged)	0.598	95% Critical H Value (KM-Log)	1.919
KM Standard Error of Mean (logged)	0.0891	95% H-UCL (KM -Log)	0.0231
KM SD (logged)	0.598	95% Critical H Value (KM-Log)	1.919
KM Standard Error of Mean (logged)	0.0891		
DL/2 Statistics			
DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.206	Mean in Log Scale	-3.148
SD in Original Scale	0.705	SD in Log Scale	1.56
95% t UCL (Assumes normality)	0.323	95% H-Stat UCL	0.227
DL/2 is not a recommended method, provided for comparisons and historical reasons			
Nonparametric Distribution Free UCL Statistics			
Detected Data appear Approximate Lognormal Distributed at 5% Significance Level			
Suggested UCL to Use			
KM H-UCL	0.0231		
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.			
Recommendations are based upon data size, data distribution, and skewness.			
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).			
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.			
ShallowAroclor1254			
General Statistics			
Total Number of Observations	100	Number of Distinct Observations	97
Number of Detects	87	Number of Non-Detects	13
Number of Distinct Detects	86	Number of Distinct Non-Detects	12
Minimum Detect	0.0169	Minimum Non-Detect	0.0196
Maximum Detect	362	Maximum Non-Detect	0.0288
Variance Detects	1620	Percent Non-Detects	13%
Mean Detects	9.916	SD Detects	40.24
Median Detects	0.965	CV Detects	4.059
Skewness Detects	8.079	Kurtosis Detects	70.18
Mean of Logged Detects	-0.0488	SD of Logged Detects	2.248
Normal GOF Test on Detects Only			
Shapiro Wilk Test Statistic	0.256	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.403	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0951	Detected Data Not Normal at 5% Significance Level	
Detected Data Not Normal at 5% Significance Level			
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs			
KM Mean	8.629	KM Standard Error of Mean	3.769
KM SD	37.47	95% KM (BCA) UCL	16.36
95% KM (t) UCL	14.89	95% KM (Percentile Bootstrap) UCL	15.59
95% KM (z) UCL	14.83	95% KM Bootstrap t UCL	32.11
90% KM Chebyshev UCL	19.93	95% KM Chebyshev UCL	25.06
97.5% KM Chebyshev UCL	32.16	99% KM Chebyshev UCL	46.13

Gamma GOF Tests on Detected Observations Only			
A-D Test Statistic	4.345	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.869	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.18	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.104	Detected Data Not Gamma Distributed at 5% Significance Level	
Detected Data Not Gamma Distributed at 5% Significance Level			
Gamma Statistics on Detected Data Only			
k hat (MLE)	0.295	k star (bias corrected MLE)	0.293
Theta hat (MLE)	33.6	Theta star (bias corrected MLE)	33.89
nu hat (MLE)	51.35	nu star (bias corrected)	50.91
Mean (detects)	9.916		
Gamma ROS Statistics using Imputed Non-Detects			
GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)			
For such situations, GROS method may yield incorrect values of UCLs and BTVs			
This is especially true when the sample size is small.			
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
Minimum	0.01	Mean	8.628
Maximum	362	Median	0.564
SD	37.66	CV	4.365
k hat (MLE)	0.253	k star (bias corrected MLE)	0.253
Theta hat (MLE)	34.04	Theta star (bias corrected MLE)	34.17
nu hat (MLE)	50.69	nu star (bias corrected)	50.5
Adjusted Level of Significance (β)	0.0476		
Approximate Chi Square Value (50.50, α)	35.19	Adjusted Chi Square Value (50.50, β)	35
95% Gamma Approximate UCL (use when n>=50)	12.38	95% Gamma Adjusted UCL (use when n<50)	12.45
Estimates of Gamma Parameters using KM Estimates			
Mean (KM)	8.629	SD (KM)	37.47
Variance (KM)	1404	SE of Mean (KM)	3.769
k hat (KM)	0.053	k star (KM)	0.0581
nu hat (KM)	10.61	nu star (KM)	11.62
theta hat (KM)	162.7	theta star (KM)	148.5
80% gamma percentile (KM)	1.9	90% gamma percentile (KM)	15.71
95% gamma percentile (KM)	48.01	99% gamma percentile (KM)	176.5
Gamma Kaplan-Meier (KM) Statistics			
Approximate Chi Square Value (11.62, α)	4.979	Adjusted Chi Square Value (11.62, β)	4.916
95% Gamma Approximate KM-UCL (use when n>=50)	20.14	95% Gamma Adjusted KM-UCL (use when n<50)	20.4
Lognormal GOF Test on Detected Observations Only			
Shapiro Wilk Approximate Test Statistic	0.965	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0.0881	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.0755	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0951	Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Lognormal at 5% Significance Level			
Lognormal ROS Statistics Using Imputed Non-Detects			
Mean in Original Scale	8.628	Mean in Log Scale	-0.665
SD in Original Scale	37.66	SD in Log Scale	2.639
95% t UCL (assumes normality of ROS data)	14.88	95% Percentile Bootstrap UCL	15.97
95% BCA Bootstrap UCL	20.55	95% Bootstrap t UCL	31.74
95% H-UCL (Log ROS)	51.86		

Appendix F
ProUCL 5.1 Output
American Tissue Mill Phase II
Templeton, Massachusetts

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution			
KM Mean (logged)	-0.571	KM Geo Mean	0.565
KM SD (logged)	2.484	95% Critical H Value (KM-Log)	4.06
KM Standard Error of Mean (logged)	0.25	95% H-UCL (KM -Log)	34.05
KM SD (logged)	2.484	95% Critical H Value (KM-Log)	4.06
KM Standard Error of Mean (logged)	0.25		
DL/2 Statistics			
DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	8.628	Mean in Log Scale	-0.629
SD in Original Scale	37.66	SD in Log Scale	2.582
95% t UCL (Assumes normality)	14.88	95% H-Stat UCL	44.31
DL/2 is not a recommended method, provided for comparisons and historical reasons			
Nonparametric Distribution Free UCL Statistics			
Detected Data appear Lognormal Distributed at 5% Significance Level			
Suggested UCL to Use			
KM H-UCL	34.05		
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.			
Recommendations are based upon data size, data distribution, and skewness.			
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).			
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.			

APPENDIX G

APPENDIX G
STATEMENT OF LIMITATIONS AND CONDITIONS, ATTACHMENT TO OPINION OF MASSACHUSETTS LICENSED SITE PROFESSIONAL

Nobis Engineering, Inc.

Name of Licensed Site Professional: Adam N. Roy
LSP Registration Number: 6450
Date of Opinion: 7/12/2024
Client to Whom Opinion was Rendered: U.S. Environmental Protection Agency; Macvallee, LLC.
Response Tracking No/Site No: 2-0000924

This Statement of Limitations and Conditions is an integral part of, and is incorporated by reference into, the Opinion of Massachusetts Licensed Site Professional (LSP) referenced above.

LIMITATIONS

1. Purpose of Opinion

A. This Opinion is being provided in compliance with the requirements set forth in the Massachusetts Contingency Plan ("MCP"), 310 CMR 40.0000 et seq. Specifically, the LSP has prepared this Opinion at the request of the Client identified above as part of a Phase II Comprehensive Site Assessment for the release of polychlorinated biphenyls ("PCBs"), polycyclic aromatic hydrocarbons ("PAHs"), and metals to soil. This stated purpose has been a significant factor in determining the scope and level of services required to render this Opinion.

B. Should the purpose for which this Opinion is to be used change, this Opinion shall no longer be valid.

2. General

This Opinion was prepared for the sole and exclusive use of the Client (EPA, and their authorized recipients), subject to the provisions of the MCP. No other party is entitled to rely in any way on the conclusions, observations, specifications, or data contained herein without the express written consent of Nobis Engineering, Inc. and the LSP who rendered this Opinion. Any use of this Opinion by anyone other than Client, or any use of this Opinion by Client or others for any purpose other than the stated purpose set forth above, without the LSP's review and the written authorization of Nobis Engineering, Inc. and the LSP, shall be at the user's sole risk, and neither Nobis Engineering, Inc. nor the LSP shall have any liability or responsibility, therefore.

3. Scope of Service

The observations and conclusions described in this Opinion are based solely on the Services provided pursuant to the Agreement with the Client and any approved additional services authorized by Client.

Without limitation of any other applicable limitations or conditions, neither Nobis Engineering, Inc. nor the LSP shall be liable for the existence of any condition, the discovery of which would have required the performance of services not authorized under the Agreement. To the best knowledge and belief of Nobis Engineering, Inc. and the LSP who signed this Opinion, no inquiry of an attorney-at-law having being made, no laws, regulations, orders, permits or approvals are applicable to the response actions to which this opinion relates except, if and to the extent applicable, M.G.L. c 21A, Sections 19-19J, 309 CMR, M.G.L. c. 21 E and 310 CMR 40.0000. Accordingly, this opinion is not intended to and does not address compliance with any other laws, regulation, orders, permits or approvals.

4. Changed Circumstances

The passage of time may result in changes in technology, economic conditions or regulatory standards, manifestations of latent conditions, or the occurrence of future events that would render this Opinion inaccurate or otherwise inapplicable. Neither Nobis Engineering, Inc. nor the LSP shall be liable or responsible for the consequences of any such changed circumstances or conditions on the accuracy of this Opinion. In addition, under no circumstances shall the Client nor any other person or entity rely on the information or conclusions contained in this Opinion after six months from its date of submission without the express written consent of Nobis Engineering, Inc. and the LSP. Reliance on the Opinion after such period shall be at the user's sole risk.

5. Use by Others

Should Nobis Engineering, Inc. or the LSP be required or requested to review or authorize others to use this Opinion after its date of submission, Nobis Engineering, Inc. shall be entitled to additional compensation at then existing rates or such terms as may be agreed upon between Nobis Engineering, Inc. and the Client. Nothing herein contained shall be deemed to require Nobis Engineering, Inc. or the LSP to undertake any such review or authorize others to use this Opinion.

6. The conclusions stated in this Opinion are based upon

☒ Visual inspection of existing physical conditions;

☒ Review and interpretation of site history and site usage information which was made available or obtained within the scope of work authorized by the Client;

☒ Information provided by the Client;

☒ Information and/or analyses for designated substances or parameters provided by an independent testing service or laboratory on a limited number of samples;

☒ A limited number of subsurface explorations made on dates indicated in documentation supporting the Opinion;

☐ Other:

Upon which the LSP has relied and presumed accurate, and upon which the LSP is entitled to reasonably rely. The LSP was not authorized and did not attempt to independently verify the accuracy or completeness of information or materials received from the Client and/or from laboratories and other third parties during the performance of its services. Neither Nobis Engineering, Inc. nor the LSP shall be liable for any condition, information, or conclusion, the discovery of which required information not available to the LSP or for independent investigation of information provided to the LSP by the Client and/or independent third parties.

7. Purpose

This Opinion is rendered for the limited purpose stated above and should not be deemed to be an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. NO WARRANTY OR GUARANTEE, WHETHER EXPRESS OR IMPLIED, IS MADE BY THIS OPINION, AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. Without limiting the generality of the foregoing, no warranty or guarantee is made that all contamination at a site or sources or contamination has been detected or identified, that any action or recommended action will achieve all its objectives, or that this Opinion or any action as to which this Opinion relates will be upheld by any audit conducted by the DEP or any other party.

APPENDIX H

July 12, 2024
File No. S00001.002

Town of Templeton, Massachusetts
Office of the Town Administrator
Mr. Adam Lamontagne
160 Patriots Road
East Templeton, MA 01438

Re: Phase II Comprehensive Site Assessment
24 Holman Street
Templeton, Massachusetts
MassDEP Release Tracking Number 2-0000924

Dear Mr. Lamontagne:

On behalf of the U. S. Environmental Protection Agency and Macvallee, LLC. s and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), Nobis Engineering, Inc. (Nobis) has prepared this letter to inform you of the submittal of a Phase II Comprehensive Site Assessment for the above referenced property (the Site). In accordance with 310 CMR 40.0520(2), the Site is classified as Tier II. A copy of the legal notice that will be published with the Gardner News is attached to this letter.

A copy of this document can be downloaded from the MassDEP's On-Line Reportable Release Lookup site at the following location:

https://eeaonline.eea.state.ma.us/portal#!/wastesite/2-0000924

Please do not hesitate to contact our office with any questions on this matter.

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

Sincerely,

NOBIS GROUP®

Adam N. Roy, LSP, CHMM
Senior Project Manager

Attachment: Legal Notice

July 12, 2024
File No. S00001.002

Town of Templeton, Massachusetts
Board of Health
Ms. Laura Hoag
160 Patriots Road
East Templeton, MA 01438

Re: Phase II Comprehensive Site Assessment
24 Holman Street
Templeton, Massachusetts
MassDEP Release Tracking Number 2-0000924

Dear Ms. Hoag:

On behalf of the U. S. Environmental Protection Agency and Macvallee, LLC. s and pursuant to 310 CMR 40.1403 of the Massachusetts Contingency Plan (MCP), Nobis Engineering, Inc. (Nobis) has prepared this letter to inform you of the submittal of a Phase II Comprehensive Site Assessment for the above referenced property (the Site). In accordance with 310 CMR 40.0520(2), the Site is classified as Tier II. A copy of the legal notice that will be published with the Gardner News is attached to this letter.

A copy of this document can be downloaded from the MassDEP's On-Line Reportable Release Lookup site at the following location:

https://eeaonline.eea.state.ma.us/portal#!/wastesite/2-0000924

Please do not hesitate to contact our office with any questions on this matter.

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

Sincerely,

NOBIS GROUP®

Adam N. Roy, LSP, CHMM
Senior Project Manager

Attachment: Legal Notice